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:

ARTICLE ONE: Code and Appendices. That, pursuant to Alabama Code Section 11-45-8 (1975),  
the 2012 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  
March 3, 2014, is hereby adopted as the “Plumbing Code of the City of Mobile.”

ARTICLE 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 2012 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.

ARTICLE THREE: Effective Date. The said 2012 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Mobile in conflict are hereby repealed.

ARTICLE 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 Plumber 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  
Master Plumbers must be duly registered with the State of Alabama. An Alabama certified Master  
Plumber 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 plumbing 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. The plumbing contractor shall register his name in a book provided for  
that purpose, with the Code 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.

ARTICLE FIVE: Surety Bond. In addition to the requirements as set forth herein, it shall be the duty  
of every plumbing 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.

**ARTICLE SIX: Criteria for Owner to Obtain Permits.** 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 Code 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 plumbing contractor and shall meet the requirements of a plumbing contractor as set forth herein. All inspection criteria shall be the same as for plumbing contractors in **ARTICLE FOUR** (Contractors Criteria and Qualifications). All other properties will be considered as commercial and subject to **ARTICLE FOUR**.

**ARTICLE 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 firm’s name must be at least 1 ½ inches high.

**ARTICLE EIGHT: CHAPTER 1 SCOPE AND ADMINISTRATION** of the 2012 International Plumbing Code shall be amended as follows:

Amend **SECTION 101 GENERAL** to read as follows:

Amend Paragraph 101.1 as follows:

**101.1 Title.** These regulations shall be known as the Plumbing Code of the City of Mobile, Alabama, herein after referred to as, “this Code.”

Amend Paragraph 101.2 as follows:

**101.2 Scope.** The provisions of this Code shall apply to the erection, installation, alteration, repairs, relocation, and replacement, addition to, use or maintenance of plumbing systems within this jurisdiction.

Amend Exception to read as follows:

**Exception:** Detached one and two family dwellings and multiple single family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the International Plumbing Code.

Add Paragraph 101.2.1 to read as follows:

**Add 101.2.1 Appendices.** The following appendices shall be adopted.

- B – RATES OF RAINFALL FOR VARIOUS CITIES.
- D – DEGREE DAY AND DESIGN TEMPERATURES.
- E – SIZING OF WATER PIPING SYSTEM.

Amend **SECTION 102 APPLICABILITY** to read as follows:

Amend Paragraph 102.6 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.

Amend Paragraph 102.7 to read as follows:
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:

Amend Paragraph 106.4 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 homeowners personally doing work on the residence they occupy. All others must be duly registered, licensed plumbers with the City of Mobile.

Add Paragraph 106.4.1 to read as follows:
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.

Amend Paragraph 106.5 to read as follows:
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 thereto, 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.

Amend Paragraph 106.6.2 to read as follows:
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 “Building Codes Permit Fee Schedule Ordinance” as adopted in a separate ordinance.

Amend Paragraph 106.6.3 to read as follows:
106.6.3 Fee refunds. Plumbing permit refunds shall be issued in accordance with the “Building Codes Permit Fee Schedule Ordinance” as adopted in a separate ordinance.

Amend SECTION 107 INSPECTIONS AND TESTING to read as follows:

Amend Paragraph 107.2 to read as follows:
Add to 107.2 Required inspections and testing. to read as follows:

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 VIOLATIONS to read as follows:

Amend Paragraph 108.4 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 2012 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

Amend Paragraph 108.5 to read 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 Paragraph 108.4.

Amend SECTION 109 MEANS OF APPEAL to read as follows:

Delete Paragraphs 109.1 through 109.7

Add Paragraph 109.1 to read as follows:

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 Code which is adopted by separate ordinance.

ARTICLE NINE: CHAPTER 2 DEFINITIONS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 202 GENERAL DEFINITIONS to read as follows:
Add 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 Management and Flood Control 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. 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 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.

ARTICLE TEN: CHAPTER 3 GENERAL REGULATIONS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 305 PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS to read as follows:

Amend Paragraph 305.4.1 to read as follows:
305.4.1 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.

