

Chapter 5 of the Rockville City Code

“Buildings and Building Regulations”

Table of Contents

<u>Article</u>	<u>Title</u>	<u>Page</u>
I	In General.....	1
II	Reserved	6
III	Numbering of Buildings.....	6
IV	Dangerous Buildings.....	7
V	Basic Building Code.....	12
VI	One And Two Family Dwelling Code.....	31
VII	Electrical Code.....	49
VIII	Energy Conservation Code.....	59
IX	Gas Code.....	62
X	Mechanical Code.....	69
XI	Plumbing Code.....	73
XII	Property Maintenance Code.....	95
XIII	Existing Building Code.....	95
XIV	Green Building Regulations.....	96

Ordinance No. 22-19

ORDINANCE:

To revise and amend Chapter 5 of the Rockville City Code entitled “Buildings and Building Regulations,” by adopting with certain additions, deletions and amendments the ICC International Building Code, (2018 Edition), the ICC International Residential Code, (2018 Edition), the NFPA 70 National Electrical Code, (2017 Edition), the ICC International Energy Conservation Code, (2018 Edition), the ICC International Fuel Gas Code, (2018 Edition), the ICC International Mechanical Code, (2018 Edition), the ICC International Plumbing Code, (2018 Edition), the ICC International Existing Building Code, (2018 Edition), ICC International Green Construction Code, (2015 Edition), and by making other minor technical changes

BE IT ORDAINED BY THE MAYOR AND COUNCIL OF ROCKVILLE, MARYLAND, that Chapter 5 of the Rockville City Code entitled “Buildings and Building Regulations” is hereby amended as follows:

SECTION 1. That Article I, “In General,” is unchanged by this ordinance and reads as follows:

Chapter 5. BUILDINGS AND BUILDING REGULATIONS

ARTICLE I. IN GENERAL

Sec. 5-1. Remedial intent.

This chapter is hereby declared to be remedial and shall be liberally construed to secure the beneficial purposes intended hereby. Any requirement essential for the structural, fire or sanitary safety of a proposed or existing building or structure, or essential for the health and safety of the occupants thereof, and which is not specifically covered by this chapter, shall be determined by

the enforcing authority for this chapter on a basis consonant with the general tenor and objectives of this chapter.

Sec. 5-2. Definition.

The definitions contained in this section apply throughout this chapter and are in addition to the definitions contained in the individual articles and any document referred to therein:

Administrative authority means the City Manager and the City Manager's designees and duly authorized agents.

Building Official. means the officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative.

Certified Building Official means an individual who holds a current certification as a Certified Building Official from the International Code Council (ICC) or an equivalent certification through a recognized certification program.

COMAR means The Code of Maryland Regulations which is provided online by the Division of State Documents at www.dsd.state.md.us.

Code Official means the officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative.

Historic Building Catalog means inventory of properties that may meet the City's Historic District Designation Criteria and that must be reviewed according to the Criteria by the Historic District Commission before demolition may occur. Refer to Article 14 of City of Rockville Zoning Ordinance.

Sec. 5-3. Compliance with other applicable laws, ordinances, regulations.

- (a) Nothing in this chapter shall be so construed so as to excuse compliance with any other applicable law or regulation.
- (b) The owner of any property in a Historic District Zone must receive a Certificate of Approval from the City of Rockville Historic District Commission before exterior alterations or demolition may occur. Demolition of any property may not occur without Historic District Commission approval in accordance with the City of Rockville Zoning Ordinance Section 25.04.04.b.1. Exterior alterations to any building listed in the City's Historic Building Catalog may not occur without Historic District Commission approval if it is the subject of an application for nomination, historic evaluation, or demolition in accordance with the City of Rockville Zoning Ordinance Section 25.07.14 and 25.14.01.

Sec. 5-4. Administration.

The City Manager, as the administrative authority, may designate the Chief of Inspection Services Division or any other employee of the City, who is a Certified Building Official as defined in section 5-2 of this article, to administer any or all of the provisions of this chapter. The person so authorized may delegate any or all of the powers and duties under this chapter to assistants, subordinates or other employees of the City.

Sec. 5-5. Entry powers.

The administrative authority shall, after proper identification, have the right to enter any premises at any time during normal working hours and at any time in cases of emergency, for the purpose of performing duties under this chapter in the interest of public safety and/or to enforce the provisions of this chapter.

Sec. 5-6. Authority to require exposure of installation.

Whenever any installation requiring a permit and/or inspection under any provision of this chapter is covered or concealed without having first been inspected, the administrative authority may require by written notice that such work shall be exposed for inspection. Any cost of such exposing and recovering shall be borne by the permittee or party responsible for the work requiring inspection.

Sec. 5-7. Authority to stop work.

- (a) When any construction or installation work is being performed in violation of this chapter, any applicable permit, or approved plans and specifications, a written notice shall be issued to the responsible party to stop work on that portion of the work that is in violation. The notice shall state the nature of the violation and no work shall be continued on that portion until the administrative authority determines that the violation has been corrected.
- (b) In addition to other provisions of this chapter relating to service of notice, a notice to stop work shall be posted at the job site if practicable.
- (c) It shall be unlawful to remove a posted "STOP WORK" order unless directed by a Code Official.

Sec. 5-8. Service of orders and notices.

Except as otherwise specifically provided by this chapter, any order or notice issued pursuant to this chapter shall be served upon the owner, agent or occupant of the structure to which the order or notice relates or other person responsible for the condition of violation. Service shall be made either by personal service; by delivering the same to the subject premises or the office or usual place of abode of the person being served and leaving it with some person of suitable age and responsibility who shall be informed of the contents thereof; by mailing a copy thereof to such person by certified mail to the last known address with return receipt requested; or if the certified mail is returned without receipt or with receipt showing that it has not been delivered, by posting a copy of the order or notice in a conspicuous place in or about the structure affected by such

order or notice. If service cannot be made by any of the foregoing methods, service may be made by publishing the substance of the order or notice in a newspaper of general circulation in the county.

Sec. 5-9. Administrative liability.

(a) No officer, agent, or employee of the City shall be personally liable for any damage that may accrue to persons or property as a result of any action required or permitted in the discharge of his duties under this chapter.

(b) The City shall not be liable under this chapter for any damage to persons or property by reason of the inspection or re-inspection of buildings or structures authorized hereunder, or failure to inspect or re-inspect such buildings or structures, or by reason of any permit issued hereunder or the approval or disapproval of any equipment authorized herein.

Sec. 5-10. Compliance required.

All permits or certificates issued under this chapter shall be presumed to contain the provision that the applicant and the applicant's agents and employees shall carry out the proposed activity in compliance with all the requirements of this chapter and any other applicable laws or regulations, whether specified or not, and in complete accord with any approved plans and specifications. Any permit or certificate which purports to sanction a violation of any provision of this chapter or any applicable law or regulation shall be void, and any approval of plans and specifications in the issuance of such permits or certificates shall likewise be void.

Sec. 5-11. License suspension and revocation.

(a) Licenses issued pursuant to this chapter may be suspended or revoked by the administrative authority for any of the following reasons:

- (1) Work performed in violation of the applicable code;
- (2) Failure to comply with any notice or order issued pursuant to this chapter;
- (3) Where a license has been obtained through nondisclosure, misstatement, or misrepresentation of a material fact.

(b) Before any license shall be revoked or suspended, the licensee shall be given written notice of the proposed revocation or suspension, enumerating the charges against the licensee. The revocation or suspension shall become effective and final on the date set forth in the notice unless the licensee contests the revocation or suspension. A licensee desiring to contest the revocation or suspension shall submit a written request for a hearing before the administrative authority within ten (10) days from the date of the notice.

(c) The hearing shall be informal, and the licensee shall have a reasonable opportunity to present relevant testimony and evidence. The administrative authority may conduct any investigation or research necessary to render a decision. Within fifteen (15) working days following the conclusion of the hearing, the administrative authority shall make a final decision, in writing, with respect to the suspension or revocation of the licensee. A copy of the decision and the reasons therefor shall be provided to the licensee.

(d) The decision of the administrative authority to suspend or revoke a license may be appealed to the Circuit Court of the County in accordance with the Maryland Rules as set forth in Title 7,

Chapter 200; provided that the licensee first shall have exhausted the administrative remedy contained in this section.

Sec. 5-12. Appeals from administrative decisions.

(a) *Grounds for appeals.* Any person aggrieved by and desirous of challenging a decision of the administrative authority in connection with the interpretation, application, or modification of any provision of this chapter relating to the manner of construction or materials used in connection with the erection, alteration, or repair of a building or structure or system installed therein, shall appeal such decision to a Board of Adjustments and Appeals. An appeal may be taken when it is claimed that:

- (1) The true intent of the code or the rules legally adopted there under have been incorrectly interpreted; or
- (2) The provisions of the code do not fully apply; or
- (3) An equally good or better form of construction can be used.

(b) *Procedure for taking an appeal.* An appeal shall be filed with the City Clerk within seven (7) calendar days from the date of the administrative decision being appealed, and a copy thereof shall be submitted to the Chief of Inspection Services. The appeal shall be in writing and shall contain a detailed statement of the reasons in support of such appeal.

(c) *Board of Adjustments and Appeals; composition and compensation.*

- (1) The Board of Adjustments and Appeals shall consist of three (3) persons:
 - a. A licensed professional engineer or architect chosen by the administrative authority;
 - b. A licensed professional engineer or architect chosen by the owner of the subject building or structure; and
 - c. A licensed professional engineer or architect to be jointly chosen by the other two (2) members.

(2) All fees charged by the licensed professional engineers or architects to serve on the Board shall be paid for by the person appealing the administrative decision.

(d) *Hearing.*

(1) The Board of Adjustments and Appeals shall conduct a hearing on the appeal, at which time the appellant, the appellant's representative, representatives of the City who have inspected the subject building or structure or applicable system installed therein, and any other person having knowledge of the matter or whose interests may be affected by the decision on the appeal shall be given an opportunity to be heard. The hearing shall be conducted informally, and the formal rules of evidence shall not apply. The Board may accept written testimony and shall give it such weight as it deserves.

(2) Interpretation given provisions of the applicable International Code Council, or National Fire Protection Association shall be given great deference.

(3) The Board may inspect the structure or building and conduct any other investigation or research necessary in order to render a decision.

(e) Decision.

(1) Within fifteen (15) working days of the hearing, the Board shall affirm, modify or reverse the decision of the administrative authority.

(2) The agreement of any two (2) members of the Board shall constitute the decision of the Board. Failure to obtain the agreement of any two (2) members of the Board shall constitute a denial of the appeal and an affirmation of the decision of the administrative authority. The Board's findings and decision shall be rendered in writing and copies thereof shall be provided to the appellant and any other party who has entered their appearance before the Board and requested a copy of the decision. The decision may contain recommendations for remedial steps to be taken to meet the intent of the applicable code.

(f) Appeal from decision of Board.

Any person aggrieved by a decision of the Board of Adjustments and Appeals may appeal the decision to the Circuit Court for the County in accordance with the Maryland Rules as set forth in Title 7, Chapter 200.

Secs. 5-13 – 5-15. Reserved.

SECTION 2. That Article II, “Reserved,” is unchanged by this Ordinance.

ARTICLE II. Reserved

Secs. 5-16 – 5-35. Reserved.

SECTION 3 That Article III, “Numbering of Buildings” is unchanged by this ordinance.

Secs. 5-39 – 5-45 Reserved.

SECTION 4. That Article IV, “Dangerous Buildings” is amended to read as follows:

ARTICLE IV. -DANGEROUS BUILDINGS

Sec. 5-46. -Defined.

All buildings or structures which may have any or all of the following defects shall be deemed dangerous buildings:

- (1) Those whose interior walls or other vertical structural members list, lean or buckle to such an extent that a plumb line passing through the center of gravity falls outside of the middle third of its base;
- (2) Those which, exclusive of the foundation, show thirty-three (33) percent or more, of damage or deterioration of the supporting member or members, or fifty (50) percent of damage or deterioration of the non-supporting enclosing or outside walls or covering;
- (3) Those which have improperly distributed loads upon the floors or roofs or in which the same are overloaded, or which have insufficient strength to be reasonably safe for the purpose used;
- (4) Those which have been damaged by fire, wind, or other causes so as to have become dangerous to life, safety, morals, or the general health and welfare of the occupants or the people of the City;
- (5) Those which have become or are so dilapidated, decayed, unsafe, unsanitary or which so utterly fail to provide the amenities essential to decent living that they are unfit for human habitation, or are likely to cause sickness or disease, so as to work injury to the health, morals, safety or general welfare of those living therein;
- (6) Those having light, air and sanitation facilities which are inadequate to protect the health, morals, safety or general welfare of human beings who live or may occupy therein;
- (7) Those having inadequate facilities for egress in case of fire or panic or those having insufficient stairways, elevators, fire escapes or other means of communication;
- (8) Those which have parts thereof which are so attached that they may fall and injure members of the public or their property;
- (9) Those which because of their condition are unsafe, unsanitary or dangerous to health, morals, safety or general welfare of the people of the City;
- (10) Those buildings existing in violation of any provision of the building code of the City, or any provision of the fire prevention code, or other ordinances of the City.

Sec. 5-47. -Nuisance declared.

All dangerous buildings are hereby declared to be public nuisances, and shall be repaired, vacated or demolished as hereinbefore and hereinafter provided.

Sec. 5-48. -Historic buildings or structures.

Under all circumstances, exterior alterations to a property, building or structure within a Historic District Zone, including demolition, must be approved by the Historic District Commission before demolition or exterior alterations that are not considered in-kind repairs may occur.

In addition, any building or structure that is not in a Historic District Zone but is identified in the Historic Building Catalog, as revised, that is the subject of an application for nomination, historic evaluation or demolition permit may not be demolished during the historic designation review period. Exterior alterations may not occur during this period unless the property owner receives a certificate of approval from the Historic District Commission as required by City Zoning Ordinance Section 25.14.01.d.6.

Sec. 5-49. -Violations.

(a) The owner of any dangerous building may not fail to comply with any notice or order to repair, vacate or demolish such building given by any person authorized by this article to give such notice or order. Each day such failure to comply continues beyond the date fixed for compliance shall be deemed a separate offense.

(b) The occupant or lessee in possession may not fail to comply with any notice to vacate and fail to repair the building in accordance with any notice given as provided for in this article. Each day such failure to comply continues beyond the date fixed for compliance shall be deemed a separate offense.

(c) A person may not remove the notice provided for in subsection 5-52(8).

Sec. 5-50. -Emergencies.

In cases where it reasonably appears that there is immediate danger to the life or safety of any person unless a dangerous building is immediately repaired, vacated or demolished, the Chief of Inspection Services Division shall report such facts to the City Manager and the City Manager shall cause the immediate repair, vacation or demolition of such dangerous building. The costs of such emergency repair, vacation or demolition of such dangerous building shall be collected in the same manner as provided in subsection 5-52(8).

Sec. 5-51. -Absence of owner from City.

In cases, except emergency cases, where the owner, occupant, lessee or mortgagee is absent from the City, all notices or orders provided for herein shall be sent by certified mail, return receipt requested, to the owner, occupant, mortgagee, lessee, and all other persons having an interest in the building as shown by the property tax or assessment records of the City to be the last known address of each, and a copy of such notice shall be posted in a conspicuous place on the dangerous building to which it relates. Such mailing and posting shall be deemed adequate service.

Sec. 5-52. -Duties of Chief of Inspection Services Division.

The Chief of Inspection Services Division or his/her authorized representative shall:

- (1) Inspect or cause to be inspected all public buildings, schools, halls, churches, theatres, hotels, tenements, commercial, manufacturing or loft buildings for the purpose of determining whether any condition exists which render such places a dangerous building;
- (2) Inspect any building, wall or structure about which complaints are filed by any person to the effect that a building, wall or structure is or may be existing in violation of this article;
- (3) Inspect any building, wall or structure reported (as hereinafter provided for) by the Volunteer Fire Department or the Police Department of this City as probably existing in violation of the terms of this article;
- (4) Notify in writing the occupant, owner, and all other persons having interest in the property, as shown by the property tax or assessment records of the City, of any building found by him/her to be a dangerous building that the owner must vacate, or repair, or demolish such building or have such work or act done; provided, that any person notified under this subsection to repair, vacate or demolish any building shall be given such reasonable time, not exceeding sixty (60) days, as may be necessary to do, or have done, the work or act required by the notice provided for herein;
- (5) Set forth in the notice provided for in subsection (4) a description of the building or structure deemed unsafe, a statement of particulars which make the building or structure a dangerous building and an order requiring the same to be put in such condition as to comply with the terms of this article within such length of time, not exceeding sixty (60) days, as is reasonable;
- (6) Report to the City Manager any noncompliance with the notice provided for in subsections (4), (5) and (8) of this section;
- (7) Appear at all hearings conducted by the City Manager and testify as to the condition of dangerous buildings;
- (8) Place a notice on all dangerous buildings reading as follows:

"This building has been found to be a dangerous building by the Chief of Inspection Service Division. This notice is to remain on this building until it is repaired, vacated or demolished in accordance with the notice which has been given to the occupant, owner, and all other persons having interest in the said property as shown by the property tax or assessment records of the City of Rockville of this building. It is unlawful to remove this notice until such notice is complied with."

Sec. 5-53. -Duties of the City Manager.

The City Manager shall:

- (1) Upon receipt of a report of the Chief of Inspection Service Division or his/her authorized representative as provided for in subsection 5-52(6), give written notice to the occupant, owner, and all other persons having interest in the property as shown by the property tax or assessment records of the City to appear before him on the date specified in the notice to show cause why the building or structure reported to be a dangerous

building should not be repaired, vacated or demolished in accordance with the statement of particulars set forth in the Chief's notice provided for herein in subsection 5-52(5);
(2) Hold a hearing and hear such testimony as the Chief of Inspection Service Division or the occupant, owner, and all other persons having interest in the property as shown by the property tax or assessment records of the City shall offer relative to the dangerous building;

(3) Make written findings of fact from the testimony offered pursuant to subsection (2) as to whether or not the building in question is a dangerous building;

(4) Issue an order based upon findings of fact made pursuant to subsection (3) commanding the occupant, owner, and all other persons having interest in the property, as shown by the property tax or assessment records of the City, to repair, vacate or demolish any building found to be a dangerous building; provided that:

a. Any person so notified except the owners, shall have the privilege of either vacating or repairing the dangerous building; or

b. Any person not the owner of the dangerous building but having an interest in the building as shown by the property tax or assessment records of the City may demolish the dangerous building at his own risk to prevent the acquiring of a lien against the land upon which the dangerous building stands by the City as provided for in subsection (5).

(5) If the occupant, owner, and all other persons having interest in the property as shown by the property tax or assessment records of the City fails to comply with the order provided for in subsection (4) within ten (10) days, the City Manager shall cause such building or structure to be repaired, vacated, or demolished as the facts may warrant, under the standards hereinafter provided in section 5-57 and shall, with the assistance of the City Attorney, cause the cost of such repair, vacation or demolition to be charged against the land on which the building existed as a municipal lien or cause such cost to be added to the tax due as an assessment or to be levied as a special tax against the land upon which the building stands or did stand, or to be recovered in a suit of law against the owner; provided, that in cases where such procedure is desirable and any delay thereby caused will not be dangerous to the health, morale, safety or general welfare of the people of the City, the City Manager shall notify the City Attorney to take legal action to force the owner to make all necessary repairs or demolish the building;

(6) Report to the City Attorney the names of all persons not complying with the order provided for in subsection (4).

Sec. 5-54. -Duties of the City Attorney.

The City Attorney or his/her authorized representative shall:

(1) Prosecute all persons failing to comply with the terms of the notices provided for herein in subsections 5-52(4) and (5), and the order provided for in subsection 5-53(4);

(2) Appear at all hearings before the City Manager in regard to dangerous buildings;

(3) Bring suit to collect all municipal liens, assessments, or costs incurred by the City Manager in repairing or causing to be vacated or demolished dangerous buildings;

(4) Take such other legal action as is necessary to carry out the terms and provisions of this article.

Sec. 5-55. -Duties of Volunteer Fire Department.

The employees of the Volunteer Fire Department are requested to make a report in writing to the Chief of Inspection Service Division of all buildings or structures which are, may be, or are suspected to be dangerous buildings. Such reports should be delivered to the Chief of Inspection Service Division within twenty-four (24) hours of the discovery of such buildings by any employee of the Fire Department.

Sec. 5-56. -Duties of Police Department.

All employees of the Police Department shall make a report in writing to the Chief of Inspection Services Division of any buildings or structures, which are, may be, or are suspected to be dangerous buildings. Such reports must be delivered to the Chief of Inspection Service Division within twenty-four (24) hours of the discovery of such buildings by any employee of the Police Department.

Sec. 5-57. -Standards for repair, vacation or demolition.

The following standards shall be followed in substance by the Chief of Inspection Service Division and his authorized representative in ordering repair, vacation or demolition:

- (1) If the dangerous building can reasonably be repaired so it will no longer exist in violation of the terms of this article, it shall be ordered repaired;
- (2) If the dangerous building is in such condition as to make it dangerous to the health, morals, safety or general welfare of its occupants, it shall be ordered to be vacated;
- (3) In any case where a dangerous building is fifty (50) percent damaged or decayed or deteriorated from its original value or structure, it shall be demolished or repaired and in all cases where a building cannot be repaired so that it will no longer exist in violation of the terms of this article, it shall be demolished;
- (4) In all cases where a dangerous building is a fire hazard existing or erected in violation of the terms of this article or any ordinance of the City or statute of the State, it shall be demolished.

Secs. 5-58—5-65. -Reserved.

SECTION 5. That Article V, "Basic Building Code," hereby is amended to read as follows:

ARTICLE V. BASIC BUILDING CODE

DIVISION 1. GENERALLY

Sec. 5 - 66. Purpose.

The purpose and intent of this article is to govern the design, construction, alteration, repair addition, removal, demolition, use, location, occupancy and maintenance of all buildings and structures and their service equipment as herein defined, except as some of such matters may be described in public, local or general laws of the State, zoning and other ordinances or regulations having legal precedence.

Sec. 5 - 67. Scope.

The provisions of this article shall apply to the construction of new buildings and structures. Construction involving buildings and structures existing at the time of adoption of or amendment of this Article shall comply with this Article or Article XIII. Applicable buildings must also comply with the provisions of Article XIV.

Sec. 5 - 68. Definitions.

Words defined in this article are intended only for use with sections of this article or any document referred to in this article. The following definitions are intended to be read in place of any definitions of the same words contained in the publication adopted in section 5-86.

Accessory structure means a building subordinate to and located on the same lot with a main building, the use of which is clearly incidental to that of the main building, or to the use of the land, and which is not attached by any part of a common wall or common roof to the main building.

Accessory use means a use of a building, lot, or portion thereof, which is customarily incidental and subordinate to the principal use of the main building or lot.

Building Official. means the officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative.

Code Official means the officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative.

COMAR means The Code of Maryland Regulations which is provided online by the Division of State Documents at www.dsd.state.md.us.

Complex Structure means all buildings and structures that are being constructed under a Complex Structure Agreement.

Cool Roof Rating Council means an independent, non-profit organization that maintains the third-party rating system for radiative properties of roof surfacing materials.

Demolition means the complete razing of a building or structure.

Demolition by Neglect of Historic Properties means failure to maintain property, or any component thereof, located within a designated Historic District Zone so as to jeopardize the historic integrity of the property.

Municipality means the Mayor and Council of Rockville.

Onsite renewable energy system includes, but is not limited to, photovoltaic panels, solar thermal collectors and wind systems located on or directly adjacent to the building site.

