

December 19, 2023

The Department of Community Affairs
Codes and Industrialized Buildings Section
60 Executive Park South, NE
Atlanta, Georgia 30329-2231

RE: Local Amendment to the
2018 International Plumbing Code.

To Whom It May Concern,

I am writing this letter to request that the Department of Community Affairs review the proposed local amendments. This request is based on a recent submission that we received from the Metropolitan North Georgia Water Planning District ("Metro Water District") requesting that each local jurisdiction within the metro water district adopt a local ordinance adopting the changes as shown in the attached resolution to the 2018 International Plumbing Code.

Please let me know if you have any questions or if there are any additional documents that are needed from the city.

Respectfully,

Duane Helton
City of Woodstock
Building Official

GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS

LOCAL CODE AMENDMENT FORM

(For Local Government Use Only)

Item # :	(For DCA use only)	Page:	1	of		
Local Government:	City of Woodstock	Date:	12-19-23			
Official's Name and Title:	Duane Helton – Building Official	Phone:	770-294-6165			
Address:	12453 Hwy 92, Woodstock, GA 30188	Fax:				
		Email:	Dhelton@woodstockga.gov			
Title of Code Book:	International Plumbing Code	Code Book Edition:	2018	Code Section:	Table 604.4, Sections 604 and 1304	
CHECK ONE:	<input type="checkbox"/>	Revise section to read as follows:	<input type="checkbox"/>	Add new section to read as follows:		
	<input type="checkbox"/>	Delete section and substitute the following:	<input type="checkbox"/>	Delete without substitution:		
LINE THROUGH MATERIAL TO BE DELETED:			<u>UNDERLINE MATERIAL TO BE ADDED</u>			
<p>Code section with strike through and underline : See attached resolution, pursuant to the code changes and plan from the Metro Water District.</p>						

Complete ordinance section containing local amendment:

City of Woodstock Code of Ordinances

Section 18-61 (b)

“Locally adopted code and amendments” of Division 2 (Technical Codes) or Article II (Codes and Regulations adopted) Of Chapter 18 (Buildings and Building Regulations)

**GEORGIA DEPARTMENT OF
COMMUNITY AFFAIRS**

**LOCAL CODE AMENDMENT FORM
INSTRUCTION SHEET**

1. A letter on official letterhead must accompany this form requesting the Department of Community Affairs to review the proposed local amendment(s) in accordance with OCGA 8-2-25, and in that letter all other required submitted documentation should be included as required by OCGA 8-2-25.
2. Please use a separate form for each proposed local code amendment.
3. “Sheet 1 of _____” indicates the number of sheets for each individual proposed code amendment, not the number of sheets for all the amendments submitted. If all of the amendment or ordinance section will not fit in the space provided on form please submit remaining parts on additional sheet.
4. Identify the code and code section that is the subject of the proposed local amendment.
5. The local government official's name, address, telephone, fax and email address must be filled out completely.
6. Be sure to indicate the type of recommended action in the space referred to as “Check One”.
7. If the proposed amendment revises the language of the code section, deletes the entire code section, or deletes the entire code section and offers substitute language, include the language of the present code section and line through the language to be deleted and underline the language of the proposed amendment..
8. **All proposed local code amendments must be typed and completed in full and the original submitted to the Codes and Industrialized Buildings Section of the Department of Community Affairs.** An incomplete form will be sent back to the proponent for completion.
9. Information concerning submittal of code amendments can be obtained by contacting the Codes and Industrialized Buildings Section at (404) 679-3118. All proposed local code amendments should be submitted to:

The Department of Community Affairs
Codes and Industrialized Buildings Section
60 Executive Park South, NE
Atlanta, Georgia 30329-2231

RESOLUTION NO. 672-2023

**A RESOLUTION OF THE CITY OF WOODSTOCK, GEORGIA FINDINGS ON
PROPOSED LOCAL AMENDMENT TO PLUMBING CODE FOR WATER
EFFICIENCY – SUBMISSION OF PROPOSED AMENDMENT TO DCA**

**BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF WOODSTOCK,
CHEROKEE COUNTY, GEORGIA, AS FOLLOWS:**

WHEREAS, the current minimum water efficiency requirements for buildings in the City of Woodstock, Georgia (hereinafter sometimes referred to as the "City") jurisdiction is the Georgia State Minimum Standard Plumbing Code ("Georgia Plumbing Code") as approved and adopted by the Georgia Department of Community Affairs ("DCA") from time to time; and

WHEREAS, the City of Woodstock, Georgia, like all local governments in the State of Georgia, is authorized under O.C.G.A. § 8-2-25(c) to adopt local requirements when needed that are more stringent than the Georgia Plumbing Code based on local climatic, geologic, topographic, or public safety factors; and

WHEREAS, the long-term availability, reliability, and resiliency of water supplies is a critical need of the City and water efficiency is essential to meeting this need; and

