

ORDINANCE NO. ORD-2010-09

AN ORDINANCE TO REPEAL THE 2006 INTERNATIONAL PLUMBING CODE, SECOND PRINTING, WITH LOCAL AMENDMENTS ADOPTED BY THE BOARD OF COUNTY COMMISSIONERS OF WASHINGTON COUNTY, MARYLAND AS THE PLUMBING CODE OF WASHINGTON COUNTY, MARYLAND ON DECEMBER 18, 2007 AND TO ENACT THE *INTERNATIONAL PLUMBING CODE*, 2009 EDITION, AS PROMULGATED BY THE INTERNATIONAL CODE COUNCIL, WITH LOCAL AMENDMENTS FOR WASHINGTON COUNTY, MARYLAND

RECITALS

The Board of County Commissioners of Washington County, Maryland, being concerned with securing the proper installation of systems for furnishing potable water for sanitary sewage disposal and storm drainage and to ensure public safety, health, and welfare insofar as they are affected by regulating and controlling the design, construction, quality of materials, installation, alteration, repair, location, relocation, replacement, addition to use, or maintenance of plumbing systems, adopted the 2006 International Plumbing Code with local amendments on December 18, 2007.

It has been recommended to the Board of County Commissioners that it adopt the *International Plumbing Code*, 2009 Edition, as promulgated by the International Code Council, which is more up-to-date and which provides greater safeguards for residents of Washington County, Maryland, if implemented.

A public hearing was held on July 6, 2010 following due notice and advertisement of the text of the *International Plumbing Code*, 2009 Edition, as promulgated by the International Code Council, with certain requested insertions, deletions and amendments.

Public comment was received, reviewed and considered concerning the repeal of the 2006 International Plumbing Code with local amendments and the adoption of the *International Plumbing Code*, 2009 Edition, as promulgated by the International Code Council, including Chapters 1 through 13, Appendices B through E, and local amendments.

NOW, THEREFORE, be it ordained and enacted that the 2006 International Plumbing Code, Second Printing, with local amendments, adopted as the Plumbing Code of Washington County, Maryland on December 18, 2007, and all other ordinances or parts of ordinances in conflict herewith are repealed; and

NOW, THEREFORE, be it ordained and enacted that the *International Plumbing Code*, 2009 Edition, as promulgated by the International Code Council, the contents of which are incorporated herein by reference, is enacted with the following insertions, deletions and amendments:

* * * * *

The following sections, tables and appendix are hereby deleted, amended or added:

Section 101.1	Amended	Section 312.2	Amended
Section 101.1.1	Added	Section 312.2.1	Added
Section 101.1.2	Added	Section 312.2.2	Added
Section 101.1.3	Added	Section 401.3.1	Added
Section 101.1.4	Added	Section 403.1	Amended
Section 101.1.5	Added	Section 404.1	Amended
Section 101.1.6	Added	Table 605.3	Amended
Section 101.1.7	Added	Table 605.4	Amended
Section 101.1.8	Added	Section 608.14	Amended
Section 101.1.9	Added	Section 608.17.9	Added
Section 103.1	Amended	Section 608.18	Added
Section 103.2.1	Added	Section 701.2	Amended
Section 103.3	Amended	Table 702.1	Amended
Section 106.3	Amended	Table 702.2	Amended
Section 106.3.1.1	Added	Table 702.3	Amended
Section 106.6.2	Amended	Table 702.4	Amended
Section 106.6.3	Deleted	Section 706.3	Amended
Section 107.2.2.1	Added	Section 708.3.4	Amended
Section 107.2.3.1	Added	Table 709.1	Amended
Section 108.4	Amended	Section 802.3.1	Amended
Section 108.4.1	Added	Section 903.1	Amended
Section 108.5	Amended	Section 904.1	Amended
Section 109.1	Amended	Section 905.1	Amended
Section 109.2 - 109.6.2	Deleted	Section 917.1	Amended
Section 301.4.1	Added	Sections 917.2 - 917.8	Deleted
Section 305.6	Amended	Chapter 14	Added
Section 305.6.1	Amended	Appendices A B,C,D,E, and F	Adopted
Section 306.3	Amended	Appendices A and G	Deleted
Section 309.1	Amended		
Section 309.2-309.3	Deleted		

CHAPTER 1 – ADMINISTRATION – is amended as follows:

SECTION 101 – GENERAL – is amended as follows:

Section 101.1 is amended and shall read as follows:

101.1 Title. These regulations shall be known as the Plumbing Code of Washington County, Maryland, hereinafter referred to as “this code.”