Written notice, when required under the provisions of this article, means a written notice shall be considered to have been served, if delivered in person to the owner, agent or occupant of the structure to which the order or notice relates or other person responsible for the condition of violation. Service shall be made either by personal service; by delivering the same to the subject premises or the office or usual place of abode of the person being served and leaving it with some person of suitable age and responsibility who shall be informed of the contents thereof; by mailing a copy thereof to such person by certified mail to the last known address with return receipt requested; or if the certified mail is returned without receipt or with receipt showing that it has not been delivered, by posting a copy of the order or notice in a conspicuous place in or about the structure affected by such order or notice. If service cannot be made by any of the foregoing methods, service may be made by publishing the substance of the order or notice in a newspaper of general circulation in the County.

Secs. 5-69 –5-75. Reserved

DIVISION 2. ADMINISTRATION AND ENFORCEMENT**Sec. 5-76. Enforcement; violations.**

(a) Any person who shall violate any of the provisions of this article; or shall fail to comply herewith or shall permit or maintain such a violation; or shall violate or fail to comply with any order made hereunder; or shall build in violation of any details, statements, specifications or plans submitted or approved hereunder; or shall operate not in accordance with the provisions of any certificate, permit, or approval issued hereunder; or who shall fail to comply with such an order as affirmed or modified by the Board of Adjustments and Appeals within the time fixed therein, shall severally for each violation and noncompliance respectively, be guilty of a municipal infraction. The imposition of penalty for any violation shall not excuse the violation nor shall the violation be permitted to continue. Prosecution or lack thereof of either the owner, occupant, or the person in charge shall not be deemed to relieve any of the others.

(b) Any order or notice issued or served as provided in this article shall be complied with by the owner, operator, occupant or other person responsible for the condition or violation to which the order or notice pertains. Every order or notice shall set forth a time limit for compliance dependent upon the hazard and danger created by the violation. In cases of extreme danger to persons or property immediate compliance shall be required. If the building or other premises is owned by one (1) person and occupied by another, under lease or otherwise, and the order or notice requires additions or changes in the building or premises such as would immediately become real estate and be the property of the owner of the building or premises, such order or notice shall be complied with by the owner unless the owner and occupant have otherwise agreed between themselves, in which event the occupant shall comply.

Secs. 5-77 –5-85. Reserved.

DIVISION 3. TECHNICAL STANDARDS**Sec. 5-86. International Building Code -- Adopted.**

The International Code Council (ICC) International Building Code, 2018 Edition, as modified herein, is hereby adopted as the building code for the City. One (1) copy of such publication as adopted shall be maintained by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication promulgated by the International Code Council shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-87. Same -- Amendments.

The *ICC International Building Code*, 2018 Edition (IBC), is amended in the following respects:

Section 101.1 of the IBC is amended to read as follows:

101.1 Title. These regulations shall be known as the Building Code of the *City of Rockville*, hereinafter referred to as “this code”.

Section 101.3.1 is added to the IBC to read as follows:

101.3.1 Application of references. References to the International Building Code shall mean the 2018 Edition of the International Building Code issued by the International Code Council Inc. Unless otherwise specified, all references to an article, section number, table, chart, etc., or to provisions not specifically identified by number and not set forth textually in this article but included by reference only, shall be construed to refer to such article, section number, table, chart, or provision as specified in the “International Building Code”, which article, section or provision is hereby made part of this article and shall have the same force and effect as if set forth in this article in full.

The citing of the main number of an article or section of the International Building Code shall be taken to include all of its sections or subsections. Subject to changes by the council, the other standards and specifications, or recommended regulations, or parts thereof, which are included by reference to their title and date in various parts of the " International Building Code" and sometimes identified as an "appendix" thereof, are declared to be a part of this article to the full extent of the provisions of such "appendix" or "appendices"; provided, that in the case of conflict the provisions of this article shall govern.

Amendments to the International Building Codes may be promulgated from time to time by the International Code Council, shall be adopted pursuant to laws as are other ordinances or amendments thereto. Changes in the regulations or standards and specifications promulgated by the accredited authoritative agencies of the International Code Council shall be adopted as regulations, standards, and specifications of the City after being approved by ordinance of the council.

Section 101.4.5 of the IBC is amended to read as follows:

101.4.5 Fire prevention. The provisions of the National Fire Protection Association (NFPA) 1 Fire Code and NFPA 101 shall apply.

Section 102.4.1 of the IBC is amended to read as follows:

102.4.1 Conflicts. Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of the most restrictive code shall apply.

Section 102.6 of the IBC is amended to read as follows:

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as otherwise specifically provided in this code, the International Existing Building Code, the Property Maintenance Code, or the State of Maryland Fire Prevention Code.

Section 105.1.3 is added to the IBC to read as follows:

105.1.3 SFD Permit application notification. Before a permit is issued for construction of a new single-family dwelling, the owner, applicant, or their agent shall post and maintain a notice furnished by the code official at the front lot line facing the street of the proposed structure. The placard shall be conspicuously posted so as to be visible from the public way. The SFD permit shall not be issued by the code official until at least 30 calendar days after the date the notice is posted on the site and verified through an inspection performed by the code official.

Exception: Single Family Dwellings that are part of a sub-division containing more than 5 dwellings.

Section 105.2 of the IBC is amended to read as follows:

105.2 Work exempt from permit. Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:

1. Oil derricks.
2. Retaining walls that support a surcharge and are not over 2 feet in height as measured from the lower grade level to the grade level on the high side of the wall, and/or supporting a surcharge or impounding Class I, II or IIIA liquids.
3. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18,927 L) and the ratio of height to diameter or width does not exceed 2 to 1.
4. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade and not over any basement or story below.
5. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
6. Temporary motion picture, television and theater stage sets and scenery.
7. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.
8. Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.
9. Swings and other playground equipment accessory to detached one-and two-family dwellings.
10. Window awnings supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.
11. Non-fixed and movable fixtures, cases, racks, counters and partitions not over 5 feet 9 inches (1753 mm) in height.
12. Re-roofing or residing an existing home without removing any structural components.

13. Patio/decks that are not greater than 4" in height above ground level, Height is measured from top of patio/decking to ground at lowest point.
14. Removal and replacement of drywall not to exceed 320 square feet of drywall.

Electrical:

1. Listed cord-and-plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles but not the outlet therefore.
3. Replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Electrical wiring, devices, appliances apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy.
5. Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.
6. Removal and replacement of stoves, disposals, ranges. Lighting fixtures, or similar appliances and equipment, not to include base board heaters.
7. Portable generators 10KW or less.

Radio and television transmitting stations: The provisions of this code shall not apply to electrical equipment used for radio and television transmissions but do apply to equipment and wiring for a power supply and the installations of towers and antennas.

Temporary testing systems: A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

Gas:

1. Portable heating, cooking or clothes drying appliances.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
3. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Mechanical:

1. Portable heating appliances.
2. Portable ventilation appliances.
3. Portable cooling units.
4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
6. Portable evaporative coolers.
7. Self-contained refrigeration systems containing 10 pounds (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) or less. (Window AC units).
8. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

Section 105.2.2.3 is added to the IBC to read as follows:

105.2.2.3 Repairs. Application or notice to the Code Official is not required for ordinary repairs to structures. Such repairs shall not include the cutting away of any wall, partition, or portion thereof. The removal or cutting of any structural beams or load bearing support, or the removal or change of any required means of egress, or rearrangement of parts of a structure affecting the egress requirements; nor shall ordinary repairs including additions to, alteration of, replacement or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, service, waste, vent or similar piping, electrical wiring or mechanical or other work affecting public health or general safety.

Section 105.3.3 is added to the IBC to read as follows:

105.3.3 Denial of permit. The Building Official is authorized to deny a permit where the applicant or contractor has a suspended contractor license or is under investigation for alleged violations by the issuing authority.

Section 105.5 of the IBC is amended to read as follows:

105.5 Expiration. Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within six (6) months (180 days) after its issuance, or if the work authorized by such permit does not continue to progress or is abandoned for a period of six (6) months (180 days) after the last approved/valid inspection. The last approved/valid inspection shall be an inspection that has been passed. A failed inspection will not count as an approved/valid inspection. Before such work recommences, a new permit shall be first obtained, and the appropriate fees, per the City's Fee Schedule shall be paid.

Section 105.5.1 is added to the IBC to read as follows:

105.5.1 Extensions. The code official can extend the time for action by the permittee if there is reasonable cause. A permittee holding an unexpired permit shall have the right to apply for an extension, in writing, for time to complete such work. The extension shall be requested for a justifiable cause.

Section 107.2 of the IBC is amended to read as follows:

107.2 Construction Documents. Construction documents shall be in accordance with Sections 107.2.1 through 107.2.10

Section 107.2.1.1 of the IBC is amended to read as follows:

107.2.1.1 Building Height and Area Calculations. On the Code Data Sheet for a new structure or an addition to an existing structure, the design professional shall provide the height and area calculations used to determine if the structure meets the limitations of the building code.

Sections 107.2.2.1 & 107.2.6.1.1 are added to the IBC to read as follows:

107.2.2.1 Shop Drawings. All fire protection shop drawing prepared by sub-contractors shall be reviewed by the fire protection engineer who performed the FPEDE prior to submittal to the City of Rockville. Shop drawings include, but not limited to, fire sprinkler plans, non-aqueous fire protection systems, fire alarm submittals, smoke control systems. The fire protection engineer shall review the plans for coordination of components and the performance of integrated systems. The fire protection engineer will also verify that the systems are designed in accordance with the appropriate standard, all fire protection systems are coordinated together to work in concert, and that all information is presented for a review.

107.2.2.1.1 Required Statement. Each fire protection shop drawings must have a signed and stamped statement attached to the plans by the evaluating fire protection engineer attesting: "In my professional engineering opinion these drawings and specifications have been reviewed, coordinated with other applicable fire protection systems, and are in compliance with the fire safety provisions of all adopted State and local building code, fire codes, mechanical codes, local amendments and referenced codes and standards to the best of their knowledge and belief."

Section 107.2.9 is added to the IBC to read as follows:

107.2.9 Fire Protection Engineering Design Evaluation (FPEDE). All plans and specifications for which a building permit is required for buildings of the Use Groups listed in Section 107.2.9 shall be evaluated in accordance with the requirements of this Section for design compliance with adopted fire related code requirements concerning:

1. Documentation of the title and edition of all applicable State and local Building and Fire codes and standards, and amendments thereto, on which the design is based;
2. Designated Use Group Classification(s) of all spaces;
3. Type of Construction requirements identified, with supportive calculations;
4. Documentation of fire endurance ratings of structural elements and fire rated components (walls, floors, roofs, parapets, opening protectives);
5. Detailed discussion for protection of fire rated penetrations, systems joining fire rated assemblies, perimeter fire containment, etc.;
6. Height and area limits compliance and required property line setback criteria;
7. Occupant load calculations, egress capacity and travel distance analysis;
8. Interior finishes analysis;

9. Fire protection systems required (suppression, fire alarm, smoke detection, heat detection, smoke control, other required fire protection systems);
10. Fire hydrant locations, fire department connection locations, and emergency fire and medical vehicle access;
11. Emergency lighting and emergency power systems;
12. Applicable provisions of Chapter 4 of the IBC, "Special Detailed Requirements Based on Use and Occupancy";
13. Compliance with applicable NFPA Codes and Standards for specific processes, materials, or hazards which are referenced within the IBC, NFPA 101, Life Safety Code or NFPA 1, Uniform Fire Prevention Code;
14. Integration, coordination and performance of fire protection systems (both active and passive) with detailed information of their features;
15. Completion of the 2018 International Building Code Plan Review Record as published by the International Code Council.

A written Fire Protection Engineering Design Evaluation (FPEDE) concerning these items shall be submitted with the plans accompanying the application for a building permit. It shall be in a format established by the Fire Marshal and shall be signed and stamped by the preparer. If, in the course of performing the FPEDE, the evaluating fire protection engineer determines that there are fire related code deficiencies in the drawing or specifications, all such deficiencies shall be remedied prior to the submittal of the FPEDE and the building permit application and drawings. The FPEDE must include a signed and sealed statement by both the evaluating fire protection engineer and the engineer or architect of record attesting: "In my professional engineering opinion these drawings and specifications are in compliance with the fire safety provisions of all adopted State and local Building Code, Fire Codes, Mechanical Codes, local amendments and referenced codes and standards to the best of their knowledge and belief".

107.2.9.1 FPEDE Finals. Prior to final inspection by city officials, the fire protection engineer shall personally inspect and verify that the systems are installed correctly and are prepared for an inspection.

Section 107.2.10 is added to the IBC to read as follows:

107.2.10 Use Groups Requiring a Fire Protection Engineering Design Evaluation (FPEDE).

An FPEDE is required when deemed necessary by the Building Official, during the pre-submittal phase, for the following buildings or fire protection systems for which a building permit application is made:

- (1) Use Group "A", Assembly, with an occupant load of One Thousand (1,000) persons or more;
- (2) Use Group "E", Educational;
- (3) Use Group "H", High Hazard;
- (4) Use Groups "I-2 and I-3", Institutional;
- (5) Use Group "M", all malls of Type I construction;
- (6) All Use Groups with an estimated construction cost of Five Million Dollars (\$5,000,000.00) or more;
- (7) Other complex or unique structures

107.2.10.1 Qualifications of Fire Protection Design Evaluation (FPEDE) Preparer. The FPEDE must be prepared by a Fire Protection Engineer who is a registered Professional Engineer in the State of Maryland.

Section 107.3.3 of the IBC is amended to read as follows:

107.3.3 Phased approval. The Chief of Inspection Services is authorized to issue a permit for the construction of foundations of a building or structure prior to the construction documents, for the whole building or structure, having been approved. The application for foundation permit shall include all relative information, number of plans, applications, fees and complies with the appropriate codes. The holder of such permit for the foundation of a building or structure shall proceed at the holder's own risk with the building operation and without assurance that a permit for the entire structure will be granted.

Section 107.3.4.2 is added to the IBC to read as follows:

107.3.4.2 Design Professional. All commercial and multifamily project plans shall be prepared, signed, sealed and include the certification statement as required by Maryland State law (COMAR 09.21.02.04 and 09.23.03.09)

Section 110.3.4.1 is added to the IBC to read as follows:

110.3.4.1 Residential Building Height. The height of residential buildings in Group R-3 shall conform with Chapter 25, Zoning Ordinance, Section 25.10.05 of the Rockville City Code. A building height certification shall be submitted to the City of Rockville after all framing and roofing is complete. No close-in inspections will be performed until the certification has been approved by the City. The building height certification shall be prepared and signed by a licensed land surveyor in the State of Maryland, a civil engineer licensed in the State of Maryland or any individual who is deemed qualified by the Chief of Inspection Services.

Exception:

(1) Residential buildings in Group R-3 where the proposed addition, alteration or reconstruction does not exceed or increase the height of the existing structure. New SFD construction shall be excluded.

Sections 111.1.1, 111.1.2, and 111.1.3 are added to the IBC to read as follows:

111.1.1 New buildings. A building or structure hereafter erected shall not be used or occupied in whole or in part until the certificate of occupancy shall have been issued by the code official.

111.1.2 Buildings hereafter altered. A building or structure hereafter enlarged, extended or altered to change from one (1) use group to another or to a different use within the same use group in whole or in part, and a building or structure hereafter altered for which a certificate of occupancy has not been heretofore issued, shall not be occupied or used until the certificate shall

have been issued by the code official, certifying that the work has been completed in accordance with the provisions of the approved permit. Any use or occupancy, which was not discontinued during the work of alteration, shall be discontinued within thirty (30) days after the completion of the alteration unless the required certificate is secured from the code official.

111.1.3 Change of tenant or ownership. Whenever a commercial, industrial, or business Use or building changes ownership; or the tenancy of a commercial or industrial building or space changes, application must be made for a certificate of occupancy. Any violations of this Section or any applicable code as related to fire or life safety codes must be corrected prior to the issuance of the certificate of occupancy.

Section 111.3 is added to the IBC to read as follows

111.3 Temporary Occupancy. The Chief of Inspection Services or designee may issue a temporary occupancy permit. A temporary occupancy permit may be issued if none of the remaining conditions to be complied with are a health or safety hazard.

A temporary occupancy permit may not be issued for a single-unit detached dwelling.

A temporary occupancy permit is valid for a period not to exceed thirty (30) days, in the discretion of the Chief of Inspection Services or designee.

For good cause, the Chief of Inspection Services or designee may extend a temporary occupancy permit when requested for additional periods, in accordance with the City of Rockville Zoning Ordinance Section 25.07.12, however no temporary occupancy permit, including any extensions, will be valid for more than sixty (60) days.

Section 113 of the IBC is amended to read as follows

113.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section 115.3 of the IBC is amended to read as follows:

115.3 Unlawful Continuance. Any person who shall continue any work in or about the structure after having been issued a verbal or written 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 as set forth by resolution of the Mayor and Council.

Section 414.1.2.2 is added to the IBC to read as follows:

414.1.2.2 Laboratory chemicals. Upon application for construction permit, any structure with a laboratory shall provide a listing of liquids to be stored and used. The applicant is responsible for the preparation and submittal of the chemical list, the quantity to be stored of each individual chemical, the Material Safety Data Sheets and the container storage type and arrangement for review.

Section 501.3 is added to the IBC to read as follows:

501.3 Internal Fire Department Access in Complex Structures. In all ~~complex~~ structures, at least one entrance to a stair shall be provided in the vicinity of the main fire department access point, which accesses all levels of the structure. If a standpipe system is required in the building, this stair must be provided with that means of manual fire protection. The automatic fire sprinkler floor control valves shall also be located in this stair.

Section 901.1 of the IBC is amended to read as follows:

901.1 Scope. The provisions of this chapter shall specify where fire protection systems are required and shall apply to the design, installation and operation of fire protection systems. These fire protection system requirements may be concurrently covered in the State of Maryland Fire Prevention Code, Public Safety Article Sections 6-101 –6-202 Annotated Code of Maryland and COMAR 29.06.01.

Section 903.1.2 is added to the IBC to read as follows:

903.1.2 Sprinkler Zones. Each floor shall be zoned separately. Where atrium smoke exhaust is used, atriums shall be separately zoned to work in concert with the fire alarm zone to activate the exhaust fans.

Exceptions:

- (1) Where the building is not protected throughout by a fire alarm system in accordance with Section 907, a zone shall not exceed 52,000 square feet (2,090m²) for light hazard occupancies and 40,000 square feet for ordinary and extra hazard occupancies.
- (2) Single unit dwellings designed in accordance with NFPA 13D.
- (3) Multi-story dwelling units

Section 903.3.1.1.2.1 is added to the IBC to read as follows:

903.3.1.1.2.1 Manner for Calculation of Residential Bathroom Square Footage. When calculating the area of a residential bathroom for the purpose of determining if sprinkler coverage is required, any separate rooms with doors opening into the larger room contained within the larger footprint shall be counted. The area that a shower stall or bathtub uses shall also be incorporated into the overall area calculation. Rules governing smaller rooms shall continue to apply when determining if those smaller rooms need independent sprinkler heads.

Section 903.4.3.1 is added to the IBC to read as follows:

903.4.3.1 Sprinkler Floor Control Valves Arrangement. When a sprinkler system serves more than one level, each level must be consistently and separately valved by a listed and approved control valve. Control valves shall be located in an area which provides adequate and easy access by the Fire Department. Additionally, at each control valve, approved signage shall be

permanently installed to advise individuals of the additional control valves and their location(s) on the floor. If the building is provided with a fire alarm system, the fire alarm zones will need to coincide with the flow switch arrangement to provide proper annunciation.

Section 903.6 is added to the IBC to read as follows:

903.6 Sprinkler Plan Preservation. All buildings equipped with a new sprinkler system shall have a copy of the plans permanently mounted in the Fire Command Center or Fire Pump room or main sprinkler valve room. The plans shall be protected from deformation and located in a dedicated, labeled storage cabinet permanently mounted to the wall adjacent to the main sprinkler riser and locked. Plans can be reduced in size but must remain legible.

Exceptions: Plans for tenant modifications do not need to meet this requirement.

Section 903.7 is added to the IBC to read as follows:

903.7 Insulation Value for Sprinkler Piping Protection. All insulation installed near or on sprinkler piping shall have a minimum R-value of 30. R-30 insulation shall be used in the attic and in the exterior walls. Only batt insulation shall be used in the specific areas protecting sprinkler piping. Blown-in insulation shall not be used in the same channels as sprinkler piping. Appropriate width shall be provided to prevent the compaction of the insulation, thus decreasing the “R” value of the insulation.

Section 903.8 is added to the IBC to read as follows:

903.8 Minimum length of “Dry” type sprinkler heads. All dry type sprinkler heads connected to wet pipe sprinkler systems shall have a minimum barrel length of 12 inches. The installation of the sprinkler head shall not have the barrel protruding from the wall/ceiling or exposed on the exterior of the wall/ceiling.

Section 903.9 is added to the IBC to read as follows:

903.9 Sprinkler System Riser locations. All alarm check valves on sprinkler system risers shall be located in the same room.

Exception:

Where a separate alarm check valve serves a special hazard, the alarm check valve shall be permitted if the alarm valve installed in a labeled dedicated room that is located adjacent to the special hazard. The room must be arranged with drainage adequate in size to handle main drain flow tests or the drain is piped to the exterior. Special signage shall be located at the main sprinkler riser room to direct maintenance personnel, service workers and firefighters to the dedicated room.

Section 907.1.2.1 is added to the IBC to read as follows:

907.1.2.1 Electric Water Flow Alarm. If an electrical alerting device is chosen as the water flow alarm on the exterior of a building, the audible bell will be equipped with a clear lens strobe immediately adjacent to the audible device. The electric audible and visual device shall be mounted immediately above all fire department connections.

Section 907.2.12.2 of the IBC is amended to read as follows:

907.2.12.2 Fire department communication system. An approved two-way, fire department communication system designed and installed in accordance with NFPA 72 shall be provided for fire department use. It shall operate between a fire command center complying with Section 911, elevators, elevator lobbies, emergency and standby power rooms, fire pump rooms, areas of refuge and inside enclosed exit stairways. The fire department communication devices shall be provided on intermediate floor landings in stairwells and adjacent to fire department hose connections, unless otherwise permitted by the code official.

Sections 907.6.4.3 and 907.6.4.4 are added to the IBC to read as follows:

907.6.4.3 Fire Alarm Zones. Each floor shall be zoned separately. Where the building is protected by an automatic sprinkler system in accordance with Section 903, the area of the fire alarm zone shall coincide with the allowable area of the sprinkler system.

907.6.4.4 Fire Alarm Zones Unprotected areas. Where the building is not protected throughout by an automatic sprinkler system in accordance with Section 903, a zone in an unprotected area shall not exceed 22,500 square feet (2090 m²) and the length of any zone shall not exceed 300 feet (91440 mm) in any direction.

Section 911.1.1 of the IBC is amended to read as follows:

Section 911.1.1. “The fire command center shall have a door directly to the exterior of the building on the address side. The exterior door to the fire command center shall be within 50 feet of a fire department access road. A fire department access box shall be provided within 6 feet of the exterior door to the fire command center. The exterior door to the fire command center shall be identified on the exterior face as the fire command center in a manner acceptable to the fire official.”

Section 911.1.6 of the IBC is amended to read as follows:

Item 2 “The fire department communications system which may include an in-building public safety radio enhancement system monitoring panel.”

Item 11 “Fire pump status indicators and remote starting.”

Add item 19 “A shunt trip device to disconnect the electrical service to the building.”

Section 913.2.3 is added to the IBC to read as follows:

913.2.3 Fire Pump Room Design. Any room housing a fire pump shall be of sufficient size to allow access to all sides of the pump that require servicing and maintenance.

913.2.3.1 Fire Pump Room Doorway. The room shall have a doorway directly to the exterior. The doorway shall be of sufficient size to allow removal of the fire pump and be a minimum of 36 inches in width.

Exception: Fire Pump rooms located below grade with direct access from a fire department and maintenance accessible area are exempt from the doorway directly to the exterior.

