

**AN ORDINANCE TO ADOPT A PLUMBING CODE FOR THE CITY OF MOBILE,
ALABAMA**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MOBILE, ALABAMA, AS
FOLLOWS:

SECTION ONE: Code and appendices. That, pursuant to Alabama Code Section 11-45-8 (1975), the 2009 Edition of the *International Plumbing Code*, along with the amendments to the same contained in this Ordinance, has been on file in the office of the City Clerk of the City of Mobile, Alabama, pursuant to a resolution adopted by the City Council of the City of Mobile, Alabama on January 18, 2011, is hereby adopted as the "Plumbing Code of the City of Mobile."

SECTION TWO: Published Ordinance. A copy of this Ordinance shall be published pursuant and according to law, after its adoption, but it shall not be necessary for the said 2009 International Plumbing Code to be published in a newspaper, nor shall the same be spread at length upon the minutes of this Council, but this Ordinance shall be recorded in said minutes.

SECTION THREE: Effective Date. The said 2009 *International Plumbing Code* shall be in full force and become effective sixty days after its adoption, and all ordinances heretofore adopted by the City of Mobile in conflict are hereby repealed.

SECTION FOUR: Contractors Criteria and Qualifications.

Contractor Responsibilities. Before any person, firm, or corporation shall engage in the plumbing business, he/she shall be qualified as set forth herein, and a license shall be obtained from the City, County, or State as required, and a proper bond posted. Where any plumbing work is being done, a Master or Journeyman Plumber shall at all times be present on the job and in actual control and in charge of the work being done. All plumbers shall be certified by the state of Alabama and Masters must be duly registered with the State of Alabama. An Alabama certified Master or Journeyman Plumber must be present at the time of the inspection for any below ground or concealed space areas. For all other inspections, their presence is not required.

Contractor License. It shall be the duty of every contractor who shall make contracts for the installation or repair of plumbing systems for which a permit is required and every contractor making such contracts and subletting the same, or any part thereof, to pay a license tax as provided in the general license ordinance, and to register his name in a book provided for that purpose, with the Building Official, giving full name, residence, and place of business, and, in case of removal from one place to another to have made corresponding change in said register accordingly.

SECTION FIVE: Surety Bond.

Surety Bond. In addition to the requirements as set forth herein, it shall be the duty of every builder, contractor and sub-contractor to provide and have on file a current license and permit bond for \$10,000. The bond is subject to the approval of The City of Mobile Legal Department and shall be provided by a surety company qualified to do business in the State of Alabama and from an agent thereof with an office in the City of Mobile.

Such bond shall insure that the licensee complies with laws, ordinances and building regulations of the applicable governing body. The local governing body shall be indemnified and saved harmless from all claims arising from accidents and damage of any character whatsoever caused by the negligence of such person, firm, or corporation engaged in the plumbing business or by any other unfaithful, inadequate work done either by themselves or their agents or employees.

106.7.1

SECTION SIX: Criteria for Owner to Obtain Permits.

106.9 Homeowner's personally doing plumbing work on the residence that they occupy, may obtain plumbing permits for their residence if they are deemed competent by a plumbing official. All applicants must complete and sign an affidavit stating ownership and responsibility for all plumbing work. Any individual other than the owner doing the work on the property is considered a contractor and shall meet the requirements of a contractor as set forth herein. All inspection criteria shall be the same as for contractors in section 106.7. All other properties will be considered as commercial and subject to Section Four.

SECTION SEVEN: Vehicular Signs. All trucks and similar vehicles used by plumbing contractors shall have signs on both sides of the body, including the full name, address and telephone number of the firm to which it belongs. Lettering may be any color in contrast to the color of the body, but letters indicating the firms name must be at least 1 ½' high.

SECTION EIGHT: Chapter 1 of the 2009 International Plumbing Code shall be amended as follows:

101.1 Title. These regulations shall be known as the International Plumbing Code of the City of Mobile, Alabama, herein after referred to as, "this code."

101.2 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 this jurisdiction.

Add 101.2.1 Appendices

101.2.1 Appendices. The following appendices shall be adopted.

B – Rates of rainfall for various cities.

C – Gray water recycling systems.

D – Degree day and design temperatures.

E – Sizing of water piping system.