Section 101.1.1 is added and shall read as follows:

101.1.1 International Building Code. Any reference to the *International Building Code* shall mean the *International Building Code*, 2009 Edition, as promulgated by the International Code Council, with local amendments for Washington County, Maryland adopted on August 10, 2010, effective September 1, 2010, by the Board of County Commissioners of Washington County, Maryland as part of the Maryland Building Performance Standards, as may be amended or restated from time to time.

Section 101.1.2 is added and shall read as follows:

101.1.2 International Residential Code. Any reference to the *International Residential Code* shall mean the *International Residential Code*, 2009 Edition, as promulgated by the International Code Council, with local amendments for Washington County, Maryland, as adopted on August 10, 2010, effective September 1, 2010, by the Board of County Commissioners of Washington County, Maryland as part of the Maryland Building Performance Standards, as may be amended or restated from time to time.

Section 101.1.3 is added and shall read as follows:

101.1.3 International Existing Building Code. Any reference to the *International Existing Building Code* shall mean the *Maryland Building Rehabilitation Code* (COMAR Title 5, Subtitle 16), as may be amended or restated from time to time.

Section 101.1.4 is added and shall read as follows:

101.1.4 International Energy Conservation Code. Any reference to the *International Energy Conservation Code* shall mean the *International Energy Conservation Code*, 2009 Edition, as promulgated by the International Code Council, with local amendments for Washington County, Maryland, adopted on August 10, 2010, effective September 1, 2010, by the Board of County Commissioners of Washington County, Maryland as part of the Maryland Building Performance Standards, as may be amended or restated from time to time.

Section 101.1.5 is added and shall read as follows:

101.1.5 International Fire Code. Any reference to *International Fire Code* in this code shall mean the *Maryland State Fire Prevention Code* (COMAR 29.06.01), as may be amended or restated from time to time.

Section 101.1.6 is added and shall read as follows:

101.1.6 ICC Electrical Code. For the applicable electrical requirements, refer to the NFPA70:*National Electrical Code*, 2008 Edition, with local amendments for Washington County, Maryland adopted by the Board of County Commissioners of Washington County, Maryland on August 10, 2010, effective September 1, 2010, as may be amended or restated from time to time, and the 2006 *ICC Electrical Code - Administrative Provisions*, First Printing, with local amendments for Washington County, Maryland, adopted on December 17, 2007, effective March 1, 2008.

Section 101.1.7 is added and shall read as follows:

101.1.7 International Fuel Gas Code. Any reference to *International Fuel Gas Code* in this code shall mean the *International Fuel Gas Code*, 2009 Edition, as promulgated by the International Code Council, with local amendments for Washington County, adopted by the Board of County Commissioners of Washington County, Maryland August 10, 2010, effective September 1, 2010, as may be amended or restated from time to time.

Section 101.1.8 is added and shall read as follows:

101.1.8 International Mechanical Code. Any reference to *International Mechanical Code* in this code shall mean the *International Mechanical Code*, 2009 Edition, as promulgated by the International Code Council, with local amendments for Washington County, adopted by the Board of County Commissioners of Washington County, Maryland on August 10, 2010, effective September 1, 2010, as may be amended or restated from time to time.

SECTION 103 is amended to read: DEPARTMENT OF PERMITS & INSPECTIONS

Section 103.1 is amended and shall read as follows:

103.1 General. The Director of the Department of Permits and Inspections of Washington County shall be known as the Building Official.

Section 103.2.1 is added and shall read as follows:

103.2.1 Qualifications. Plumbing Inspectors hired by the County or State government after October 1, 1988 shall meet the minimum standards established by the County and the State Plumbing Board.

A. Applicant(s) for Inspector(s) III shall hold a Master Plumber's license issued by the State of Maryland or the applicant shall be a licensed professional mechanical engineer with at least four (4) years experience and shall pass a written examination administered by the State Board.

B. Plumbing Inspector(s) shall attend at least one (1) each year, a refresher course to be conducted by the State Board, or a course which is consistent in content with the State Board.

