



ANNE ARUNDEL COUNTY MARYLAND

Building Codes

The Building and Fire Codes adopted by Anne Arundel County are listed below.

****Changes are effective 11/2/2020**

TYPE	TITLE	PUBLISHED BY
Building Code	2018 International Building Code	International Code Council
New residential construction for 1 & 2 family dwellings	2018 International Residential Code	International Code Council
Energy Efficiency-commercial or residential occupancy	2018 International Energy Conservation Code	International Code Council
Mechanical Work	2018 International Mechanical Code	International Code Council
Electrical Work	2017 National Electrical Code	National Fire Protection Assn
Plumbing Work	2018 International Plumbing Code	International Code Council
Fuel gas systems and gas-fired appliances	2018 International Fuel Gas Code	International Code Council
Private Sewage Disposal	Chapters 16 & 17 of the AA County Plumbing Code, 1993	Anne Arundel County

Accessibility	Accessible and Useable Buildings and Facilities - ICC A117.1-2009	International Code Council
Repairs to existing residential or commercial structures	2018 International Existing Building Code	International Code Council
Fire Prevention Code	2018 NFPA 1	National Fire Protection Assn
Life Safety Code	2018 NFPA 101	National Fire Protection Assn
Automatic Sprinkler Systems Code	2016 NFPA 13	National Fire Protection Assn
Sprinkler Systems for 1&2 Family Dwellings	2016 NFPA 13D	National Fire Protection Assn
Fire Alarm Code	2016 NFPA 72 National Fire Alarm Code	National Fire Protection Assn
Swimming Pools and Spas	2018 International Swimming Pool and Spa Code	International Code Council

The codes above can be purchased through the publishers:

- [International Code Council](#) - (800) 423-6587 or (562) 699-0541
- [National Fire Protection Association](#) - (617) 770-3000
- Code of MD Regs, MD Dept of Housing & Comm. Development (410) 514-7220

[HISTORY OF CODE ADOPTIONS FOR ANNE ARUNDEL COUNTY](#)

INTERNATIONAL BUILDING CODE AMENDMENTS

The provisions of the 2018 International Building Code are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2018 International Building Code as indicated:

(1) Strike Chapter 1 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions" as set forth in this supplement.

(2) In section 202, in the definition of "Building Official", strike "The officer or other designated authority charged with the administration and enforcement of this Code, or a duly authorized representative" and substitute "Code Official".

(3) In section 202, after the definition of "Coastal High Hazard Area" insert:

"Code Official. The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code."

(4) In section 305.2, strike "five" and substitute "eight".

(5) In section 308.6, strike "five" and substitute "eight".

(6) In section 308.6.1, strike "five" and substitute "eight".

(7) Strike section 310.4.1, in its entirety, and substitute:

"310.4.1 Residential care facilities within a dwelling. Residential board and care facilities providing services to five (5) or fewer residents in an existing single family dwelling structure built prior to 2008 are permitted to comply with the International Residential Code. Residential board and care facilities providing services to more than five (5) residents in an existing single family dwelling structure built in or after 2008 shall provide an automatic sprinkler system installed in accordance with section 903.3.1.3 or section P2904 of the International Residential Code."

(8) In section 1101.2, after "ICC A117.1.", insert "All buildings and portions thereof shall comply with the provisions of the "Maryland Accessibility Code" (Code of Maryland Regulations 05.02.02). Where conflicts between the two Codes exist, the stricter requirements shall be followed."

(9) In section 1612.3, insert "Anne Arundel County, Maryland," in the space indicated and insert "05/02/1983" in the space indicated.

(10) In section 1612.4.1.1.1, strike "110.3.3" and substitute "109.3.3", and strike "110.3.10.1" and substitute "109.12", and, after the period, insert:

"All buildings and structures erected within a flood hazard area other than Coastal High Hazard Areas and Coastal A zones shall be elevated so that the lowest floor is located a minimum of one foot above the design flood elevation. All basement floor surfaces shall be located a minimum of one foot above the design flood elevation."

(11) In section 1612.4.2.1, strike "110.3.3" and substitute "109.3.3", and strike "110.3.10.1" and substitute "109.12", and, after the period, insert:

"All buildings and structures erected within Coastal High Hazard Areas and Coastal A zones shall be elevated so that the lowest structural member is located a minimum of one foot above the design flood elevation. All basement floor surfaces shall be located a minimum of one foot above the design flood elevation."

(12) Strike section 1805.4 in its entirety and substitute:

"1805.4 Subsoil drainage system. Where a hydrostatic pressure condition does not exist, dampproofing shall be provided. A base shall be installed under the floor and a subsoil drainage system shall be installed in accordance with section 1805.4.2."

(13) Strike section 1805.4.2 in its entirety and substitute:

"1805.4.2 Subsoil drainage systems. Subsoil drains shall be required for all buildings having basements, cellars, crawl spaces, or floors below grade. Subsoil drains shall be located inside and outside of the foundation and shall be installed at or below the area to be protected. Drains shall discharge by gravity or mechanical means into an approved drainage system in accordance with section 1805.4.3. Drains shall be perforated or open joint approved drain tile not less than 3 inches in diameter and be placed in gravel, slag, or crushed rock or other approved material at least one sieve size larger than the tile joint opening or perforations with a minimum of 4 inches surrounding the drain tile or pipe on all sides. Exterior drains shall have an approved filter material placed on top of the required gravel stone or crushed rock."

(14) Strike section 1805.4.3 in its entirety and substitute:

"1805.4.3 Sump pumps and pits. Where subsoil drains do not discharge by gravity, the drains shall discharge to an accessible sump pit with an automatic pump. Sump pit shall be a minimum of 18 inches in diameter, and 24 inches in depth and be provided with a fitted cover. The sump pump shall have adequate capacity to discharge all water coming into the sump as it accumulates but in no case shall the capacity of the pump be less than 15 gallons per minute. The discharge from the pump shall be a minimum of 1 1/4 inches and shall have a union in the discharge piping to make the pump accessible for servicing. When not serving a continuous flowing spring or ground water the sump pump may discharge onto a splash block not less than 24 inches in length. The discharge pipe shall be located within 4 inches of the splash block and positioned to divert the flow parallel to the splash block. Subsoil drains and sump pump discharge may discharge to a properly graded open area provided the point of discharge is 5 feet from any lot line. Where a continuous flowing spring

or groundwater is encountered, subsoil and sump pump discharge lines must be piped to a storm drain or approved water course. When piped to a storm drain all drainage lines shall be provided with an accessible backwater valve."

(15) After section 1805.4.3, insert:

"1805.4.4 Areaway drains. All open subsurface space adjacent to a building serving as an exit or entrance shall be provided with a drain or drains. All areaway drains shall be solid PVC or equivalent and shall discharge directly to a sump crock, daylight, or other approved means. No areaway drain may discharge into a subsoil drain. Drains serving areaways not exceeding 100 square feet shall have a minimum 2-inch diameter pipe. Areaway drains exceeding 100 square feet but not exceeding 1,000 square feet shall have a minimum 3-inch diameter pipe. Areaway drains exceeding 1,000 square feet shall be sized in accordance with the 2018 International Plumbing Code.

1805.4.5 Window well drains. Window well areaways shall have drains. Window well areaways 10 square feet or less may discharge to the subsoil drain through a 2 inch minimum diameter pipe. Drains for window well areaways greater than 10 square feet shall be installed in accordance with section 1805.4.4.

1805.4.6 Foundation weep holes. Where subsoil drains are required by section 1805.4.2, foundations of hollow core masonry shall have foundation weep holes. Weep holes shall be placed a maximum of 4 foot O/C intervals and shall discharge into the aggregate of interior subsoil drainage system.

1805.4.7 Site grading. The ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one unit vertical in 12 units horizontal (1:12) for a minimum distance of 5 feet (914 mm) measured perpendicular to the face of the wall or an approved alternate method of diverting water away from the foundation shall be used. Consideration shall be given to the possible additional settlement of the backfill when establishing the final ground level adjacent to the foundation.

1805.4.8 Roof drainage. The roof drainage system shall discharge within four (4) inches of a splash block. The discharge may be to a properly graded open area provided that the point of discharge is at least five (5) feet from any property line or, as required by an approved grading and stormwater management plan, to a swale or device."

(16) In section 1809.4 after "(305 MM).", insert:

"For the purposes of the Building Code, the frostline is 30 inches from the finished grade."