913.2.3.2 Fire Pump Room Protection. Access to fire pump shall be maintained at all times by bollards or other vehicular protective devices installed outside of the doors. The protective devices shall be located to prevent vehicles from parking in front of the doors.

913.2.3.3 Fire Pump Room Drains. Each fire pump room shall be provided with a minimum of two drains located near the fire pump. Each drain shall have a minimum of 4-inch diameter opening. One drain shall be dedicated to the main drain from the pump discharge piping and the second drain opening shall serve the accessory drain piping from the fire pump.

913.2.3.4 Fire Pump Test Header Location. The fire pump test header shall be located in a location where it would not be confused with the sprinkler/standpipe feed connection used by the fire department. The pump test header shall be located near an area where water discharge is easily contained and directed to collection points without impacting public vehicular traffic.

913.2.3.5 Fire Pump Transfer Switch. If a secondary electrical power supply is provided for the fire pump, the fire pump controller shall be a dual service controller acting as a combination fire pump controller and transfer switch.

Exception: Limited service controllers with a separate transfer switch will be permitted only if the transfer switch is installed adjacent to the limited service fire pump controller.

Section 918 of the IBC is amended to read as follows:

Section 918

Radio Amplification System for Emergency Service Personnel

918.1 General. The provisions of this Section shall apply to all newly constructed below ground floors of a building, all floors in buildings greater than 25000 ft² per floor, and to all floors of buildings greater than 3 stories in height.

918.2 Where Required. Every floor area in a building or structures which cannot achieve the required level of radio coverage as established by Montgomery County Department of Technology Services (DTS) shall be provided with in-building public safety radio enhancement system in accordance with the Montgomery County Fire Safety Code.

918.3 Inspection and Testing. Emergency responder radio coverage and in-building public safety radio enhancement systems must be tested, and inspected by approved individuals. The results of the testing and inspection shall be certified to the code official and Montgomery County prior to issuance of an occupancy permit.

Section 919 is added to the IBC to read as follows:

Section 919
Fire Hydrants

919.1 Fire Hydrant Spacing. For all newly constructed buildings, fire hydrants shall be spaced at no greater than 300 feet from all points of the structure as the fire hose would lay on the ground. The perimeter distance shall be measured, as a hose line would be laid along paved streets, through parking lot entrances, and around obstructions, in accordance with the determination of the authority having jurisdiction. If publicly maintained hydrants do not meet this spacing, then privately owned and maintained hydrants shall be provided.

Exception: Fire hydrant perimeter spacing may be increased to 500 feet for a structure equipped with an automatic fire suppression installed completely throughout. The distance from a fire hydrant to the fire department connection shall remain 100 feet.

919.1.1 Fire Hydrant location. Structures equipped with a sprinkler system and/or a standpipe system shall have a fire hydrant located within 100 feet of the fire department connection. The distance shall be measured along a path accessible to foot travel.

919.2 Fire Hydrant Location Markings. All new and relocated fire hydrants, either maintained by the City of Rockville, Washington Suburban Sanitary Commission or privately owned, shall be provided with a marker installed in the roadway. The marker shall be reflective and blue in color. The location of the marker shall be dependent upon the roadway characteristics.

- On unstriped roadways, blue markers shall be set in the center of the roadway.
- On undivided striped roadways, blue markers shall be set 6" to the hydrant side of the center stripe.
- On divided roadways, the blue marker shall be set 6" to the side of the lane striping, which is closest to the hydrant.
- In locations where hydrants are situated on corners, blue markers shall be installed on both approaches, which front the hydrant.

In addition, all fire hydrants shall be equipped with a vertical visual indicator to be permanently attached to the bonnet of the fire hydrant to assist in locating the hydrant when surrounded by snow.

919.3 Fire Hydrant Color Coding. A reflective tape marker shall be placed on each fire hydrant indicative of the fire hydrant's flow characteristics. The color of the band of reflective tape shall be in accordance with NFPA 291, Recommended Practice for Fire Flow Testing and Marking of Hydrants. The band shall be at least 2 inches in width and shall be wrapped around the neck of the fire hydrant, which is immediately beneath the bonnet.

Exception: If the fire hydrant is manufactured where a band cannot be attached, a reflective self-adhesive tape shall be applied to the rim of the bonnet.

919.4 Fire Hydrant Protection Systems. When a fire hydrant is considered to be vulnerable to vehicular traffic by the Code Official, a protective system shall be installed to prevent any damage. The system can be composed of bollards or another accepted physical barriers capable of impact without causing damage to the fire hydrant.

Section 1001.1.1 is added to the IBC to read as follows:

1001.1.1 Scope. Means of egress requirements of Chapter 10 may be concurrently covered in the State of Maryland Fire Prevention Code, Public Safety Article Sections 6-101 – 6-202 Annotated Code of Maryland and COMAR 29.06.01.

Section 1028.6 is added to the IBC to read as follows:

1028.6 Construction of Path to Egress Discharge. Egress discharge paths shall be made of permanent, formed materials arranged in a manner to lead occupants to a public way. Grass lawns, gravel and other filler materials will not be an acceptable path base.

Chapter 11 of the IBC is to be deleted and replaced with:

Chapter 11
ACCESSIBILITY
Section 1101
General

1101.1 Scope. Chapter 11 is hereby replaced with the Maryland Accessibility Code set forth in COMAR 09.12.53.

Section 1208.2.1 is added to the IBC to read as follows:

1208.2.1 Dedicated Attic Walkways. When a commercial or multi-family residential structure is provided with an attic, dedicated and permanent walkways shall be installed to provide an easy manner for maintenance personnel to transverse the structural spans. The walkway shall be of materials consistent with the construction of the building. The walkway shall be a maximum of 18 inches wide or meeting required widths as designated by other Codes and shall not be used for storage. The walkway shall be arranged so to prevent any contact with sprinkler piping or the insulation that protects the piping.

Sections 1507.1.3 and 1507.1.4 are added to the IBC to read as follows:

1507.1.3 Cool roof requirements. Roof coverings for roof slopes less than two units vertical in 12 units horizontal (less than 17-percent slope) for buildings and covered parking shall conform to Sections 1507.1.1 and 1507.1.2. Replacement, including any change to design or materials, of

the roof of a building or structure in a Historic District Zone must be approved by the Historic District Commission. A minimum of 75% of the entire roof surface not used for roof penetrations, onsite renewable energy systems, or vegetated roofing systems shall be covered with products that comply with the following:

1. Have a minimum initial solar reflective index (SRI) of 78, as described in Section 1507.1.2; or
2. Comply with the criteria for the U.S. EPA's Energy Star Program Requirements for Roof Products – Eligibility Criteria.

Exceptions:

1. Roofs used to shade or cover parking and roofs over semi-heated spaces or used as outdoor recreation space by the occupants of the building shall be permitted to be either landscaped or have a minimum initial SRI of 29. A default SRI value of 35 for new concrete without added color pigment is allowed to be used in lieu of measurements.
2. Terraces on setbacks comprising less than 25% of the area of the largest floor plate in the building.
3. Roofs ballasted at a minimum weight of 17 pounds per square foot with limestone or a ballast with a solar reflectance of at least 30% shall be permitted to comprise part or all of the 75% required area coverage.
4. Roofs where a minimum of 75% of the roof area is shaded during the peak sun angle on June 21st by permanent features of the building.
5. Vegetated roofs and onsite renewable energy systems shall be permitted to comprise part or all of the 75 percent required area coverage.

1507.1.4 Solar Reflective Index. The solar reflective index (SRI) shall be calculated in accordance with ASTM E1980 for medium-speed wind conditions. The SRI shall be based upon solar reflectance as measured in accordance with ASTM E1918 or ASTM C1549, and the thermal emittance as measured in accordance with ASTM E408 or ASTM C1371. For roofing products, the values of a solar reflectance and thermal emittance shall be determined by a laboratory accredited by a nationally recognized accreditation organization, such as the Cool Roof Rating Council CRRC-1 Product Rating Program, and shall be labeled and certified by the manufacturer.

Section 2310 is added to the IBC to read as follows:

**Section 2310
DECKS**

2310.1 Scope. Wood-framed decks shall be designed and constructed in accordance with this section and the “City of Rockville Typical Deck Details” handout. This would only apply to Use Groups R-3 and R-4.

Sec. 5-88. Adoption of Maryland Accessibility Code.

The Maryland Accessibility Code (COMAR 09.12.53) is adopted by reference.

Secs. 5-89 –5-95. Reserved.

SECTION 6. That Article VI, “One and Two Family Dwelling Code”, is hereby amended to read as follows:

ARTICLE VI. ONE AND TWO FAMILY DWELLING CODE

DIVISION 1. GENERALLY

Sec. 5-96. Scope.

This article shall govern the minimum requirements to safeguard the health, safety, and welfare of the public by regulating and controlling the design, construction, prefabrication, equipment or appliance installation, quality of materials, use and occupancy, and the repair of one (1) and two (2) family detached dwellings and townhouses not more than three (3) stories in height with or without a loft per Section R101.2.1 as follows:

1. New Construction and Substantial Reconstruction as defined in section R202 shall comply with all requirements of this article and Article XIV (Green Building Code).
2. Substantial additions to existing buildings shall comply with all requirements of this article, but do not need to comply with Article XIV (Green Building Code).
3. Demolition meeting the definition in section 5-68 must obtain a demolition permit and be subject to an evaluation of historic significance. Demolition may still be subject to an evaluation of historic significance, Applicants should refer to Chapter 25, (Zoning Ordinance), Section 25.14.01.d prior to any proposed exterior demolition.

Secs. 5-97 – 5-100. Reserved.

DIVISION 2. ADMINISTRATION AND ENFORCEMENT

Sec. 5-101. International Residential Code for One and Two-Family Dwellings--Adopted.

The International Code Council (ICC) International Residential Code for One and Two-Family Dwellings, 2018 Edition, as modified herein, is hereby adopted as the residential code for the City. One (1) copy of such publication as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication promulgated by the International Code Council shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-102. Same--Amendments.

The ICC International Residential Code for One - and Two-Family Dwellings, 2018 Edition (IRC), is amended as follows:

Section R101.1 of the IRC is amended to read as follows:

R101.1. Title. These provisions shall be known as the *Residential Code for One- and Two-family Dwellings of the City of Rockville* and shall be cited as such and will be referred to herein as “this code”.

Section R101.2 of the IRC is amended as follows:

Exception: The following shall be permitted to be constructed in accordance with this code where provided with a residential fire sprinkler system complying with Section NFPA 13:

Section R101.2.1 is added to the IRC to read as follows:

R101.2.1 Additional scope and repairs. Accessory structures and townhouses with lofts, not exceeding a total of four stories in height and meeting the requirements of Sections R309, R310 and R311 and other applicable requirements of this code. Repairs involving building structures existing at the time of adoption of or amendment of this Article shall comply with this Article or Article XIII.

Section R105.1.1 is added to the IRC to read as follows:

105.1.1 SFD Permit application notification. Before a permit is issued for construction of a new single-family dwelling, the owner, applicant, or their agent shall post and maintain a notice furnished by the code official at the front lot line facing the street of the proposed structure. The placard shall be conspicuously posted so as to be visible from the public way. The SFD permit shall not be issued by the code official until at least 30 calendar days after the date the notice is posted on the site and verified through an inspection performed by the code official.

Exception: Single Family Dwellings that are part of a sub-division containing more than 5 dwellings.

Section R105.2 of the IRC is amended to read as follows:

(a) R105.2 Work exempt from permit. Permits shall not be required for the following, however properties in Historic District Zones require “Certificates of Approval (permits)” for exterior alterations as per (b). Exemption from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

(b) See Chapter 25, Zoning Ordinance, Article 14 of the Rockville City Code: Historic District Zone

Building:

1. Retaining walls that support a surcharge and are not over 2 feet in height, as measured from the lower grade level to the grade level on the high side of the wall, and/or supporting a surcharge or impounding Class I, II or IIIA liquids.
2. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18,927 L) and the ratio of height to diameter or width does not exceed 2 to 1.
3. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade and not over any basement or story below.
4. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
5. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.
6. Swings and other playground equipment accessory to detached one-and two-family dwellings.
7. Window awnings supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.
8. Re-roofing or residing an existing home without removing any structural components.
9. Patio/decks that are not greater than 4" in height above ground level, Height is measured from top of patio/decking to ground at lowest point.
10. Removal and replacement of drywall not to exceed 320 square feet, of drywall.

Electrical:

1. Listed cord-and-plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles but not the outlet therefore.
3. Replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Electrical wiring, devices, appliances apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy.
5. Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.
6. Removal and replacement of stoves, disposals, ranges. Lighting fixtures, or similar appliances and equipment, not to include base board heaters.
7. Portable generators 10KW or less.

Gas:

1. Portable heating, cooking or clothes drying appliances.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.
3. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Mechanical:

1. Portable heating appliances.
2. Portable ventilation appliances.
3. Portable cooling units.
4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

6. Portable evaporative coolers.
7. Self-contained refrigeration systems containing 10 pounds (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) or less. (Window AC units).
8. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

Section R105.3.1.1 of the IRC is deleted.

Section R105.3.3 is added to the IRC to read as follows:

R105.3.3 Denial of permit. The Building Official is authorized to deny a permit where the applicant or contractor has a suspended contractor license or is under investigation for alleged violations by the issuing authority.

Section R105.5 of the IRC is amended to read as follows:

R105.5 Expiration. Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within six (6) months (180 days) after its issuance, or if the work authorized by such permit does not continue to progress or is abandoned for a period of six (6) months (180 days) after the last approved/valid inspection. The last approved/valid inspection shall be an inspection that has been passed. A failed inspection will not count as an approved/valid inspection.

Before such work recommences, a new permit shall be first obtained, and the appropriate fees, per the City's Fee Schedule shall be paid.

Section 105.5.1 is added to the IRC to read as follows:

105.5.1 Extensions. The code official can extend the time for action by the permittee if there is reasonable cause. A permittee holding an unexpired permit shall have the right to apply for an extension, in writing, for time to complete such work. The extension shall be requested for a justifiable cause.

Section R107.1 of the IRC is amended to read as follows:

R107.1 Temporary structures. The building official is authorized to issue a permit for temporary structures. Temporary structures are those used for only limited duration events or outdoor recreational purposes, and not as carports, garages, or storage rooms. Temporary structures may be erected for a period not to exceed a total of 90 days in any 12-month period. The size and location of temporary structures must meet the requirements of Chapter 25 (Zoning Ordinance) of the Rockville City Code. Temporary structures of less than 144 square feet in area are exempt from permit, but must meet all other requirements of this section and of Chapter 25 (Zoning Ordinance) of the Rockville City Code.

Sections R109.1.1 and R109.1.2 of the IRC are amended to read as follows:

R109.1.1 Foundation inspection. Includes footing inspection, foundation walls, waterproofing, drainage, and back-fill, and ground floor slab. A wall check (house location survey) must be prepared and certified by a Maryland Registered Land Surveyor and submitted for approval to the building official within 14 days of the footing inspection approval. Slab inspections will not be conducted until such survey is received and approved.

R109.1.2 Plumbing, mechanical, gas and electrical systems inspection. Rough inspection of plumbing, mechanical, gas and electrical systems shall be made prior to concealment and as often as required by the applicable code document.

Section R109.1.4 of the IRC is amended to read as follows:

R109.1.4 Frame and masonry inspection. Inspection of framing and masonry construction shall be made after the roof, masonry, all framing, fire stopping, draft stopping, and the plumbing, mechanical and electrical rough-in work is complete. The building, electrical, mechanical and plumbing rough-in inspections shall be requested at the same time. Floor framing located 36 inches or closer to the ground must be inspected prior to installing any flooring materials. An inspection is required for masonry fireplaces after the fireplace and first flue section are completed.

Section R109.1.4.1 is added to the IRC to read as follows

R109.1.4.1 Residential Building Height. The height of residential buildings in Group R-3 shall conform with Chapter 25, Zoning Ordinance, Section 25.10.05 of the Rockville City Code. A building height certification shall be submitted to the City of Rockville after all framing and roofing is complete. No close-in inspections will be performed until the certification has been approved by the City. The building height certification shall be prepared and signed by a licensed land surveyor in the State of Maryland, a civil engineer licensed in the State of Maryland or any individual who is deemed qualified by the Chief of Inspection Services.

Exception:

(1) Residential buildings in Group R-3 where the proposed addition, alteration or reconstruction does not exceed or increase the height of the existing structure. New SFD construction shall be excluded.

Sections R109.1.5.2 through R109.1.5.4 are added to the IRC to read as follows:

R109.1.5.2 Insulation inspection. Inspections of insulation shall be made after all close-in inspections have been approved. All manufacturer information used to demonstrate compliance with fenestration U-factors and glazed fenestration SHGC must be affixed to each window and door at the time of this inspection.

R109.1.5.3 Wall bracing inspection. Inspection shall be made after all wall bracing is completed and prior to the installation of any water-resistive barrier (house-wrap).

R109.1.5.4 Water-resistance barrier (house-wrap) inspection. Inspection of the water resistance barriers shall be made after installation of the required barrier per section R703.2 has been installed and prior to any wall coverings being applied.

Section R109.1.6 of the IRC is amended to read as follows:

R109.1.6 Final inspection. Final inspection shall be made after the permitted work is complete and prior to occupancy. The building, electrical, mechanical and plumbing final inspections shall be requested at the same time.

Section R109.4 of the IRC is amended to read as follows:

R109.4 Approval required. Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the building official. The building official upon notification shall make the requested inspections and shall either indicate the portion of the construction that is satisfactory as completed or shall notify the permit holder or an agent of the permit holder wherein the same fails to comply with this code. Any portions that do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the building official. Any required inspections disapproved twice for the same violation will be subject to re-inspection fees adopted by resolution of the Mayor and Council. Re-inspection fees must be paid before any further inspections can be performed at the building site. Any work done without proper inspections will be subject to special inspection fees as adopted by resolution of the Mayor and Council.

Section R110.1 of the IRC is amended to read as follows:

R110.1 Use and occupancy. No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made until the building official has issued a certificate of occupancy. Issuance of a certificate of occupancy shall not occur until the building has been inspected and found to be in compliance with the provisions of this code and all other applicable laws and ordinances. Temporary certificates of occupancy will not be issued for one- and two-family dwellings.

Exceptions:

1. Certificates of occupancy are not required for work exempt from permits under Section R105.2.
2. Accessory buildings or structures.

Sections R110.2 and R110.3 of the IRC are deleted.

Section R110.4 of the IRC is amended to read as follows:

R110.4 Temporary occupancy. Temporary certificates of occupancy will not be issued for one- and two-family dwellings.

Section R112 of the IRC is amended to read as follows:

R112.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section R114.1 of the IRC is amended to read as follows:

R114.1 Notice to owner or the owner's authorized agent. Upon notice from the building official that work on any building, structure, electrical, gas, mechanical or plumbing system is being done contrary to the provisions of this code or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be verbal or in writing and shall be given to the owner of the property, or to his agent, or to the person doing the work, and shall state the specific violations and the conditions under which work will be permitted to resume.

Section R202 Definitions of the IRC are hereby amended by adding and amending definitions as follows:

ACCESSORY BUILDING. A building subordinate to, and located on the same lot with a main building, the use of which is clearly incidental to that of the main building or to the use of the land, and which is not attached by any part of a common wall or common roof to the main building.

ACCESSORY STRUCTURE. A structure, the use of which is customarily associated with and clearly incidental and subordinate to a legally established principal structure and which is located on the same lot. Coated fabric type materials, woven or non-woven cloth, or fabric/ textile materials cannot be used in the construction, installation and/or assembly of any permanent accessory structure for which a permit is required. This includes but is not limited in scope to the following materials: Polyvinyl (PVC) coated, polyester coated, rubber or neoprene coated, nylon coated, polyurethane coated, vinyl coated/laminated material.

ADDITION. A modification to an existing building which increases the gross floor area. Any increase in building height or lot coverage is subject to current zoning standards.

ADDITION, SUBSTANTIAL. An addition that increases the gross floor area by more than 1,500 square feet.

ALTERATION. Any construction or renovation to an existing structure other than repair or addition that requires a permit. Also, a change in a mechanical system that involves an extension, addition or change to the arrangement, type or purpose of the original installation that requires a permit. Properties in Historic District Zones require “Certificates of Approval” from the Historic District Commission for all exterior alterations.

COOL ROOF RATING COUNCIL. The independent, non-profit organization that maintains a third-party rating system for radiative properties of roof surfacing materials.

ENERGY STAR. The joint program of the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy designed to identify and promote energy-efficient products and practices.

FAMILY. An individual, or two (2) or more persons all of whom are related to each other by blood, marriage, domestic partnership, adoption, guardianship or other duly authorized custodial relationship, and not more than two (2) other unrelated persons as long as all of the occupants are living together as a single housekeeping group in a dwelling unit, or a group of not more than five (5) persons who are not collectively related to each other by blood, marriage, domestic partnership, adoption, guardianship or other duly authorized custodial relationship, and are living together as a single housekeeping group in a dwelling unit.

LOW LEAD CONTENT. Low lead content means:

- (1) containing not more than 0.2% lead for solder and flux;
- (2) containing not more than 8% lead by dry weight for pipes and pipe fittings;
- (3) containing a percentage of lead for plumbing fittings and fixtures that is in compliance with standards established under Section 1417 of the federal Safe Drinking Water Act (42 USC Section 300g-6); and
- (4) containing not more than a weighted average lead content of 0.25% for the wetted surfaces of a pipe, pipe fitting, plumbing fitting, or fixture intended to dispense water for human consumption through drinking or cooking; or
- (5) meeting NSF standards 372 and 61-Annex G.

NEW CONSTRUCTION. An entirely new building or structure.

ONSITE RENEWABLE ENERGY SYSTEM. Includes, but is not limited to, photovoltaic panels, solar thermal collectors and wind systems located on or directly adjacent to the building site.

SUBSTANTIAL RECONSTRUCTION. Removal of 50% or more of the gross floor area of an existing structure where reconstruction is proposed in the scope of work for the area to be removed or demolished.

TOWNHOUSE LOFT. An additional story in one-family townhouses contained between the roof eaves and ridge, which may contain habitable rooms and does not exceed sixty percent (60%) of the floor area below.

VEGETATED ROOF. A layer of vegetation growing in a medium on top of a drainage layer and a synthetic, waterproof membrane on the roof of a structure.

WEIGHTED AVERAGE LEAD CONTENT. Weighted average lead content means:

- (1) identifying each component of a pipe, pipe fitting, plumbing fitting, or fixture that water flows through and comes into contact with during normal operation;
- (2) identifying the percentage lead content of each component of the pipe, pipe fitting, plumbing fitting, or fixture;
- (3) determining the wetted surface area of the pipe, pipe fitting, plumbing fitting, or fixture;
- (4) determining the percentage of the total wetted surface area of the pipe, pipe fitting, plumbing fitting, or fixture represented in each component;
- (5) calculating the contributing percent lead for each component that comes into contact with water by multiplying the percentage of lead content of the component by the percentage of total wetted surface area represented by the component; and
- (6) calculating the sum of each contributing percent lead value determined for each component under item (5) of this subsection.

Table R301.2 (1) of the IRC is amended to read as follows:

**TABLE R301.2 (1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^b	FLOOD HAZARDS ^g	AIR FREEZING INDEX ⁱ	MEANS ANNUAL TEMP ^h
	SPEED ^d (mph)	TOPOGRAPHICAL EFFECTS ^k	Special wind region ^l	Wind-borne debris zone ^m		WEATHERING ^a	FROST LINE DEPTH ^b	TERMITE ^c					
30	115	NO	NO	NO	B	SEVERE	30"	MODERATE TO HEAVY	13° F	YES	YES	1,000	50° F

MANUAL J DESIGN CRITERIA ⁿ

Elevation	Latitude	Winter heating	Summer Cooling	Altitude Correction factor	Indoor design temperature	Design temperature cooling	Heating temperature difference
156	39.17	17	91	1.0	70	75	53
Cooling temperature difference	Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily range	Winter humidity	Summer humidity	_____
16	23.3	23.3	74.2@1%	M	N/A	50%	

n. The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction

Sections R302.1 and R302.2 of the IRC are amended by replacing all references to “Section P2904” with NFPA 13D.