C. Plumbing Inspector(s) shall not be engaged or financially interested in any plumbing business, directly or indirectly, during their term of employment.

Section 103.3 is amended and shall read as follows:

103.3 Deputies. Plumbing Inspector(s) shall be hired by the County Commissioners of Washington County, upon recommendation by the Director of Permits and Inspections.

SECTION 106 – PERMITS – is amended as follows:

Section 106.3 is amended and shall read as follows:

106.3 Application for permit; by whom application is made. Each application for a permit, with the required fee, shall be filed with the Building Official on a form furnished for that purpose and shall contain a general description of the proposed work and its location. The permit application shall indicate the proposed occupancy of all parts of the building and of that portion of the site or lot, if any, not covered by the building or structure and shall contain such other information required by the Building Official. Application for a permit shall be made by a person, or an agent, to install all or part of any plumbing system. The applicant shall meet all qualifications established by rules promulgated with this code or by ordinance, resolution, or statute. The full names and addresses of the owner, lessee, applicant, and of the responsible officers, if the owner or lessee is a corporate body, shall be stated in the application. The application must be signed by the Master Plumber holding a Washington County plumbing license and doing the work. The only exception would be when the homeowner successfully passes a written or oral exam issued by the Washington County Department of Permits and Inspections. Upon successfully passing the exam, the property owner shall sign a release agreement stating his or her intention to do the plumbing in his or her existing place of residence according to the Washington County homeowner provision and releasing the County from any liability therefrom. **Homeowner provisions do not apply to applications for public or private water and sewer systems and mobile homes or gas lines.** Permits shall not be processed until it is completely filled out by the licensed contractor or homeowner.

Section 106.3.1.1 is added and shall read as follows:

106.3.1.1 Emergency situation. Where equipment replacement and repairs must be performed in an emergency situation, the permit application shall be submitted to the Building Official within the next working business day.

Section 106.6.2 is amended and shall read as follows:

106.6.2 Fee schedule. The fees for all plumbing work shall be paid in accordance with the schedule as established by the Board of County Commissioners of Washington County, Maryland, as may be amended from time to time.

Section 106.6.3 is deleted in its entirety.

SECTION 107 – INSPECTIONS AND TESTING – is amended as follows:

Section 107.2.2.1 is added and shall read as follows:

107.2.2.1 Responsibility. The responsibility for requesting an inspection shall rest entirely with the licensed master plumber, master well driller, on-site utility contractor, or appliance, pump, and water conditioner installer who applied for the permit, or the homeowner who has successfully passed the homeowner's examination. No work shall be covered or concealed until the work has been inspected and approved. Improper workmanship shall be remedied and unsatisfactory materials shall be replaced as ordered by the inspector, and the corrections shall be reinspected. All requests for inspections shall be made 24 hours in advance of the date requested. All requests for final inspections shall be made within 48 hours after completion of all plumbing by the licensed contractor. Should the contractor fail to do so, the homeowner may call for the final inspection.

Section 107.2.3.1 is added and shall read as follows:

107.2.3.1 Final Inspections. All work must be inspected and receive final approval after all plumbing fixtures and appliances connected with the water or sewer systems are set, sewers and wells are covered, and domestic hot water must be supplied at the time of inspection. All commercial facilities shall mark different types of piping within the structure and tag all valves. A directory of the system in all commercial facilities shall be placed in the mechanical room.

SECTION 108 – VIOLATIONS – is amended as follows:

Section 108.4 is amended and shall read as follows:

108.4 Criminal penalties. Any person, firm, corporation or entity 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 Building Official, or of a permit or certificate issued under the provision of this code, shall be guilty of a misdemeanor, punishable by a fine of not more than \$1,000.00 or by imprisonment not exceeding one year, or both such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Section 104.1 is added and shall read as follows:

108.4.1 Civil penalties. Any person, firm, corporation or entity who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters, or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a civil offense which shall be prosecuted in accordance with Article 23A, § 3(b) of the Annotated Code of Maryland. The penalty for a civil offense shall be established by resolution by the Board of County Commissioners of Washington County, Maryland. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Section 108.5 is amended and shall read as follows:

108.5 Stop work orders. Upon notice from the Building 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 Building 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 to a fine of not less than \$250.00 or more than \$1,000.00.