(17) After section 1809.8, insert:

"1809.8.1 Electrode. In all buildings a concrete-encased electrode shall be provided prior to placement of concrete in accordance with section 250.52(a)(3) of the National Electrical Code, 2017 edition."

(18) After section 2801.1, insert:

"2801.2 Cooperating agencies. Nothing herein contained shall supersede the provisions of other statutes, ordinances, or regulations of the County or State governing the operation and maintenance of boilers and other heating appliances and equipment, or the acceptance of the certificates and labels of inspection by authoritative national agencies. Provisions of the "Board of Boiler Rules" of the State shall be followed.

2801.3 General. Plans and specifications for the installation, repair, extension, or removal of any mechanical equipment or system shall be submitted in accordance with Article 15 of the County Code and a permit shall be secured prior to the commencement of any work."

(19) In section 3109.3 strike "4 feet (1290 mm)" and substitute "6 feet".

(20) After section 3109.1, insert:

"3109.2 Public pool entrapment avoidance. A public or semi-public swimming pool or spa shall conform to entrapment requirements as set forth in COMAR 10.17.01.28."

(21) After section 3113.4, insert:

"Section 3114

Driveways

3114.1 Driveway aprons. Driveway aprons shall extend from street or alley pavements to the property line, and shall be constructed in accordance with the provisions of the standard specifications and details issued by the Department of Public Works.

3114.2 Location and specifications. Driveways shall extend from the lot line to the garage, carport, or parking space, and shall measure at least 9 feet in width. The maximum gradient change at vertical transitions shall be 20%. Vertical transitions shall be designed to prevent the undercarriage or bumper of a standard size car from contacting the driveway surface. Alignment shall be safe and convenient to back a car out, or an adequate turnaround shall be provided. No portion of the driveway shall exceed 14% gradient from the horizontal.

3114.3 Materials. Driveways shall be constructed of concrete, blacktop, or other approved material to prevent spalling, erosion, and cracking.

3114.4 Parking pads. Two off-street parking pads shall be provided for each detached single-family home as defined by section 101.2.1 of the Construction Code. The minimum size per parking space is 9 feet in width and 18 feet in length.

3114.5 Exception. The aforementioned standards do not apply to lots one acre or larger."

(22) After section 3304.1.4, insert:

"3304.1.5 Temporary support. The provisions of this section apply to excavations that are 4 feet or more below the existing grade level. Until permanent support has been provided, excavations shall be safeguarded and protected by the person causing the excavation to be made, to avoid danger to life or limb. Where necessary, the excavation shall be retained by temporary retaining walls, sheet pilings and bracing, or other approved method to support the adjoining earth. Temporary support need not be provided if the sides of the excavation are sloped to an angle of 1.5 to 1 or more away from vertical."

(23) After Chapter 33, insert:

"Chapter 34

Grading and Sediment Control

The Erosion and Sediment Control Ordinance in Article 16, Title 3, of the County Code, is incorporated by reference and made a part of the Building Code. If a conflict arises between the provisions of the Building Code and Article 16, Title 3, the more restrictive provision shall prevail."

(Bill No. 1-12; Bill No. 123-15; Bill No. 60-20)

INTERNATIONAL RESIDENTIAL CODE AMENDMENTS

The provisions of the 2018 International Residential Code for One- and Two-Family Dwellings are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2018 International Residential Code for One- and Two-Family Dwellings as indicated:

(1) Strike Chapter 1 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions".

(2) In section R202, in the definition of "Building Official", strike "The officer or other designated authority charged with the administration and enforcement of this Code", and substitute "Code Official".

(3) In section R202, after the definition of "Closet" insert:

"Code Official. The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code.";

and, after the definition of "Sweep", insert:

"Swimming Pool. Any structure intended for swimming, recreational bathing, or wading that contains water over 24 inches (610 mm) deep. This includes in-ground, above-ground, and on- ground pools; hot tubs; spas; and fixed-in-place wading pools."

(4) In Table R301.2 (1): Under "Ground snow load", insert "25"; under "Speed (mph)", insert "115"; under "Topographic effects" insert "no"; under "Special wind region", insert "no"; under "Wind-borne debris zone", insert "no"; under "Seismic design category", insert "A"; under "Weathering", insert "Severe"; under "Frost line depth", insert "30 inches"; under "Termite", insert "Moderate - heavy"; after the column headed "Subject to damage from" add a new column with the heading "Decay" and under that heading insert "Slight - moderate"; under "Winter design temp", insert "17 degrees"; under "Ice barrier underlayment required", insert "Yes"; under "Flood hazards", insert "May 2, 1983"; under "Air freezing index", insert ">1500"; under "Mean annual temp", insert "55 degrees"; under "Coincident wet bulb", insert "74%"; under "Winter humidity", insert "30%"; and under "Summer humidity", insert "50%". For Manual J design criteria, under "Latitude", insert "39.20"; under "Winter heating", insert "17"; under "Summer cooling", insert "89"; under "Altitude correct factor", insert "None"; Under "Design Temperature", insert "70F"; under "Design temperature cooling", insert "75F"; under "Heating temperature difference", insert "55F"; and under "Wind velocity cooling" and "Wind velocity heating", in both instances, insert "7.5F".

(5) In section R313.1, after "townhouses", insert "and in existing townhouses where any construction, alteration, enlargement, replacement, or repair constitutes an increase in habitable square footage, which exceeds 50% of the existing habitable square footage, including bathrooms, closets, hallways, storage spaces and utility spaces" and strike the exception in its entirety.

(6) In section R313.1.1, after "NFPA 13D", insert "NFPA 13R, or NFPA 13".

(7) In section R313.2, after "Dwellings" at the end of the first sentence, insert "and in existing one- and two-family dwellings where any construction, alteration, enlargement, replacement, or repair constitutes an increase in habitable square footage, which exceeds 50% of the existing habitable square footage, including bathrooms, closets, hallways, storage spaces and utility spaces. If an existing structure is currently suppressed, any addition, alteration, enlargement, or replacement to the existing structure must be suppressed in accordance with R313.2.1."

(8) In section R322.1.6, in the first sentence, after "R322.2).", insert:

"All electrical panelboards shall be elevated to a minimum of 3 feet above design flood elevation."

(9) In section R322.2.1.1, strike "to or".

(10) In section R322.2.1.2, strike "to or".

(11) In section R322.3.2.1.1.1, strike "to or".

(12) After section R327, insert:

"Section R328

Driveway Aprons and Driveways and Fences

R328.1 Driveway aprons. Driveway aprons shall extend from street or alley pavements to the lot line and shall be constructed in accordance with the provisions of the standard specifications and details issued by the Department of Public Works.

R328.2 Driveways. Driveways shall extend from the lot line to the garage, carport, or parking space, and shall measure at least 9 feet in width. The maximum gradient change at vertical transitions shall be 20%. Vertical transitions shall be designed to prevent the undercarriage or bumper of a standard size car from contacting the driveway surface. Alignment shall be safe and convenient to back a car out, or an adequate turnaround shall be provided. No portion of the driveway shall exceed 14% gradient from the horizontal.

R328.3 Driveway construction. Driveways shall be constructed of concrete, blacktop, or other approved material to prevent spalling, erosion, and cracking.

R328.4 Parking pads. Two off-street parking pads shall be provided for each detached single-family home as defined by section 101.2.1 of the Construction Code. The minimum size per parking space is 9 feet in width and 18 feet in length.

R328.5 Exception. The provisions of this section do not apply to lots one acre or larger.

R328.6 Fences. All fences located on corner lots shall maintain a 25-foot setback from the apex of the intersecting streets."

(13) In section R401.3 strike "The grade shall fall a minimum of 6 inches (152 mm) within the first 10 feet (3048 mm)." and substitute:

"The ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one unit vertical in 12 units horizontal (1:12) for a minimum distance of 5 feet (914 mm) measured perpendicular to the face of the wall or an approved alternate method of diverting water away from the foundation shall be used. Consideration shall be given to the possible additional settlement of the backfill when establishing the final ground level adjacent to the foundation."

(14) In the exception to section R401.3, strike "6 inches (152 mm)" and substitute "5 inches" and strike "10 feet (3048 mm)" and substitute "5 feet".

(15) In section R403.1, after "ACI332." insert "In all buildings a concrete-encased electrode shall be provided prior to the placement of concrete in accordance with section 250.52(a)(3) of the National Electrical Code, 2017 edition.