Section R302.1 Exception 3 of the IRC is amended to read as follows:

3. Detached tool sheds and storage sheds, playhouses and similar structures are not required to provide wall protection based on location on the lot provided the floor area does not exceed 200 square feet. Projections beyond the exterior wall shall not extend over the lot line.

Section R302.6.1 of the IRC is added to read as follows:

R302.6.1 Separation required in townhouses with loft. The garage in a townhouse with a loft totaling four floors must be separated from the rest of the dwelling by one-hour fire resistance rated assemblies supported by at least one-hour fire protected construction.

Section R302.13 exception 1 of the IRC is amended by removing the reference to Section P2904

Section R303.3 of the IRC is amended to read as follows:

R303.3 Bathrooms. Bathroom, water closet compartments and other similar rooms shall be provided with a mechanical ventilation system, designed in accordance with the Mechanical Code. Exhaust air from the space shall be exhausted directly to the outdoors.

Section R306.3 of the IRC is amended to read as follows:

R306.3 Sewage disposal. All plumbing fixtures shall be connected to a sanitary sewer.

Exception: Bathtubs, showers, lavatories, clothes washers and laundry trays are not required to discharge to the sanitary drainage system where those fixtures discharge to systems complying with Sections P2910 and P2911.

Section R309.1 of the IRC is amended to read as follows:

R309.1 Floor surface. Garage floor surfaces shall be of approved noncombustible material. The garage floor must be at least four inches below combustible materials and adjacent dwelling floor. The floor must be sloped to facilitate the movement of liquids toward the main vehicle entry doorway.

Section R309.5 of the IRC is deleted.

Section R310.1 of the IRC is amended by deleting Exception 2.

Section R310.3.2.2 of the IRC is amended by deleting the exception.

Section R312.1.1.1 is added to the IRC to read as follows:

R312.1.1.1 Retaining wall guards. Retaining walls with a difference in grade level on either side of the wall exceeding 4 feet and within 2 feet of a walk, path, parking lot or driveway on the high side shall have guards not less than thirty-six (36) inches in height.

Section R313 of the IRC is amended to read as follows:

SECTION R313 FIRE SUPPRESSION SYSTEMS

R313.1 Automatic Fire Suppression Systems Required. Complete fire suppression systems shall be installed and maintained in full operating condition, in compliance with the most recently adopted edition of NFPA 13D *Standard for the Installation of Sprinkler Systems in One - and Two-Family Dwelling and Manufacture Homes*, in all attached or detached one and two-family dwelling and townhouses for which building permit applications for new construction, as defined herein, have been submitted to the City of Rockville.

R313.2 Insulation Value for Sprinkler Piping Protection. Insulation installed on sprinkler piping, for the protection of freezing, shall have a minimum R-value of 30. Insulation shall not be blown-in or loose fill and shall be installed to prevent the compaction of the insulation.

Section R314.3 of the IRC is amended by adding the following:

5. In each townhouse loft.

Section R319.1 of the IRC is amended by replacing the value of “4 inches (102mm)” with “5 inches (122.5mm)”

Section R325.3 of the IRC is amended by replacing the reference to “Section P2904” with “NFPA 13D”

Section R403.1 of the IRC is amended to read as follows:

R403.1 General. All exterior walls, bearing walls, columns and piers shall be supported on solid or fully grouted masonry or concrete footings, wood foundations, or other approved structural systems which shall be of sufficient design to support safely the loads imposed as determined from the character of the soil, and except when erected upon solid rock or otherwise protected from frost, shall extend below the frost line. Minimum concrete compressive strength shall be 2,500 psi. at 28 days. When existing carports and other unenclosed areas are enclosed with walls, footings meeting the requirements of this section must be provided for all exposed slab sides. Accessory buildings over two hundred (200) square feet in area must be supported on footings meeting the requirements of this section. Minimum sizes for concrete footings shall be as set forth in Table No. 403.1 and Figure 403.1(1). Footings for wood foundations shall be in accordance with the details set forth in Figure Nos. 403.1(2) and 403.1(3). Concrete footings shall be designed and constructed in accordance with the provision of Section R403 or in accordance with ACI 332.

Section R403.1.4.1 of the IRC is amended by deleting the Exceptions.

Section R406.1 of the IRC is amended by adding the words “crawl spaces” after “interior spaces” in the first sentence.

Section R406.2 of the IRC is amended by removing the portion of the first sentence “In areas where a high-water table or severe soil-water conditions are known to exist”.

Section R506.2.3 of the IRC is amended to read as follows:

R506.2.3 Vapor retarder. A 6 mil (0.006 inch; 152 mm) polyethylene or approved vapor retarder with joints lapped not less than 12 inches (304 mm) shall be placed between the concrete floor slab and the base course or the prepared subgrade where no base course exists.

Exception: The vapor retarder is not required for the following:

1. Garages, utility buildings and other unheated accessory structures.
2. Driveways, walks, patios and other flatwork not likely to be enclosed and heated at a later date.

Section R507.1 of the IRC is amended to read as follows:

R507.1 Decks. Wood-framed decks shall be in accordance with this section and the “City of Rockville Typical Deck Details” handout. For decks using material and conditions not prescribed in this section, refer to Section R301.

Section R507.3.1 of the IRC is amended to read as follows:

R507.3.1 minimum size. The minimum size of concrete footings shall be in accordance with Table R507.3.1, based on the tributary area and allowable soil-bearing pressure in accordance

with table R401.4.1 but in no case, shall the footings be smaller than 16" X 16" square or 18' in diameter.

Section R507.3.2 of the IRC is amended by deleting all the exceptions.

Section R507.7.1 is added to the IRC to read as follows:

R507.7.1 Stair treads. Stairs shall be constructed using stringers spaced every eighteen (18) inches on-center maximum or as required by section R507.2.2.5.

Sections R905.1.3 and *R905.1.4* are added to the IRC to read as follows:

R905.1.3 Cool roof requirements. Roof coverings for roof slopes less than or equal to two units vertical in 12 units horizontal (less than 17-percent slope) for buildings and covered parking shall conform to this section. Replacement, including any change to design or materials, of the roof of a building or structure in a Historic District Zone must be approved by the Historic District Commission. A minimum of 75% of the entire roof surface not used for roof penetrations, onsite renewable energy systems, or vegetated roofing systems shall be covered with products that comply with the following:

1. Have a minimum initial solar reflective index (SRI) of 78, as described in Section R905.1.4; or
2. Comply with the criteria for the U.S. EPA's Energy Star Program Requirements for Roof Products – Eligibility Criteria.

Exception:

1. Roofs used to shade or cover parking and roofs over semi-heated spaces or used as outdoor recreation space by the occupants of the building shall be permitted to be either landscaped or have a minimum initial *SRI* of 29. A default *SRI* value of 35 for new concrete without added color pigment is allowed to be used in lieu of measurements.
2. Terraces on setbacks comprising less than 25% of the area of the largest floor plate in the building.
3. Roofs ballasted at a minimum weight of 17 pounds per square foot with limestone or ballast with a solar reflectance of at least 30% shall be permitted to comprise part or all of the 75% required area coverage.
4. Vegetated roofs and onsite renewable energy systems shall be permitted to comprise part or all of the 75% required area coverage.

R905.1.4 Solar Reflective Index. The solar reflective index (SRI) shall be calculated in accordance with ASTM E1980 for medium-speed wind conditions. The SRI shall be based upon solar reflectance as measured in accordance with ASTM E1918 or ASTM C1549, and the thermal emittance as measured in accordance with ASTM E408 or ASTM C1371. For roofing products, the values for solar reflectance and thermal emittance shall be determined by a laboratory accredited by a nationally recognized accreditation organization, such as the Cool Roof Rating Council CRRC-1 Product Rating Program, and shall be labeled and certified by the manufacturer.

Section R1001.13 is added to the IRC to read as follows:

R1001.13 Fireplaces. New wood-burning fireplaces shall have gasketed doors and outdoor combustion air.

Chapter 11 of the IRC is amended in its entirety to read as follows:

**CHAPTER 11
ENERGY EFFICIENCY
Section N1101
General**

N1101.1 Scope. This chapter governs the design and construction of residential buildings for energy efficiency. Residential buildings shall be designed and constructed in accordance with Chapters 1[RE], 2[RE], 3[RE], 4[RE] and 5[RE] of the International Energy Conservation Code, 2018 Edition as amended per Article VIII of this Chapter of the Rockville City Code.

Section M1502.4.2 of the IRC is amended to read as follows:

M1502.4.2 Duct installation. Exhaust ducts shall be supported at intervals not to exceed 12 feet (3658 mm) and shall be secured in place. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. Exhaust duct joints shall be sealed in accordance with Section M1601.4.1 and shall be mechanically fastened. Ducts shall not be joined with screws or similar fasteners that protrude into the inside of the duct.

Sections P2601.1 and *P2601.2* of the IRC are amended to read as follows:

P2601.1 Scope. Plumbing materials and installation shall conform to the requirements of Chapters 25 through 32 of this Code, and to the requirements of Chapter 5, Article XI, Plumbing Code, of the Rockville City Code. Where there are conflicts between the two codes, the requirements of the Rockville City Code shall prevail.

Section P2601.3 of the IRC is deleted

Section P2602 of the IRC is deleted in its entirety.

Section P2705.1 of the IRC is amended by deleting item #7.

Section P2804.8 is added to the IRC to read as follows:

P2804.8 Thermal expansion control. Where a storage water heater is supplied with cold water that passes through a check valve, pressure reducing valve or backflow preventer, a thermal expansion control device shall be connected to the water heater cold water supply pipe at a point that is downstream of all check valves, pressure reducing valves and backflow preventers. Thermal expansion tanks shall be sized in accordance with the tank manufacturer's instructions and shall be sized such that the pressure in the water distribution system shall not exceed that

required by Section 604.8. If existing water heater is not equipped with an expansion tank, one must be added at time of replacement.

Table P2903.2 of the IRC is amended to read as follows:

TABLE P2903.2
MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND
FIXTURE FITTINGS^b

PLUMBING FIXTURE OR FIXTURE FITTING	PLUMBING FIXTURE OR FIXTURE FITTING CONSUMPTION
Lavatory faucet	1.5 gpm at 60 psi
Shower head ^a	2.0 gpm at 80 psi
Sink faucet	1.5 gpm at 60 psi
Water closet ^c	1.28 gallons per flushing cycle

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

- a. A handheld shower spray shall be considered a shower head.
- b. Consumption tolerances shall be determined from references standards.
- c. Dual Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME A112.19.14.

Section P2903.7 of the IRC is amended to read as follows:

P2903.7 Size of water-service mains, branch mains and risers. The minimum size water service pipe shall be 1 inch. The size of water service mains, branch mains and risers shall be determined according to water supply demand {gpm(L/m)}, available water pressure {psi(kPa)} and friction loss caused by the water meter and developed length of pipe {feet (m)}, including equivalent length of fittings. The size of each water distribution system shall be determined according to the procedure outlined in this section or by other design methods conforming to acceptable engineering practice and approved by the administrative authority:

1. Obtain the minimum daily static service pressure {psi(kPa)} available (as determined by the local water authority) at the water meter or other source of supply at the installation location. Adjust this minimum daily static pressure {psi (kPa)} for the following conditions:
 - 1.1 Determine the difference in elevation between the source of supply and the highest water supply outlet. Where the highest water supply outlet is located above the source of supply, deduct 0.5 psi (3.4 kPa) for each foot (305 mm) of difference in elevation. Where the highest water supply outlet is located below the source of supply, add 0.5 psi (3.4 kPa) for each foot (305 mm) of difference in elevation.
 - 1.2 Where a water pressure reducing valve is installed in the water distribution system, the minimum daily static water pressure available is 80 percent of the minimum daily static water pressure at the source of supply or the set pressure downstream of the pressure reducing valve, whichever is smaller.

- 1.3 Deduct all pressure losses caused by special equipment such as a backflow preventer, water filter or water softener. Pressure loss data for each piece of equipment shall be obtained from the manufacturer of such devices.
- 1.4 Deduct the pressure in excess of 8 psi (55 kPa) caused by installation of special plumbing fixtures, such as temperature controlled showers and flush-o-meter tank water closets. Using the resulting minimum available pressure, find the corresponding pressure range in Table P2903.7.
2. The maximum developed length for water piping is the actual length of pipe between the source of supply and the most remote fixture, including either hot (through the water heater) or cold water branches multiplied by a factor of 1.2 to compensate for pressure loss through fittings. Select the appropriate column in Table P2903.7 equal to or greater than the calculated maximum developed length.
3. To determine the size of water service pipe, meter and main distribution pipe to the building using the appropriate table, follow down the selected "maximum developed length" column to a fixture unit equal to, or greater than the total installation demand calculated by using the "combined" water supply fixture unit column of Table P2903.6. Read the water service pipe and meter sizes in the first left-hand column and the main distribution pipe to the building in the second left-hand column on the same row.
4. To determine the size of each water distribution pipe, start at the most remote outlet on each branch (either hot or cold branch) and, working back toward the main distribution pipe to the building, add up the water supply fixture unit demand passing through each segment of the distribution system using the related hot or cold column of Table P2903.6. Knowing demand, the size of each segment shall be read from the second left-hand column of the same table and a maximum developed length column selected in Steps 1 and 2, under the same or next smaller size meter row. In no case does the size of any branch or main need to be larger than the size of the main distribution pipe to the building established in Step 3.

Installation of additional fixtures at an existing building will require evaluation of the size of the water distribution system, as outlined in this section, and an increase in line and meter size if required by the additional fixture demand.

Section P2903.9.3 of the IRC is amended to read as follows:

P2903.9.3 Fixture valves and access. Shut off valves shall be required on each new fixture supply pipe to each plumbing appliance and to each plumbing fixture. Valves shall be accessible.

Section P2904 of the IRC is deleted in its entirety.

Section P2906.3 of the IRC is deleted in its entirety.

Section P2906.4 of the IRC is amended to read as follows:

P2906.4 Water service pipe. Water service pipe installed underground between the main and the property line/meter shall be type "K" copper tubing with siphons/brazed joints only for sizes up to and including two (2) inches. In case type "K" copper tubing is unavailable, type "L" copper tubing may be used in an emergency when authorized by the City's Department of Public

Works. From the property line to the structure shall conform to NSF 61 and shall conform to one of the pipe standards indicated in Table P2906.4. Water service pipe installed underground and outside of the structure, shall have a minimum working pressure rating of 160 psi at 73° F (1100 kPa at 23° C).

Section P2906.4.1 of the IRC is amended to read as follows:

P2906.4.1 Water service installation. Trenching, pipe installation and backfilling shall be in accordance with Section P2604. Sewers and water servicing pipe shall be installed below the recorded frost penetration, but in no case less than two (2) feet two (2) inches for sewer and two (2) feet six (6) inches for water. Water-service pipe is permitted to be located in the same trench with a building sewer provided such sewer is constructed of materials listed for underground use within a building in Section P3002.1. When water-service pipes are laid in the same trench with a building sewer, the water-service pipe is placed on a solid ledge at least twelve (12) inches above and twelve (12) inches to one (1) side of the highest point in the sewer line. In no case shall the water-service pipe be less than two (2) feet six (6) inches below grade. If the building sewer is not constructed of materials listed in Section P3002.1, the water-service pipe shall be separated from the building sewer by a minimum of 5 feet (1524 mm), measured horizontally, of undisturbed or compacted earth or placed on a solid ledge at least 12 inches (305 mm) above and to one side of the highest point in the sewer line.

Exception: The required separation distance shall not apply where a water service pipe crosses a sewer pipe, provided that the water service pipe is sleeved to at least 5 feet (1524 mm), horizontally from the sewer pipe centerline, on both sides of the crossing with pipe materials listed in Tables P3002.1(1), P3002.1(2) or P3002.2.

Section P2906.5.1 is added to the IRC to read as follows:

P2906.5.1 Under concrete slabs. Inaccessible water distribution piping under slabs shall be copper water tube Type M, brass, or cast-iron pressure pipe, all installed with approved fittings or bends. Any material subject to corrosion shall be protected when used in corrosive soils. Joints in copper pipe or tube installed in a concrete floor slab or under a concrete floor slab on grade shall be installed using wrought-copper fittings and brazed joints.

Section P3001.1 of the IRC is amended to read as follows:

P3001.1 Scope. The provisions of this chapter shall govern the materials, design, construction and installation of sanitary drainage systems. Plumbing materials shall conform to the requirements of this chapter. The drainage, waste and vent (DWV) system shall consist of all piping for conveying wastes from plumbing fixtures, appliances and appurtenances, including fixture traps; above-grade drainage piping; below-grade drains within the building (building drain); below- and above-grade venting systems; and piping to the public sewer.

Chapter 34 and Section E3401.1 of the IRC is are amended to read as follows:

E3401.1 Applicability. The electrical requirements shall conform to the most recently adopted edition of the NFPA National Electrical Code as provided for in Chapter 5, Article VII of the Rockville City Code.

Chapters 35 through 43 of the IRC are deleted in their entirety.

Appendix F Passive Radon Gas Controls of the IRC is adopted in its entirety.

Appendix H Patio Covers of the IRC is adopted and amended to read as follows:

APPENDIX H Patio Covers

Section AH101 General

AH101.1 Scope. Patio covers shall conform to the requirements of this appendix chapter.

Section AH102 Definitions

Patio covers. Permanent one-story structures not exceeding 13 feet (3657 mm) in height. Enclosure walls shall be permitted to be of any configuration, provided the open or glazed area of the longer wall and one additional wall is equal to at least 65 percent of the area below a minimum of 6 feet 8 inches (2032 mm) of each wall, measured from the floor. Openings shall be permitted to be enclosed with (1) insect screening, (2) glass conforming to the provisions of Section R308, or (3) any combination of the foregoing. Plastics (with the exception of multi-wall polycarbonate sheet products used as roofing), canvas, tarpaulin, and other type of fabric or pliable material may not be used in the construction of patio covers. Patio covers must meet the size and location requirements of Chapter 25 (Zoning Ordinance) of the Rockville City Code.

Patio structure. A structure not greater than 3,000 square feet in floor area and not over fifteen feet (15') in height, the use of which is customarily accessory to and incidental to that of the dwelling(s) and which is located on the same lot. Coated fabric type materials, woven or non-woven cloth, or fabric/ textile materials cannot be used in the construction, installation and/or assembly of any permanent accessory structure for which a permit is required. This includes but is not limited in scope to the following materials: Polyvinyl (PVC) coated, polyester coated, rubber or neoprene coated, nylon coated, polyurethane coated, vinyl coated/laminated material. Patio structures must meet the size and location requirements of Chapter 25 (Zoning Ordinance) of the Rockville City Code.

**Section AH103
Permitted Uses**

AH103.1 General. Patio covers shall be permitted to be detached from or attached to dwelling units. Patio covers shall be used only for recreational, outdoor living purposes and not as carports, garages, storage rooms or habitable rooms.

**Section AH104
Design Loads**

AH104.1 General. Patio covers shall be designed and constructed to sustain, within the stress limits of this code, all dead loads plus a minimum vertical live load of 10 pounds per square foot (0.48 kN/m²) except that snow loads shall be used where such snow loads exceed this minimum. Such covers shall be designed to resist the minimum wind loads set forth in Table R301.2(1).

Appendix J Existing Buildings and Structures of the IRC is adopted in its entirety.

Appendix K Sound Transmission of the IRC is adopted in its entirety.

Appendix Q Tiny Houses of the IRC is adopted in its entirety.

Secs. 5-103 – 5-110. Reserved.

SECTION 7. That Article VII, “Electrical Code”, is hereby amended as follows:

ARTICLE VII. ELECTRICAL CODE

DIVISION 1. GENERALLY

Sec. 5-111. Definitions.

Except as specifically set forth in this article or any document referred to in this article, terms as used shall have the same definitions as the NFPA 70, National Electrical Code, 2017 Edition.

Approved means accepted or acceptable under the applicable specification stated or cited in this article and/or the NFPA 70, National Electrical Code- 2017 Edition, or as accepted as suitable for the proposed use under procedures and powers of the administrative authority. Upon written request a certificate of approval may be issued indicating satisfactory completion of the electrical work.

Existing work means any electrical system or any part thereof, which has been lawfully installed prior to adoption of this ~~article~~ ordinance.

Sec. 5-112. Purpose.

The purpose of this article is the practical safeguarding of persons and of buildings and their contents from electrical hazards arising from the use of electricity for light, heat, power, radio, signaling, and for other purposes.

Sec. 5-113. Scope.

- (a) This article applies to:
 - 1) The electrical conductors and equipment installed within or on public and private buildings or other structures, and other premises such as yards, carnivals, parking and other lots, and industrial substations;
 - 2) The conductors that connect the installations to the supply of electricity; and
 - 3) Other outside conductors on the premises.
- (b) This article does not apply to installations in cars, automotive equipment, or the installation of equipment employed by a railway, electrical or communication utility in the exercise of its function as a utility and located outdoors or in buildings used exclusively for that purpose.
- (c) All electrical work must also comply with relevant provisions of Article VIII, the Energy Conservation Code.

Secs. 5-114 – 5-120. Reserved.**DIVISION 2. ADMINISTRATION AND ENFORCEMENT****Sec. 5-121. Electrical permit.**

- (a) No electrical work shall be undertaken prior to the issuance of an electrical permit therefore by the administrative authority. Such permit shall be issued to a licensed master electrician or licensed master electrician (limited), except as otherwise provided. No permit shall be required to repair portable electrical equipment or lighting fixtures, or to repair or replace sockets, or to repair motors, or to replace motors with motors of the same horsepower rating.
- (b) Any permit required may be issued to any person to do electrical work in a single-family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such building, provided the person is the bona fide owner of such dwelling and that the same will be occupied by the owner and that the owner shall personally purchase all material and perform all labor in connection therewith; however, the administrative authority may require the homeowner to show that he is qualified to perform such work in a capable manner so as not to endanger the life and property of himself, persons in the neighborhood or property belonging to public utility suppliers. This subsection does not apply to work involving heavy-up or replacement of

service equipment, or to any wiring associated with swimming pool and/or hot tub installations.

- (c) Applications for electrical permits shall be made on suitable forms provided by the administrative authority. The application shall be accompanied by the payment of a fee in accordance with the schedule of fees which has been established by resolution.
- (d) No electrical permit shall be issued until plans and specifications showing the proposed work in necessary detail have been submitted to the administrative authority and it has been determined from examination of such plans and specifications that they give assurance that the work will conform to the provisions of this article. If a permit is denied, the applicant may submit revised plans and specifications without payment of additional fee.
- (e) If, in the course of the work, it is found necessary to make any change from the plans and specifications on which a permit has been issued, amended plans and specifications shall be submitted and a supplemental permit, subject to the same conditions applicable to the original application for permit, shall be issued to cover the change.

Sec. 5-122. Inspections.

- (a) It shall be the duty of the administrative authority to make necessary inspections under this article. Upon completion of all electrical installations the person holding the permit therefor shall be required to notify the administrative authority and request inspection of such installation. However, if such installation, or any part of such installation, is to be hidden from view due to permanent placement of part of a building, the permit holder shall request that this segment of the work be inspected before it is covered over.
- (b) The administrative authority shall have the authority to require the removal of any structure that prevents proper inspection of any electrical installation.
- (c) If, when inspection is made, the inspector shall find the installation to be in violation, the permit holder shall be notified and given a reasonable time period as may be designated by the administrative authority, in which to correct such violation.