SECTION 109 – MEANS OF APPEAL – is amended as follows:

Section 109.1 is amended and shall read as follows:

109.1 Application for appeal. Any person shall have the right to appeal a decision of the Building Official to the Washington County Plumbing/Mechanical Board. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is proposed. The

application shall be filed on a form obtained from the Building Official within twenty (20) days after the notice was served. All appeals shall be heard in accordance with the rules, regulations and procedures adopted by the Plumbing/Mechanical Board.

Sections 109.2 through 109.6.2 are deleted in their entirety.

CHAPTER 3 – GENERAL REGULATIONS – is amended as follows:

SECTION 301 – GENERAL- is amended as follows:

Section 301.4.1 is added and shall read as follows:

301.4.1 Public Systems Available. A public water main or public sewer system shall be considered available to a building when the building is located within 350 feet of the public water main or sewer.

SECTION 305 – PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS is amended and shall read as follows:

Section 305.6 is amended and shall read as follows:

305.6 Water line depth. Water service and well line piping shall be installed below recorded frost penetration but not less than 3 feet (915 mm) below grade. In climates with freezing temperatures, plumbing piping in exterior building walls or areas subjected to freezing temperatures shall be protected against freezing by insulation or heat or both.

Section 305.6.1 is amended and shall read as follows:

305.6.1 Sewer Depth. Building sewer connections shall be a minimum of 12 inches below the finished grade.

SECTION 306 – TRENCHING, EXCAVATION AND BACKFILL – is amended as follows:

Section 306.3 is amended and shall read as follows:

306.3 Backfilling. Backfill shall be free from discarded construction material and debris.

- (a) Backfill of water lines not in a sleeve shall be as follows:
Stone dust or sand a minimum of 3 inches under, over and along sides of pipe, then dirt free of rocks larger than 6 inches in diameter.
- (b) Backfill of water lines installed in a rigid conduit that meets the specification of Table 605.3 water service pipe shall be as follows:
6 inches of dirt over, under and along sides of pipe free of rocks larger than 2 inches in diameter, then dirt free of rocks larger than 6 inches in diameter.
- (c) Backfill of sewer lines shall be as follows:
Gravel bedding a minimum of 4 inches over, under and along sides of pipe that is free of rocks larger than 1 ½ inches in diameter, then dirt free of rocks larger than 6 inches in diameter.

SECTION 309 – FLOOD HAZARD RESISTANCE – is amended as follows:

Section 309.1 is amended and shall read as follows:

309.1 General. Plumbing systems and equipment in structures erected in areas prone to flooding shall be constructed in accordance with the requirements of this section and the Washington County Floodplain Management Ordinance adopted by the Board of County Commissioners of Washington County, Maryland on May 27, 1992, revised on October 19, 2004, effective November 1, 2004, and in accordance with the American Society of Civil Engineers (ASCE-24-98).

Sections 309.2 through 309.3 are deleted in their entirety.

SECTION 312 – TESTS AND INSPECTIONS – is amended as follows:

Section 312.2 is amended by adding the following Exception:

312.2 Drainage and vent water test.

Exception:

1. Single-Family dwellings are exempt. In the event the inspector determines evidence of material failure, drainage and vent water test will be required.

Section 312.2.1 is added and shall read as follows:

312.2.1 Testing. Testing shall terminate a minimum of two (2) feet below the roof line.

Section 312.2.2 is added and shall read as follows:

312.2.2 Trenchless installation. Any trenchless installation of water and sewer lines shall be tested or certified.

CHAPTER 4 – FIXTURES, FAUCETS AND FIXTURE FITTINGS - is amended as follows:

SECTION 401 – GENERAL – is amended as follows:

Section 401.3.1 is added and shall read as follows:

401.3.1 Lavatory faucets. Lavatory faucets shall be designed and manufactured according to ASME A112.18.1.

- (1) Public faucets, other than the metering type, shall be designed and manufactured according to ASME A112.18.1.
- (2) Self-closing or self-closing/metering faucets shall be installed on lavatories intended to serve the transient public, such as those in, but not limited to, service stations, train stations, airport terminals, restaurants, and convention halls. Metering faucets shall deliver not more

than 0.25 gallons of water per use when tested in accordance with ASME A112.18.1. Self-closing faucets shall be designed and manufactured so that they will not exceed a water flow rate of 0.5 gallons per minute when tested in accordance with A112.18.1.