(16) In section R403.1.4.1 Exceptions: 1., strike "600 square feet (56 m²)" and substitute "400 square feet".

(17) After section R405.1, insert:

"R405.1.1 Subsoil drainage systems. Subsoil drains shall be required for all buildings having basements, cellars, crawl spaces, or floors below grade. Subsoil drains shall be located inside and outside of the foundation and shall be installed at or below the area to be protected. Drains shall discharge by gravity or mechanical means into an approved drainage system in accordance with section R405.1.2. Drains shall be perforated or open joint approved drain tile not less than 3 inches in diameter and be placed in gravel, slag, or crushed rock or other approved material at least one sieve size larger than the tile joint opening or perforations with a minimum of 4 inches surrounding the drain tile or pipe on all sides. Exterior drains shall have an approved filter material placed on top of the required gravel stone or crushed rock.

R405.1.2 Sump pumps and pits. Where subsoil drains do not discharge by gravity, the drains shall discharge to an accessible sump pit with an automatic electric pump. The sump pit shall be a minimum of 18 inches in diameter and 24 inches in depth, and be provided with a fitted cover. The sump pump shall have adequate capacity to discharge all water coming into the sump as it accumulates but in no case shall the capacity of the pump be less than 15 gallons per minute. The discharge from the pump shall be a minimum of 1 1/4 inches and shall have a union in the discharge piping to make the pump accessible for servicing. When not serving a continuous flowing spring or ground water the sump pump may discharge onto a splash block not less than 24 inches in length. The discharge pipe shall be located within 4 inches of the splash block and positioned to divert the flow parallel to the splash block. Subsoil drains and sump pump discharge may discharge to a properly graded open area provided the point of discharge is 5 feet from any property line. Where a continuous flowing spring or groundwater is encountered, subsoil and sump pump discharge lines must be piped to a storm drain or approved water course. When piped to a storm drain all drainage lines shall be provided with an accessible backwater valve.

R405.1.3 Areaway drains. All open subsurface space adjacent to a building serving as an exit or entrance shall be provided with a drain or drains. All areaway drains shall be solid PVC or equivalent and shall discharge directly to a sump crock, daylight, or other approved means. No areaway drain may discharge into a subsoil drain. Drains serving areaways not exceeding 100 square feet shall have a minimum 2-inch diameter pipe. Areaway drains exceeding 100 square feet but not exceeding 1,000 square feet shall be provided with a minimum 3-inch diameter pipe. Areaway drains exceeding 1,000 square feet shall be sized in accordance with the 2018 International Plumbing Code.

R405.1.5 Foundation weep holes. Where subsoil drains are required by section R405.1.1, foundations of hollow core masonry shall have foundation weep holes. Weep holes shall be placed a maximum of 4 foot O/C intervals and shall discharge into the aggregate of the interior subsoil drainage system."

(18) In section R405.1.1, strike "R405.1.1" and substitute "R405.1.6" and strike "either" and, after "interior", strike "or" and substitute "and".

(19) In section R406.1 after "enclose", insert "non-habitable and non-usable".

(20) In section R406.2, strike "In areas where a high water table or other severe soil-water conditions are known to exist," and capitalize "exterior".

(21) In section R801.3, strike "In areas where expansive soils or collapsible soils are known to exist,"; and, after the last sentence, insert "The roof drainage system shall discharge within four (4) inches of a splash block. The discharge may be to a property graded open area provided that the point of discharge is at least five (5) feet from any property line or, as required by an approved grading and stormwater management plan, to a swale or device."

(22) In section M1305.1.2, in the last sentence, after "appliance.", insert:

"Access to the attic opening shall be provided by a permanent or pull down stairway in all new construction."

(23) In section M1307.5, strike "Chapters 14, 15, 19, 20, and 34 through 43 of this Code" and substitute "the National Electrical Code, 2017 edition".

(24) After section M1307.5 insert:

"M1307.5.1 Final disconnect means for central heating and air conditioning systems. Central heating or central air conditioning systems shall be wired through a final disconnect means. The final disconnect means shall be located at the equipment being installed."

(25) In section P2603.5, strike "not less than 12 inches (305 mm) deep and not less than".

(26) In section P2603.5.1, in the third line, strike "[number] inches (mm)" and substitute "12 inches" and, in the fifth line, strike "[number] inches (mm)" and substitute "18 inches".

(27) After section P2604.4, insert:

"P2604.5 Tracer wire. Nonmetallic sanitary sewer and nonmetallic water supply piping that connects to public systems shall be locatable. An insulated copper tracer wire, 10 AWG minimum in size and suitable for direct burial or an equivalent product shall be utilized. The wire shall be installed in the same trench as the sewer or water supply piping within 12 inches

(305 mm) of the piping and shall be installed from within five feet of the building wall to the point where the building sewer or water supply system connects with the public system. At a minimum, one end of the wire shall terminate above grade in an accessible location that is resistant to physical damage, such as with a cleanout or at the building wall."

(28) In P2903.4, after "P2903.4.2.", insert:

"Thermal expansion shall be provided for all closed potable water systems."

(29) After section "P2903.4.2" insert:

"P2903.4.3 Non-pressurized expansion tanks. Non-pressurized expansion tanks shall be securely fastened to the structure and supported to carry twice the weight of the tank filled with water. Provisions shall be made for draining non-pressurized tanks without emptying the system.

P2903.4.4 Pressurized expansion tanks. Pressurized expansion tanks shall be consistent with the volume and capacity of the system. Tanks shall be capable of withstanding a hydrostatic test pressure of two and one-half times the allowable working pressure of the system.

P2903.4.5 Minimum capacity. The minimum capacity of expansion tanks shall be determined from the manufacturer's specifications."

(30) After section P2906.5, insert:

"Underground water service piping for public water systems shall be Type L copper. Private water service piping shall be Type K underground and Type L for above ground installations."

(31) After section P2906.5, insert:

"P2906.5.1 Water distribution piping. Inaccessible water distribution piping under slabs shall be copper water tube minimum Type L for public water systems and Type K for private water systems, brass, ductile iron pressure pipe, cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pressure pipe, chlorinated polyvinyl chloride (CPVC) or polybutylene (PB) or cross-linked polyethylene (PEX) plastic pipe or tubing, all to be installed with approved fittings or bends. The minimum pressure rating for plastic pipe or tubing installed under slabs shall be 100 psi at 180 F (689k Pa at 82 C)."

(32) After section P3007.1, insert:

"P3007.1.1 Dwellings. Dwellings served entirely by pumping systems shall use simplex pumping equipment with an integral alarm system."

(33) Strike Chapters 34 through 43 in their entirety.

(34) Appendix I Chapter 44 under ICC Strike "*International Private Sewage Disposal Code*" and substitute "Anne Arundel Private Sewage Code and Well Code".

(35) In section AI101.1, strike "*International Private Sewage Disposal Code*" and substitute "the Anne Arundel County Private

Sewage Disposal and Well Code".

(Bill No. 1-12; Bill No. 10-13; Bill No. 123-15; Bill No. 60-20)

INTERNATIONAL ENERGY CONSERVATION CODE AMENDMENTS

The provisions of the International Energy Conservation Code, 2018 edition, are amended, deleted, or corrected as follows, and the following provisions shall supersede the part of the text of the International Energy Conservation Code, 2018 edition, as indicated:

- (1) Strike Chapter 1 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions".
- (2) In section 202, in the definition of "Code Official" strike "The officer or other designated authority charged with the administration and enforcement of this Code, or a duly authorized representative." and substitute "The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code."

(Bill No. 1-12; Bill No. 123-15; Bill No. 60-20)

INTERNATIONAL EXISTING BUILDING CODE AMENDMENTS

The provisions of the International Existing Building Code, 2018 edition, are amended, deleted, or corrected as follows, and the following provisions shall supersede the part of the text of the International Existing Building Code, 2018 edition, as indicated:

- (1) Strike Chapter 1 in its entirety and substitute "Chapter 1 - Construction Code Administrative Provisions".
- (2) In section 202, in the definition of "Code Official", strike "the officer or other designated authority charged with the administration and enforcement of this Code, or a duly authorized representative" and substitute "the Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code".