Sec. 5-123. Cut-in certificate.

- (a) The electric power company shall not supply electricity or power to any electrical equipment, for the installation of which a permit is required by this article, and no person shall connect any such electrical equipment to a supply of electricity or power except in accordance with a cut-in certificate issued by the administrative authority.
- (b) Temporary cut-in certificates shall be issued for temporary installation for construction or temporary pending final and such certificates shall be cancelled by the administrative authority at any time if the installation is not maintained or completed as required by this article.

- (c) If, after the inspection, the City's electrical inspector finds the installation to be in conformity with the provisions of this article, he shall issue a cut-in certificate therefor, authorizing the use of the installation and connection to the supply of electricity and power, and shall send such certificate to the electric power company. Such certificates may be issued for an entire installation or part thereof.

Secs. 5-124 – 5-130. Reserved.

DIVISION 3. TECHNICAL STANDARDS

Sec. 5-131. National Electrical Code -- Adopted.

The National Fire Protection Association (NFPA) NFPA 70, National Electrical Code- 2017 Edition as modified herein, is hereby adopted as the electrical code for the City. One (1) copy of such publication as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication promulgated by the National Fire Protection Association shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-132. Same--Definition.

In section 90-4 of the NFPA 70, National Electrical Code 2017 Edition, the phrase "authority having jurisdiction" shall mean the Chief of Inspection Services Division.

Sec. 5-133. Same--Amendments.

The NFPA 70, National Electrical Code, 2017 Edition (NEC), is amended in the following respects:

Section 90.1 (D) is added to the NEC to read as follows:

(D) Relation with the Rockville City Code, Article VIII. The requirements in this code address the fundamental principles of protection for safety. The energy conservation requirements are addressed in Article VIII and Article XIV of the Rockville City Code.

Section 90.2 of the NEC is amended by adding the following:

(D) Homeowners.

Homeowner must take and pass an exam administered by the Inspection Services Division prior to allowing a homeowner to obtain an electrical permit for doing electrical wiring at their primary residence. This exam will be valid for two (2) years allowing the homeowner to apply for additional permits in that time frame for their primary residence. Homeowner obtained

electrical permits will allow electrical wiring at their primary residence, with the exclusion of the following work:

- Swimming pools, saunas, or hot tubs
- Service equipment installation such as heavy -ups, panel replacements, sub-panels
- Replacement of SEC cable.
- Overhead service mast replacements.

Section 90.10 is added to the NEC to read as follows:

90.10 Appeals.

90.10.1 Board of Adjustments and Appeals.

Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section 110-14(a) of the NEC is amended by adding the following:

In all cases, copper -clad aluminum wire must be terminated by means of wire binding screws. The use of any type of "quick-wire" terminals where the possibility of nicking the surface of copper-clad aluminum wire does exist shall not be permitted.

Section 210-5 of the NEC is amended by rewriting subsection (C) to read as follows:

(C) Ungrounded conductor. Where installed in raceways, as open work, or as concealed knob-and-tube work, the ungrounded conductor shall be identified by any color other than as specified in (a) and (b) above. All ungrounded conductors of the same color shall be connected to the same ungrounded feeder conductor and the conductors for systems of different voltages shall be of different colors.

Exception: As permitted in section 200-7, it is required that all multicable conductors are to be color coded as follows:

For 120/208/240 Volts
2 conductors--1 white and 1 black;
3 conductors--1 white, 1 black and 1 red;
4 conductors--1 white, 1 black, 1 red, and 1 blue.

For 227/480 Volts; The colors gray, brown, orange, and yellow must be use in accordance with commonly accepted trade practices.

Section 210.19(A) (1) of the NEC is amended by adding the following:

(c)Branch circuits smaller than #4 shall be copper conductors.

Section 210.52(A) of the NEC is amended by adding the following:

(5) Dwelling units. General lighting branch circuits in dwelling occupancies served by a fifteen-ampere branch circuit shall not have more than twelve (12) power consuming outlets. A duplex receptacle is considered one (1) outlet.

A small appliance branch circuit in dwelling occupancies served by a twenty-ampere branch circuit shall have not more than eight (8) receptacle outlets.

Section 230.2 of the NEC is amended by adding the following Exception:

Exception: Individual meters to measure electrical consumption shall be provided for each dwelling unit of a multi-family group when such dwelling units have separate heating and/or cooling systems whose primary energy source is electricity.

Section 230.70 of the NEC is amended to read as follows:

230.70 General. Means shall be provided to disconnect all conductors in a building or other structure from the service-entrance conductors.

(A) Location. The service disconnecting means shall be installed in accordance with 230.70(A)(1), (A)(2), and (A)(3).

(1) Readily Accessible Location. The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure or inside not to exceed 5 feet from the point of entrance of the service conductors.

(2) Bathrooms. Service disconnecting means shall not be installed in bathrooms.

(3) Remote Control. Where a remote-control device(s) is used to actuate the service disconnecting means, the service disconnecting means shall be located in accordance with 230.70(A)(1).

(B) Marking. Each service disconnect shall be permanently marked to identify it as a service disconnect.

(C) Suitable for Use. Each service disconnecting means shall be suitable for the prevailing conditions. Service equipment installed in hazardous (classified) locations shall comply with the requirements of Articles 500 through 517.

Section 230.79, subsection (c) of the NEC is amended by deleting the value of "one hundred (100) amperes" and substituting therefor the value of "one hundred fifty (150) amperes" as the minimum service disconnecting means rating for one and two-family dwelling.

Section 410.36 (B) of the NEC is amended to read as follows:

(B) Suspended Ceilings. All luminaries installed in suspended ceilings shall be supported directly from the building structure. A minimum of 2 wires of size No. 12 steel or larger shall be used. These wires must be tied to opposite corners of the luminaire and attached independently to the building structure.

Exception: Circular luminaries with a diameter 12 inches or less may be supported with one wire of No. 12 steel or larger.

Section 424.11 of the NEC is amended to add the following:

Wiring for all fixed electric space heating equipment shall be copper wire only. Conductors shall terminate from the heating equipment terminals to the disconnect.

Section 424.19 of the NEC is amended to add the following:

The disconnect serving the equipment shall not be secured or fastened to the heating equipment.

Section 426.22 of the NEC is amended by adding subsection (F) to read as follows:

(F) Non-heating leads. Non-heating leads shall be of copper wire only.

Section 426.23 of the NEC is amended by adding subsection (C) to read as follows:

(C) Non-heating leads. Non-heating leads shall be of copper wire only.

Section 500.5 (D), of the NEC is amended by adding (Informational Note No. 3) to read as follows:

(Informational Note No. 3): such locations as trash or incinerator rooms.

Section 503.10 (A) of the NEC is amended by adding a new paragraph (5) to read as follows:

(5) No conduits, busways, wireways, or feeder cables. No conduits, busways, wireways, or feeder cables shall pass through trash or incinerator rooms. The only wiring permitted in such rooms may be circuit wiring with suitable insulation having to do with and terminating in such rooms. Conduit embedded in two (2) or more inches of concrete or masonry may be considered to be outside such rooms.

Section 700.18 of the NEC is amended to read as follows:

Circuits for Emergency Power. For branch circuits that supply equipment classed as emergency, there shall be an emergency supply source to which the load will be transferred

automatically upon the failure of the normal supply. Any building in which standpipes are installed must have one 30-ampere, 120-volt circuit installed for each standpipe riser, supplied from the emergency panel. The wiring method for exposed work must be galvanized, threaded metal conduit. Boxes must be metal, weatherproof types with gasketed flap-door covers and threaded hubs. The wiring method for concealed work must be metal conduit with appropriate galvanized boxes having gasketed flap-door covers suitable for fire department use. The weatherproof cover must be suitable for receiving the L5-20R NEMA type twist-lock receptacle without damage.

Supply wiring must be at least 75 degrees C-type wire. One single 20-ampere three-wire twist lock receptacle (NEMA L5-20R) must be installed at least as high as, and with a 2-foot offset from each hose valve connection. Each outlet box must be painted "fire-alarm red" in color and be marked "Fire Department Use Only".

Note: This Section supersedes the requirements of Table 210.21(B) (2).

Secs. 5-134 – 5-140. Reserved.

DIVISION 4. LICENSING OF ELECTRICIANS

Sec. 5-141. Required; violation declared misdemeanor.

- (a) Any person wishing to install, maintain, and/or repair any electrical circuits, equipment, or apparatus, or who wishes to supervise such work, within the corporate limits of the City shall obtain a master electrician's license from the administrative authority.
- (b) Any person wishing to install, maintain, and/or repair, or supervise the installation, maintenance, and/or repair of a particular appliance, equipment, or apparatus, such as air conditioning equipment, oil and gas heating furnaces, electric signs, and similar specialties within the corporate limits of the City shall obtain a master electrician's (limited) license from the administrative authority.
- (c) Any person wishing to work under the supervision of a master electrician to install, maintain, and/or repair any electrical circuits, equipment or apparatus within the corporate limits of the City shall obtain a journeyman electrician's license by any county or municipality in the state approved by the administrative authority. All work done under this license shall be done under the supervision of a master electrician or master electrician (limited), who is licensed by the City.
- (d) Any person who shall perform any electrical work within the corporate limits of the City who is not by or under the supervision of a licensee as provided in this article or is not otherwise qualified as set forth in section 5-121, subsection (b), shall be guilty of a misdemeanor.

- (e) All company vehicles, shall have the City's license number conspicuously displayed.

Sec. 5-142. Qualifications; examination.

- (a) The administrative authority shall establish standards and procedures for the qualifications and licensing of master electricians and master electricians (limited). The administrative authority shall issue an appropriate license to each person who meets the qualifications and licensing requirements therefor.
- (b) No additional examination will required by the administrative authority when an applicant presents a valid license issued by the State or County or any other municipality or County within the State, provided such City or County administers examinations and has qualification procedures equivalent to those required for licensing by the City.
- (c) No license shall be granted to any person under the age of twenty-one (21) years.
- (d) The examination fee shall be as set by the agency approved by the administrative authority to give the examination.

Sec. 5-143. Fee.

A license shall be issued under this division to qualified applicants only upon payment of a fee in the amount established by resolution.

Sec. 5-144. Term.

Licenses required by this division shall expire at the end of odd numbered calendar years.

Sec. 5-145. Bond or insurance.

Any person who has been issued a master electrician's license or master electrician's (limited) license shall execute and deposit with the administrative authority a bond in the sum of five thousand dollars (\$5,000.00) or proof of insurance with a minimum of three hundred thousand dollars (\$300,000.00) general liability and one hundred thousand dollars (\$100,000.00) property damage coverage. Such bond shall be conditioned that all electrical work performed by the licensee or under his supervision shall be performed in accordance with this Code and that he will pay all fines and penalties properly imposed upon him for violation of the provisions of this article. A master electrician's license or a master electrician's (limited) license shall not be valid unless a bond is executed and deposited as herein stipulated, or proof of insurance submitted. No additional insurance or bond is required of persons who have a current, active and insured State Master Electrician License.

Sec. 5-146. Use of licensee's name by another; change of address, etc.

No person who has obtained a master electrician's license or master electrician's (limited) license shall allow his name to be used by another person either for the purpose of obtaining permits, or doing business or work under the license. Every person licensed shall notify the administrative

authority of the address of his place of business and the name under which such business is carried on and shall give immediate notice to the administrative authority of any change in either.

Secs. 5-147 – 5-155. Reserved.

SECTION 8. That Article VIII, “Energy Conservation Code,” is hereby amended as follows:

ARTICLE VIII. ENERGY CONSERVATION CODE

DIVISION 1. GENERALLY

Sec. 5-156. Scope.

This article regulates the design and construction of the thermal envelopes and selection of HVAC, service water heating, electrical distribution systems and equipment required for the purpose of effective use of energy and shall govern all buildings and structures, or portions thereof, hereafter erected that provide facilities or shelter for human occupancy.

Secs. 5-157 – 5-160. Reserved.

DIVISION 2. TECHNICAL STANDARDS

Sec. 5-161. International Energy Conservation Code--Adopted.

The International Code Council (ICC) International Energy Conservation Code, 2018 Edition, as modified herein, is hereby adopted as the energy conservation code for the City. One (1) copy of such publication as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such code promulgated by the International Code Council shall not become part of this article until the modifications have been duly adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-162. Same--Amendments.

The ICC International Energy Conservation Code, 2018 Edition (IECC), is amended in the following respects:

Section C101.1 of the IECC is amended to read as follows:

C101.1 Title. This code shall be known as the International Energy Conservation Code of the City of Rockville, and shall be cited as such. It is referred to herein as “this code”.

Section C102.1.1 of the IECC is amended to read as follows:

C102.1.1 Above code programs. The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code if the program provides a detailed written energy analysis study demonstrating that the requirements in the program exceed all requirements of this code and includes a requirement for inspections of each building by an accredited independent party to determine compliance. Buildings approved in writing by such an energy efficiency program and that meet all mandatory provisions of this Article shall be considered in compliance with this code.

Section C103.2 of the IECC is amended to add item #13 as follows:

13. Energy Code Compliance Checklist

Section C104.1 of the IECC is amended as follows:

C104.1 Fees: The fees shall be as established by resolution of the Mayor and Council.

Sections C104.2, C104.3, C104.4 and C104.5 of the IECC are deleted.

Section C107.1.1 of the IECC is amended to read as follows:

C107.1.1 Conflicts. Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of the most restrictive code shall apply.

Section C109 of the IECC is amended to read as follows:

C109.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code

Section C301.1 of the IECC is amended to read as follows:

C301.1 General. Climate zone “4 except Marine” shall be used for the City of Rockville in determining the applicable requirements from Chapter 4.

Sections C301.2, C301.3 and C301.4 of the IECC are deleted.

Section R101.1 of the IECC is amended to read as follows:

R101.1 Title. This code shall be known as the International Energy Conservation Code of the City of Rockville, and shall be cited as such. It is referred to herein as “this code”.

Section R102.1.1 of the IECC is amended to read as follows:

R102.1.1 Above code programs. The code official or other authority having jurisdiction shall be permitted to deem a national, state or local energy efficiency program to exceed the energy efficiency required by this code if the program provides a detailed written energy analysis study demonstrating that the requirements in the program exceed all requirements of this code and includes a requirement for inspections of each building by an accredited independent party to determine compliance. Buildings approved in writing by such an energy efficiency program and that meet all mandatory provisions of this Article shall be considered in compliance with this code.

Section R103.2 of the IECC is amended to add item #9 as follows:

9. Energy Code Compliance Checklist.

Section R104.1 of the IECC is amended as follows:

R104.1 Fees: The fees shall be as established by resolution of the Mayor and Council.

Sections R104.2, R104.3, R104.4 and R104.5 of the IECC are deleted.

Section R107.1.1 of the IECC is amended to read as follows:

R107.1.1 Conflicts. Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of the most restrictive code shall apply.

Section R109 of the IECC amended to read as follows:

R109.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section R301.1 of the IECC is amended to read as follows:

R301.1 General. Climate zone “4 except Marine” shall be used for the City of Rockville in determining the applicable requirements from Chapter 4.

Sections R301.2, R301.3 and R301.4 of the IECC are deleted.

Section R402.6 of the IECC is added to read as follows:

R402.6 Moisture control. (Mandatory). The building design shall not create conditions of accelerated deterioration from moisture condensation. Above-grade frame walls, floors and ceilings not ventilated to allow moisture to escape shall be provided with an approved vapor retarder. The vapor retarder shall be installed on the warm-in-winter side of the thermal insulation.

Exceptions:

1. In construction where moisture or its freezing will not damage the materials.
2. Frame walls, floors and ceilings in jurisdictions in Zone 4. (Crawl space floor vapor retarders are not exempted.)
3. Where other approved means to avoid condensation are provided.

Secs. 5-163 – 5-170. Reserved.

SECTION 9. That Article IX, "Gas Code", is hereby amended to read as follows:

ARTICLE IX. GAS CODE

DIVISION 1. GENERALLY

Sec. 5-171. Definitions.

Except as specifically set forth below and in Section 5-68, terms as used in this Article shall have the same definitions as the International Code Council (ICC) International Fuel Gas Code, 2018 Edition, and National Fire Protection Association 51, 54, and 58.

Administrative authority means the City Manager and the City Manager's designees and duly authorized agents.

Approved means accepted or acceptable under an applicable specification stated or cited in this Article and/or the ICC International Fuel Gas Code, 2018 Edition, or accepted as suitable for the proposed use under procedures and powers of the administrative authority. Oral approval by the administrative authority or his duly authorized agents shall constitute full and complete approval irrespective of the ICC International Fuel Gas Code, 2018 Edition for written approval, except under circumstances where the master plumber or master gasfitter specifically request the same be in writing.

Gas company means the utility company supplying gas.

Gas fitting means the work, beginning at the outlet of a meter, of putting together and installing piping systems which are to contain gas, including fixtures, attachments, and appurtenances; and the maintenance, repair and alteration of the systems, fixtures and appliances.

Sec. 5-172. Scope.

The provisions of this article apply to gas fitting from the outlet of a meter up to and including all appliances and their appurtenances.

Secs. 5-173 – 5-180. Reserved.

DIVISION 2. ADMINISTRATION AND ENFORCEMENT

Sec. 5-181. Permits for gas fitting--Required, application.

- (a) No person shall do, or cause to be done, any gas fitting, except as hereinafter otherwise provided, without first obtaining a permit therefor from the administrative authority. Such permit shall be issued to a licensed plumber or licensed gasfitter except as provided elsewhere in this article.

- (b) Application for a permit shall be made in such form as the administrative authority shall prescribe and shall be accompanied by such plans, specifications, or other information as the administrative authority shall require to assure compliance with this article.
- (c) No permit shall be required for adjustments to appliances, replacement of parts and repairing of leaks or of work performed by the gas company on any of its facilities, but such work shall be done only by a person permitted by section 5-203 to do gas fittings, and shall be done in accordance with this article.

Sec. 5-182. Same--Fees.

Fees for permits for gas fitting shall be as established by resolution of the Mayor and Council.

Sec. 5-183. Emergency repairs.

When observation by a person permitted by section 5-203 to do gas fitting discloses the necessity to correct leakage of any portion of the gas company's distribution system within the premises up to and including the meter, such person may make necessary temporary repairs without a permit, but must notify the gas company and the administrative authority immediately upon the completion of such temporary repairs.

Sec. 5-184. Unsafe conditions.

Upon written notice to the owner, or user, by the administrative authority, unsafe gas installations or any parts thereof shall be placed in a safe condition or use be discontinued within the time specified in such notice.

Sec. 5-185. Inspection, testing and approval--Generally.

- (a) No gas piping system, including fixtures, appliances, attachments and appurtenances, which is hereafter installed, altered, or repaired in such manner that a permit is required therefor by this division, shall be put in service until it has been found acceptable by the administrative authority. Such system shall not be found acceptable by the administrative authority until it is tested in accordance with procedures established by the administrative authority to ensure that it is gastight and that all controls, if any, operate properly under normal conditions and unless inspection shows that it complies with all pertinent provisions of this article and any other applicable law, ordinance or regulation.
- (b) The equipment, material and labor necessary for an inspection or test shall be furnished by the person by whom the inspection is requested.

Sec. 5-186. Same--Notice to City.

Where gas fitting is ready for inspection, the person who did such gas fitting or caused it to be done shall request an inspection by the Division of Inspection Services, following the procedure set by the Division for requesting and scheduling inspections.

Sec. 5-187. Same--Fee for additional inspection.

Where an additional inspection under this division is made necessary by failure to complete or properly perform the work inspected, or by failure of work tested to withstand tests, such additional inspection shall not be made until the person requesting such inspection shall pay to the administrative authority the fee established by resolution of the Mayor and Council.

Secs. 5-187 – 5-195. Reserved.**DIVISION 3. TECHNICAL STANDARDS****Sec. 5-196. International Fuel Gas Code, 2018 Edition, and National Fire Protection Association Codes, 51, 54, and 58, --Adopted.**

The International Code Council (ICC) International Fuel Gas Code, 2018 Edition, and National Fire Protection Association (NFPA) Codes NFPA 51, NFPA 54, and NFPA 58, as modified herein, is hereby adopted as the fuel gas code for the City. Additionally, elevated pressure gas systems (two (2) PSIG and above) shall be installed in accordance with the guidelines for Copper Tubing Natural Gas Systems, published by the Washington Gas Light Company. One (1) copy of such publication as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication promulgated by the International Code Council shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-197 Same-Amendments

The ICC International Fuel Gas Code, 2018 Edition (IFGC), is amended in the following respects:

Section 101.1 of the IFGC is amended to read as follows:

101.1 Title. These regulations shall be known as the Fuel Gas Code of the City of Rockville, hereinafter referred to as “this code”.

Section 101.2 of the IFGC is amended to read as follows:

101.2 Scope. This code shall apply to the installation of fuel-gas piping systems, fuel-gas utilization equipment, gaseous hydrogen systems and related accessories in accordance with Sections 101.2.1 through 101.2.5, NFPA 51, NFPA 54 and NFPA 58.

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

Section 102.8.1 of the IFGC is amended to read as follows:

102.8.1 Conflicts. Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of the most restrictive code shall apply.

Section 106.1.1 and 106.1.2 of the IFGC are deleted

Section 106.2 of the IFGC is amended to read as follows;

106.2 Permits not required. Permits shall not be required for the following:

1. Portable heating, cooking or clothes drying appliances.
2. Replacement of any minor component of an *appliance* or *equipment* that does not alter approval of such *appliance* or *equipment* or make such *appliance* or *equipment* unsafe.
3. Portable-fuel-cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

Exemption from the permit requirements of this code shall not be deemed to grant authorization for work to be done in violation of the provisions of this code or of other laws or ordinances of this jurisdiction.

Section 106.3.2 of the IFGC is amended to read as follows:

106.3.2 Time limitation of application. An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the code official shall have the authority to grant one or more extensions, not to exceed 3 extensions, of time for additional periods not exceeding 180 days each. The extension shall be requested in writing and justifiable cause shall be demonstrated.

Section 106.5.3 of the IFGC is amended to read as follows:

106.5.3 Expiration. Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within six (6) months (180 days) after its issuance, or if the work authorized by such permit does not continue to progress or is abandoned for a period of six (6) months (180 days) after the last approved/valid inspection. The last approved/valid inspection shall be an inspection that has been passed. A failed inspection will not count as an approved/valid inspection.

Before such work recommences, a new permit shall be first obtained, and the appropriate fees, per the City's Fee Schedule shall be paid.

Section 106.5.4 of the IFGC is amended to read as follows:

106.5.4 Extensions. The code official can extend the time for action by the permittee if there is reasonable cause. A permittee holding an unexpired permit shall have the right to apply for an extension, in writing, for time to complete such work. The extension shall be requested for a justifiable cause.

Section 106.6.2 of the IFGC is amended as follows:

106.6.2 Fee Schedule: The fees for fuel gas work shall be as established by resolution of the Mayor and Council.

Section 106.6.3 of the IFGC is deleted.

Section 107.2.1.1 is added to the IFGC to read as follows:

107.2.1.1 Soap Test Inspection. If the gas line is less than ten feet (10') in length and has less than four (4) bends or fittings, testing of the joints with soap will be permitted.

Section 109 of the IFGC is amended to read as follows:

109.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section 411.1.4.1 is added to the IFGC to read as follows:

411.1.4.1 Movable appliances with chains. Appliances shall be chained in place to limit movement to within six inches of the length of the flexible connector.

Section 412.1 of the IFGC is amended as follows:

412.1 General. Motor fuel-dispensing facilities for LP-gas fuel shall be in accordance with this section NFPA 58, NFPA 54, NFPA 51 and NFPA 58, shall regulate the operation of LP-gas motor fuel-dispensing facilities.

Secs. 5-198 – 5-200. Reserved.