SECTION 403 – MINIMUM PLUMBING FACILITIES – is amended as follows:

Section 403.1 is amended by adding the following Exception:

403.1 Minimum number of fixtures.

Exception:

1. Where approved by the Building Official, the actual number of occupants for whom each occupancy space, floor, or building is designed, although less than those determined by calculation, may be used in the determination of the minimum number of plumbing fixtures.

SECTION 404 – ACCESSIBLE PLUMBING FACILITIES- is amended as follows:

Section 404.1 is amended and shall read as follows:

404.1 Where required. Accessible plumbing fixtures shall conform to COMAR .05.02.02 Maryland Accessibility Code.

CHAPTER 6 – WATER SUPPLY AND DISTRIBUTION – is amended as follows:

SECTION 605 – MATERIALS, JOINTS AND CONNECTIONS – is amended as follows:

Table 605.3 is amended by deleting L, WL, M or WM under “Copper or copper-alloy tubing:”

An amended Table 605.3 is shown below:

**Table 605.3
WATER SERVICE PIPE**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTM D 1527; ASTM D 2282
Asbestos-cement pipe	ASTM C 296
Brass pipe	ASTM B 43
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
Ductile iron water pipe	AWWA C151; AWWA C115
Galvanized steel pipe	ASTM A 53
Polybutylene (PB) plastic pipe and tubing	ASTM D 2662; ASTM D 2666; ASTM D 3308; CSA B137.8
Polybutylene (PE) plastic pipe	ASTM D 2239; CSA CAN/CSA-B137.1
Polyethylene (PE) plastic tubing	ASTM D 2737; CSA B137.1
Cross-linked polyethylene (PEX) plastic tubing	ASTM 876; ASTM F 877; CSA CAN/CSA-B137.5
Cross-linked polyethylene/ Aluminum/cross linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; CSA CAN/CSA B137.10
Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe	ASTM F 1282; CSA CAN/CSA B 137.9
Polyvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241; ASTM D 2672; CSA CAN/CSA B137.3

Table 605.4 is amended by deleting WL, M, WM under “Copper or copper-alloy tubing:”

An amended Table 605.4 is shown below:

**Table P-605.4
WATER DISTRIBUTION PIPE**

MATERIAL	STANDARD
Brass Pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe and tubing	ASTM D 2846; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK or L)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 887; CSA CAN/CSA-B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; CSA CAN/CSA-B137.10
Galvanized steel pipe	ASTM A 53
Polybutylene (PB) plastic pipe and tubing	ASTM D 3309; CSA CAN3-B137.8

Section 608.14 is amended and shall read as follows:

608.14 Location of backflow preventers. Backflow prevention devices shall be installed in accessible locations for ease of maintenance, replacement and testing. Adequate headroom shall be provided and a minimum of 30 inches (762 mm) of non-obstructed space shall be provided in front of devices and a minimum of 18 inches (457 mm) shall be provided behind devices larger than 2 inches (51 mm). Maximum height above floor shall not exceed four (4) feet measured to the center line of the device.

Backflow devices shall be installed inside a building in an area capable of maintaining a temperature above freezing.

Section 608.17.9 is added and shall read as follows:

608.17.9 Pump tank installation. Any pressure tank installed in a basement and/or crawl space shall be a minimum of 7 ½ inches (191 mm) above finished grade. All water pressure tanks and apparatus for mobile homes shall be installed in the confines of the living space. In every case, the only exception shall be those tanks installed a minimum of 18 inches (457 mm) from the top of the tank to finished grade in an approved manhole with a water-tight lid, a minimum of 6 inches (152 mm) above finished grade.

Section 608.18 is added and shall read as follows:

608.18 Periodical testing. Periodic tests and inspections shall be made by a certified backflow technician, licensed in the state of Maryland for all backflow preventers to determine whether they are operable. Reduced pressure principle backflow preventers (ASSE 1013) double check valve assemblies (ASSE 1015). Double detector check-valve breakers (ASSE 1040) and pressure type vacuum breakers (ASSE 1020) shall be inspected and tested after their initial installation. Tests shall be done annually and an overhaul shall be done as needed.