Amend SECTION 308 PIPING SUPPORT to read as follows:
Amend Paragraph 308.9 to read as follows:

308.9 Parallel water distribution systems. Piping bundles for manifold systems shall be supported in accordance with Table 308.5. Support at changes in direction shall be in accordance with the manufacturer’s instructions. Where hot water piping is bundled with cold or hot water piping, each hot water pipe shall be insulated.

Exception: This section shall not apply to residential occupancies.

Amend SECTION 311 TOILET FACILITIES FOR WORKERS to read as follows:

Amend Paragraph 311.1 to read as follows:

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.

Amend SECTION 312 TESTS AND INSPECTIONS to read as follows:

Amend Paragraph 312.2 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.

Amend Paragraph 312.6 to read as follows:

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 Paragraph 312.8 Storm drainage system test, in its entirety.

Amend Paragraph 312.9 to read as follows:

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

Delete Paragraph 312.10 Inspection and testing of backflow prevention assemblies, in its entirety.

ARTICLE ELEVEN: CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 401 GENERAL to read as follows:

Add Paragraph 401.2.1 to read as follows:
401.2.1 Abandoned equipment. All septic tanks and cesspools shall be pumped and filled, by the permit holder, when connecting to an existing public sewer system.

Add Paragraph 401.4 to read as follows:

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.

Amend SECTION 406 AUTOMATIC CLOTHES WASHERS to read as follows:

Amend Paragraph 406.2 to read as follows:

406.2 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 Paragraph 406.3 to read as follows:

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

Amend SECTION 407 BATHTUBS to read as follows:

Add Paragraph 407.5 to read as follows:

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

Amend SECTION 412 FLOOR AND TRENCH DRAINS to read as follows:

Add Paragraph 412.3.1 to read as follows:

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

Add Paragraph 412.5 to read as follows:

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.

Amend SECTION 417 SHOWERS to read as follows:

Amend Paragraph 417.3 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.

Amend SECTION 419 URINALS to read as follows:

Add Paragraph 419.4 to read as follows:
419.4 Additional requirements. See Section 412.5 for additional requirements involved with use of urinals.

Amend SECTION 426 MANUAL FOOD AND BEVERAGE DISPENSING EQUIPMENT to read as follows:

Add Paragraph 426.2 to read as follows:
426.2 Waste drains. Waste drains for manual food and beverage dispensing equipment shall discharge to the grease trap.

ARTICLE TWELVE: CHAPTER 5 WATER HEATERS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 501 GENERAL to read as follows:

Amend Paragraph 501.4 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 tank type water heaters and storage tanks located in attics or any overhead locations shall be accessible by a permanent fixed staircase.

Amend SECTION 502 INSTALLATION to read as follows:

Amend Paragraph 502.1 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 2012 International Mechanical Code. Electric water heaters shall conform to the requirements of this Code and provisions of the 2014 National Electrical Code listed in Chapter 13. For reference only, gas fired water heaters shall conform to the requirements of the 2012 International Fuel Gas Code.

Amend Paragraph 502.3 to read as follows:
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. For tank type water heaters and storage tanks, 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 Paragraph 502.6 to read as follows:
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.

Amend SECTION 503 CONNECTIONS to read as follows:

Add Paragraph 503.3 to read 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.

Amend SECTION 504 SAFETY DEVICES to read as follows:

Amend Paragraph 504.2 to read as follows:
504.2 Vacuum relief valve. Bottom fed water heaters and bottom fed tanks connected to water heaters shall have a vacuum relief valve installed. The vacuum relief valve shall comply with ANSI Z21.22. The cold water piping shall rise above the top of the water heater, to the vacuum relief valve before connecting to the tank inlet.

Amend Paragraph 504.3 to read as follows:
504.3 Shutdown. A means of disconnecting an electric hot water supply system from its power supply shall be provided. A disconnect switch shall be provided in accordance with the 2014 National Electrical Code. 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 6 feet (1524mm) of the water heater with identifying label.

Amend Paragraph 504.6 Requirements for discharge piping to read as follows:
504.6 Amend item #5 to read: Discharge to a waste receptor or to the outdoors only.

Amend Paragraph 504.7 to read as follows:
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 American Gas Association approved pans.

Amend Paragraph 504.7.1 to read as follows:
504.7.1 Pan size and drain. The pan shall not be less than 1 1/2 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).