Amend Section 102 Applicability to read as follows:

102.6 Historic buildings. The provisions of this code relating to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures shall not be mandatory for existing buildings or structures identified and classified by the state or local jurisdiction as historic buildings, including those listed on the National Register of Historic

Places or eligible for listing on the National Register of Historic Places, when such buildings or structures are judged by the Code Official to be safe and in the public interest of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, restoration, relocation or moving of buildings.

102.7 Moved buildings. Plumbing systems that are part of buildings or structures moved into, or moved within, the jurisdiction shall comply with the provisions of this code for new installations.

Amend Section 106 Permits to read as follows:

106.4 By whom application is made. Application for a permit shall be made by the person or agent to install all or part of any plumbing system. The applicant shall meet all qualifications established by statute, or by rules promulgated, by this code, or by ordinance, or by resolution. The full name and address of the applicant shall be stated in the application. An Alabama Master Plumbing License and Business License shall be required, except for home -owners personally doing work on the residence they occupy. All others must be duly registered, licensed plumbers with the City of Mobile.

106.4.1 For the Purposes of Water Heater Installations Only. A state certified Master gas fitter may purchase the permit for water heater installation. Said Master gas fitter must adhere to the same qualifications as plumbers.

106.5 Permit issuance. The application, construction documents and other data filed by an applicant for permit shall be reviewed by the Code Official or his designated representative. If the proposed work conforms to the requirements of this code and all laws and ordinances applicable there to, the application has been signed by a licensed master plumber, the street address of the location is included, and applicable fees have been paid, a permit shall be issued to the applicant. If the application does not conform to the requirements a permit shall not be issued, and the application with reason for refusal shall be returned to the applicant. The Code Official may also refuse to issue permits to any individual who has failed to arrange for necessary inspections, as required by the code, on previous permits.

106.6.2 Fee Schedule. On all plumbing installations requiring a plumbing permit, a fee for each plumbing permit shall be paid as required at the time of filing the application, in accordance with the fee schedule adopted by separate ordinance.

Amend Section 107 as follows:

Add to 107.1 Required inspections and testing the following:

4. Building sewer inspection shall be made after piping is installed, and before any back fill is put in place.
5. Water service inspection shall be made after piping, valves, and back flow preventors are installed, and before any back fill is put in place.

Amend Section 108 as follows:

Change Section 108.4 Violation to read as follows:

108.4 Violation penalties. (a) Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair plumbing work in violation of the approved construction documents or directive of the Plumbing Official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor, In accordance with the applicable sections of the Mobile City Code. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

(b) Violation of the provisions of the 2009 International Plumbing Code (IPC) shall be subject to \$250.00 unless otherwise listed below:

- | | |
|--|----------|
| 1. Working without proper license and certifications | \$500.00 |
| 2. Signage on all vehicles used by contractor | \$100.00 |
| 3. Interference with the Code Official | \$100.00 |

Change Section 108.5 Stop work orders as follows:

108.5 Stop work orders. Upon notice from the code official, work on any plumbing system that is being done contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable of a violation penalty in accordance with Section 108.4.

Amend section 109 as follows:

Delete articles 109.1 through 109.7.

Add new article as follows:

1. **109.1 Construction Board of Appeals.** The board of appeals, herein called the Construction Board of Appeals, shall be in accordance with the applicable sections of the International Building Code and the Ordinance Adopting the International Building which is adopted by separate ordinance.

SECTION NINE: Chapter 2 of the 2009 International Plumbing Code shall be amended as follows:

Change Section 202 General Definitions to read as follows: (all other definitions to remain as written)

FLOOD HAZARD AREA. The area designated as a flood hazard area in accordance with the Storm Water Ordinance adopted and administered by the City of Mobile's Engineering Department.

HISTORIC BUILDING. Any building or structure that is listed in the Alabama Register of Landmarks and Heritage or in the National Register of Historic places; designated as a historic property under local or state designation; certified as a contributing resource within a National Register listed or locally designated historic district; or with an opinion or certification that the property is eligible to be listed in the Alabama Register or the National Register of Historic Places either individually or as a contributing building to a historic district by the State Historic Preservation Officer or the Keeper of the National Register of Historic Places.

INDIVIDUAL SEWAGE DISPOSAL SYSTEM. A system for disposal of domestic sewage by means of a septic tank, cesspool or mechanical treatment, designed for utilization apart from a public sewer to serve a single establishment or building. **NOTE:** this system will be allowed only if public sewer is not available.

MAIN VENT. The principle vent for a plumbing system extending full sized from the building drain, through the roof.