(Bill No. 123-15; Bill No. 60-20)

NATIONAL ELECTRICAL CODE AMENDMENTS

The provisions of the National Electrical Code, 2017 edition, are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the National Electrical Code, 2017 edition, as indicated:

- (1) Strike Article 90 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions".
- (2) In Article 100, strike the definition of "Authority Having Jurisdiction (AHJ)" and substitute "The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code."
- (3) In section 210.52G, after "(3)", insert:

"A 120 volt, 15 or 20 amp receptacle supplying a permanently installed sump pump in an unfinished area shall not require GFCI protection provided that all of the following conditions are met:

 1. The sump pump does not require GFCI protection per manufacturers' instruction or listing;
 2. A single receptacle on a dedicated branch circuit shall be installed inside an adequately sized non-metallic enclosure that has a cover secured by screws or bolts; and
 3. Openings are installed on the bottom of the enclosure and are no larger than required for flexible cord to enter the enclosure."
- (4) In section 250.52(a)(3), after "(2):", insert:

"The concrete-encased electrode shall be the primary source for service grounding. Alternate methods shall be approved by the Director of Inspections and Permits."
- (5) In section 300.3(a), after "Chapter 3.", insert:

"Aluminum conductors sizes 12 and 10 will not be accepted under any circumstances. This does not affect copper clad conductors."
- (6) After section 408.38, insert:

"408.48.1 In addition, the highest available breaker space in the panelboard shall comply with section 240.24(A)."
- (7) In section 440.14, after "Nameplate(s).", insert:

"The wiring from the final disconnect means to the equipment being installed shall be copper wiring."
- (8) In section 702.4(b)(2)(A), after "Equipment.", insert:

"6500 watts shall be included in the full load calculation if a County owned and maintained sewage ejector or grinder pump is connected to an optional standby system."

(Bill No. 1-12; Bill No. 103-13; Bill No. 123-15; Bill No. 60-20)

INTERNATIONAL FUEL GAS CODE AMENDMENTS

The provisions of the 2018 International Fuel Gas Code are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2018 International Fuel Gas Code as indicated:

(1) Strike Chapter 1 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions".

(2) In section 202 (IFGC), in the definition of "Code Official" strike "The officer or other designated authority charged with the administration and enforcement of this Code, or a duly authorized representative" and substitute "The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code".

(Bill No. 1-12; Bill No. 123-15; Bill No. 60-40)

INTERNATIONAL MECHANICAL CODE AMENDMENTS

The provisions of the 2018 International Mechanical Code are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2018 International Mechanical Code as indicated:

(1) Strike Chapter 1 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions".

(2) In section 202 in the definition of "Code Official" strike "The officer or other designated authority charged with the administration and enforcement of this Code, or a duly authorized representative" and substitute "The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code".

(3) In section 202, after the definition of "Cooking Appliance" insert:

"Cooling System. A system in which heat is removed from air, surrounding surfaces, or both."

(4) In section 202, after the definition of "Discrete Product", insert:

"Domestic Refrigeration. A refrigeration system having a rating of less than five horsepower."

(5) In section 202, after the definition of "Electric Heating Appliance", insert:

"Electric Resistance Heat. Electric resistance heat includes baseboard heat, electric heat in room ceilings, electric heat in sidewalks and driveways, convective radiant heaters, and applications of heat developed by resistance elements. Electric resistance heat does not include duct work."

(6) In section 202, after the definition of "Heat Exchanger", insert:

"Heating System. A system in which heat is transmitted by radiation, conduction, or convection, or a combination of any of these, to air, surrounding surfaces, or both, except fireplaces and wood burning stoves not incorporated into or used as a primary heating system."

(7) In section 202, after the definition of "Hood", insert:

"Hydraulic System. A heating and cooling system using liquids to transmit or remove heat."

(8) In section 202, after the definition of "Purge", insert:

"Pursuit of the Mechanical Trade or Business. The act of installing, maintaining, or repairing air conditioning, heating, or refrigeration systems, excluding the transport of materials and equipment to the job site, the act of rigging for placement of equipment, the act of insulating components of the system, and the act of manufacturing and assembling such systems in a shop or manufacturing environment not on the job site."

(9) In section 306.3, after the last sentence and before the exceptions, insert:

"Access to the attic opening shall be provided by a permanent or pull down stairway in all new construction."

(10) In section 306.3, strike the exceptions in their entirety and substitute:

"Exception: In existing installations, portable ladders shall be acceptable."

(11) After section 312.1, insert:

"312.2 Outdoor design temperature. For the purposes of this Code the outdoor design temperatures shall be based upon 17 degrees F for heating and 89 degrees F for cooling."

(Bill No. 1-12; Bill No. 123-15; Bill No. 60-20)

INTERNATIONAL PLUMBING CODE AMENDMENTS

The provisions of the 2018 International Plumbing Code are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2018 International Plumbing Code as indicated:

(1) Strike Chapter 1 in its entirety and substitute "Chapter 1 – Construction Code Administrative Provisions".

(2) In section 202 in the definition of "Code Official" strike "The officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative" and substitute "The Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code".

(3) After section 301.3, insert:

"301.3.1 Abandonment of cesspools, septic tanks, and privies. No cesspool, septic tank, privy, or other means of private sewage disposal shall be permitted wherever a sewer under public ownership adjoins the property in question, and each and every existing cesspool, privy, or other means of private disposal shall be eliminated or left in a condition satisfactory to the County Department of Health. Abandonment shall be completed in accordance with the County Private Sewage Disposal and Well Code."

(4) After section 301.4, insert:

"301.4.1 Private well abandonment. Whenever a public water connection is provided for a property previously served by a well, the property owner shall be responsible for abandoning and closing the well in accord with the requirements of COMAR, 26.04.04.11. No well for household use shall be constructed on a property accessible to a public water main."

(5) After section 303.1, insert:

"303.2 Piping system identification. In commercial buildings or structures with multiple piping systems, all wastewater, stormwater, and grease lines shall be identified using stenciling or commercially available pipe labels. The labels shall indicate the pipe contents and the direction of flow. The interval of identification markings shall not exceed 25 feet."

(6) In section 305.4, strike "and not less than 12 inches (305 mm) below grade".

(7) In section 305.4.1, in the first sentence, strike "[Number] inches (mm)" and substitute "12 inches" and, in the second sentence, strike "[number] inches (mm)" and substitute "18 inches".

(8) After section 306.4, insert:

"306.5 Tracer wire. Nonmetallic sanitary sewer and nonmetallic water supply piping that connects to public systems shall be locatable. An insulated copper tracer wire, 10 AWG minimum in size and suitable for direct burial or an equivalent product shall be utilized. The wire shall be installed in the same trench as the sewer or water supply piping within 12 inches (305 mm) of the piping and shall be installed from within five feet of the building wall to the point where the building sewer or water supply system connects with the public system. At a minimum, one end of the wire shall terminate above grade in an accessible location that is resistant to physical damage, such as with a cleanout or at the building wall."

(9) In section 309.2, strike "3. Covers on potable water wells shall be sealed, except where the top of the casing well or pipe sleeve is elevated to at least 1 foot (305 mm) above the design flood elevation."

(10) After section 403.5, insert:

"403.6 Public swimming pools and spas. Public swimming pools and spas shall conform to this Code and the requirements set forth in COMAR, 10.17.01 and Article 11, Title 14, of the County Code."

(11) In section 410.4, delete "not more than 50 percent of".

(12) After section 504.7.2, insert:

"504.8 Thermal expansion. Thermal expansion shall be provided for all closed potable water systems.

504.8.1 Non-pressurized expansion tanks. Non-pressurized expansion tanks shall be securely fastened to the structure and supported to carry twice the weight of the tank filled with water. Provisions shall be made for draining non-pressurized tanks without emptying the system.

504.8.2 Pressurized expansion tanks. Pressurized expansion tanks shall be consistent with the volume and capacity of the system. Tanks shall be capable of withstanding a hydrostatic test pressure of 2 1/2 times the allowable working pressure of the system.

504.8.3 Minimum capacity. The minimum capacity of expansion tanks shall be determined from the manufacturer's specifications."

(13) In section 602.3.3, strike "connection to the plumbing system" and substitute "the issuance of the certificate of occupancy".

(14) After section 605.3, insert:

"Underground water service piping for public water systems shall be Type L copper. Private water service piping shall be Type K underground and Type L for above ground installations."