Add new SECTION 506 MINIMUM CAPACITIES as follows:

Add Paragraph 506.1 to read as follows:
506.1 Residential. Water heaters installed in residential occupancies shall be sized in accordance with TABLE 506.

Add Paragraph 506.2 to read as follows:
506.2 Commercial. Water heaters installed in commercial occupancies shall be sized by a qualified design professional, licensed in the State of Alabama. All food establishments shall have a 30-gallon minimum or equal.
Add **TABLE 506 MINIMUM CAPACITIES FOR WATER HEATER** to read as follows:

**TABLE 506**
MINIMUM CAPACITIES FOR WATER HEATER

<table>
<thead>
<tr>
<th>FUEL</th>
<th>NUMBER OF BEDROOMS</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Storage(gph)</td>
<td>20</td>
<td>20</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Input (gph)</td>
<td>27</td>
<td>2.5</td>
<td>70</td>
<td>36</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>Draw (gph)</td>
<td>43</td>
<td>30</td>
<td>89</td>
<td>60</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Recovery (gph)</td>
<td>23</td>
<td>10</td>
<td>59</td>
<td>30</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NUMBER OF BEDROOMS</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage (gph)</td>
<td>30</td>
<td>40</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>Input (gph)</td>
<td>36</td>
<td>4.5</td>
<td>70</td>
<td>36</td>
<td>5.5</td>
</tr>
<tr>
<td>Draw (gph)</td>
<td>60</td>
<td>58</td>
<td>89</td>
<td>70</td>
<td>72</td>
</tr>
<tr>
<td>Recovery (gph)</td>
<td>30</td>
<td>18</td>
<td>59</td>
<td>30</td>
<td>22</td>
</tr>
</tbody>
</table>

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.

**ARTICLE THIRTEEN: CHAPTER 6 WATER SUPPLY AND DISTRIBUTION** of the 2012 International Plumbing Code shall be amended as follows:

**Amend SECTION 603 WATER SERVICE** to read as follows:

**Amend Paragraph 603.1 to read as follows:**

**603.1 Size of water service pipe.** 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 Paragraph 603.1.1 to read as follows:**

**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.

**Amend Paragraph 603.2 to read as follows:**

**603.2 Separation of water service and building sewer.**

**Add Exception No. 4:** The exception’s listed (numbers 1, 2 and 3) do not apply to force main or pressurized sewers, a separate ditch is required.
Amend Paragraph 603.2.1 to read as follows:
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.

Amend SECTION 604 DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM to read as follows:

Add Paragraph 604.1.1 to read as follows:
604.1.1 Piping below slab. All piping below slab shall be seamless tubing.

Amend Paragraph 604.3 to read as follows:
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.

Add Paragraph 604.9.1 to read as follows:
604.9.1 Location of water hammer arrestors. Water hammer arrestors shall be installed where air hammer exists and where deemed necessary by the Code Official.

Amend SECTION 605 MATERIALS, JOINTS AND CONNECTIONS to read as follows:

Amend Paragraph 605.2 to read as follows:
605.2 Lead content of water supply pipe and fittings. Pipe and pipe fittings, including valves and faucets, utilized in the water supply system shall have not more than 8-percent lead content.

Add Paragraph 605.2.1 Lead content of drinking water pipe and fittings. Pipe, pipe fittings, joints, valves, faucets and fixture fittings utilized to supply water for drinking or cooking purposes shall comply with NSF 372 and shall have a weighted average lead content of 0.25 percent or less.

Amend Paragraph 605.3 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 605.3. 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.

Amend TABLE 605.3 WATER SERVICE PIPE
Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe and galvanized steel.

Amend TABLE 605.4 WATER DISTRIBUTION PIPE
Delete: Galvanized steel pipe.
Amend TABLE 605.5 PIPE FITTINGS
Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe

Amend SECTION 606 INSTALLATION OF THE BUILDING WATER DISTRIBUTION SYSTEM to read as follows:

Amend Paragraph 606.2 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.

Amend Paragraph 606.3 to read as follows:
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.

Amend Paragraph 606.7 to read as follows:
606.7 Labeling of water distribution pipes in bundles. Where water distribution piping is bundled at installation, each pipe in the bundle shall be identified using stenciling or commercially available pipe labels. The identification shall indicate the pipe contents and the direction of flow in the pipe. The interval of the identification markings on the pipe shall not exceed 25 feet (7620 mm). There shall be not less than one identification label on each pipe in each room, space or story.