POTABLE WATER. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the bacteriological and chemical quality requirements of the Alabama Department of Environmental Management (ADEM) drinking water standards. (A.D.E.M.-Admin code R335-7).

PREMISES. A lot, Plot or parcel of land, easement, public way or right-of-way, including any structures thereon.

Amend Chapter 2 – Sewer Definitions to read as follows:

Sanitary Sewer. Beginning three feet from the building, a pipe that carries sewage and excludes storm, surface and ground water.

SECTION TEN: Chapter 3 of the 2009 International Plumbing Code shall be amended as follows:

Amend Section 305 Protection of pipes and plumbing system components to read as follows:

305.6.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of schedule 40 and have a minimum of 12 inches (305mm) cover at the point of grease trap or septic tank connection. Building sewers, less than schedule 40, or rated drain waste and vent only, that connect to public sewage systems shall have a minimum of 18” inches (458mm) cover, and shall not be placed under driveways or parking lots.

Change section 311 Toilet facilities for workers:

310.5.1 Urinal partitions. Partitions shall be made of a smooth and nonporous material.

311.1 General. Toilet facilities shall be provided for construction workers and such facilities shall be maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer

type shall conform to ANSI Z4.3 All nonsewer or “portable” facilities shall be removed from the site within seven working days of completion of construction.

Change Section 312 Tests and inspections to read as follows:

312.2 Drainage and vent water test. 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 a point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than 5 foot (1524mm) head of water. In testing successive sections, at least the upper 5 feet (1524mm) of the next preceding section shall be tested so that no joint or pipe in the building, except the uppermost 5 feet (1524mm) of the system shall have been submitted to a test of less than a 5 foot (1524mm) 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. The system shall then be tight at all points.

312.6 Gravity sewer test. Gravity sewer tests shall consist of plugging the end of the building sewer at the point of connection with the public sewer, filling the building sewer with water, testing with not less than a 5 foot (1524mm) head of water and maintaining such pressure for 15 minutes.

Delete Section 312.8 Storm drainage system test, in its entirety.

Section 312.9 Shower liner test. This section will be used for reference only.

Delete Section 312.10 Inspection and testing of back flow prevention assemblies, in its entirety.

Delete Section 313 Equipment efficiencies, in its entirety.

Delete Section 314 in its entirety.

Add Section 314 Condensation disposal, to read as follows:

314.2.1 Condensation disposal. Condensation from all cooling coils and evaporators shall be conveyed from the drip pan outlet to an approved place of disposal. Condensate shall not discharge into a street or alley or ditch, onto the surface of the ground, or other area so as to cause a nuisance, nor into a private sewage disposal system.

SECTION ELEVEN: Chapter 4 of the 2009 International Plumbing Code shall be amended as follows:

Add to Section 401 General:

401.2.1 Condemned equipment. All plumbing equipment condemned by the Code Official because of wear, damage, defects or sanitary hazards shall not be reused.

401.2.2 Abandoned equipment. All septic tanks and cesspools shall be pumped and filled, by the permit holder, when connecting to an existing public sewer system.

401.4 Prohibited location. No floor drain or other plumbing fixture shall be installed in a room containing air handling machinery when such room is used as a plenum. When rooms are used as a plenum, equipment drains shall be conveyed through an indirect waste receptor located outside such rooms or other approved point of disposal.

401.4.1 Floor drains directly connected to the plumbing system shall not be located in elevator pits.

Change Section 403 Minimum plumbing facilities to read as follows:

Add to Section 403.6 Public facilities:

403.6.3 Prohibited location. In restaurants, nightclubs, and other food establishments, public facilities shall not be located in employee only designated areas. Public facilities shall be accessible by customers, patrons, and visitors without going behind counters/bars, or through food preparation areas.

Change Section 406 Automatic clothes washers to read as follows:

406.2 Water connection. Delete.

406.3 Waste connection. The waste from an automatic clothes washer shall discharge through an air-break into a stand pipe in accordance with Section 802.4.

Add to chapter 406

406.4 Washing machine stand pipe. Stand pipe shall not terminate less than 34 inches above finished floor.

Add to chapter 407

407.5 Roman/Garden tub enclosure. All valves in roman/garden tub enclosures shall be accessible.

Change Section 409 Dishwashing machines to read as follows:

409.2 Water connection. The water supply to a commercial dishwashing machine shall be protected against back flow by an air gap or back flow preventer in accordance with Section 608.