DIVISION 4. MISCELLANEOUS REQUIREMENTS

Sec. 5-201. Reserved.

Sec. 5-202. Work done by gas company.

Only duly authorized representatives of the gas company shall install, repair or open a gas main, service pipe or service extension; or set, remove or change the location of a gas meter, or do any work on any part of its distribution system up to and including the meter, except as provided in sections 5-183 and 5-185.

Sec. 5-203. License required; gasfitting work by unqualified person declared misdemeanor.

- (a) No person shall engage in the business of gasfitting in the City unless licensed as a master plumber or gasfitter under the provisions of this division or employed as a qualified mechanic of the gas company.
- (b) No person shall engage in the business of gasfitting unless the work performed in the course of such business is under the direct supervision of a licensed master plumber or licensed gasfitter.
- (c) Any person who shall perform any gasfitting work within the City which is not by or under the supervision of a licensee as provided in this section or otherwise qualified pursuant to section 5-241 shall be guilty of a misdemeanor.

Sec. 5-204. Qualifications; examinations.

- (a) The administrative authority shall establish standards and procedures for the qualifications, and licensing of gasfitters. The administrative authority shall issue an appropriate license to each person who meets the qualifications thereof. The administrative authority shall keep an official record of all licenses issued.
- (b) The administrative authority shall issue a gasfitter's license when an applicant presents a valid license issued by the State of Maryland Plumbing License Board, or a valid gasfitter's license issued by the Washington Suburban Sanitary Commission.
- (c) No license shall be granted to any person under the age of twenty-one (21) years.
- (d) The examination fee shall be as set by the agency approved by the administrative authority to give the examination.

Sec. 5-205. Fee.

A license shall be issued under this division to qualified applicants only upon payment of a fee in the amount established by resolution of the Mayor and Council.

Sec. 5-206. Term.

Licenses required by this division shall expire at the end of even-numbered calendar years.

Sec. 5-207. Bond.

A person who has been issued a gasfitter's license shall execute and deposit with the administrative authority a bond in the sum of five thousand dollars (\$5,000.00), or certificate of insurance with a minimum of three hundred thousand dollars (\$300,000.00) personal injury coverage and one hundred thousand dollars (\$100,000.00) property damage coverage. Such bond shall be conditioned that all gasfitting work performed by the licensee or under his supervision shall be performed in accordance with this article and that he will pay all fines and penalties properly imposed upon him for violation of the provisions of this article. A gasfitter's license shall not be valid unless a bond is executed and deposited as herein provided or specified insurance certificate presented. Individuals who hold a valid Maryland State Master Plumber's license are exempt from bond or insurance requirements.

Sec. 5-208. Use of licensee's name by another; change of address. etc.

No person who has obtained a gasfitter's license shall allow his name to be used by another person either for the purpose of obtaining permits, or for doing business or work under the license. Every person licensed shall notify the administrative authority of the address of his place of business, if any, and the name under which such business is carried on and shall give immediate notice to the administrative authority of any change in either.

Secs. 5-209 – 5-215. Reserved.

SECTION 10. That Article X, “Mechanical Code”, is hereby amended as follows:

ARTICLE X. MECHANICAL CODE

DIVISION 1. GENERALLY

Sec. 5-216. Scope.

This article shall govern the design and installation of mechanical systems, including heating systems, process piping, boilers and pressure vessels, appliances utilizing gas, liquid or solid fuel, chimneys and vents, mechanical refrigeration systems, fireplaces, barbecues, incinerators, crematories, fire protection systems, and air pollution control systems.

Secs. 5-217 – 5-220. Reserved.

DIVISION 2. ADMINISTRATION AND ENFORCEMENT

Sec. 5-221. International Mechanical Code--Adopted.

The International Code Council (ICC) International Mechanical Code, 2018 Edition, as modified herein, is hereby adopted as the mechanical code for the City. One (1) copy of such publication as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication hereafter promulgated by the International Code Council shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-222. Same--Amendments.

The ICC International Mechanical Code, 2018 Edition (IMC), is amended in the following respects:

Section 101.1 of the IMC is amended to read as follows:

101.1 Title. These regulations shall be known as the Mechanical Code of the City of Rockville , hereinafter referred to as “this code”.

Section 102.8.1 of the IMC is amended to read as follows:

102.8.1 Conflicts. Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of the most restrictive code shall apply.

Section 106.1 of the IMC is amended to read as follows:

106.1 When required. An owner, authorized agent or contractor who desires to erect, install, enlarge, alter, repair, remove, convert or replace a mechanical system, the installation of which is regulated by this code, or to cause such work to be done, shall first make application to the code official and obtain the required permit for the work. Such permit shall be issued to an HVACR contractor, licensed by the State of Maryland for the type of work covered under the permit.

Exception: Where equipment and appliance replacements or repairs must be performed in an emergency, the permit application shall be submitted within the next working business day of the department of mechanical inspection.

Sections 106.1.1 and 106.1.2 of the IMC are deleted in their entirety.

Section 106.2 of the IMC is amended to read as follows:

106.2 Permits not required. Permits shall not be required for the following:

1. Portable heating appliances connected to fixed tanks up to 500 gallons;
2. Portable ventilation appliances and equipment;
3. Portable cooling units;
4. Steam, hot water or chilled water piping within any heating or cooling equipment or appliances regulated by this code;
5. The replacement of any minor part that does not alter the approval of equipment or an appliance or make such equipment or appliance unsafe; and
6. Portable evaporative coolers.

Exemption: from the permit requirements of this code shall not be deemed to grant authorization for work to be done in violation of the provisions of this code or other laws or ordinances of this jurisdiction.

Sections 106.4.3 of the IMC is amended to read as follows:

106.4.3 Expiration.

Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within six (6) months (180 days) after its issuance, or if the work authorized by such permit does not continue to progress or is abandoned for a period of six (6) months (180 days) after the last approved/valid inspection. The last approved/valid inspection shall be an inspection that has been passed. A failed inspection will not count as an approved/valid inspection.

Before such work recommences, a new permit shall be first obtained, and the appropriate fees, per the City's Fee Schedule shall be paid.

Section 106.4.4 of the IMC is amended to read as follows:

106.4.4 Extensions. The code official can extend the time for action by the permittee if there is reasonable cause. A permittee holding an unexpired permit shall have the right to apply for an

extension, in writing, for time to complete such work. The extension shall be requested for a justifiable cause.

Sections 106.5.1 and 106.5.2 of the IMC are amended to read as follows:

106.5.1 Work commencing before permit issuance. Any person who commences work on a mechanical system, except as provided for in Section 106.1, before obtaining the necessary permits shall be subject to, an investigation fee as set forth by resolution, and 100 percent of the usual permit fee.

106.5.2 Fee Schedule. The fees for mechanical work shall be as established by resolution of the Mayor and Council.

Section 106.5.3 of the IMC is deleted in its entirety.

Sections 108.4 and 108.5 of the IMC are amended to read as follows:

108.4 Violation penalties. Persons 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 mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a municipal infraction Each day that a violation continues after notice has been served shall be deemed a separate offense.

108.5 Stop work orders. Upon notice from the code official that mechanical work is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be verbal or 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 on the system 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 for a fine as established by resolution of the Mayor and Council.

Section 109 of the IMC is amended to read as follows:

109.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section 303.3 of the IMC is amended by adding No. 6 and No. 7 to read as follows:

6. Under stairs.
7. Garages, repair garages or similar spaces.

Section 506.1 of the IMC is amended to read as follows:

506.1 General. Commercial kitchen hood ventilation ducts and exhaust equipment shall comply with the requirements of this section and the requirements of the 2014 NFPA 96. Commercial kitchen grease ducts shall be designed for the type of cooking appliance and hood served.

506.1.1 Placards for Kitchen Exhaust Extinguishing Systems. Placards installed for the operating instructions of kitchen exhaust hood-extinguishing systems shall have bilingual language provided. The main language shall be English with a secondary language representative of the work force of the restaurant.

Section 507.2.1 of the IMC is amended to read as follows:

507.2.1 Type I hoods. Type I hoods shall be installed where cooking appliances produce grease or smoke, such as occurs with griddles, fryers, broilers, ovens, ranges and wok ranges. Installation and maintenance of commercial kitchen Type I hoods shall be governed by this code and the 2014 NFPA-96, Standard for Ventilation Control and Fire Protection of Commercial Operations, 2014 Edition.

Exceptions: Shall remain per the code.

Section 603.18.3 is added to the IMC to read as follows:

603.18.3 Diffusers in suspended ceilings. Diffusers in suspended ceilings shall be adequately supported independent of the ceiling assembly and tied at opposite ends to the building structure with #12 wire or equivalent.

Secs. 5-223—5-230. -Reserved.

SECTION 11. That Article XI, “Plumbing Code”, is hereby amended as follows:

ARTICLE XI. PLUMBING CODE

DIVISION 1. GENERALLY

Sec. 5-231. Definitions.

Except as set forth below and in Section 5-68, the terms used in this article shall have the same definitions as in the International Code Council (ICC) International Plumbing Code, 2018 Edition.

Approved means accepted or acceptable under an applicable specification stated or cited in this code and/or the ICC International Plumbing Code, 2018 Edition, as issued by the International Code Council, Inc., or accepted as suitable for the proposed use under the procedures and powers of the administrative authority. Oral approval by the administrative authority or his duly authorized agents shall constitute full and complete approval irrespective of the requirements of the ICC International Plumbing Code, 2018 Edition, for written approval except those circumstances wherein the master plumber shall specifically request the same in writing.

Existing work means a plumbing system or any part thereof, which has been lawfully installed prior to the adoption of this ordinance.

Plumbing official means the Chief of the Division of Inspection Services.

Sec. 5-232. Scope.

The provisions of this article shall apply to and govern plumbing as defined in this article including the practice, materials, and fixtures used in the installation, maintenance, extension, and alteration of all piping, fixtures, appliances, and appurtenances in connection with any of the following: Sanitary drainage or storm drainage facilities, the venting system, and the public or private water supply systems, within or adjacent to any building or other structure, or conveyance, also the practice and material used in the installation, maintenance, extension, or alteration of the storm water or sewage system of any premises to their connection with any point of public disposal or other terminal.

Secs. 5-233 – 5-240. Reserved.

DIVISION 2. ADMINISTRATION AND ENFORCEMENT**Sec. 5-241. Plumbing permit.**

- (a) No plumbing work shall be undertaken prior to the issuance of a permit therefor by the administrative authority. Such permit shall be issued to a licensed master plumber, except as provided otherwise in this article. Repairs involving only the working parts of a faucet or valve, clearance of stoppages, repairing of leaks, or replacement of defective faucets or valves may be made without a permit provided no changes are made in the piping to the fixtures.
- (b) Any permit required by this section may be issued to any person to do any work regulated by this article in a single-family dwelling used exclusively for living purpose, including the usual accessory buildings and quarters in connection with such building, provided the person is the bona fide owner of such dwelling and that the same will be occupied by the owner and that the owner shall personally purchase all material and perform all labor in connection therewith.
- (c) Application for a permit shall be made on suitable form provided by the administrative authority. The application shall be accompanied by the payment of fees in the amount established by resolution of the Mayor and Council.
- (d) No permit shall be issued until plans and specifications showing the proposed work in necessary detail have been submitted to the administrative authority and it has been determined from examination of such plans and specifications that they give assurance that the work will be conformed to the provisions of this article. If a permit is denied, the applicant may submit revised plans and specifications without payment of additional fees.
- (e) If, in the course of the work it is found necessary to make any change from the plans and specifications on which a permit has been issued, amended plans and specifications shall be submitted and a supplement permit, subject to the same conditions applicable to the original application for permit, shall be issued to cover the change. Any additional permit fees for the change in work must be paid prior to permit issuance.

Sec. 5-242. Certificates of approval.

Certificates of approval issued upon the satisfactory completion and testing of a plumbing system(s) shall be in writing.

Sec. 5-243. Inspections and tests.

- (a) It shall be the duty of the administrative authority to make the inspections and tests required by this article. The master plumber or his representative shall request inspections and tests following the Division's established procedure for inspection scheduling.
- (b) Nothing in this article shall be construed to require actual testing of facilities when in the judgment of the administrative authority such testing is unnecessary. No testing deemed necessary by the administrative authority shall be prohibited. In the case of discretionary action in determinations of the administrative authority under the provisions of this article, the relevant facts shall be considered, and determinations made in the exercise of reasonable discretion and all such determinations shall be final in the absence of abuse of discretion.

- (c) Where an additional inspection under this division is made necessary by failure to complete or properly perform the work inspected, or by failure of work tested to withstand tests, such additional inspection shall not be made until the person requesting such inspection shall pay to the administrative authority the fee established by the resolution of the Mayor and Council.

Sec. 5-244. Rules for protection of water supply system authorized.

The administrative authority shall make such rules and regulations in furtherance of the purposes of this article and not inconsistent with the provisions of this administrative authority, for the installation, repair or alteration of air conditioning systems, water treatment equipment, and water-operated devices as may be deemed necessary to properly protect the water supply system.

Secs. 5-245 – 5-250. Reserved.

DIVISION 3. TECHNICAL STANDARDS

Sec. 5-251. International Plumbing Code--Adopted.

The International Code Council (ICC) International Plumbing Code, 2018 Edition, as modified herein, is hereby adopted as the plumbing code for the City. One (1) copy of such publication, as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication promulgated by the International Code Council shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-252. Same--Amendments.

The ICC International Plumbing Code, 2018 Edition (IPC), is amended in the following respects:

Section 101.1 of the IPC is amended to read as follows:

101.1 Title. These regulations shall be known as the *Plumbing Code of the City of Rockville*, hereinafter referred to as “this code”.

Section 103.1 of the IPC is deleted in its entirety.

Section 106.1.1 and 106.1.2 of the IPC are deleted.

Section 106.2 of the IPC is amended to read as follows:

106.2 Exempt work. The following work shall be exempt from the requirement for a permit:

1. The stopping of leaks in drains, water, soil, waste or vent pipe provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided that such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

Exemption from the permit requirements of this code shall not be deemed to grant authorization for any work to be done in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

Section 106.3 of the IPC is amended to read as follows:

106.3 Application for permit. Each application for a permit, with the required fee, shall be filed with the code official on a form furnished for that purpose and shall contain a general description of the proposed work. The application shall be signed by the City licensed Master Plumber or if residential work that the International Residential Code allows the homeowner to do, the homeowner can sign the application.

Section 106.3.1.1 is added to the IPC to read as follows:

106.3.1.1 Water Meter Sizing. The code official shall determine meter size, type, and metering schemes for all properties within the lot line. In general, water meters shall be right-sized based on plumbing hydraulic load, in accordance with IPC Section 604 and Appendix E. Oversized meters shall be prohibited, unless authorized by the Director of Public Works.

Section 106.5.1 of the IPC is amended to read as follows:

106.5.1 Reviewed construction documents. When the code official issues the permit where construction documents are required, the construction documents shall be endorsed in writing and stamped "REVIEWED." Such reviewed construction documents shall not be changed, modified or altered without authorization from the code official. All work shall be done in accordance with the reviewed construction documents.

Sections 106.5.3 of the IPC is amended to read as follows:

106.5.3 Expiration.

Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within six (6) months (180 days) after its issuance, or if the work authorized by such permit does not continue to progress or is abandoned for a period of six (6) months (180 days)

after the last approved/valid inspection. The last approved/valid inspection shall be an inspection that has been passed. A failed inspection will not count as an approved/valid inspection.

Before such work recommences, a new permit shall be first obtained, and the appropriate fees, per the City's Fee Schedule shall be paid.

Exception: Water and Sewer Contribution fees will not need to be repaid.

Section 106.5.4 of the IPC is amended to read as follows:

106.5.4 Extensions. The code official can extend the time for action by the permittee if there is reasonable cause. A permittee holding an unexpired permit shall have the right to apply for an extension, in writing, for time to complete such work. The extension shall be requested for a justifiable cause.

Sections 106.6, 106.6.1 and 106.6.2 of the IPC are amended to read as follows:

106.6 Fees. A permit shall not be issued until the fees prescribed in Section 106.6.2 have been paid.

106.6.1 Work commencing before permit issuance. Any person who commences any work on a plumbing system before obtaining the necessary permits shall be subject to 100 percent of the usual permit fee in addition to the investigation fees established by resolution of the Mayor and Council.

106.6.2 Fee schedule. The fees for all plumbing work shall be established by resolution of the Mayor and Council.

Sections 107.2.4, 107.2.5.1, and 107.2.5.2 of the IPC are deleted.

Section 108.4 of the IPC is amended to read as follows:

108.4 Violation penalties. Any persons 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 code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a municipal infraction. Each day that a violation continues after notice has been served shall be deemed a separate offense.

Section 109 of the IPC is amended to read as follows:

109.1 Board of Adjustments and Appeals. Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section 202 of the IPC is amended by deleting the definition "Individual sewage disposal system", and adding the following:

LOW LEAD CONTENT. Low lead content means:

- (1) Containing not more than 0.2% lead for solder and flux;
- (2) Containing not more than 8% lead by dry weight for pipes and pipe fittings;
- (3) Containing a percentage of lead for plumbing fittings and fixtures that is in compliance with standards established under Section 1417 of the federal Safe Drinking Water Act (42 USC Section 300g-6); and
- (4) Containing not more than a weighted average lead content of 0.25% for the wetted surfaces of a pipe, pipe fitting, plumbing fitting, or fixture intended to dispense water for human consumption through drinking or cooking; or
- (5) Meeting NSF standards 372 and 61-Annex G.

Sections 305.4 and 305.4.1 of the IPC are amended to read as follows:

305.4 Freezing. Water, soil and waste pipes shall not be installed outside of a building, in attics or crawl spaces, concealed in outside walls, or in any other place subjected to freezing temperature unless adequate provision is made to protect such pipes from freezing by insulation or heat or both. Exterior water supply system piping shall be installed two (2) feet, six (6) inches below grade.

305.4.1 Sewer depth. Building sewers shall be a minimum of two (2) feet two (2) inches (2' 2") below grade.

Section 312.11 is added to the IPC to read as follows:

312.11 Grease and Oil Interceptors. All establishments, which are required to have grease or oil interceptors, must maintain a log indicating frequency of waste retrieval by an appropriate contractor. The log and a copy of the waste removal contract must be available at all times for inspection by the administrative authority. A certified waste removal/pumping contractor must perform the pumping and scraping of a vault that is 300 or more gallons in size.

Sections 404.1 and 404.2 of the IPC are amended to read as follows:

404.1 Where required. Accessible plumbing facilities and fixtures shall be provided in accordance with the State of Maryland's Accessibility Code (COMAR 09.12.53)

404.2 Accessible fixture requirements. Accessible plumbing fixtures shall be installed with the clearances, heights, spacing and arrangements in accordance with the State of Maryland's Accessibility Code (COMAR 09.12.53)

Section 413.2.1 is added to the IPC to read as follows:

413.2.1 Grease interceptor required. Floor drains located within a ten (10) foot diameter of grease producing equipment shall discharge through a grease interceptor.

Exception: Floor drains located inside walk in coolers.

Section 413.5 is added to the IPC to read as follows:

Section 413.5 Fire Pump Room Floor Drains. Each fire pump room shall be provided with a minimum of two floor drains located near the fire pump. Each floor drain shall have a minimum of 4 inch diameter opening. One floor drain shall be dedicated to the main floor drain from the pump discharge piping and the second floor drain opening shall serve the accessory drain piping from the fire pump.

Section 501.4.1 is added to the IPC to read as follows:

501.4.1 Prohibited location. Fuel-fired water heaters shall not be installed in a sleeping room, bathroom, under stairs, or in a closet accessed through a sleeping room or bathroom.

Exception: A sealed combustion chamber or direct vent water heater may be installed in those locations.

Section 603.1 of the IPC is amended to read as follows:

603.1 Size of yard line pipe. The yard line pipe shall be sized to supply water to the structure in the quantities and at the pressure required by this code. The minimum diameter of yard line pipe shall be one (1) inch.

Exception: Repairs can be done in the existing pipe size as long as ~~water service~~ yard line pipe is not completely replaced.

Table 604.4 of the IPC is amended to read as follows:

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
Lavatory, private	1.5 gpm at 60psi
Lavatory, public, (metering)	0.25 gallon per metering cycle
Lavatory, public (other than metering)	0.5 gpm at 60 psi
Shower head ^a	2.0 gpm at 80psi
Sink faucet	1.5 gpm at 60 psi
Urinal	0.5 gallon per flushing cycle
Water closet (tank type) ^c	1.28 gallons per flushing cycle
Water closet (flushometer)	1.6 gallons per flushing cycle

For SI: 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.
- b. Consumption tolerances shall be determined from referenced standards.
- c. Dual Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME A112.19.14.

Section 605.3 of the IPC is amended to read as follows:

605.3 Water service pipe. Water service pipe shall conform to NSF61 and the requirements of section 5-253(6) of the Rockville City Code. All water service pipe installed underground and outside of the structure, shall have a minimum working pressure rating of 160 psi (1100 kPa) at 73.4° F (23° C). Where the water pressure exceeds 160 psi (1100 kPa), 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/A21.4.

Section 606.2 of the IPC is amended 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 each plumbing fixture.
2. On the water supply pipe to each sillcock.
3. On the water supply pipe to each appliance or mechanical equipment.

Section 607.3 of the IPC is amended to read as follows:

607.3 Thermal expansion control. Where a storage water heater is supplied with cold water that passes through a check valve, pressure reducing valve or backflow preventer, a thermal expansion control device shall be connected to the water heater cold water supply pipe at a point that is downstream of all check valves, pressure reducing valves and backflow preventers. Thermal expansion tanks shall be sized in accordance with the tank manufacturer's instructions and shall be sized such that the pressure in the water distribution system shall not exceed that required by Section 604.8. If the existing water heater is not equipped with an expansion tank, one must be added at the time of replacement.

Section 608.17.4 of the IPC is amended by deleting Exception No. 1.

Section 701.8 is added to the IPC to read as follows:

701.8 Marking of grease interceptor lines. No plumbing fixtures shall be connected to a dedicated plumbing line routed to the grease interceptor. These lines shall be labeled "Grease Line" in a minimum two inch (2") high letters spaced a minimum of four feet (4') apart.

Section 708.2 of the IPC is amended to read as follows:

708.2 Cleanout plugs. Cleanout plugs shall be of brass, and shall have countersunk square heads. Cleanout plugs with borosilicate glass systems shall be of borosilicate glass.

Section 714.1 of the IPC is amended to read as follows:

714.1 Sewage backflow. Where plumbing fixtures are installed on a floor and adding a new bathroom fixtures or bathroom group to a residential basement with a finished floor elevation below the elevation of the manhole cover of the next upstream manhole in the public *sewer*, such fixtures shall be protected by a backwater valve installed in the *building drain*, or horizontal *branch* serving such fixtures. Plumbing fixtures installed on a floor with a finished floor elevation above the elevation of the manhole cover of the next upstream manhole in the public *sewer* shall not discharge through a backwater valve.

Exception: In existing buildings, fixtures above the elevation of the manhole cover of the next upstream manhole in the public *sewer* shall not be prohibited from discharging through a backwater valve.

Section 802.3 of the IPC is amended to read as follows:

802.3 Installation. Indirect waste piping shall not be less than one (1) inch in diameter. All indirect waste piping shall discharge through an air gap or air break into a waste receptor or standpipe. Waste receptors and standpipes shall be trapped and vented and shall connect to the building drainage system. All indirect waste piping that exceeds 2 feet (610 mm) in developed length measured horizontally, or 4 feet (1219 mm) in total developed length, shall be trapped.

Exception: See chart 1003.a (a) Flow Rates for Various Drain Tail Piece Sizes, for grease interceptors.

Section 918.2 of the IPC is amended to read as follows:

918.2 Installation. The valves shall be installed in accordance with the requirements of this section and the manufacturer's instructions.