Exception: This section shall not apply to residential occupancies.

Amend SECTION 607 HOT WATER SUPPLY SYSTEM to read as follows:

Amend Paragraph 607.2 to read as follows:
607.2 Hot or tempered water supply to fixtures. The developed length of hot or tempered water piping, from the source of hot water to the fixtures that require hot or tempered water, shall not exceed 50 feet (15 240 mm). Recirculating system piping and heat-traced piping shall be considered to be sources of hot or tempered water.

Exception: In residential occupancies the developed length of hot or tempered water piping from water heater to the fixture shall not exceed 100 feet.

Amend SECTION 608 PROTECTION OF POTABLE WATER SUPPLY to read as follows:

Delete Paragraph 608.17 Protection of individual water supplies

Add Paragraph 608.17 Protection of individual water supplies. This section is for reference only; water supplies are regulated by the Alabama Department of Environmental Management (ADEM).

Amend TABLE 608.17.1 for reference only.

TABLE 608.17.1
DISTANCE FROM CONTAMINATION TO PRIVATE WATER SUPPLIES AND PUMP SUCTION LINES

3-4-2015
Ordinance Adopting the 2012 International Plumbing Code
<table>
<thead>
<tr>
<th>SOURCE OF CONTAMINATION</th>
<th>DISTANCE (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnyard</td>
<td>100</td>
</tr>
<tr>
<td>Farm silo</td>
<td>25</td>
</tr>
<tr>
<td>Pasture</td>
<td>100</td>
</tr>
<tr>
<td>Pump house floor drain of cast iron draining to ground surface</td>
<td>2</td>
</tr>
<tr>
<td>Seepage pits</td>
<td>100</td>
</tr>
<tr>
<td>Septic tank</td>
<td>50</td>
</tr>
<tr>
<td>Sewer</td>
<td>10</td>
</tr>
<tr>
<td>Subsurface disposal fields</td>
<td>100</td>
</tr>
<tr>
<td>Subsurface pits</td>
<td>100</td>
</tr>
</tbody>
</table>

For SI: 1 foot = 304.8mm.

**ARTICLE FOURTEEN: CHAPTER 7 SANITARY DRAINAGE** of the 2012 International Plumbing Code shall be amended as follows:

**Amend SECTION 701 GENERAL** to read as follows:

Amend Paragraph 701.2 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.

**Amend SECTION 702 MATERIALS** to read as follows:

Amend **TABLE 702.1 ABOVE-GROUND DRAINAGE AND VENT PIPE**
Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe and galvanized steel pipe.

Amend **TABLE 702.2 UNDERGROUND BUILDING DRAINAGE AND VENT PIPE**
Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Amend **TABLE 702.3 BUILDING SEWER PIPE**
Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Amend **TABLE 702.4 PIPE FITTINGS**
Delete: Acrylonitrile butadiene styrene (ABS) plastic pipe.

Amend **SECTION 704 DRAINAGE PIPING INSTALLATION** to read as follows:

**Add Paragraph 704.2.1 to read as follows:**

704.2.1 **Minimum size.** The minimum pipe size installed underground in a sanitary drainage system within a building shall be (2) inch nominal pipe size.
Amend SECTION 706 CONNECTIONS BETWEEN DRAINAGE PIPING AND FITTINGS to read as follows:

Delete Paragraph 706.4 Heel- or side-inlet quarter bends.

Amend SECTION 708 CLEANOUTS to read as follows:

Amend Paragraph 708.3.2 to read as follows:
708.3.2 Building Sewers. Building sewers shall be provided with cleanouts located not more than 80 feet apart measured from the upstream entrance of the cleanout. For building sewers 8 inches (203 mm) and larger, manholes shall be provided and located not more than 200 feet (60 960 mm) from the junction of the building drain and building sewer, at change in direction and at intervals of not more than 400 feet (122 m) apart. Manholes and manhole covers shall be of an approved type.

Amend Paragraph 708.3.3 to read as follows:
708.3.3 Changes of direction. Cleanouts shall be installed at each change of direction greater than 45 degrees (0.79 rad) in the building sewer.