Revise Section 410 Drinking fountains to read as follows:

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

Amend SECTION 412 FLOOR DRAINS to read as follows:

412.3.1 Floor drains in residential occupancies shall have a minimum of 2-inch diameter (51mm) drain outlet.

412.3.2 Floor drains in commercial occupancies shall have a minimum of 3-inch diameter (76 mm) drain outlet.

Add 412.5 Restrooms. In restrooms with urinals, other than residential, floor drains shall be provided. Installation shall be in accordance with chapters 412.1, 412.2, and 412.3, and floors shall be sloped to the drain.

Change 417.3 SHOWER OUTLET WASTE. To read as follows:

417.3 Shower waste outlet. Waste outlets serving showers shall be at least 2 inches in diameter and for other than waste outlets in bathtubs, shall have removable strainers be not less than 3 inches in diameter with strainer openings not less than 0.25 inches in minimum dimension. Where each shower space is not provided with an individual waste outlet, the waste outlet shall be located and the floor pitched so that waste from one shower does not flow over the floor area serving another shower. Waste outlets shall be fastened to the waste pipe in an approved manner.

Change Section 419 Urinals to read as follows:

Add 419.4 Additional requirements. See Section 412 for additional requirements involved with use of urinals.

Change Section 426 Manual food and beverage dispensing equipment to read as follows:

Add 426.2 Waste drains. Waste drains for manual food and beverage dispensing equipment shall discharge to the grease trap.

SECTION TWELVE: Chapter 5 of the 2009 International Plumbing Code shall be amended as follows:

Change SECTION 501 GENERAL to read as follows:

501.4 Location. Water heaters and storage tanks shall be located and connected so as to provide ready access for observation, maintenance, servicing and replacement. All water heaters located in attics or any overhead locations shall be accessible by a permanent fixed staircase

Change SECTION 502 INSTALLATION to read as follows:

502.1 General. Water heaters shall be installed in accordance with the manufacturer's installation instructions. Oil-fired water heaters shall conform to the requirements of this code and the *2009 International Mechanical Code*. Electric water heaters shall conform to the requirements of this code and provisions of the *2008 NEC* listed in Chapter 13. For reference only, gas fired water heaters shall conform to the requirements of the *2009 International Fuel Gas Code*.

502.3 Water heaters installed in attics. Attics containing a water heater shall be provided with a readily accessible opening and unobstructed passageway large enough to allow removal of the water heater. The opening shall be accessed by a permanently fixed staircase. The passage way

shall not be less than 30 inches (762mm) high and 28 inches (559mm) wide and not more than 20' feet (6096mm) in length when measured along the center line of the passage way from the opening to the water heater. The passage way shall have continuous solid flooring not less than 24 inches (610mm) wide. A level service space at least 30 inches (762mm) deep and 30 inches (762mm) wide shall be present at the front or service side of the water heater. The clear access opening shall be of sufficient dimensions to allow removal and replacement of the water heater, but in no case less than 20 inches by 30 inches (508mm by 762mm).

Add 502.6 Prohibited locations. Gas-fired water heaters shall not be installed in a sleeping room, bathroom or a closet accessed through a sleeping room or bathroom.

Add 502.7 Water heaters installed in restaurants, bars, lounges, etc. In establishments with food permits, water heaters shall be caulked to the floor or raised a minimum of 6 inches (152mm) above the floor.

Change Section 503 Connections to read as follows:

Add 503.3 Non-metallic pipe as follows:

503.3 Non-metallic pipe. Non-metallic pipe shall not be installed within 6" inches (152mm) of the inlet, outlet, or vent of a water heater.

Change Section 504.3 Shutdown as follows:

504.3 Shutdown. A means of disconnecting an electric hot water supply system from its power supply shall be provided in accordance with the 2008 NEC A separate valve shall be provided to shut off the fuel supply to all other types of hot water supply systems. Required electrical disconnect and fuel shut off shall be located within 5 feet (1524mm) of the water heater with identifying label.

Change Section 504.6 Requirements for Discharge piping as follows:

504.6.5 To a waste receptor or to the outdoors only.

504.6.14 The relief valve shall discharge full size to a safe place of disposal outside the building or to an indirect waste receptor. Relief valve shall not discharge into a private sewage disposal system. The discharge pipe for the relief valve shall not have any trapped sections and shall have a visible air gap or air gap fitting located at termination. The discharge shall be installed in a manner that does not cause personal injury to occupants in the immediate area or structural damage to the building.