WHEREAS, the "Local Amendments to Plumbing Code" shown in the redline in Attachment A are more stringent than the Georgia Plumbing Code on water efficacy because the amendments require even more efficient uses of water and provide clarifications on existing allowable practices; and

WHEREAS, based on its local climatic, geologic, topographic factors included in the regional water resources plan prepared by the Metropolitan North Georgia Water Planning District ("Metro Water District"), of which the City of Woodstock, Georgia, is a part, water conservation is especially important to City and the Metro Water District; and

WHEREAS, the City of Woodstock, GA has become aware that more water efficient technologies have become widely available at comparable prices and performance to the water efficient technologies currently required as the minimum in the Georgia Plumbing Code.

NOW, THEREFORE, BE IT RESOLVED THAT:

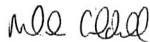
1. The governing body of the City of Woodstock, Georgia, finds that, based on local climatic, geographic, topographic, and public safety factors included in the Metro Water District's plans, it is justified in adopting local water efficiency requirements more stringent than the Georgia Plumbing Code;

2. The City of Woodstock, GA, is considering codifying these water efficiency requirements in local code as an amendment to Georgia Plumbing Code in the form of the Local Amendments to Plumbing Code shown in the redline in Attachment A; and

3. The City of Woodstock, GA, is directing its staff to submit this resolution and the Local Amendments to Plumbing Code to DCA for review and comment within 60 days as required by O.C.G.A. § 8-2-25(c)(1).

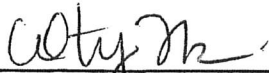
PASSED AND ADOPTED by the City of Woodstock City Council on this 18th day of December, 2023.

CITY OF WOODSTOCK, GEORGIA



Michael Caldwell, Mayor
Mayor of Woodstock, Georgia

ATTEST:



Coty Thigpen, Interim City Clerk
City of Woodstock, Georgia

EXHIBIT A

<INSERT LOCAL AMENDMENT TO PLUMBING CODE FOR WATER EFFICIENCY>

ATTACHMENT A

ORDINANCE NO. _____ -2024

AN ORDINANCE TO AMEND SECTION 18-61 OF DIVISION 2 OF ARTICLE II OF CHAPTER 18 (BUILDINGS AND BUILDING REGULATIONS) IN ORDER TO ENACT A LOCAL AMENDMENT TO THE GEORGIA STATE MINIMUM STANDARD PLUMBING CODE

BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF WOODSTOCK, GEORGIA, CHEROKEE COUNTY, GEORGIA, AS FOLLOWS:

WHEREAS, effective January 1, 2024, the Georgia State Minimum Standard Plumbing Code a/k/a the International Plumbing Code is hereby amended by the City of Woodstock by amending Section 18-61(b) "Locally adopted codes and amendments" of Division 2 (Technical Codes) or Article II (Codes and Regulations Adopted) of Chapter 18 (Buildings and Building Regulations); and

WHEREAS, that Section 18-61(b) is amended to add "(3) Local Amendment to the Georgia State Minimum Standard Plumbing Code a/k/a the International Plumbing Code;" and

WHEREAS, the Georgia State Minimum Standard Plumbing Code a/k/a the International Plumbing Code as referenced in Section 18-61(a)(5) of the City of Woodstock Code of Ordinances is hereby incorporated by reference and is amended by reference as follows:

Chapter 2, Section 202 General Definitions. Add in alphabetical order and revise, as applicable, the following definitions:

KITCHEN FAUCET OR KITCHEN FAUCET REPLACEMENT AERATOR. A kitchen faucet or kitchen faucet replacement aerator that allows a flow of no more than 1.82.0 gallons of water per minute at a pressure of 60 pounds per square inch and conforms to the applicable requirements in ASME A112.18.1/CSAAB125.1.

LAVATORY FAUCET OR LAVATORY FAUCET REPLACEMENT AERATOR. A lavatory faucet or lavatory faucet replacement aerator that allows a flow of no more than 1.25 gallons per minute at a pressure of 60 pounds per square inch and is

LANDSCAPE IRRIGATION.

Flow sensor. An inline device in a landscape irrigation system that produces a repeatable signal proportional to flow rate.

Lawn or Landscape Irrigation system. An assembly of component parts that is permanently installed for the controlled distribution of water to irrigate landscape such as ground cover, trees, shrubs, and other plants. Lawn and Landscape Irrigation System refer to the same system.

Master shut-off valve. An automatic valve such as a gate valve, ball valve, or butterfly valve) installed as part of the landscape irrigation system capable of being automatically closed by the WaterSense controller. When this valve is closed water will not be supplied to the landscape irrigation system.

ATTACHMENT A

Pressure regulating device. A device designed to maintain pressure within the landscape irrigation system at the manufacturer's recommended operating pressure and that protects against sudden spikes or drops from the water source.