Section 918.3 of the IPC is amended to read as follows:

918.3 Where permitted. Air admittance valves shall be prohibited in all uses other than as allowed in ASSE 1050 and ASSE 1051

Section 918.4 of the IPC is deleted in its entirety

Section 918.8 of the IPC is amended to read as follows:

918.8 Prohibited installations. Air admittance valves shall not be installed in nonnaturalized special waste systems as described in Chapter 8.

Section 1003 is deleted in its entirety, and replaced to read as follows:

SECTION 1003

INTERCEPTORS AND SEPARATORS

1003.1 Grease Abatement Systems - General. Grease abatement systems shall be provided to prevent the discharge of Fats, Oil, Grease (FOG), and other substances harmful or hazardous to the building drainage system, the public sewer, the private sewage disposal system or the sewage treatment plant or processes. This system shall be installed in accordance with the City's Water Quality Ordinance, Section 23.5-23 Food Service Establishments.

1003.1.1 Applicability. The regulations in this Section shall apply to establishments where food is served to or provided for the public, with or without charge, including, but not limited to restaurants, cafeterias, hotel kitchens, church kitchens, school kitchens, hospital cafeterias, bars, or any other commercial operation that has the potential to discharge grease laden wastewater; hereafter referred to as Food Service Establishments (FSE).

1003.1.2 Definitions

1003.1.2.1 Grease Abatement System: Any grease interceptor, grease trap, grease recovery device, or any treatment system designed to remove Fats, Oils and Grease (FOG) from FSE wastewater, with two general subcategories as follows:

1003.1.2.2 Volume-Based Grease Interceptor: Grease interceptor design based on volume and retention time with no specific requirement for upstream sink tail piece flow restrictions or a flow control device. Sizing is based on the number of drainage fixture units connected to the grease interceptor. Minimum size = 300 gallons. Typically - installed outdoors and underground. Typically - cleaned by pumping contractors. Sometimes - referred to as a gravity grease interceptor or outdoor grease interceptor.

1003.1.2.3 Flow-Based Grease Interceptor: Grease interceptor design based on flow rate with a specific requirement for upstream sink tailpiece flow restriction (for indirectly connected fixtures) and a flow control device. Solids screens or strainers with a maximum screen size of 1/8" perforations must be provided to capture the solids discharge from dish/pot washing sinks and floor sinks to avoid overloading the grease interceptor with solids. Sizing is based on the reasonable maximum flow anticipated from the fixtures connected to the grease interceptor based on the WSSC Tail Piece Flow Rate Table (new) for indirect connections, and IPC Chapter 10/ASME A112.14.3 for direct connections. Minimum size = 7 gallons per minute. Flow-based grease interceptors shall conform to ASME A112.14.3 or ASME A112.14.4 at the calculated flow rate. The following flow-based grease interceptors are differentiated based on whether or not there are mechanical grease removal features:

1003.1.2.3.1. Passive Flow Based Grease Interceptor: Grease interceptor design with no mechanical grease removal features. Typically -installed indoors under a sink or outdoors in-ground. Cleaned by the FSE or pumping contractors. Sometimes referred to as a hydro-mechanical grease interceptor (when designed and installed with a flow control device with air intake) or a grease trap (when designed and installed with a flow control device without air intake).

1003.1.2.3.2. Mechanical Flow Based Grease Interceptor: Grease interceptor design with mechanical grease removal features. Typically - installed indoors under a sink. Cleaned and maintained by the FSE, contractors, or specialty maintenance contractors. Sometimes - referred to as a grease removal (or recovery) device.

1003.2 Where Required.

1003.2.1 Grease abatement system required. A grease abatement system shall be required to receive the drainage from fixtures and equipment with potential grease-laden waste. Fixtures and equipment shall include, but not be limited to: pot sinks; pre-rinse sinks; soup kettles or similar devices; fresh meat cutting and prepping; wok stations; floor drains; floor sinks; automatic hood wash units; and dishwashers.

1003.2.2 Flow Based Grease Interceptors. Flow Based Grease Interceptors shall receive waste only from fixtures and equipment that allow fats, oils or grease to be discharged.

1003.2.3 Volume Based Grease Interceptors. Volume Based Grease Interceptors shall receive the discharge of the entire kitchen and shall be sized accordingly.

Exception: Waste from sinks or fixtures with permitted food waste disposers shall discharge directly to the sanitary drainage system.

1003.2.4 Responsibility. Property owners of commercial properties, or their official designee(s), shall be responsible for the installation and maintenance of grease abatement systems serving multiple Food Service Establishments that are located on a single parcel.

1003.3 Where Not Required - Conditional Variance (Existing FSEs Only).

1003.3.1 Conditional Variance. At the request of the FSE, the Code Official may grant a conditional variance of the grease abatement system requirements if, in the judgment of the Code Official, there is limited potential for FOG in the discharge when considering, including but not limited to, the frequency of operation, the miscibility of the discharge, the volume of flow and the potential for fats, oils and grease discharge based upon the menu.

1003.3.1.2 Revocation. The conditional variance can be revoked due to an actual blockage or sanitary sewer overflow attributed to the FSEs FOG discharge.

1003.3.1.3 Additional requirements. This conditional variance applies to the requirement to install a grease abatement system only. FSEs granted this variance may still be subject to regular inspections.

1003.4 Prohibited Connections

1003.4.1 Human waste. Waste from bathrooms or similar fixtures conveying human waste shall connect directly to the building sanitary drain and shall not connect through any grease abatement system.

1003.4.2 Signage required. Where fixtures not generally subject to grease, such as fruit and vegetable washing sinks, connect to the regular building drain, a permanent engraved sign shall be posted at such sinks indicating their limited use. (Example: “VEGETABLE WASHING ONLY” or “NO GREASE”).

1003.4.3 Food Waste Disposers. Food Waste Disposers shall not be installed on any fixture that requires grease abatement.

1003.4.4 Pumps. All grease abatement systems shall receive only stabilized flow from gravity-flow grease waste collection systems and shall not receive pressurized discharge such as from sewage pumps or lift stations. Where pumping is required, grease must be separated prior to the lift station.

1003.5 Flow Based Grease

1003.5.1 General

1003.5.1.1 Approval. The location, size and piping details shall require plan approval prior to installation.

1003.5.1.2 Specifications. Flow-based grease interceptors shall conform to ASME A112.14.3 and/or ASME A112.14.4 and shall be installed in accordance with manufacturer's specifications.

1003.5.1.3 Flow-control device. The manufacturer required flow control device shall be installed, sized to match the interceptors flow rate, and shall be readily accessible for inspection, cleaning and maintenance. The flow-control device shall be vented and terminate not less than 6 inches (152 mm) above the flood rim level or be installed in accordance with the manufacturer's instructions.

1003.5.1.4 Solids screening. Solids screens or strainers with a maximum of 1/8" perforations shall be provided to capture the solids discharge from dish/pot washing sinks and floor sinks to minimize the solids loading on flow-based grease interceptors.

1003.5.2 Location And Installation

1003.5.2.1 Location. Flow-based grease interceptors shall be installed below grade, direct buried, where listed for such application or within a vault; or indoors within a conditioned space; or in accordance with manufacturer's requirements. Mechanical flow-based interceptors shall not be installed in a vault.

1003.5.2.2 Access. Flow-based grease interceptors shall be readily accessible for daily maintenance, servicing and inspection.

1003.5.2.3 Headroom. Headroom above flow-based grease interceptors as well as solid sediment strainers shall be sufficient to fully open lid and easily remove internal components.

1003.5.2.4 Flow control device. The flow control device shall be accessible for maintenance.

1003.5.3 Sizing

1003.5.3.1 Directly Connected Fixtures. For sinks, fixtures and drains directly connected to a flow-based grease interceptor (no requirement for an air gap), flow-based grease interceptor sizing shall be determined pursuant to IPC 1003.3.4, and shall conform to ASME A112.14.3.

1003.5.3.2 Indirectly Connected Fixtures. For sinks, fixtures and drains indirectly connected to a flow-based grease interceptor (air gap required), a restricted flow tail piece is required and the flow-based grease interceptor shall be sized utilizing Table 1003.a and Table 1003.b.

1003.5.3.3 Single indirectly connected fixture flow rate. For a single indirectly connected fixture served by a flow-based grease interceptor, the full tail piece flow rate from Table 1003.a shall be used.

1003.5.3.4 Multiple indirectly connected fixtures flow rates. For multiple indirectly connected fixtures served by a single flow-based grease interceptor, fixtures with the highest flow rates shall be considered first, with the full tail piece flow rates for the two highest flow fixtures/drains, 1/2 of the tail piece flow rates for the next two highest flowing fixture/drains, and 1/4 of the tail piece flow rates for each subsequent fixtures/drains shall be used (see Table 1003.b below).

1003.5.3.5 Combination flow rates. Flow-based grease interceptors serving both indirectly and directly connected sinks, fixtures and/or drains shall be sized based on a proper combination of the methods listed above.

Table 1003.a

Flow Rates for Various Drain Tail Piece Sizes

Tail Piece Diameter	Flow Rate
1/2" ^a	7 gpm
3/4" ^a	12 gpm
1"	20 gpm
1-1/4"	30 gpm
1-1/2"	40 gpm
2"	65 gpm

a. If used the pipe cannot have any 90-degree fittings

Table 1003.b

Multiple Indirect Connection Flow Factor Table

Fixture/Drain #1	Full Tail Piece Flow Rate
Fixture/Drain #2	Full Tail Piece Flow Rate
Fixture/Drain #3	1/2 Tail Piece Flow Rate
Fixture/Drain #4	1/2 Tail Piece Flow Rate
All additional Fixtures/Drains	1/4 Tail Piece Flow Rate

Note: Each tub/basin of multi-compartment sinks shall be counted as individual fixtures.

1003.6 Volume Based Grease Interceptors

1003.6.1 General

1003.6.1.1 Volume-Based Grease interceptors. Volume-Based Grease interceptors shall be designed and installed in accordance with current details per Appendix F.

1003.6.1.2 Approval. The location, size and piping details shall require plan approval prior to installation.

1003.6.1.3 Specifications. Precast Concrete interceptors shall conform to the structural requirements contained in ASTM 1613 Standard Specification for Precast Concrete Interceptor Tanks

1003.6.2. Location

1003.6.2.1 In general. In general, volume-based grease interceptors shall be located below grade outdoors or indoors; or above grade indoors where listed for such applications and within a conditioned space.

1003.6.2.2 Access. Volume-based grease interceptors shall be readily accessible for daily maintenance, servicing and inspection.

1003.6.2.3 Manholes and cleanouts. Manholes and cleanouts shall be readily accessible for convenient inspection and maintenance.

1003.6.2.4 Kept clear of structures. No structures shall be placed directly upon or over the interceptor.

1003.6.2.5 Indoor installation. Where an outdoor location is not possible or is impractical, volume-based interceptors may be installed indoors within twenty (20) feet of an accessible service entrance, unless otherwise approved.

1003.6.2.6 Depth. All volume based interceptors shall be installed at a maximum depth of twelve (12) feet; measured from the bottom of the tank to the highest manhole rim elevation. In addition, the maximum elevation difference between the tank bottom and the pavement (where the hauler will be parked during service), shall be twenty (20) feet.

1003.6.3 Sizing. The volume of the interceptor shall be determined by using table 1003.c. If the drainage fixture units (DFUs) are not known, the interceptor shall be sized based on the maximum DFUs allowed for the pipe size connected to the inlet of the interceptor.

Table 1003.c
Volume-Based Grease Interceptor Sizing
 (from 2006 Uniform Plumbing Code Table 10-3)

DFUs ¹	Interceptor Volume
8	500 gallons
21	750 gallons
35	1,000 gallons
90	1,250 gallons
172	1,500 gallons
216	2,000 gallons
307	2,500 gallons
342	3,000 gallons
428	4,000 gallons
576	5,000 gallons
720	7,500 gallons
2,112	10,000 gallons
2,640	15,000 gallons

Notes:

1. The maximum allowable DFUs plumbed to the kitchen drain lines that will be connected to the grease interceptor.

1003.7 Scale trap seafood prep sinks. Seafood prep sinks shall discharge through a local scale separator prior to entering any portion of the drainage system or grease abatement system.

1003.8 Oil & Sand Separators Required

1003.8.1 General. All oil and sand interceptor details shall be approved in writing prior to installation and shall meet industrial waste discharge limitations.

1003.8.2 Size. Oil and sand interceptor size shall be determined by application as follows:

- Small Interceptor - 64 cu. ft.
- Large Interceptor - 216 cu. ft.

1003.8.2.1 Engineered Sizing. Manufactured mechanical separators or separators utilizing other means of abatement shall be submitted as an engineer's design. Plan submittal shall include calculations, manufacturer's guidelines, and engineer's seal and signature. This is subject to Code Official's review and approval.

1003.8.3 Parking Garages. Parking garages not open to the outdoors and protected from surface and storm water run-off may have inside floor and trough drains connected to the sanitary sewer through an interceptor. Parking garages without wash down facilities may be served by a small interceptor; those with wash down facilities shall be served by a large interceptor.

1003.8.4 Vehicle Washing Establishments. All vehicle washing facilities shall have required drains connected to the sanitary drainage system through a large interceptor.

1003.8.5 Vehicle Service Stations. Vehicle service stations, maintenance, and service garages, etc., shall have all required inside floor and trough drains connected to the sanitary drainage system through an interceptor.

- a. Up to four (4) bays may be served by a small interceptor. Up to sixteen (16) bays may be served by a large interceptor.
- b. No more than one (1) business shall be served by an interceptor.
- c. Facilities providing vehicle lubrication service shall be supplemented by a manufactured oil separator with a used oil holding tank.

1003.9 Laundries. Laundry facilities not installed within an individual dwelling unit or intended for individual family use shall be equipped with an interceptor with a wire basket or similar device, removable for cleaning, that prevents passage into the drainage system of solids 0.5 in (12.7 mm) or larger in size, string, rags, buttons or other materials detrimental to the public sewage system.

1003.10 Bottling Establishments. Bottling plants shall discharge process wastes into an interceptor that will provide for the separation of broken glass or other solids before discharging waste into the sanitary sewer system.

1003.11 Venting of interceptors and separators. Interceptors and separators shall be designed so as not to become air bound where tight covers are utilized. Each interceptor or separator shall be vented where subject to a loss of trap seal.

1003.12 Access and maintenance of interceptors and separators. Access shall be provided to each interceptor and separator for service and maintenance. Interceptors and separators shall be maintained by periodic removal of accumulated grease, scum, oil, or other floating substances and solids deposited in the interceptor or separator.

Appendix E Sizing of Water Piping System of the IPC is adopted in its entirety.

Appendix F is added to the IPC to incorporate *The Washington Suburban Sanitary Commission (WSSC) Manual of Standards*.

Appendix G is added to the IPC to incorporate *The City of Rockville standards for Identifications of Storm and Sanitary Discharge Lines*

Sec. 5-253. Same--Exceptions and supplemental standards.

The following apply to all installations, repairs, and alterations of plumbing and subject to the provisions of this article, anything to the contrary contained in the ICC International Plumbing Code, 2018 Edition or the International Residential Code, 2018 Edition, notwithstanding. It is the intent of the City to provide supplemental regulations and exceptions to the ICC International Plumbing Code, 2018 Edition, and the International Residential Code, 2018 Edition.

- (1) *Fittings*. No changes in direction in drainage piping shall be made by the use of short sweep bends without specific approval of the administrative authority having been first had and obtained;
- (2) *Depth of building sewer and water service (outside of buildings)*. Sewers and water servicing pipe shall be installed below the recorded frost penetration, but in no case less than two (2) feet, two (2) inches for sewer and two (2) feet, six (6) inches for water piping below grade;
- (3) *Water heating equipment*. A shutoff valve shall be provided in the cold water branch line to each water storage tank or each water heater. The shutoff valve so provided shall be protected from accidental closing and tampering;
- (4) *Sub-drains and storm sewers*. No building wall sub-drains, areaway, driveway or roof leaders shall be connected to the sanitary sewer. Such drain systems shall be separately connected to an independent dry well drainage system, to a storm sewerage system, or drained by some other method approved by the administrative authority;
- (5) *Building sewer and sanitary drainage system*. The administrative authority may require the use of cast-iron pipe for the installation of the sanitary drainage system and the building sewer if unstable soil or other conditions warrant such use. A cleanout and brass plug with a countersunk head shall be installed as near the property line as possible. A #12 copper wire, with the end accessible at the cleanout, shall be taped to all nonmetallic sewer laterals to provide a means of locating the lateral by a metal detector or other device. An approved adaptor shall be used to provide connection between piping of different size, weight, and material;
- (6) *Water service pipe*. Water service pipe installed underground between the City's main and the property line shall be type "K" copper tubing with flare fittings only for sizes up to and including two (2) inches. A #12 copper wire shall be taped to all nonmetallic water service pipe to provide a means of locating the lateral by a metal detector or other device;

(7) *Fixture shutoff valves.* Each plumbing fixture shall be equipped with an accessible shutoff valve to interrupt water supply for servicing.

(8) *Water-cooled air conditioning, refrigeration machinery and compressor installations.*

- a. **Rate and Use of Cooling Water.** All water-cooled air conditioning, refrigeration machinery and compressor installations using water from the public water supply for cooling purposes or discharging water into the City's sewerage or drainage systems, shall be installed in accordance with these regulations, and shall be subject to the City's inspection and approval. A written permit will be required for each installation. Such installations will be permitted to take water from the City's system at a rate not greater than 0.08 gallon per minute per ton of refrigeration. An approved type of economizer or cooling tower shall be installed if necessary to meet this limitation;
- b. **Rating of Water-Cooled Machinery.** A ton of refrigeration shall be considered as the cooling effect of two hundred (200) BTU's per minute. The standard rating of refrigeration machines is expressed as the number of tons of refrigeration it can produce under certain conditions. For compressors, one (1) horsepower of rated capacity will be considered equivalent to one (1) ton of refrigeration;
- c. **Disposal of Cooling Water.** Water from any such above installation, whether or not the water is taken from the City's system, shall not be discharged into the City's sanitary sewerage system at a rate greater than 0.08 gallon per minute per ton of refrigeration;
- d. **Cross-Connections.** All such installations shall be installed without cross-connections and without possibility of back-siphonage;
- e. **Installation to Conform.** All water-cooled air conditioning equipment, refrigeration machinery and compressor installations using water from, or discharging water into, the City's system, whether or not installed prior to the adoption of this section, where required, shall be modified to bring them into conformance with the provisions of these regulations;
- f. **Penalty for Nonconformance.** Properties in which water-cooled air conditioning equipment, refrigeration machinery, and compressor installations are made contrary to the provisions of this section and which installations are not promptly modified as directed, will be disconnected from the City's system until the requirements of this section are complied with.

Secs. 5-254 – 5-260. Reserved

DIVISION 4. LICENSING OF PLUMBERS

Sec. 5-261. License required; plumbing work by unqualified person declared misdemeanor.

- (a) No person shall engage in the business of plumbing in the City unless licensed as a master plumber under the provisions of this division.
- (b) No person shall engage in the business of installing, repairing, or altering plumbing unless the plumbing work performed in the course of such business is under the direct supervision of a licensed master plumber.
- (c) Any person who shall perform any plumbing work within the City which is not by or under the supervision of a licensee as provided in this section or otherwise qualified pursuant to section 5-241 shall be guilty of a misdemeanor.
- (d) All company vehicles shall have the City's license number conspicuously displayed.

Sec. 5-262. Qualifications; examinations.

- (a) The administrative authority shall establish standards and procedures for the qualifications, and licensing of master plumbers. The administrative authority shall issue an appropriate license to each person who meets the qualifications thereof. The administrative authority shall keep an official record of all licenses issued.
- (b) The administrative authority shall issue a Master Plumber license when an applicant presents a valid license issued by the State of Maryland Plumbing License Board. The applicant's license must indicate that a Master Plumber's license has been issued by the State and that the individual is insured for work.
- (c) The administrative authority shall issue a Journey Plumber license when an applicant presents a valid license issued by the State of Maryland Plumbing License Board. The applicant's license must indicate that a Journey Plumber's license has been issued by the State.
- (d) The administrative authority shall issue an Apprentice Plumber license when an applicant presents a valid license issued by the State of Maryland Plumbing License Board. The applicant's license must indicate that an Apprentice Plumber's license has been issued by the State.
- (e) No license shall be granted to any person under the age of twenty-one (21) years.

Sec. 5-263. Fee.

A license shall be issued under this division to qualified applicants only upon payment of a fee in the amount established by resolution of the Mayor and Council.

Sec. 5-264. Term.

Licenses required by this division shall expire at the end of even-numbered calendar years.

Sec. 5-265. Bond.

Individuals who hold a valid Maryland State Master Plumber's license are exempt from bond or insurance requirements.

Sec. 5-266. Use of licensee's name by another; change of address, etc.

No person who has obtained a plumber's license shall allow his name to be used by another person either for the purpose of obtaining permits, or for doing business or work under the license. Every person licensed shall notify the administrative authority of the address of his place of business, if any, and the name under which such business is carried on and shall give immediate notice to the administrative authority of any change in either.

Secs. 5-267 – 5-270. Reserved.

SECTION 12. That Article XII, “Property Maintenance Code”, is unchanged by this ordinance.

SECTION 13. That Article XIII, “Existing Building Code”, is amended as follows:

ARTICLE XIII. - EXISTING BUILDING CODE

DIVISION 1. - GENERALLY

Sec. 5-289. - Scope.

The provisions of this article apply to existing buildings in accordance with the Maryland Building Rehabilitation Code (COMAR 09.12.58).

Sec. 5-290. - Reserved.

DIVISION 2. - TECHNICAL STANDARDS

Sec. 5-291. - Maryland Building Rehabilitation Code (COMAR 09.12.58).

The Maryland Building Rehabilitation Code (COMAR 09.12.58) dated March 25, 2019, and as may hereby be amended, is adopted by reference. One (1) copy of such publication, as adopted, shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours.

Secs. 5-292—5-300. - Reserved.

SECTION 14. That Article XIV, “Green Building Regulations”, is hereby amended as follows:

ARTICLE XIV. GREEN BUILDING REGULATIONS

DIVISION 1. GENERALLY

The *ICC International Green Construction Code*, 2018 Edition (IgCC), is amended in the following respects:

Sec. 5-301. Scope.

This article places additional "green building" requirements on certain sizes and various types of new construction and redevelopment activities within Rockville.

Sec. 5-302. Building Code Compliance Required.

This code is an overlay document to be used in conjunction with the other codes and standards adopted by the City of Rockville. This code is not intended to abridge or supersede safety, health or environmental requirements under other applicable codes or ordinances.

Sec. 5-303. Green Building Applicability.

Except as provided in Section 5-304 and Section 5-322 of Article XIV Green Building Regulations, these requirements shall apply to construction of all new buildings, and the following additions, reconstruction and alterations to buildings:

- (1) Additions of seven thousand five hundred (7,500) gsf or more to an existing non-residential or multi-unit residential building;
- (2) Alterations of more than fifty (50) percent of the gsf of a non-residential or multi-unit residential building if the altered area is seven thousand five hundred 7,500 gsf or larger;
- (3) Alterations to existing one and two family dwellings and additions meeting the criteria for “new construction” or “substantial reconstruction” as defined in Article VI, Section 5-102, R202.

Sec. 5-304. Buildings and Structures Exempt.

The following construction is exempt from the requirements of this Article:

- (1) Accessory buildings and structures, as defined by section 25.09.03 (Zoning Ordinance) of the Rockville City Code;
- (2) Temporary structures as defined by Section 25.09.04 (Zoning Ordinance) of the Rockville City Code.

Sec. 5-305. Certification Not Required.

Compliance with this Article does not require a construction project to obtain certification from the U.S. Green Building Council or any other “green” certification organization. The City, as described in Division 2 of this Article, shall perform evaluation for compliance with the provisions of this Article.