504.7 Required pan. Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a thickness of 24 gage, or other AGA approved pans.

504.7.1 Pan size and drain. The pan shall not be less than 1.5 inches (38mm) deep and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a minimum diameter of 1 inch (25.4mm). Pan drain shall not discharge into a private sewage disposal system.

Add new SECTION 506 MINIMUM CAPACITIES as follows;

506.1 Residential. Water heaters installed in residential occupancies shall be sized in accordance with TABLE 506.

506.2 Commercial. Water heaters installed in commercial occupancies shall be sized by an engineer; all food establishments shall have a 30-gallon minimum.

Table 506
Minimum Capacities for Water Heater¹

FUEL	ELECT			ELECT			ELEC			ELECT			
	GAS	OIL	OIL	GAS	OIL	OIL	GAS	T.	OIL	GAS	OIL	OIL	
NUMBER OF BEDROOMS													
1 to 1 ½ Baths	1			2			3						
	Storage(gph)	20	20	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			
NUMBER OF BEDROOMS													
2 to 2 ½ Baths	2			3			4			5			
	Storage(gph)	30	40	30	40	50	30	40	50	30	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
NUMBER OF BEDROOMS													
3 to 3 ½ Baths	3			4			5			6			
	Storage(gph)	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 gph = 1.05 mL/s

Note:

1. Storage capacity, input and the 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 is based on 100°F (37.8°C) water temperature rise. The input rating is in units of one thousand BTUs per hour for gas and oil, and one thousand watts per hour for electric.

Example: For a 3-bedroom, 2 bath residence there are three choices as follows: A 40 gal storage/30gph recovery gas heater; a 50 gal storage/22gph recovery electric heater; or a 30 gal storage/59gph recovery oil heater; or an equivalent combination which will produce at least a 70 gph total draw.

SECTION THIRTEEN: Chapter 6 of the 2009 International Plumbing Code shall be amended as follows:

Add to CHAPTER 6 Water Supply and Distribution:

Change SECTION 603 WATER SERVICE to read as follows:

603.1 Size of water service pipe and fixtures. The water service pipe and fixtures shall be sized to supply water to the structure in the quantities and at the pressures required by this code. The minimum inside diameter of the water service shall be ¾ inch (19.1mm).

Add to SECTION 603 WATER SERVICE;

603.1.1 Fittings. All service lines with insert fittings having less than ¾ inch (19.1mm) inside diameter shall require a minimum of 1 inch (25.4mm) pipe to the first manifold or water heater.

603.2 Note The exception's listed (numbers 1, 2 and 3) do not apply to force main or pressurized sewers, a separate ditch is required.

603.2.1 Water service near sources of pollution. Potable water services pipes shall be separated from septic tanks, and septic tank disposal fields in accordance with Alabama Department of Public Health (ADPH) rules. See section 605.1 for soil and ground water conditions.

Change Section 604 DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM; to read as follows:

604.1.1 Piping below slab. All piping below slab shall be seamless tubing.

604.3 Water distribution system design criteria. The water distribution system shall be designed, and pipe and fitting sizes shall be selected such that under conditions of peak demand, the capacities at the fixture supply pipe outlets shall not be less than shown in Table 604.3. The minimum flow rate and flow pressure provided to the fixtures and appliances not listed in table 604.3 shall be in accordance with manufacturer's installation instructions. All systems utilizing insert type fittings shall be limited to 1 fixture per 1/2 inch or less supply piping.

604.5 Size of fixture supply. The minimum size of a fixture supply pipe and fittings shall be as shown in Table 604.5. The fixture supply pipe shall not terminate more than 30 inches (762mm) from the point of connection to the fixture. A reduced size flexible water connector installed between the supply pipe and the fixture shall be of an approved type. The supply pipe shall extend to the floor or wall adjacent to the fixture. The minimum size of individual distribution lines and fittings utilized in parallel water distribution systems shall be as shown in Table 604.5.

Add to SECTION 604.9

604.9.1 Location of hammer arrestors. Water hammer arrestors shall be installed on both the inlet and outlet of the water heater where air hammer exists and where deemed necessary by the plumbing official.