Rain sensor shut-off. An electric device that detects and measures rainfall amounts and overrides the cycle of a landscape irrigation systems so as to turn off such system when a predetermined amount of rain has fallen.

WaterSense irrigation controller. Is a weather-based or soil moisture-based irrigation controller labeled under the U.S. Environmental Protection Agency's WaterSense program, which includes standalone controllers, add-on devices, and plug-in devices that use current weather data as a basis for scheduling irrigation.

WaterSense spray sprinkler bodies. A sprinkler body with integral pressure regulation, generation optimal water spray and coverage labeled under the U.S. Environmental Protection Agency's WaterSense program.

SHOWER HEAD. A shower head that allows a flow of no more than the average 2.05 gallons of water per minute at 860 pounds per square inch of pressure, is listed in the WaterSense Specification for Showerheads, and meets the US Department Definition of Energy definition of showerhead.

Chapter 6, Section 604.4 Maximum Flow and Water Consumption. Revise Section 604.4 to read as follows:

Consistent with the general approach taken in Georgia, these Maximum Flow and Water Consumption requirements and related definitions in Section 604.4 of the plumbing code shall apply to all plumbing systems, including those in one- and two-family dwellings. The maximum water consumption flow rates and quantities for all plumbing fixtures and fixture fitting shall be in accordance with Table 604.4.

Exceptions:

1. Blowout design water closets having a water consumption not greater than 3 1/2 gallons (13 L) per flushing cycle.
2. Vegetable sprays.
3. Clinical sinks having a water consumption not greater than 4 1/2 gallons (17 L) per flushing cycle.
4. Laundry tray sinks and ~~S~~service sinks.
5. Emergency showers and eye wash stations.

TABLE 604.4
 MAXIMUM FLOW RATES AND CONSUMPTION FOR
 PLUMBING FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY ^b
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ATTACHMENT A

Lavatory <u>faucet and replacement aerators</u> , private	<u>WaterSense Labeled & 1.25</u> gpm at 60 psi ^f
Lavatory faucet, public (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Showerhead ^a	<u>WaterSense Labeled & 2.52.0</u> gpm at <u>8060</u> psi ^f
<u>Kitchen Sink faucet and replacement aerators</u>	<u>2.01.8</u> gpm at 60 psi ^{f, g}
Urinal	0.5 gallon per flushing cycle ^f
Water closet	1.28 gallons per flushing cycle ^{c, d, e, f}

For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m,
1 pound per square inch = 6.895 kPa.

- a. A hand-held shower spray is a shower head. As a point of clarification, multiple shower heads may be installed in a single shower enclosure so long as each shower head individually meets the maximum flow rate, the Water Sense requirements, and the US Department of Energy definition of showerhead. However, multiple shower heads are not recommended for water efficiency purposes.
- b. Consumption tolerances shall be determined from referenced standards.
- c. For flushometer valves and flushometer tanks, the average flush volume shall not exceed 1.28 gallons.
- d. For single flush water closets, including gravity, pressure assisted and electro-hydraulic tank types, the average flush volume shall not exceed 1.28 gallons.
- e. For dual flush water closets, the average flush volume of two reduced flushes and one full flush shall not exceed 1.28 gallons.
- f. See 2014 GA Amendment to Section 301.1.2 'Waiver from requirements of high efficiency plumbing fixtures'.
- g. Kitchen faucets are permitted to temporarily increase the flow above the maximum rate, but not to exceed 2.2 gpm (8.3L/M) at 60 psi (414 kPa) and must revert to a maximum flow rate of 1.8 gpm (6.8 L/m) at 60 psi (414 kPa) upon valve closure.

ATTACHMENT A

604.4.1 Clothes Washers. Residential clothes washers shall be in accordance with the Energy Star program requirements.

6.4.4.2 Cooling Tower Water Efficiency.

604.4.2.1 Once-Through Cooling. Once-through cooling using potable water is prohibited.

604.4.2.2 Cooling Towers and Evaporative Coolers. Cooling towers and evaporative coolers shall be equipped with makeup water and blow down meters, conductivity controllers and overflow alarms. Cooling towers shall be equipped with efficiency drift eliminators that achieve drift reduction to 0.002 percent of the circulated water volume for counterflow towers and 0.005 percent for crossflow towers.

604.4.2.3 Cooling Tower Makeup Water. Water used for air conditioning; cooling towers shall not be discharged where the hardness of the basin water is less than 1500 mg/L. **Exception:** Where any of the following conditions of the basin water are present: total suspended solids exceed 25 ppm, CaCO₃ exceeds 600 ppm, chlorides exceed 250 ppm, sulfates exceed 250 ppm, or silica exceeds 150 ppm.