Secs. 5-306 - 5-310. Reserved.**DIVISION 2. ADMINISTRATION AND ENFORCEMENT****Sec. 5-311. Administration.**

(a) The Chief of Zoning or his/her designee will review projects for compliance with this Article during the design phase of new construction. This includes:

(1) Reviewing the submitted green building-checklists and supporting documentation for completeness and accuracy, as it pertains to site development;

(b) The Chief of Inspection Services or his/her designee will review projects for compliance with this Article during the design phase of new construction. This includes:

(1) Reviewing the submitted green building checklists and supporting documentation for completeness and accuracy, as it pertains to building construction;

Sec. 5-312. Enforcement.

The Chief of Inspection Services or his/her designee will review projects for compliance with this Article during construction and prior to occupancy. This includes:

(1) Ensuring that buildings have been constructed to meet the appropriate green standards per their design;

(2) Ensuring appropriate materials, appliances and equipment are installed, as required;

(3) Reviewing required computer software reports, worksheets, compliance manuals, commissioning documents, and building/homeowner maintenance manuals, if required for credit;

(4) Ensuring waste management requirements have been fulfilled.

Sec. 5-313. Waivers and Modifications.

The Chief of ~~Planning~~ Zoning or the Chief of Inspection Services may modify the provisions of this Article as appropriate to accommodate historic preservation considerations.

Secs. 5-314 - 5-315. Reserved.

DIVISION 3. DEFINITIONS

Sec. 5-316. Definitions.

Words defined in this article are intended only for use with sections of this article or any document referred to in this article.

ANSI means the American National Standards Institute.

Alteration, when applied to a building or structure or its service equipment, means:

- (1) A change or rearrangement in the structural parts or in the exit facilities;
- (2) A vital change in the service equipment;
- (3) An enlargement whether by extending laterally or by increasing in height;
- (4) The moving from one (1) location or position to another; or
- (5) The change in occupancy from one (1) use group to another of different legal requirements.

Building means a structure having one (1) or more stories and a roof, designed primarily for the shelter, support, or enclosure of persons, animals, or property of any kind; and is not an accessory building as defined in section 25.09.03 of the Zoning Ordinance of the City of Rockville.

City Manager means the City Manager for the City of Rockville, or his/her designee.

ENERGY STAR means the joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy designed to identify and promote energy-efficient products and practices.

EPA means the U.S. Environmental Protection Agency.

Green building means a holistic approach to design, construction, operation, maintenance and demolition that minimizes the building's impact on the environment, the occupants and the community.

GSF means gross square footage. GSF is the sum of all areas on all floors of a building included within the outside faces of the exterior walls, including floor penetration areas, however insignificant, for circulation and shaft areas that connect one floor to another.

LEED ® means the Leadership in Energy and Environmental Design green building rating system, version 4 or the most current mandated version by the U.S. Green Building Council.

Individual rating systems, and the associated checklists, have been created for several different building categories.

Multi-unit residential means residential structures not governed by the provisions of article VI of this chapter.

National Green Building Standard (NGBS) means the ANSI-approved residential green building standard released by the National Association of Home Builders (NAHB) in coordination with the International Code Council (ICC700-2015). For multi-unit and low-rise residential buildings, the NGBS may be used as an equivalent rating system.

Non-residential means commercial, industrial, institutional, governmental and the non-residential portions of mixed-use developments.

USGBC means the U.S. Green Building Council, creator and maintainer of the LEED® green building rating system.

Secs. 5-317 - 5-320. Reserved.

DIVISION 4. NON-RESIDENTIAL AND MULTI-UNIT RESIDENTIAL GREEN BUILDINGS

Sec. 5-321. International Green Construction Code--Adopted.

The International Code Council (ICC) International Green Construction Code, 2015 Edition, as modified herein, is hereby adopted as the green construction code for the City. One (1) copy of such publication as adopted shall be housed by the Inspection Services Division and made available for inspection by the public during regular office hours. Any amendment or change in such publication promulgated by the International Code Council shall not become a part of this article until adopted by ordinance. References to other ordinances and codes of the City shall be interpreted and applied in accordance with the terms and effect of such ordinances and codes at the time of such application and interpretation.

Sec. 5-322. Same--Amendments.

The *ICC International Green Construction Code*, 2015 Edition (IgCC), is amended in the following respects:

Section 101.1 of the IgCC is amended to read as follows:

101.1 Title. These regulations shall be known as the *Green Construction Code of the City of Rockville*, hereinafter referred to as “this code”.

Section 101.3 of the IgCC is amended to read as follows:

101.3 Scope. The provisions of this code shall apply to new construction as it relates to the design and construction of buildings and additions, building sites, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures and to the site on which the building is located. Occupancy classifications shall be determined in accordance with the *International Building Code*[®] (IBC[®]).

Exceptions:

1. The code shall not apply to items 1.1, 1.2 and 1.3 except where the jurisdiction adopts the jurisdictional requirements of Section 302.1, Item 1, for residential buildings.
 - 1.1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site or lot upon which these buildings are located.
 - 1.2. Group R-3 residential buildings, their accessory structures, and the site or lot upon which these buildings are located.
 - 1.3. Group R-2 and R-4 residential buildings four stories or less in height above grade plane, their accessory structures, and the site or lot upon which these buildings are located.
2. The code shall not apply to equipment or systems that are used primarily for industrial or manufacturing.
3. The code shall not apply to temporary structures *approved* under Section 3103 of the *International Building Code*.
4. Where ASHRAE 189.1 is selected in accordance with Section 301.1.1, ASHRAE 189.1 shall not apply to buildings identified in Exceptions 1 through 3.
5. Where a minimum of USGBC-LEED Certification at the Silver level is selected as an alternative compliance path.

101.3.1 Residential construction. In lieu of the requirements of this code the following shall be deemed-to-comply with this code:

1. Group R-2 and R-4 residential buildings five stories or more in height above grade plane, their accessory structures, and the site or lot upon which these buildings are located achieve a minimum Silver performance level in Chapters 5 through 10 of the ICC 700-2015 (National Green Building Standard) or equivalent system.
2. Group R-2 and R-4 portions of mixed use buildings must achieve a minimum Silver performance level in Chapters 5 through 10 of the ICC 700-2015 (National Green Building Standard) or equivalent system. The remainder of the building and the site upon which the building is located shall comply with the provisions of this code.

Section 101.4 of the IgCC is amended to read as follows:

101.4 Appendices. All the provisions in the Appendices, as amended, are adopted as part of the International Green Construction Code.

Section 102.4 of the IgCC is amended to read as follows:

102.4 Referenced codes and standards. The following codes shall be considered part of the requirements of this code: the International Building Code, the International Energy Conservation Code® (IECC®), the International Existing Building Code® (IEBC®), Rockville Fire Code, the International Fuel Gas Code® (IFGC®), the International Mechanical Code® (IMC®), the International Plumbing Code® (IPC®), and the International Residential Code® (IRC®).

Section 102.6 of the IgCC is amended to read as follows:

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the International Building Code, the International Existing Building Code, or the Rockville Fire Code, or as is deemed necessary by the code official for the general safety and welfare of building occupants and the public.

Section 106.1 of the IgCC is amended to read as follows:

106.1 Required. Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any energy, electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the *code official* and obtain the required permit under the applicable code or regulation relevant to the intended work. A Green Building application will be filed with the Inspection Services Division; however, a separate permit shall not be issued under this code. Exemptions from permit requirements shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other applicable laws, codes or ordinances of this jurisdiction.

Section 107(Fees) of the IgCC is deleted

Section 108 of the IgCC is amended to read as follows:

~~**Section 108 Board of Adjustments and Appeals.**~~ Appeals of administrative interpretations or decisions made by the Code Official shall be administered in accordance with Chapter 5, Article I, Section 5-12 of the Rockville City Code.

Section 301.1.1 of the IgCC is amended to read as follows:

301.1.1 Application. The requirements contained in this code are applicable to buildings, or portions of buildings. As indicated in Section 101.3, these buildings shall meet either the requirements of ASHRAE 189.1 or the requirements contained in this code or demonstrate

compliance using an equivalent option that must be first approved by the *code official* and where the applicant demonstrates equivalency and compliance.

Section 302.1 of the IgCC is amended to read as follows:

302.1 Requirements and electives determined by the jurisdiction. The jurisdiction shall indicate the following information in Table 302.1 for inclusion in its code adopting ordinance:

1. The jurisdiction shall indicate whether requirements for residential buildings, as indicated in Exception 1 to Section 101.3, are applicable by selecting “Yes” or “No” in Table 302.1. Where “Yes” is selected, the provisions of ICC 700 shall apply and the remainder of this code shall not apply.
2. Requirements: Where "Yes" or "No" boxes are provided, the box checked “Yes” indicates where that section or subsection, as amended, is to be enforced as a mandatory requirement in the jurisdiction, or "No" indicates where that section or subsection is not to be enforced as a mandatory requirement in the jurisdiction.
3. Electives: Where "Yes" boxes are provided, the box checked "Yes" indicates where that section or subsection, as amended, is not required and is relocated to Appendix A- Project Electives, Section A110 Additional Project Electives and is eligible for selection as a project elective in the jurisdiction.

Table 302.1 of the IgCC is amended to read as follows:

TABLE 302.1 REQUIREMENTS AND ELECTIVES DETERMINED BY THE JURISDICTION

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
CHAPTER 1. SCOPE				
101.3 Exception 1.1	Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories in height above grade plane with a separate means of egress, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
101.3 Exception 1.2	Group R-3 residential buildings, their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
101.3 Exception 1.3	Group R-2 and R-4 residential buildings four stories or less in height above grade plane their accessory structures, and the site or lot upon which these buildings are located, shall comply with ICC 700.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
CHAPTER 4. SITE DEVELOPMENT AND LAND USE				
401.2	Predesign site inventory and assessment	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
402	Preservation of Natural Resources	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
403	Stormwater Management	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
404	Landscape Irrigation and Outdoor Fountains	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
405.1-405.2	Management of Vegetation, Soils and Erosion Control	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
405.3	Native plant landscaping	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
406	Building Site Waste Management	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
407.1-407.3	Transportation Impact	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
407.4	Preferred vehicle parking	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
408	Heat Island Mitigation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
409	Site Lighting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
CHAPTER 5. MATERIAL RESOURCE CONSERVATION AND EFFICIENCY				
502	Construction Material Management	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
503	Construction Waste Management	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
503.1	Minimum percentage of waste material diverted from landfills	<input checked="" type="checkbox"/> Yes (50%)		
504	Waste Management and Recycling	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
505	Material Selection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
506	Lamps	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
CHAPTER 6. ENERGY CONSERVATION, EFFICIENCY AND CO_{2e} EMISSION REDUCTION				
302.1, 302.1.1, 602.1	Zero Energy Performance Index (zEPI) of Jurisdictional Choice – The jurisdiction shall indicate a zEPI of 50 or less in each occupancy for which it intends to require enhanced energy performance.	<input checked="" type="checkbox"/> Yes Occupancy: ALL zEPI: 50	<input type="checkbox"/> No	
603	Energy Metering, Monitoring and Reporting	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
604	Automated Demand-Response (Auto-DR) Infrastructure	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
605	Building Envelope Systems	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
606	Building Mechanical Systems (as amended)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
606.5.1	Economizer Systems	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
607	Building Service Water Heating Systems (as amended)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
608	Building Electrical Power and Lighting Systems	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
609	Specific Appliances and Equipment	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
610	Onsite Renewable Energy Systems	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
611	Energy Systems Commissioning and Completion	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
612	Outcome-Based Pathway Requirements	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
CHAPTER 7. WATER RESOURCE CONSERVATION, QUALITY AND EFFICIENCY				
701.2	Water usage metering required	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
702.1-702.4	Fitting and fixture consumption through Drinking fountain controls	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
702.5	Appliances	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
702.6-702.19	Municipal Reclaimed Water through Film Processors	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
703	HVAC Systems and Equipment (as amended)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
704	Water Treatment Devices and Equipment	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
CHAPTER 8. INDOOR ENVIRONMENTAL QUALITY AND COMFORT				
802	Building Construction Features, Operations and Maintenance Facilitation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
803	HVAC Systems	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
804	Specific Indoor Air Quality and Pollutant Control Measures	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
804.2	Post-Construction Pre-Occupancy Baseline IAQ Testing	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
805	Prohibited Materials	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
806	Material Emissions and Pollutant Control	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
807	Acoustics	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
808	Daylighting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes
CHAPTER 9. COMMISSIONING, OPERATION AND MAINTENANCE				
902	Special Inspection and Commissioning	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Section	Section Title or Description and Directives	Jurisdictional Requirements		Jurisdictional Electives (Appendix A)
903	Building Operations and Maintenance Documentation	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
CHAPTER 10. EXISTING BUILDINGS				
Chapter 10	Existing Buildings	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
CHAPTER 11. EXISTING BUILDING SITE DEVELOPMENT				
Chapter 11	Existing Building Site Development	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
APPENDIX A: PROJECT ELECTIVES				
A103	Minimum 10 project electives shall be selected from sections A104 through A110, as amended.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Section 302.1.1 of the IgCC is amended to read as follows:

302.1.1 zEPI of 50 or less. Where a zEPI of 50 or less is indicated by the jurisdiction in Table 302.1, buildings shall comply on a performance-basis in accordance with Section 601.3.1.

Exception: Buildings less than 25,000 square feet (2323 m²) in total building floor area pursuing compliance on a prescriptive basis shall be deemed to have a zEPI of 50 and shall not be required to comply with the zEPI of Jurisdictional Choice indicated by the jurisdiction in Table 302.1.

Sections 401.2 (Predesign site inventory and Assessment) of the IgCC is deleted in its entirety.

Section 402 (Preservation of Natural Resources) of the IgCC is deleted in its entirety.

Section 403 (Stormwater Management) of the IgCC is deleted in its entirety.

Section 404 (Landscape Irrigation and Outdoor Fountains) is removed and added to Appendix A Section A110-404 of this Code.

Section 405.1 (Soil and water quality protection) and *Section 405.2* (Vegetation and soil protection) of the IgCC are deleted in its entirety.

Section 405.3 (Native Plant Landscaping) is removed and added to Appendix A Section A110-405.3 of this Code.

Section 407.1 (Walkways and bicycle paths) through *Section 407.3.2* (Long-term bicycle parking) of the IgCC are deleted in their entirety.

Section 407.4 (Preferred vehicle parking) is removed and added to Appendix A Section A110- 407.4 of this Code.

Section 408.2 (Site hardscape) is amended to read as follows

Section 408.2 Site hardscape. In climate zones 1 through 6, as established in the *International Energy Conservation Code*, not less than 40 percent of the site hardscape shall be provided with one or any combination of options described in Sections 408.2.1 through 408.2.4. For the purposes of this section, site hardscape shall not include areas of the site covered by solar photovoltaic arrays or solar thermal collectors.

Section 409 (Site Lighting) is removed and added to Appendix A Section A110-409 of this Code.

Section 503.2 is added to the IgCC to read as follows:

Section 503.2 Deconstruction and demolition material and waste management plan. Where buildings, structures or portions thereof are deconstructed or demolished, a minimum of 50 percent of materials shall be diverted from landfills. A construction material and waste management plan shall be developed that is in accordance with Section 503.1, that includes procedures for deconstruction, procedures for the proper removal, management and disposal of hazardous materials (including, but not limited to materials and devices containing mercury, poly-chlorinated biphenyl, lead, asbestos, CFCs, and HCFCs), and documentation on the total materials in buildings, structures and portions thereof to be deconstructed or demolished and the materials to be diverted.

Sections 505 (Material Selection) and *506* (Lamps) are removed and added to Appendix A Section A110-505 and Section A110-506 of this Code.

Section 604 (Automated Demand-Response Infrastructure) is removed and added to Appendix A Section A110 of this Code.

Section 606.5.1 (Economizer systems) is removed and added to Appendix A Section A110-606.5.1 of this Code.

Section 608 (Building Electrical Power and Lighting Systems) of the IgCC is deleted in its entirety.

Section 609 (Specific Appliances and Equipment) is removed and added to Appendix A Section A110-609 of this Code.

Section 610 (Onsite Renewable Energy Systems) is removed and added to Appendix A Section A110-610 of this Code.

Section 612 (Outcome-Based Pathway Requirements) of the IgCC is deleted in its entirety.

Section 701.2 (Water usage metering required) is removed and added to Appendix A Section A110-701.2 of this Code.

Section 702.5 (Appliances) is removed and added to Appendix A Section A110-702.5 of this Code.

Sections 702.6 (Municipal reclaimed water) through *702.19* (Film processors) of the IgCC are deleted in their entirety.

Sections 703.1 (Hydronic closed system), *703.2* (Humidification systems), *703.3* (Condensate coolers and tempering), *703.4* (Condensate drainage recovery), *703.6* (Humidifier discharge), *703.7* (Cooling towers, evaporative condensers and fluid coolers), *703.8* (Wet-hood exhaust scrubber systems), of the IgCC are deleted in their entirety.

Section 704 (Water Treatment Devices and Equipment) is removed and added to Appendix A Section A110-704 of this Code.

Section 803.3.1(1) of the IgCC is amended to read as follows:

803.3.1(1) The enclosing walls shall extend from the floor surface to the underside of the floor, roof deck or solid ceiling above and shall be constructed to resist the passage of airborne chemical pollutants and shall be constructed and sealed as required for a smoke partition in a fully sprinklered building or 1-hour fire-resistance-rated construction assemblies. Alternatively, for janitorial rooms and closets, all chemicals shall be stored in approved chemical safety storage cabinets.

Section 804.1 (Fireplaces and appliances) of the IgCC is deleted in its entirety.

Section 804.2 (Post-construction, pre-occupancy baseline IAQ testing) is removed and added to Appendix A Section A110-804.2 of this Code.

Sections 806 (Material Emissions and Pollutant Control), *807* (Acoustics), and *808* (Daylighting) are removed and added to Appendix A Section A110-806, Section A110-807, Section A110-808 of this Code, accordingly.

Section 902.1.1.1 of the IgCC is amended to read as follows:

902.1.1.1 Qualifications of approved agencies. An approved agency shall be qualified and shall demonstrate competence, to the satisfaction of the code official, for the commissioning of the particular type of construction or operation. The registered design professional in responsible charge and engineers of record involved in the design of the project are permitted to act as the approved agency provided those personnel meet the qualification requirements of this section to the satisfaction of the code official. The approved agency shall provide written documentation to the code official demonstrating competence and relevant experience or training. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of commissioning activities for projects of similar complexity and material qualities.

Chapter 10 (Existing Buildings) of the IgCC is deleted in its entirety.

Chapter 11 (Existing Building Site Development) of the IgCC is deleted in its entirety.

Section A103.2 of the IgCC is amended to read as follows:

A103.2 Required number of and selection of project electives. A total of not less than 10 project electives shall be selected by the owner or the owner's authorized agent from Table A103.2. Selected project electives shall be applied as mandatory requirements for the project. Selected project electives shall be communicated to the code official by means of checking the appropriate boxes in the tables and providing a copy of the tables, or by inclusion of a list of selected project electives, with the construction documents.

Table A103.2 Project Electives of the IgCC is amended to read as follows:

Section	Description	Owner Selection	
A104.2	Wildlife corridor	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.3	Infill site	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.4	Brownfield site	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.5	Site restoration	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.6	Mixed-use development	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.9.1	Site hardscape project elective 1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.9.2	Site hardscape project elective 2	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.9.3	Site hardscape project elective 3	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A104.9.4	Roof covering project elective	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.1	Waste management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.2	Construction waste landfill maximum	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Section	Description	Owner Selection	
A105.3(1)	Reused, recycled content, recyclable, bio-based and indigenous materials (70%)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.3(2)	Reused, recycled content, recyclable, bio-based and indigenous materials (85%)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.4	Service life plan	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.5	Design for construction and building reuse	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.6	Existing building reuse	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.7	Historic building reuse	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.8	Integrated design	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A105.9	Deconstruction	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.1	zEPI is at least 5 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 10 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 15 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 20 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 25 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 30 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 35 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 40 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 45 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	zEPI is at least 50 points lower than required by Table 302.1	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.2	Mechanical system project elective	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.3	Service water heating	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.4	Lighting Systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.5	Passive design	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.6	Renewable energy systems- 5 percent	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.6	Renewable energy systems- 10 percent	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A106.6	Renewable energy systems- 20 percent	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.2	Onsite wastewater treatment	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.3	Alternative onsite potable water for outdoor host connections	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.4	Alternative onsite potable water for plumbing fixture flushing	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.5	Automatic fire sprinkler system	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Section	Description	Owner Selection	
A107.6	Alternative onsite nonpotable water to fire pumps	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.7	Alternative onsite nonpotable water for industrial process makeup water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.8	Alternative onsite nonpotable water for cooling tower makeup water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A107.9	Gray water collection	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.2	VOC emissions – flooring	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.3	VOC emissions – ceiling systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.4	VOC emissions – wall systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.5	Architectural paints and coatings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.6	Total VOC limit	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A108.7	Views to building exterior	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-404	Landscape Irrigation and Outdoor Fountains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-405.3	Native Plant Landscaping	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-407.4	Preferred Vehicle Parking	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-409	Site Lighting	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-505	Material Selection	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-506	Lamps	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-604	Automated Demand-Response (Auto-DR) Infrastructure	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-606.5.1	Economizer Systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-608.2 – 608.9	Building Electrical Power and Lighting Systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-609.2.3	Specific Appliances and Equipment	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-610	Onsite Renewable Energy Systems	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-701.2	Water Usage Metering	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-702.5	Appliances	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-704	Water Treatment Devices and Equipment	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-804.2	Post-Construction Pre-Occupancy Baseline IAQ Testing	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-806	Material Emissions and Pollutant Control	<input type="checkbox"/> Yes	<input type="checkbox"/> No
A110-807	Acoustics	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Section	Description	Owner Selection	
A110-808	Daylighting	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Sections A104.1 (Flood hazard area project elective), A104.7 (Changing and shower facilities project elective) and 104.8 (Long-term bicycle parking and storage project elective) of the IgCC are deleted in their entirety.

Section A110 of the IgCC is added to read as follows:

Section A110 Additional Project Electives

A110.1 Additional Project Electives. The following Sections and Subsections are removed from Chapter 3 through Chapter 8 of this code and relocated to Appendix A to be optional requirements: 404, 405.3, 407.4, 409, 505, 506, 604, 606.5.1, 608.2-608.9, 609.2.3, 610, 701.2, 702.5, 704, 804.2, 806, 807 and 808. Section and subsection numbers, titles and provisions shall remain consistent, unless otherwise amended. Each section or subsection is considered as separate project electives. The electives shall be cumulative and compliance with each project elective shall be recognized individually.

DIVISION 5. ONE AND TWO FAMILY DWELLING REQUIREMENTS

Sec. 5-331. Applicability.

The requirements of this Division shall be applicable to one and two family dwellings as indicated in Section 5-303 of this Article.

Sec. 5-332. Green Building Checklist Required.

All one- and two-family dwelling as indicated in Section 5-303 of this Article must submit either a completed NGBS checklist, or equivalent green homes checklist with every submittal to the City.

Sec. 5-333. Rockville Green Homes Required.

Homes must achieve a minimum Silver performance level in Chapters 5 through 10 of the ICC 700-2015 (National Green Building Standard) or equivalent system that must be first approved by the code official and where the applicant demonstrates equivalency and compliance.

Secs. 5-334 - 5-340. Reserved.

SECTION 15. That the effective date of this ordinance is January 1, 2020. All permit applications submitted on or after that date shall comply with this ordinance.

I hereby certify that the foregoing is a true and correct copy of an ordinance adopted by the Mayor and Council at its meeting of September 9, 2019.

Sara Taylor Ferrell, City Clerk/Director of Council Operations