Change Section 605 MATERIALS, JOINTS AND CONNECTIONS; to read as follows:

605.3 Water service pipe. Water service pipe shall conform to NSF61 and shall conform to one of the standards listed in Table 605.4. All water service pipe or tubing, installed under ground and outside of the structure, shall have a minimum working pressure of 200psi (1375kPa) at 73.4°F (23°C). Where the water pressure exceeds 200psi (1375kPa), piping material shall have a minimum rated working pressure equal to the highest available pressure. All ductile iron water pipe shall be cement mortar lined in accordance with AWWA C104.

Table 605.3 Water Service Pipe. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe and galvanized steel.

Table 605.4 Water Distribution Pipes. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe and galvanized steel pipe.

Table 605.5 Pipe fittings. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe and galvanized steel pipe.

Delete Paragraph 605.17.2 in its entirety and replace with;

605.17.2 Mechanical joints. Mechanical joints shall be installed in accordance with the manufacturer's instructions. Fittings for cross-linked polyethylene (PEX) plastic tubing as described in ASTM F 877, ASTM F 1807, ASTM F 1960 and ASTM F 2080 shall be installed in accordance with the manufacturer's instructions.

Change Section 606 Installation of the building water distribution system to read as follows:

606.2 Location of shutoff valves. Shutoff valves shall be installed in the following locations:

1. On the fixture supply to all fixtures.
2. On the water supply pipe to each appliance or mechanical equipment.
Exception: Shutoff valves shall not be required for concealed valves.
3. Within one foot of a washing machine or pump.

606.3 Access to valves. Access shall be provided to all required full-open valves and shut off valves, with a minimum 6 inch (152mm) access.

Add to Section 608.17 Protection of potable water supply.

NOTE: This section is for reference only; water supplies are regulated by the Alabama Department of Environmental Management (ADEM).

Table 608.17.1
DISTANCE FROM SOURCES OF CONTAMINATION TO PRIVATE
WATER SUPPLIES AND PUMP SUCTION LINES

SOURCE OF CONTAMINATION	DISTANCE (feet)
Barnyard	100
Farm silo	25
Pasture	100
Pump house floor drain of cast iron draining to ground surface	2
Seepage pits	100
Septic tank	50
Sewer	10
Subsurface disposal fields	100
Subsurface pits	100

For SI: 1 foot = 304.8mm.

SECTION FOURTEEN: Chapter 7 of the 2003 International Plumbing Code shall be amended as follows:

Change Section 701 General 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. An approved private sewage disposal system in accordance with Alabama Department of Public Health rules shall be required where public sewer is not available.

Exception: At time of adoption of this code, existing private sewage systems shall be allowed to remain in use until failure or repairs are necessary. Then connection to public sewer shall be required if it is available.

Change Section 702 Materials to read as follows:

Table 702.1 Aboveground drainage and vent pipe. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Table 702.2 Underground building drainage and vent pipe. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Table 702.3 Building sewer pipe. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Table 702.4 Pipe fittings. Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Change Section 706 Connections between drainage piping and fittings to 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 pattern of flow created by the fitting. Double sanitary tee pattern of 2 inches (50.8mm) or less shall not receive discharge from fixtures or appliances with pumping action discharge.

Delete Section 706.4 in its entirety.

Change Section 708 Cleanouts.

708.3.2 Change to read; Building sewers shall be provided with cleanouts located not more than 80 feet apart measured from the upstream entrance of the cleanout. (The rest of chapter as written in code).

708.3.3 Change to read; Cleanouts shall be installed at each change of direction greater than 45 degrees (0.79 rad) in the building sewer.

708.3.5.1 Building sewer and property service lateral connection. There shall be a clean out located at sewer conjunction of service lateral and building sewer outside of right of way.

Change to Table 709.1 Drainage fixture units for fixtures and groups. Minimum trap size for all kitchen sinks shall be 2"inch.

Change Section 710 Drainage system sizing to read as follows:

Add Notes to Table 710.1 (1) as follows:

Note b The maximum number of water closets on a 3 inch (76.2mm) line shall be 3.

Note c No building sewer shall be less than 4 inch (101.6mm) diameter.

Note d Minimum size of building drain, in a commercial building, shall be a minimum of 4 inches (101.6mm).