604.4.3 Landscape Irrigation System Efficiency Requirements. The requirements in Section 604.4.3 apply to all new landscape irrigation systems connected to the public water system except those (a) used for agricultural operations as defined in the Official Code of Georgia Section 1-3-3, (b) used for golf courses, and (c) dependent upon a nonpublic water source. Nothing in this Code or this Section 604.4.3 is intended to require that landscape irrigation systems must be installed at all premises. The landscape irrigation efficiency requirements on this Section 604.4.3 apply only when someone voluntarily chooses, or is otherwise required by some requirement beyond the Code, to install a landscape irrigation system on premises.

604.4.3.1 Avoiding Water Waste Through Design. All new landscape irrigation systems shall adhere to the following design standards:

1. Pop-up type sprinkler heads shall pop-up to a height above vegetation level of not less than four (4) inches above the soil level when emitting water.
2. Pop-up spray heads or rotary sprinkler heads must direct flow away from any adjacent surfaces and must not be installed closer than four inches from impervious surfaces.
3. Areas less than ten (10) feet in width in any direction shall be irrigated with subsurface irrigation or by other means that produces no overspray or runoff.
4. Narrow or irregular shaped landscaped areas, less than four (4) feet in any direction across opposing boundaries shall not be irrigated by any irrigation emission device except sub-surface or low flow emitters with flow rates not to exceed 6.3 gallons per hour.

ATTACHMENT A

604.4.4.3.2 Landscape Irrigation System Required Components. All new landscape irrigation systems shall include the following components:

1. A rain sensor shut-off installed in an area that is unobstructed by trees, roof overhangs, or anything else that might block rain from triggering the rain sensor shut-off.
2. A master shut-off valve for each controller installed as close as possible to the point of connection of the water but downstream of the backflow prevention assembly.
3. Pressure-regulating devices such as valve pressure regulators, sprinkler head pressure regulators, inline pressure regulators, WaterSense spray sprinkler bodies, or other devices shall be installed as needed to achieve the manufacturer's recommended pressure range at the emission devices for optimal performance.
4. Except for landscape irrigation systems serving a single-family home, all other systems must also include:
 - a. a WaterSense irrigation controller; and
 - b. at least one flow sensor which must be installed at or near the supply point of the landscape irrigation system and shall interface with the control system, that when connected to the WaterSense controller will detect and report high flow conditions to such controller and automatically shut master valves. The flow sensor serves to aid in detecting leaks or abnormal flow conditions by suspending irrigation. High flow conditions should be consistent with manufacturers' recommendations and specifications.

Chapter 13 NONPOTABLE WATER SYSTEMS, Section 1304 Reclaimed Water Systems. Revise Section 1304.3.2 to read as follows:

1304.3.2 Connections to water supply. Reclaimed water provided from a reclaimed wastewater treatment ~~system~~ ~~facility~~ permitted by the Environmental Protection Division may be used to supply water closets, urinals, trap primers for floor drains and floor sinks, water features and other uses approved by the Authority Having Jurisdiction, in motels, hotels, apartment and condominium buildings, and commercial, industrial, and institutional buildings, where the individual guest or occupant does not have access to plumbing. Also, other systems that may use a lesser quality of water than potable water such as water chillers, carwashes or an industrial process may be supplied with reclaimed water provided from a reclaimed wastewater treatment facility permitted by the Environmental Protection Division. The use of reclaimed water sourced from any new private reclaimed wastewater treatment systems for outdoor irrigation shall be limited to golf courses and agriculture operations as defined in the Official Code of Georgia Section 1-3-3 and such reclaimed water shall not be approved for use for irrigating any other outdoor landscape such as ground cover, tree, shrubs, or other plants. These limitations do not apply to reclaimed water sourced from existing private reclaimed water systems or from existing or new, governmentally-owned reclaimed wastewater treatment systems.

ATTACHMENT A

Appendix E, Section E101.1.2. Revise Section E.101.1.2 to read as follows:

Because of the variable conditions encountered in hydraulic design, it is impractical to specify definite and detailed rules for sizing of the water piping system. Accordingly, other sizing or design methods conforming to good engineering practice standards are acceptable alternatives to those presented herein. Without limiting the foregoing, such acceptable design methods may include for multi-family buildings the Peak Water Demand Calculator from the IAPMO/ANSI 2020 Water Efficiency and Sanitation Standards for the Built Environment, which accounts for the demands of water-conserving plumbing fixtures, fixture fittings, and appliances. In future versions of the Peak Water Deman Calculator including other building types, such as commercial, such updated version shall be an acceptable design method.

APPROVED, ADOPTED, AND ENACTED this <insert date> of <insert month>, 2024.

CITY OF WOODSTOCK

Michael Caldwell, Mayor
City of Woodstock, Georgia

ATTEST:

Coty Thigpen, Interim City Clerk
City of Woodstock, Georgia