CHAPTER 7 – SANITARY DRAINAGE – is amended as follows:

SECTION 701 – GENERAL – is amended as follows:

Section 701.2 is amended and shall read as follows:

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

SECTION 702 – MATERIALS – is amended as follows:

Table 702.1 is amended and shall read as follows:

Table 702.1
ABOVE-GROUND DRAINAGE AND VENT PIPE

MATERIAL	STANDARD
Brass Pipe	ASTM B 43
Cast iron Pipe	ASTM A 74;ASTM A 888; CISPI 301
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC DWV schedule 40 IPS pipe (cellular core)	ASTM F 891; ASTM F 1488
Coextruded composite PVC IPS-DR, PS140, PS200 DWV	ASTM F 1488
Copper or copper alloy pipe	ASTM B 42;ASTM B 302
Copper or cooper-alloy tubing (type K,L,M or DWV)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 306
Galvanized steel pipe	ASTM A 53
Glass pipe	ASTM C 1053
Polyolifin pipe	CSA BG181.3
Polyvinyl chloride (PVC) Plastic pipe (Type DWV)	ASTM D 2665; ASTM D 2949; ASTM F 1488; CSA B181.2
Stainless steel drainage systems Type 304 and 316L	ASME A112.3.1
Polyvinylidene fluoride(PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3

Table 702.2 is amended and shall read as follows:

Table 702.2
UNDERGROUND BUILDING DRAINAGE AND VENT PIPE

MATERIAL	STANDARD
Cast-iron pipe	ASTM A 74;ASTM A 888; CICPI 301
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Coextruded composite PVC ISP-DR PSI-40, PS-200,DWV	ASTM F 1488
Polyolifin pipe	AST F 1412; CSA B181.3
Polyvinyl chloride (PVC) Plastic pipe (type DWV)	ASTM D 2665;ASTM D 2949; CSA B181.2
Stainless steel drainage system, Type 3161	ASME A112.3.1
Polyvinylidene fluoride(PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3

Table 702.3 is amended and shall read as follows:

Table 702.3
BUILDING SEWER PIPE

MATERIAL	STANDARD
Cast-iron pipe	ASTM A 74; ASTM A 888; CISPI 301
Coextruded composite PVC DWV schedule 40 IPS pipe (solid)	ASTM F 1488
Polyvinyl chloride (PVC) plastic pipe (Type DWV SDR 26)	ASTM D 2665; ASTM D 2949; ASTM D 3034; CSA B182.2; CSA B182.4
Stainless steel drainage systems, Types 304 and 316L	ASME A112.3.1
Polyvinylidene fluoride(PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3

Table 702.4 is amended and shall read as follows:

Table 702.4
PIPE FITTINGS

MATERIAL	STANDARD
Cast Iron	ASTME B 16.4;ASTME B 16.12; ASTM A 74;ASTM A 888; CISPI 301
Copper or copper alloy	ASME B 16.15;ASME B 16.18; ASME B 16.22; ASME B 16.23;ASME B 16.26; ASME B 16.29
Glass	ASTM C 1053
Gray iron and ductile iron	AWWA C 110
Polyolifin	ASTM F 1412;CSA B181.3
Polyvinyl chloride (PVC) plastic	ASTM D 2665; ASTM D 3311; ASTM F 1866
Stainless steel drainage systems, Types 304 and 316L	ASME A 112.3.1
Polyvinylidene fluoride(PVDF) plastic pipe	ASTM F 1673; CAN/CSA B181.3

SECTION 706 – CONNECTIONS BETWEEN DRAINAGE PIPING AND FITTINGS – is amended as follows:

Table 706.3 is amended and shall read as follows:

Table 706.3

FITTINGS FOR CHANGE IN DIRECTION

TYPE OF FITTING PATTERN	CHANGE IN DIRECTION		
	Horizontal to Vertical	Vertical to horizontal	Horizontal to horizontal
Sixteenth bend	X	X	X
Eighth bend	X	X	X
Sixth bend	X	X	X
Quarter bend	X	X ^a	
Short sweep	X	X ^{a,b}	
Long sweep	X	X	X
Sanitary tee	X ^c	X ^c	
Wye	X	X	X
Combination wye and eighth bend	X	X	X

For SI: 1 inch = 25.4

a The fittings shall be permitted for a 2-inch or smaller fixture drain

b Three inches and larger

c For a limitation on double sanitary tees, see Section 706.3.