Amend Paragraph 708.3.5.1 to read as follows:
708.3.5.1 Building sewer and property service lateral connection. There shall be a two way clean out fitting located at the sewer conjunction of service lateral and building sewer outside of right of way.

Amend SECTION 709 FIXTURE UNITS to read as follows:

Amend TABLE 709.1 DRAINAGE FIXTURE UNITS FOR FIXTURES AND GROUPS to read as follows:

Amend: Kitchen sink, domestic - Minimum trap size for shall be 2” (inches).
Amend: Kitchen sink, domestic with food waste grinder and/or dishwasher - Minimum trap size shall be 2” (inches).

Amend SECTION 710 DRAINAGE SYSTEM SIZING to read as follows:

Amend TABLE 710.1. (1) BUILDING DRAINS AND SEWERS to read as follows:

Add Notes to TABLE 710.1 (1) as follows:
   b. The maximum number of water closets on a 3 inch (76.2mm) line shall be 3.
   c. No building sewer shall be less than 4 inch (101.6mm) diameter.
   d. Minimum size of building drain, in a commercial building, shall be a minimum of 4 inches (101.6mm).

Amend SECTION 712 SUMPS AND EJECTORS to read as follows:

Amend Paragraph 712.3.3.1 to read as follows:
712.3.3.1 Materials. Pipe and fitting materials shall be constructed of brass, copper, CPVC, ductile iron, PE or PVC Sch 40 pressure pipe and fittings.

Amend SECTION 715 BACKWATER VALVES to read as follows:
Amend Paragraph 715.1 to read as follows:

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, to prevent 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 without approval of the Code Official.

ARTICLE FIFTEEN: CHAPTER 8 INDIRECT/SPECIAL WASTE of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 802 INDIRECT WASTES to read as follows:

Amend Paragraph 802.1.2 to read as follows:
802.1.2 Floor drains in food storage areas. Delete Exception.

Amend Paragraph 802.1.4 to read as follows:
802.1.4 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 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 Code Official where it is considered a nuisance. All discharged waste to irrigation shall comply with ADEM rules and regulations.

ARTICLE SIXTEEN: CHAPTER 9 VENTS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 901 GENERAL to read as follows:

Amend Paragraph 901.3 to read as follows:
901.3 Chemical waste vent systems. The vent system for a chemical waste system shall be independent of the sanitary vent system and shall terminate separately through the roof to the outdoors. Air admittance valves are not to be used for venting a chemical waste system.

Change SECTION 903 VENT TERMINALS to read as follows:

Amend Paragraph 903.1 to read as follows:
903.1 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.

Amend SECTION 906 VENT PIPE SIZING to read as follows:

Add Paragraph 906.1.1 to read as follows:
906.1.1 Minimum size. 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. The main stack vent in a detached garage or other accessory building with 10 Drainage Fixture Units or less may be 2 inches.

Amend SECTION 909 FIXTURE VENTS to read as follows:

Amend Section 909.1 Distance of trap from vent to read as follows:
Delete Exception in its entirety.

Amend SECTION 910 - INDIVIDUAL VENT to read as follows:

Add Paragraph 910.2 to read as follows:
910.2 Where required. All fixtures discharging downstream from a water closet shall be individually vented except as provided in SECTION 914.

Delete SECTION 917 SINGLE STACK VENT SYSTEM in its entirety.

Amend SECTION 918 AIR ADMITTANCE VALVES to read as follows:

Add Paragraph 918.1.1 to read as follows:
918.1.1 Connection. Air admittance valves may be used only with prior approval of the Code official.

Delete Paragraph 918.3 Where permitted in its entirety.

Add Paragraph 918.8.1 to read as follows:
918.8.1 Commercial food prep area. Air admittance valves shall not be installed in commercial food preparation areas.

ARTICLE SEVENTEEN: CHAPTER 10 TRAPS, INTERCEPTORS AND SEPARATORS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 1003 INTERCEPTORS AND SEPARATORS to read as follows:

Amend Paragraph 1003.3.4.1 to read as follows:
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 qualified design professional licensed in the State of Alabama.