(15) After section 605.4, insert:

"Section 605.4.1 Under concrete slabs. Inaccessible water distribution piping under slabs shall be copper water tube minimum Type L for public water systems and Type K for private water systems, brass, ductile iron pressure pipe, galvanized steel pipe, chlorinated polyvinyl chloride (CPVC) or crosslinked polyethylene (PEX) plastic pipe or tubing - all to be installed with approved fittings or bends. The minimum pressure rating for plastic pipe or tubing installed under slabs shall be 100 PSI at 180°F (689 KPA at 82°C)."

(16) Strike section 608.18 in its entirety.

(17) In section 701.2, strike "International Private Sewage Disposal Code" and substitute "the Anne Arundel County Private Sewage Disposal and Well Code".

(18) After section 712.4.2, insert:

"**712.4.3 Structures.** Structures served entirely by pumping systems shall use alternating duplex pumping equipment with an integral alarm system."

(19) In section 903.1 insert "6" in the space indicated and strike "(mm)".

(20) After section 1003.3.8, insert:

"**1003.3.9 Location.** All grease interceptors shall be located outside the building served and shall be accessible for servicing."

(Bill No. 1-12; Bill No. 123-15; Bill No. 60-20)

INTERNATIONAL POOL AND SPA CODE AMENDMENTS

The provisions of the 2018 International Pool and Spa Code are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2018 International Pool and Spa Code as indicated:

(1) Strike Chapter 1, in its entirety, and substitute "Chapter 1 – Construction Code Administrative Provisions".

(2) In section 202, in the definition of "Code Official", strike "the officer or other designated authority charged with the administration and enforcement of this code, or a duly authorized representative", and substitute "the Director of Inspections and Permits, or duly authorized representative, charged with the administration and enforcement of this Code".

(Bill No. 60-20)

FIRE PREVENTION CODE AMENDMENTS

NFPA 1 UNIFORM FIRE CODE AMENDMENTS

The provisions of the NFPA 1 Uniform Fire Code, 2018 Edition, are amended, deleted or corrected as follows and the following provisions shall supersede the part of the text of the NFPA 1 Uniform Fire Code, 2018 Edition, as indicated:

(1) At the end of section 1.7.12.2, insert the following: "The AHJ shall be authorized to require plans to bear the stamp of a registered design professional."

(2) Strike section 1.10 in its entirety.

(3) Strike section 1.11.3 in its entirety.

(4) After section 1.12.1, insert:

"**1.12.1.1** Permits, certificates, notices, approvals, or orders required by this Code shall be governed by the policies and procedures of the AHJ.

1.12.1.1.1 Permits. All County permits shall comply with this Code. Before any fire protection system, automatic fire suppression system, fire sprinkler system, fire pump, fire alarm and detection system, or standpipe system, or any related equipment or appurtenance is installed, modified, replaced, or removed, a permit shall be obtained from the County Department of Inspections and Permits. No work may begin prior to the issuance of any required permit."

(5) In section 1.12.6.13, after "permits", strike "shall" and substitute "may".

(6) In section 1.12.8, after "permits", strike "shall" and substitute "may".

(7) In section 1.13.2, strike "**mandatory.**"; and strike "shall" and substitute "may".

(8) Strike section 1.13.12.4 in its entirety.

(9) Strike section 1.16.4.2 in its entirety.

(10) After section 1.16.5, insert:

"**1.16.6 Application for extension.** An application for an extension of time to correct any violation shall be deemed to be an admission that the notice of violation is factually and procedurally correct and that the violation or violations do or did exist."

(11) In sections 2.1.1 and 2.1.2, before "compliance", insert "where permitted by the AHJ".

(12) In section 2.2, strike "NFPA 5000, *Building Construction and Safety Code*, 2018 Edition" and substitute "Anne Arundel County Building Code"; wherever NFPA 5000 is referenced, other than for extracted text, substitute "Anne Arundel County Building Code"; and strike "NFPA 150, *Standard on Fire and Life Safety in Animal Housing Facilities*, 2016 Edition" and substitute "NFPA 1124, *Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles*, 2006 Edition".

(13) After section 3.3.14.2, insert:

"**3.3.14.13 Consumer fireworks retail sales area.** The portion of a consumer fireworks retail sales facility or store, including the immediately adjacent aisles, where consumer fireworks are located for the purpose of retail display and sale to the public."

(14) At the end of sections 3.3.130 and 3.3.130.1, insert "and as referenced in § 10-101 of the Public Safety Article of the State

Code".

- (15) In section 3.3.192.6, strike "more than 3 but".
- (16) In section 3.3.192.7, strike "four or more".
- (17) In section 3.3.192.25, strike "three" and substitute "five"; and strike "if any, accommodated in rented rooms".
- (18) In section 3.3.192.28, strike "four" and substitute "six".
- (19) In section 4.5.8.1, strike "for compliance with the provisions of this Code".
- (20) In section 4.5.8.3, strike "by the Code".
- (21) In section 6.1.4.1, strike "four or more".
- (22) In section 6.1.8.1.1, strike "three" and substitute "five"; and strike "if any, accommodated in rented rooms".
- (23) In section 6.1.9.1, strike "four" and substitute "six".
- (24) In section 10.1.2, after "NFPA 101", insert ", except as amended by COMAR 29.06.01.07, COMAR 29.06.01.08, and COMAR 29.06.01.09".
- (25) After section 10.3.3, insert:

"10.3.3.1 Occupancy of buildings or structures. Any new building under construction; or that portion of any existing building undergoing renovations; or any building or structure posted or otherwise determined to be unsafe by the authority having jurisdiction, shall not be occupied at any time, in whole or in part, except by those persons directly and actively involved in construction activities or in the abatement, correction, or inspection of deficiencies. No building, structure or portion thereof shall be occupied without prior approval by the AHJ.

10.3.3.2 Stocking, and/or temporary or partial occupancy shall require, at a minimum, full compliance with all applicable NFPA 101, *Life Safety Code* requirements relating to means of egress, and final acceptance by the authority having jurisdiction of all required fire protection systems.

10.3.3.3 Use and occupancy of buildings and structures shall be in accordance with the Anne Arundel County Building Code".

- (26) In sections 10.4.1 and 10.4.2, after "AHJ", insert "or incident commander".
- (27) In section 10.4.3, after the first "building", insert "and additional persons shall not enter the building"; and at the end of section 10.4.3 insert "building re-entry shall not occur until authorized by the Fire Department incident commander".
- (28) Strike section 10.6.1.1 in its entirety and substitute:

"10.6.1.1 The person discovering any unwanted fire, regardless of magnitude, or other hazardous condition, such as, but not limited to, flammable gas leaks, hazardous materials spills or releases, or suspicious packages, shall take the following actions:

- (1) immediately notify the owner, manager, or any person in control of such building or premises, and all occupants in the immediate vicinity of the emergency. If the building is equipped with a manually activated fire alarm system, it shall be the duty of any person who has knowledge of an emergency to ensure the manual alarm system is activated; and

- (2) notify the Fire Department without delay."

- (29) In section 10.6.1.4, after the first "fire", insert "or other hazardous condition".

- (30) In section 10.10, after "open fires", insert "ignition sources,".

- (31) After section 10.10.4, insert:

"All open burning shall be in compliance with Article 11, Title 5 of the County Code. Open fire licenses shall be obtained from the County Health Department and shall be kept at the burning site during burning operations. Open burning operations judged to be in violation of the approved license, or that are judged to constitute a public safety hazard or public nuisance shall be cause for suspension or revocation of the license and the fire shall be extinguished when so ordered by the incident commander or authority having jurisdiction."

- (32) After section 10.10.5.2, insert:

"10.10.5.3 A readily accessible means of notifying the Fire Department shall be provided at all times."

- (33) In section 10.10.6.1, after "hibachi," insert "gas-fired grill, charcoal"; and strike "10 ft (3 m)" and substitute "15 ft (4.6 m)".

- (34) In section 10.10.6.2, after "hibachi," insert "gas-fired grill, charcoal".

- (35) After section 10.10.10, insert:

"10.10.11 Ignition sources.

10.10.11.1 Clearance or shielding from ignition sources. Clearance or shielding with approved thermal barriers shall be maintained in an approved manner between combustible materials and any ignition source, such as light fixtures, fixed heating equipment, portable heating appliances, flame-producing devices, and other appliances or equipment where heat is produced as a by-product of its operation.

Proper clearance or shielding may be determined from equipment or appliance manufacturer's specifications or as determined by the authority having jurisdiction.