SECTION 708 – CLEANOUTS – is amended as follows:

Section 708.3.4 is amended and shall read as follows:

708.3.4 Base of stack. A cleanout shall be provided at the base of each waste or soil stack. The center of the main stack cleanout shall be a maximum of 12 inches above the finished floor.

SECTION 709 – FIXTURE UNITS – is amended as follows:

Table 709.1 is amended and shall read as follows:

Table 709.1
DRAINAGE FIXTURE UNITS FOR FIXTURES AND GROUPS

FIXTURE TYPE	DRAINAGE FIXTURE UNIT VALUE AS LOAD FACTORS	MINIMUM SIZE OF TRAP (inches)
Automatic clothes washers.	3	2
Automatic clothes washers, residential	2	2
Bathroom group as defined in Section 202 (1.6 gpf water closet) ^f	5	---
Bathroom group as defined in Section 202 (water closet flushing greater than 1.6 gpf) ^f	6	---
Bathtub ^b (with or without overhead shower or whirlpool attachments)	2	1 ½'
Bidet	1	1 ¼
Combination sink and tray	2	1 ½
Dental lavatory	1	1 ¼
Dental unit or cuspidor	1	1 ¼
Dishwashing machine. °domestic	2	1 ½
Drinking fountain	1/2	1 ¼
Emergency floor drain	0	2
Floor drains	2	2
Kitchen sink, domestic	2	1 ½
Kitchen sink, domestic with food waste grinder and/or	2	1 ½
Laundry tray (1 or 2 compartments)	2	1 ½
Lavatory	1	1 ¼
Shower	2	2
Sink	2	1 ½
Urinal	4	Footnote d
Urinal, 1 gallon per flush or less	2e	Footnote d
Wash sink (circular or multiple) each set of faucets	2	1 ½
Water closet, flushometer tank, public or private	4e	Footnote d
Water closet, private (1.6 gpf)	3e	Footnote d
Water closet, private (flushing greater than 1.6 gpf)	4e	Footnote d
Water closet, public (1.6 gpf)	4e	Footnote d
Water closet, public (flushing greater than 1.6 gpf)	6e	Footnote d

For SI: 1 inch = 25.4 mm. 1 gallon=3.785 L

a. For traps larger than 3 inches, use Table 709.2.

b. A showerhead over a bathtub or whirlpool bathtub attachments does not increase the drainage fixture unit value.

c. See Sections 709.2 through 709.4 for methods of computing unit value of fixtures not listed in Table 709.1 or for rating of devices with intermittent flows.

d. Trap size shall be consistent with the fixture outlet size.

e. For the purpose of computing loads on building drains and sewers, water closets or urinals shall not be rated at a lower drainage fixture unit unless the lower values are confirmed by testing.

f. For fixtures added to a dwelling unit bathroom group, add the DFU value of those additional fixtures to the bathroom group fixture count.

CHAPTER 8 – INDIRECT/SPECIAL WASTE – is amended as follows:

SECTION 802 – INDIRECT WASTES – is amended as follows:

Section 802.3.1 is amended and shall read as follows:

802.3.1 Size of Receptors. Waste receptor shall be sized for the maximum discharge of all indirect waste pipes served by the receptor. Receptors shall be installed to prevent splashing. All waste receptor floor sinks shall be a minimum of 9 inches by 9 inches (229 mm by 229 mm) and installed with a minimum of 1/4 inch raised lip above the finished floor.

CHAPTER 9 – VENTS – is amended as follows:

SECTION 903 – OUTDOOR VENT EXTENSION – is amended as follows:

Section 903.1 is amended and shall read as follows:

903.1 Main vent required. Every sanitary drainage system receiving the discharge of a water closet shall have a main vent that is either a vent stack or a stack vent. Such vent shall not be less than 3 inches (76 mm) in diameter and run undiminished in size and as directly as possible from the building drain through to the open air above the roof.

SECTION 904 – VENT TERMINALS – is amended as follows:

Section 904.1 is amended and shall read as follows:

904.1 Roof extension. All open vent pipes that extend through a roof shall be terminated at least 12 inches (305 mm) 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 (2134 mm) above the roof.