Add Paragraph 1003.3.5.1 to read as follows:
1003.3.5.1 Grease Interceptor Sizing. Grease trap (GT) size or grease interceptor (GI) capacity shall be determined by using the following formula and table:

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

Add TABLE 1003.3.5.1 GREASE INTERCEPTOR CAPACITY to read as follows:

| TABLE 1003.3.5.1 GREASE INTERCEPTOR CAPACITY |
| Note: add 25 seats for each drive through |

3-4-2015 Ordinance Adopting the 2012 International Plumbing Code
<table>
<thead>
<tr>
<th>CODE</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Total number of seats</td>
</tr>
<tr>
<td>MF</td>
<td>Meal Factor, based on establishment type and average time per meal</td>
</tr>
<tr>
<td>1.33</td>
<td>Fast Food/Cafeteria (45 min)</td>
</tr>
<tr>
<td>1.00</td>
<td>Restaurant (60 min)</td>
</tr>
<tr>
<td>0.67</td>
<td>Leisure Dining (90 min)</td>
</tr>
<tr>
<td>0.50</td>
<td>Dinner Club (120 min)</td>
</tr>
<tr>
<td>GL</td>
<td>Gallons of wastewater per meal</td>
</tr>
<tr>
<td>6</td>
<td>With dishwashing machine</td>
</tr>
<tr>
<td>5</td>
<td>Without dishwashing machine</td>
</tr>
<tr>
<td>2</td>
<td>Single service kitchen</td>
</tr>
<tr>
<td>1</td>
<td>Food Waste Disposal</td>
</tr>
<tr>
<td>RT</td>
<td>Retention time</td>
</tr>
<tr>
<td>2.5</td>
<td>Commercial kitchen</td>
</tr>
<tr>
<td>1.5</td>
<td>Single service kitchen</td>
</tr>
<tr>
<td>ST</td>
<td>Storage factor, based on hours of operation</td>
</tr>
<tr>
<td>1.0</td>
<td>Operation of 8 hours</td>
</tr>
<tr>
<td>1.5</td>
<td>Operation of 12 hours</td>
</tr>
<tr>
<td>2.0</td>
<td>Operation of 16 hours</td>
</tr>
<tr>
<td>2.5</td>
<td>Operation of 24 hours</td>
</tr>
<tr>
<td>1.5</td>
<td>Single service kitchen</td>
</tr>
</tbody>
</table>

**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 a qualified design professional, licensed in the State of Alabama.

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.

**Add Paragraph 1003.3.5.2 to read as follows:**

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.

**Add Paragraph 1003.3.5.3 to read as follows:**

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 Paragraph 1003.3.6 to read as follows:**

1003.3.6 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. Clean out and tee shall be one pipe size larger than the discharge piping serving the grease trap.
Amend Paragraph 1003.4 to read as follows:
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; 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 in the building drainage system or other point of disposal.

ARTICLE EIGHTEEN: CHAPTER 11 STORM DRAINAGE of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 1101 GENERAL to read as follows:

Add Paragraph 1101.1.1 to read as follows:
1101.1.1 Storm Water Drain Ordinance. This chapter is adopted for reference purposes only; Refer to the “Storm Water Management and Flood Control Ordinance” enforced by the City of Mobile Engineering Department.

ARTICLE NINETEEN: CHAPTER 13 GRAY WATER RECYCLING SYSTEMS of the 2012 International Plumbing Code shall be amended as follows:

Amend SECTION 1301 GENERAL to read as follows:

Add Paragraph 1301.1.1 to read as follows:
1301.1.1 Approval. Chapter 13 may only be used with prior approval of the Code Official.

Add Paragraph 1303.12 to read as follows:
1303.12 Approval. Subsurface Landscape Irrigation Systems shall be approved by the State of Alabama Onsite Disposal Rules and Regulations as enforced by the Mobile County Board of Health.

ARTICLE TWENTY: CHAPTER 14 REFERENCED STANDARDS of the 2012 International Plumbing Code shall be amended as follows:

Add new Standard reference number to read as follows:

<table>
<thead>
<tr>
<th>Standard reference number</th>
<th>NSF Title</th>
<th>Referenced in code section number</th>
</tr>
</thead>
<tbody>
<tr>
<td>372-2010</td>
<td>Drinking Water System Components – Lead Content</td>
<td>605.2.1</td>
</tr>
</tbody>
</table>

ARTICLE TWENTY-ONE: 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: MAR 31, 2015

City Clerk