10.10.11.2 Hot ashes and spontaneous ignition sources. Hot ashes, cinders, smoldering coals, or greasy or oily materials subject to spontaneous ignition shall not be deposited in a combustible receptacle, within 10 feet (3048 mm) of other combustible material including combustible walls and partitions or within two (2) feet (610 mm) of openings to buildings.

Exception: The minimum required separation distance to other combustible materials shall be two feet (610 mm) where the material is deposited in a covered, noncombustible receptacle placed on a noncombustible floor, ground surface, or stand."

(36) At the end of section 10.11.1.1, after "property.", insert "Premises identification shall be in accordance with § 12-5-101 of the County Code."

(37) After section 10.11.1.1, insert:

"10.11.1.1.1 Individual suites within structures and rear exterior entrances to individual tenant suites and/or access from service corridors shall be identified by clearly legible numbers and/or alphabet letters as necessary for Fire Department identification. Numbers or letters shall be at least 1 inch in height for interior suite doors and 3 inches in height for rear exterior doors."

(38) After section 10.11.1.8, insert:

"10.11.1.9 Where required by the AHJ, symbols in compliance with NFPA 170 *Standard for Fire Safety and Emergency Symbols* shall be used. Fire Department connections to standpipes, automatic sprinkler systems, fire suppression water supplies, and other fire protection equipment, shall be marked such that the sign or other approved marking is readily visible by approaching fire apparatus. NFPA 170 symbols shall be on minimum 12 inch square signs unless otherwise approved.

10.11.1.10 Equipment and controls marking. Fire protection equipment shall be identified in an approved manner. Rooms containing controls for HVAC systems, sprinkler risers and valves, or other fire detection, suppression, or control elements shall be identified for the use of the Fire Department. Approved signs required to identify fire protection equipment and equipment location shall be constructed of durable materials, permanently installed and readily visible.

10.11.1.11 Street or road signs. Streets and roads shall be identified with approved signs. Temporary signs shall be installed at each street intersection when construction of new roadways allows passage by vehicles. Signs shall be of an approved size and weather resistant, and shall be maintained until replaced by permanent signs."

(39) In section 10.13.1.1, before "Christmas", insert "unless otherwise approved by the AHJ,".

(40) After section 10.13.1.1, insert:

"10.13.1.2 The AHJ shall:

- (1) approve the placement of a natural cut or balled tree;
- (2) limit the number of natural cut or balled trees displayed; and
- (3) order the removal of any tree if the tree poses a hazard to life or safety."

(41) In section 10.13.3.1, strike "by the manufacturer" and substitute "by a testing laboratory recognized by the Office of the State Fire Marshal".

(42) In section 10.13.9.1, strike "½ in. (13 mm)" and substitute "2 in. (50 mm)"; and at the end of the section, after "water.", insert "A natural cut tree shall not exceed 10 ft (3m) in height, excluding the tree stand."

(43) In section 10.14.2, after "vehicles", insert "egress to a public way".

(44) In section 10.14.11.2.6, after "vehicles" insert ", buildings,".

(45) In section 10.15.1, strike "10 ft (3m)" and substitute "15 ft (4.6 m)"; and after "line" insert "building, or adjacent pile of combustible material. The separation distance shall be allowed to be increased where the AHJ determines that a higher hazard to the adjoining property exists".

(46) In section 10.15.5, after "height" insert "and shall not exceed 10,000 ft² in area".

(47) After section 10.15.5, insert:

"10.15.6 The authority having jurisdiction shall have the authority to require that outdoor storage of any combustible material be enclosed by an approved fence or other protective enclosure to prevent unauthorized access."

(48) In section 10.18.7, after "repaired" insert "on any balcony, under any overhanging portion, or".

(49) After the title "Chapter 11 Building Services", and before section 11.1, insert:

"11.0 Wiring and electrical equipment definitions. The following terms in section 11.1 have the meanings indicated:

(1) *Appliance, portable,* is a device operated by electricity that is capable of being hand-carried or is easily moved from one place to another in normal use.

(2) *Appliance, stationary,* is a device operated by electricity, which is not affixed to a structure and which is not easily moved

from one place to another.

(3) *Extension cord* is a portable flexible cord of any length which has one male connector on one end and one or more female connectors on the other, and no built-in over-current protection.

(4) *Flexible cord* is multi-conductor flexible sheathed cable which is used for extension cords, as the connection means for appliances, and for permanent use by connecting pieces of equipment or devices to each other or to the premises wiring system where flexibility or portability is required.

(5) *Multi-plug adapter* is a device that plugs into a receptacle and allows that receptacle to supply power to more appliances or fixtures than that for which it was originally designed, such as cube adapters, strip plugs, and multi-plug extension cords.

(6) *Panel board, electrical*, is a single panel, or group of panel units designed for assembly in the form of a single panel, with automatic over-current devices and with or without switches for the control of light, heat, or power circuits, and designed to be placed in a cabinet or cutout box placed in or against a wall or partition and accessible only from the front. See *switchboard, electrical*.

(7) *Permanent wiring* is wiring affixed to a structure in accordance with the Electrical Code.

(8) *Power tap* is a device for outdoor use consisting of an attachment plug on one end of a flexible cord and two or more receptacles on the opposite end, and has over-current protection.

(9) *Receptacle* is an electrical outlet designed for use with a plug or connector for the purpose of supplying electrical power to an appliance.

(10) *Switchboard, electrical*, is a large floor-mounted single panel, frame or assembly of panels on which are mounted, on the face or back or both, switches, over-current and other protective devices, buses and usually instruments. Most modern switchboards, even though totally enclosed, are generally accessible from the rear as well as from the front, and are not intended to be installed in cabinets. See *panel board, electrical*.

(50) After section 11.1.3.2, insert:

"**11.1.3.3 Multi-plug adapters.** Approved multi-plug adapters and strip plug devices shall be plugged directly into permanently installed receptacles."

(51) After section 11.1.7.3.1 insert:

"**11.1.7.3.2** Doors to electrical control panel rooms shall be marked with a plainly visible and legible sign stating electrical room or similar approved wording in contrasting letters not less than 1 in. (25 mm) high and not less than 1/4 in. (6.4 mm) in stroke width."

(52) After section 11.1.8, insert:

"**11.1.9 Clearance.** A clear space of not less than 30 inches (762 mm) in width, 36 inches (914 mm) in depth, and 78 inches (1981 mm) in height shall be provided in front of electrical service equipment. Where the electrical service equipment is wider than 30 inches (762 mm), the clear space shall not be less than the width of the equipment. No storage of any materials shall be located within the designated clear space.

Exception: Where other specialized dimensions are required or permitted by NFPA 70.

11.1.10 Illumination. Normal and emergency lighting shall be provided for all service equipment areas, motor control centers, and electrical switchboards and panel boards.

11.1.11 Electrical wiring, devices, appliances, or other equipment that have been installed without required permits and inspections, or approved wiring, devices, or other equipment that have been modified, damaged, or otherwise constitutes an electrical shock or fire hazard shall not be used. Appliances shall not be used in a manner that will create a fire hazard.

11.1.12 Electrical listing requirements. Electrical appliances, devices, and fixtures shall be tested and listed for their intended use and bear the mark or seal of a testing laboratory which is listed, approved, or otherwise recognized by any one or more of the following: U.S. Department of Labor, Occupational Safety and Health Administration; National Volunteer Laboratories Accreditation Program; International Accreditation Service, Inc.; International Code Council; or American Association For Laboratory Accreditation (A2LA).

11.1.13 Electrical motors. Electrical motors shall be maintained in a manner free from accumulations of oil, dirt, waste, and other debris which will interfere with required motor ventilation or otherwise create a fire hazard."

(53) After section 11.2.1, insert:

"**11.2.1.1 HVAC duct smoke detectors.** Activation of HVAC duct smoke detectors shall transmit a supervisory signal rather than an alarm signal."

(54) At the end of section 11.3.6.1, insert "keys for new elevators shall be cut to a uniform key code to comply with the Maryland State Elevator Code."

(55) After section 11.5.1.7, insert:

"**11.5.1.7.1 Gasoline stoves.** Use of gasoline stoves or other similar devices or appliances using Class I liquids as defined by NFPA 30, *Flammable and Combustible Liquids Code* (2018 Edition) for heating or cooking within structures or buildings, or under tents or canopies is prohibited."