SECTION 905 – VENT CONNECTIONS AND GRADES – is amended as follows:

Section 905.1 is amended and shall read as follows:

905.1 Connection. All individual, branch and circuit vents shall connect to a vent stack, stack vent, or extend to the open air.

SECTION 917 – AIR ADMITTANCE VALVES – is amended as follows:

Section 917.1 is amended and shall read as follows:

917.1 General. An air admittance valve shall be permissible on a single fixture application in an existing plumbing system only.

Sections 917.2 through 917.8 are deleted in their entirety.

CHAPTER 14- TRAILER PARKS PLUMBING STANDARDS – is added as follows:

Sections 1401 through 1404 are added and shall read as follows:

**SECTION 1401
TRAILER PARKS PLUMBING STANDARDS**

1401.1 Scope. The primary objection of this chapter is to assure sanitary plumbing installations in trailer home parks.

**SECTION 1402
STANDARDS**

1402.1 General.- Plumbing systems hereafter installed in trailer home parks shall conform to the provisions set forth in the preceding sections of these Regulations, where applicable, and also to the provisions set forth in this Section. Trailer home park plumbing and drainage systems, in addition, shall conform to all other applicable Administrative Authority regulations.

1402.2 Plans and specifications. Before any plumbing or sewerage disposal facilities are installed or altered in any trailer park, duplicate plans and specifications shall be filed and proper permits obtained from the Administrative Authority. Plans shall show in detail:

- (1) Plot plan of the park, drawn to scale, indicating elevations, property lines, driveways, existing or proposed buildings, and the sizes of trailer sites;
- (2) Complete specification and piping layout of the proposed plumbing system or alteration; and
- (3) Complete specification and layout of the proposed sewage disposal system or alteration.

1402.3 Requirements. Trailer park plumbing system shall be designed and installed according to the requirements of the plumbing code and shall, in addition, conform to all other pertinent local ordinances and State regulations.

1402.4 Materials. Materials shall conform to the approved standards set forth in other sections of the plumbing code.

**SECTION 1403
MAINTENANCE**

1403.1 Scope. All required devices or safeguards shall be maintained in good working order. The owner, operator, or lessee of the trailer park or his designated agent shall be responsible for their maintenance. When wash rooms or toilet rooms are installed, they must conform with these regulations.

**SECTION 1404
RESPONSIBILITY-VIOLATIONS-OPERATOR'S RESPONSIBILITY**

1404.1 Scope. When it is evident that there exists, or may exist, a violation of any pertinent regulation the owner, operator, lessee, person in charge of the park, or any other person causing a violation shall immediately

disconnect the trailer water supply and sewer connection from the park systems and shall employ such other corrective measures as may be ordered by the Building Official.

APPENDICES

THE FOLLOWING APPENDICES ARE ADOPTED IN THEIR ENTIRETY:

- APPENDIX B - RATES OF RAINFALL FOR VARIOUS CITIES**
- APPENDIX C - GRAY WATER RECYCLING SYSTEMS**
- APPENDIX D - DEGREE DAY AND DESIGN TEMPERATURES**
- APPENDIX E - SIZING OF WATER PIPING SYSTEM**
- APPENDIX F - STRUCTURAL SAFETY**

THE FOLLOWING APPENDICES ARE DELETED IN THEIR ENTIRETY:

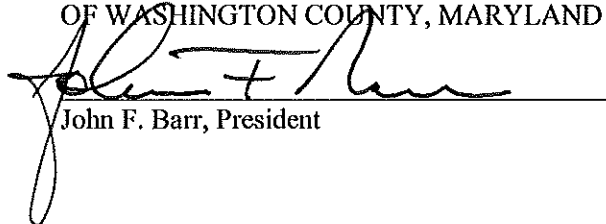
- APPENDIX A - PLUMBING PERMIT FEE SCHEDULE**
- APPENDIX G - VACUUM DRAINAGE SYSTEM**

Adopted this 10th day of August, 2010.
Effective the 1st day of September, 2010.

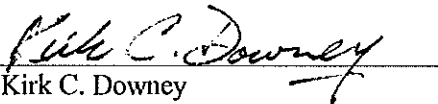
ATTEST:


Vicki Lumm, Clerk

BOARD OF COUNTY COMMISSIONERS
OF WASHINGTON COUNTY, MARYLAND


John F. Barr, President

Approved as to form and
legal sufficiency:


Kirk C. Downey
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