Change Section 712 Sumps and ejectors to read as follows:

712.2 Full open valve required. Delete Exception.

712.3.2 Sump pit. The sump pit shall be not less than 18 inches (457mm) in diameter and 24 inches (610mm) deep, unless otherwise approved. The pit shall be accessible and located such that all drainage flows into the pit by gravity. The sump pit shall be constructed of tile, concrete, steel, plastic or other approved materials. The pit bottom shall be solid and provide permanent support for the pump. The sump pit shall be fitted with a gas-tight removable cover adequate to support anticipated loads in the area of use. The sump pit shall be vented in accordance with Chapter 9, Section 916.5.

Change Section 715 Backwater valves to read as follows:

Section 715 Sewage backflow.

715.1 Sewage backflow. Where a plumbing drainage system may be subject to a back-flow of sewage including, but not limited to the installation fixtures below the level of the nearest upstream manhole cover, suitable provisions shall be made by the contractor or property owner, ~~or the public sewer authority to prevent its overflow into the building~~ all on-premise (private property) generated effluent from entering the building. For off-premise generated effluent (not private property) either the owner, contractor, or, if part of the public sewer system, the public sewer authority may be required to install overflow protection for the premises. Check valves or mechanical devices shall not be allowed in the sanitary sewer system.

SECTION FIFTEEN: Chapter 8 of the 2009 International Plumbing Code shall be amended as follows:

Change Section 802 Indirect wastes to read as follows:

802.1.1 Food handling. Equipment and fixtures for the storage, preparation and handling of food shall discharge through an indirect waste pipe by means of an air gap.

Exception: This requirement shall not apply to dishwashing machines, with built in air breaks.

802.1.2 Floor drains in food storage areas. Delete Exception.

Change Section 803 Special Wastes to read as follows;

803.4 Special Wastes for Swimming Pools. All pool waste, either backwash of filters or pool drainage, shall be taken to an approved pool waste receptor. This waste receptor may connect to city sewer, storm drain, or on-site irrigation. Pool waste shall not be placed on streets, on or across neighboring properties, or any place in the estimation of the Building Official where it is considered a nuisance. All discharged waste to irrigation or storm drain shall comply with ADEM rules and regulations.

SECTION SIXTEEN: Chapter 9 of the 2009 International Plumbing Code shall be amended as follows:

Change Section 903 Outdoor Vent Extensions; to read as follows;

903.1 Stack required. Every building in which plumbing is installed shall have at least one stack the size of which is not less than 3 inches (76mm) in diameter. Such stack shall run undiminished in size and as directly as possible from the building drain through to the open air or to a vent header that extends to the open air.

903.3 Vent termination. Every vent stack or stack vent shall extend outdoors and terminate to the air above the roof line.

Change Section 904 Vent terminals to read as follows:

904.1 Roof extension. All open vent pipes that extend through a roof shall be terminated at least 6 inches (152mm) above the roof; except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134mm) above the roof.

Change Section 906.1 Distance of trap from vent.

Delete Exception in its entirety.

Change Section 907 INDIVIDUAL VENT; to read as follows;

907.2 Where required. All fixtures discharging downstream from a water closet shall be individually vented except as provided in 907.3.

907.3 Battery venting. A branch or waste pipe of uniform diameter throughout its length, to which are connected in battery a number of fixtures not exceeding 50% of the fixture units allowed by column two of Table 710.1(2), may be vented by a circuit or loop vent system connected in front of the last upstream fixture drain. In addition, battery vented branches serving three or more fixtures shall be provided with a relief vent connected in front of the first fixture

connection. When lavatories or similar fixtures having a fixture unit rating of four or less and a maximum 2" inch (51mm) fixture drain discharge from above such branches, each vertical branch shall be provided with a continuous vent. Fixtures having fixture unit ratings greater than four shall not discharge into such branch from above unless all fixtures in the battery group are individually vented. Fixtures from an upper floor shall not discharge into a battery vented branch.

Exception: The relief vent may be omitted provided a stack vent or vent stack is located down stream of the first horizontal fixture connection.

Change Section 912 Combination drain and vent system to read as follows:

912.2.2 Connection. The combination drain and vent pipe shall connect to a horizontal drain that is vented or a vent shall connect to the combination drain and vent. The vent connecting to the combination drain and vent pipe shall extend vertically a minimum of 6 inches (152mm) above the flood level rim of the highest fixture being vented before offsetting horizontally.

Add to SECTION 917 Air Admittance Valves; to read as follows:

917.1.1 Air admittance valves. Air admittance valves may be used only with prior approval of the plumbing official.

Delete Section 917.3 in its entirety.