(56) In the title of section 11.5.2, strike "and" and substitute a comma; and after "stoves", insert

", and unvented portable kerosene-fired heaters".

(57) After section 11.5.2.3, insert:

"**11.5.2.3.1** Kerosene heaters shall only be used as permitted under COMAR 29.06.01.14B., Commercial Law Article, § 14-1310, of the State Code, and this Code."

(58) Renumber section 11.8.1 to be section 11.8.1.1.

(59) After the section title "**11.8. Smoke control**", and before renumbered section 11.8.1.1, insert:

"**11.8.1** Acceptance testing methods and protocols for smoke control systems shall be submitted to the authority having jurisdiction for approval prior to the issuance of a permit."

(60) In section 11.9.1, strike "approved by the Fire Department", and substitute "approved by the AHJ".

(61) In section 13.1.3, before "in Chapters 11 through 43", insert "by the AHJ and".

(62) After section 13.1.7, insert:

"**13.1.7.1 Defective alarm systems.** An alarm system is presumed to be defective and in violation of this Code and subject to civil fines in accordance with Title 5 of Article 15 of the County Code if:

- (1) more than three (3) unnecessary alarms or requests for assistance occur within a 30-day period; or
- (2) eight (8) or more unnecessary alarms or requests for assistance occur within a 12-month period.

13.1.7.1.1 Unnecessary alarms means an alarm activation or request for assistance to the Fire Department. Unnecessary alarms include negligently or accidentally activated alarms, alarm activations due to faulty, malfunctioning, or improperly installed or maintained equipment and an activation that is purposely initiated in a nonemergency situation.

13.1.7.1.2 Unnecessary alarms do not include alarms activated due to unusually severe weather conditions or other conditions or causes beyond the control of the user or occupant.

13.1.7.2 Upon written notice from the authority having jurisdiction, an alarm user who has responsibility for a defective alarm system shall:

- (1) have the alarm system inspected within thirty (30) days by a qualified alarm system contractor, or user if qualified.
- (2) within fifteen (15) days after the inspection, file a written report with the authority having jurisdiction containing the following information:
 - (A) the results of the alarm system contractor or alarm user's inspection;
 - (B) the probable cause of the unnecessary alarms; and
 - (C) actions taken or recommendations for eliminating unnecessary alarms.

13.1.7.3 An alarm user who continues the operation of a defective alarm system is in violation of this Code and subject to a civil fine as provided in this Article."

(63) After section 13.1.13, insert:

"**13.1.14 Materials and equipment reuse.** Materials, equipment, appliances, or devices for fire protection systems shall not be reused or reinstalled unless such elements have been reconditioned, tested, and placed in good and proper working condition and approved by the authority having jurisdiction.

13.1.15 Fusible links or elements. Any fusible link or fusible element that is a part of any fire protection system found to be painted, corroded, damaged, or loaded with foreign material shall be replaced.

13.1.16 Kitchen hood fire suppression systems and non-water based fixed fire extinguishing systems. A license shall be obtained from the State Fire Marshal's office by every individual, firm, or corporation commercially installing, servicing, or repairing kitchen hood fire suppression systems or non-water based fixed fire extinguishing systems.

13.1.17 Building Code application. Fire protection systems shall be required, installed, repaired, operated and maintained in accordance with this Code and with the Building Code for Anne Arundel County.

13.1.18 Appearance of equipment. The AHJ shall be permitted to prohibit any device that has the physical appearance of a life safety or fire protection function but does not perform that life safety or fire protection function."

(64) After section 13.3.1.1, insert:

"**13.3.1.1.1** A fire sprinkler contractor license shall be obtained from the State Fire Marshal's office to inspect, test, perform maintenance on, install, modify, or lay out fire sprinkler systems in any residential or commercial building as required in COMAR 29.06.05."

(65) After section 13.3.1.2, insert:

"**13.3.1.2.1** For new ceiling installations, drop-out ceilings as referenced in NFPA 13, section 8.15.14 shall be prohibited."

(66) After section 13.3.1.8.2.2, insert:

"13.3.1.8.3 Sprinkler system supervision, monitoring, and alarms shall be in accordance with the International Building Code as adopted by Anne Arundel County."

(67) After section 13.3.1.9, insert:

"13.3.1.10 **Occupant notification of sprinkler activation.** Where a fire alarm system is installed, activation of the automatic sprinkler system shall activate the building fire alarm system. Where no fire alarm system is present, the automatic sprinkler system shall activate, at a minimum, one audiovisual device within the protected premises in a normally occupied area, to provide occupant notification of sprinkler system activation. Additional audiovisual devices may be required as determined by the authority having jurisdiction."

(68) After section 13.3.2.1, insert:

"13.3.2.1.1 All new buildings shall be equipped with an automatic sprinkler system or other automatic fire suppression system where required by the *International Building Code* as adopted by the Anne Arundel County Building Code."

(69) After section 13.3.2.17.8, insert:

"13.3.2.17.9 **Sprinkler zone/address coordination.** Apartment buildings protected with sprinkler systems designed and installed in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems*, or NFPA 13R, *Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height*, shall be zoned such that each entrance stairwell shall be served by a separate sprinkler zone, regardless of fire separation between buildings or dwelling units. Each entrance stairwell zone shall be identified by the appropriate building address for system monitoring and emergency forces notification purposes."

(70) In section 13.3.3.1, strike "installed in accordance with this Code".

(71) In section 13.3.3.2., strike "installed in accordance with this Code".

(72) At the end of section 13.3.3.4.1.8, after "identified.", insert: "Valve and riser rooms shall have direct access from the building exterior unless an alternative location and access has been approved by the AHJ."

(73) After section 13.4.1.1, insert:

"13.4.1.1.1 **Pits or vaults.** No fire pump component, including the pump, driver, or controller, shall be permitted to be installed in below-ground vaults or pits, unless otherwise approved by the AHJ."

(74) In section 13.6.1.2, after "Chapter 2", insert "unless otherwise permitted by the authority having jurisdiction".

(75) After section 13.6.4.1.1, insert:

"13.6.4.1.1.1 **License to service or repair portable fire extinguishers.** A license shall be obtained from the State Fire Marshal's office by every individual, firm, or corporation commercially servicing, repairing, filling, or refilling portable fire extinguishers, except Fire Departments."

(76) In section 13.6.4.1.2.1, strike "certified", and substitute "licensed as required by the AHJ".

(77) Strike in their entirety sections 13.6.4.1.2.1.1 through 13.6.4.1.2.1.6.

(78) In section 13.6.4.1.2.3, strike "certified", and substitute "licensed".

(79) After section 13.7.1.8.7, insert:

"13.7.1.8.7.1 **Smoke detector power supply - general.** Where automatic fire or smoke alarms are required by other sections of this Code, and are required or permitted to be powered by the building electrical system, the circuit supplying power to the smoke alarms shall be protected by circuit breaker locks or other means approved by the authority having jurisdiction to prevent interruption of power to the smoke alarms."

(80) In section 13.7.2.28.1.2, after "occupancies", insert "less than three stories".

(81) In section 13.7.2.28.1.3, after "occupancies", insert "less than three stories".

(82) In section 14.13.1.2, in the second line, strike "only" and substitute ", but not be limited to,".

(83) After section 18.2.1, insert:

"18.2.1.1 **Area modifications - Fire Department access requirements.** Whenever there have been area modifications applied in accordance with the County Building Code, an approved fire apparatus access road in accordance with section 18.2 shall be required along the perimeter where the frontage increase is calculated. This requirement is in addition to Building Code requirements for open or unoccupied space."

(84) After section 18.2.2.3, insert:

"18.2.2.3.1 **Maintenance of exterior doors and openings.** Exterior doors or their functions shall not be eliminated without prior approval by the authority having jurisdiction. Exterior doors which have been rendered nonfunctional and which retain a functional door exterior appearance shall have a sign affixed to the exterior side of such door stating, "This door is blocked." The sign shall consist of letters having a principal stroke of not less than 3/4 inch (19.1 mm) wide and at least 6 inches (152.4 mm) high on a contrasting

background.

18.2.3.2 Access to building openings. Exterior doors and openings required by this Code shall be maintained readily accessible for emergency access by the Fire Department. An approved access walkway leading from fire apparatus access roads or fire lanes to exterior openings required by this Code shall be provided as determined by the authority having jurisdiction."