917.7 Vent required. Within each plumbing system a minimum of two stack vents or vent stack shall extend outdoors to the open air. There shall be a minimum of one vent to the open air downstream of, and a minimum of one vent to the open air upstream of an air admittance valve.

917.8.1 Prohibited installations. Air admittance valves shall not be installed in commercial food preparation or storage areas.

SECTION SEVENTEEN: Chapter 10 of the 2009 International Plumbing Code shall be amended as follows:

Add to SECTION 1003 INTERCEPTORS AND SEPERATORS: to read as follows:

1003.3.4 Grease Interceptors. Grease interceptors shall conform to PDI G101.

1003.3.4.1 Grease Interceptor capacity. Grease interceptors shall have the grease retention capacity indicated in Table 1003.3.4.1 for flow-through rates indicated. The minimum requirement shall be a 200-pound interceptor, unless designed by a professional engineer.

Change Table 1003.3.4.1 to read: Table 1003.3.4.1 Capacity of Grease Interceptors.

1003.3.4.2 Rate of Flow Controls. Grease interceptor shall be equipped with devices to control the rate of water flow so that the water flow does not exceed the rated flow. The flow-control device shall be vented and terminate not less than 6 inches (152 mm) above the flood rim level or installed in accordance with the manufacturer's instructions.

1003.3.5.1 Grease Interceptor Capacity. Grease trap (GT) size or grease interceptor (GI) capacity shall be determined by using the following formula and table:

Note: Multiply total gallons required by this formula x5 to achieve pounds of grease retention for passive interceptors.

$$D \times MF \times GL \times RT \times ST = \text{GT size (gallons)}$$

Note; add 25 seats for each drive through

CODE	EXPLANATION
D	Total number of seats
MF	Meal Factor, based on establishment type and average time per meal 1.33 Fast Food/Cafeteria (45 min) 1.00 Restaurant (60 min) 0.67 Leisure Dining (90 min) 0.50 Dinner Club (120 min)
GL	Gallons of wastewater per meal 6 With dishwashing machine 5 Without dishwashing machine 2 Single service kitchen 1 Food Waste Disposal
RT	Retention time 2.5 Commercial kitchen 1.5 Single service kitchen
ST	Storage factor, based on hours of operation 1.0 Operation of 8 hours 1.5 Operation of 12 hours 2.0 Operation of 16 hours 2.5 Operation of 24 hours 1.5 Single service kitchen

Notes: 1. Minimum grease interceptor size, if connected to a septic tank system shall be determined by the board of health on site division.

2. Minimum grease interceptor size, if connected to public sewer, shall be 1,000 gallons, unless designed by an engineer.
3. The construction plans submitted with the permit application shall show the capacity of the grease interceptor and the above grease interceptor capacity formula with all formula code values identified.

1003.3.5.2 Baffling Requirements for unmarked (no astm#) Grease interceptors. All grease interceptors shall have a minimum of two (2) baffles. The nearest baffle from entry point of effluent shall allow flow under the baffle wall. The second baffle will allow flow over the top of baffle wall. Inlet tees shall have a drop pipe a min. of 12 inches long. Exit fittings (tees) shall have a drop pipe that extends to within 12 inches of bottom of tank. Suitable room for rodding must be allowed at top of each tee. All grease interceptors shall be accessible for pumping and cleaning with access covers at each end of trap.

1003.3.5.3 Grease Interceptor Installations. All grease interceptors shall be installed as per manufacturer's recommendations. This includes wall sizing for high traffic areas and location.

Add 1003.3.6 as follows:

Grease interceptor Sampling Port. A clean out shall be installed immediately downstream of the grease interceptor for the purpose of acquiring grease interceptor effluent samples.

1003.4 Oil separators required. At repair garages; gasoline stations with grease racks, grease pits or work racks; car washing facilities with engine or undercarriage cleaning capability; and at factories where oily and flammable liquid wastes are produced, separators shall be installed into which all oil-bearing, grease bearing, or flammable wastes shall be discharged before emptying in the building drainage system or other point of disposal.

Chapter 11 Storm Drainage. Adopted for reference purposes only; Refer to the storm drain ordinance established by the City of Mobile Engineering department.

Section Eighteen: Separation Clause

SEPARATION CLAUSE

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. The City Council of the City of Mobile hereby declares that it would have passed this code and each section, subsection, clause, or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, or phrases be declared unconstitutional.

Adopted: January 18, 2011

Lisa C. Lambert, City Clerk