(85) In section 18.2.3.2.1, after "door" insert "acceptable to the AHJ".

(86) In section 18.2.3.2.2.1, strike "increased to 450 ft (137 m)" and substitute "modified by the AHJ".

(87) After section 18.2.3.5.1.1.2, insert:

"18.2.3.5.1.1.3 Setback requirements. Fire Department access roads shall be located a minimum of 10 feet from the outermost projection of the protected structure."

(88) In section 18.2.3.5.2, strike "the imposed loads of fire apparatus" and substitute "a minimum of 40 tons"; and after "surface", insert "consisting of concrete, asphalt, compacted gravel, or other approved surfaces. Grass covered surfaces are prohibited."

(89) In section 18.2.3.5.3.1, strike "as approved by the AHJ" and substitute "a minimum of 47 feet outside radius and 38 feet inside radius".

(90) After section 18.2.3.5.6.1, insert:

"18.2.3.5.6.1.1 Maximum grades for Fire Department access roads are as follows:

- (1) Concrete surfaces - 15%
- (2) Asphalt surfaces - 12%
- (3) Other approved surfaces - 5%
- (4) Cross grade - 5%."

(91) At the end of section 18.3.1, after "18.4.", insert "Lakes, streams, creeks, rivers, bays or other similar open sources are not approved water sources."

(92) In section 18.3.1.1, strike "approved reservoirs, pressure tanks, elevated tanks, Fire Department tanker shuttles, or".

(93) After section 18.3.1.1, insert:

"18.3.1.1.1 Water allowance. The total required water supply calculated in accordance with NFPA 1142, *Standard on Water Supplies for Suburban and Rural Fire Fighting*, may be reduced by up to 9,000 gallons in consideration of the amount of water transported to the scene by Fire Department apparatus.

18.3.2 Multiple structures on a single site. Multiple structures on a single site or property shall be permitted to use a single, approved water source to protect all structures on the property provided all of the following requirements are met:

- (1) The water source is owned by or under the legal control of the property owner. Written, properly executed and legally-binding access rights to a water supply, in perpetuity, shall be permitted;
- (2) The water source is sized to provide an adequate water supply for the most demanding building on site, plus exposure protection as required by NFPA 1142;
- (3) The water source is within 1,000 feet of the most remote point of any building being protected; and
- (4) There is unobstructed access between the water source and all protected buildings that would prevent or unnecessarily delay Fire Department units from accessing the water supply, or extending hose lines from the water supply to any protected building on the property.

18.3.3 Underground fire suppression water storage tanks. Fire apparatus connections to required underground fire suppression water storage tanks shall be located at least 40 feet from any structure on the site at a location approved by the authority having jurisdiction. Minimum tank size shall be 10,000 gallons.

18.3.4 Fire Department water supplies. No person shall damage, tamper with, operate, use, disturb, or obstruct in any manner any public or private fire hydrant, or other approved water supply required to be installed or maintained under the provisions of this Code.

Exception No. 1: Lawful uses allowed by special permit from the Department of Public Works.

Exception No. 2: Use of private hydrants with the express permission of the owner of such hydrant.

Exception No. 3: Use by the Fire Department or the Department of Public Works in the performance of official duties."

(94) After section 18.4.5.4, insert:

"18.4.5.5 Fire flow tests.

18.4.5.5.1 A fire flow test report shall be provided to the authority having jurisdiction prior to final approval of the fire suppression water supply. Fire flow tests shall be conducted and fire flow test reports provided by the County Department of Public Works. Under certain conditions, the authority having jurisdiction may require a fire flow test to be conducted and witnessed by a representative of the

Fire Marshal Division.

18.4.5.5.2 Fire flow tests - validity. Fire flow test reports shall be considered valid for a period of twelve (12) months after the date performed. Reports older than twelve (12) months shall not be recognized as supporting documentation for hydraulic calculations for water-based fire protection systems."

(95) After section 18.5.1.6, insert:

"**18.5.1.7** Hydrants shall be located at street intersections whenever possible.

Hydrants not located at intersections shall be located in relation to property lines in order to avoid interference with future driveways.

18.5.1.8 Hydrant spacing is to be measured linearly along an improved roadway or Fire Department access road; radial measurements are not appropriate.

18.5.1.9 Where fire hydrants cannot be located 40 feet or greater from a building, spacing for that hydrant to at least one adjacent hydrant shall be reduced 50 percent.

18.5.1.10 Wall hydrants. Wall hydrants shall not be permitted in place of required standard fire hydrants to meet hydrant coverage requirements.

Exception: As may be approved by the authority having jurisdiction after a review of unique or special circumstances.

18.5.1.11 Fire hydrants shall be installed in accordance with NFPA 24 and Anne Arundel County Department of Public Works requirements."

(96) In section 18.5.6, after "Department" insert "under all weather conditions. Access to all water supplies shall be by a paved street or road, or an approved fire lane or Fire Department access road. All approved drafting locations shall be provided with a paved fire apparatus access apron per the County Department of Public Works Detail I-64 and I-64A".

(97) After section 18.5.6, insert:

"**18.5.6.1** Fire hydrants and connections to other approved water supplies shall be kept unobstructed at all times for a distance of not less than 15 feet as measured linearly along the road edge."

(98) After section 18.5.10.3, insert:

"**18.6 Fire Department connections.**

18.6.1 Fire Department connections to building fire sprinkler and standpipe systems shall be located within 100 feet of a paved fire department access road. Fire Department connections shall be within 100 feet of a fire hydrant.

18.6.1.1 Fire Department connections for pier standpipe systems shall be placed so that they are within 100 feet of an approved fire access road.

18.6.1.2 Fire Department connections shall be on the main entrance side of the building unless otherwise approved by the AHJ.

18.6.1.3 Fire Department connections shall be visible, accessible, and unobstructed.

18.6.1.4 Unless otherwise determined by the AHJ, one 5" Storz Fire Department inlet with cap and chain shall be used."

(99) In sections 20.3.4.1.1 and 20.3.4.1.2, strike "more than 3, but"; and after "12", strike the comma.

(100) In section 25.2.2.1, after "NFPA701", insert "or other approved testing standard approved by the State Fire Marshal".

(101) After section 26.1.6.1, insert:

"**26.1.6.2** When requested by the AHJ, a hazard assessment shall be conducted by a technically qualified person acceptable to the AHJ.

26.1.6.3 When requested by the AHJ, a list of hazardous materials used in each laboratory shall be provided. The list shall specify the chemical name, quantity, and hazard class.

26.1.6.4 New laboratories or laboratories for which the NFPA 45 laboratory hazard classification changes shall post an information placard near the main entrance to the laboratory. The placard shall state the building name or address, room number, NFPA 56 laboratory hazard classification, edition of NFPA 45, maximum allowable quantities of flammable liquids inside a storage cabinet and in open use, and maximum quantities of flammable gases permitted within the laboratory."

(102) After section 26.2, insert:

"**26.3 Construction.**

26.3.1 All laboratories, laboratory suites, or laboratory units within the scope of NFPA 45, regardless of the NFPA 45 laboratory hazard classification, shall be separated by at least one-hour fire resistance-rated construction from non-laboratory areas. If a higher fire resistance rating is required by Table 5.1.1 in NFPA 45 or the Building Code, the higher fire resistance rating shall be used. Rooms that are an incidental use to the laboratory shall be considered part of the laboratory for the purpose of this requirement and shall not require additional separation."

(103) In section 28.1.2.3.3, strike "28.1.2.3.7" and substitute "28.1.2.3.9.1".

(104) Strike section 28.1.2.3.5 in its entirety and substitute:

"28.1.2.3.5 Minimum pipe size and flow. Minimum pipe size shall be 2 inches. The pipe shall be hydraulically calculated such that no less than 300 gpm can be delivered at the farthest outlet with no more than 15 psi per 100 feet friction loss."

(105) After section 28.1.2.3.7, insert:

"28.1.2.3.8 Fire Department connection. Unless otherwise determined by the AHJ, one 5" Storz Fire Department inlet with cap and chain shall be located on the shoreline at the beginning of the pier or wharf within 100 feet of closest fire apparatus access via an approved fire lane or fire apparatus access road.

28.1.2.3.8.1 Fire department connection access. The areas immediately surrounding and/or adjacent to these connections, as determined by the authority having jurisdiction, are to be designated and marked as fire lanes. Vehicle parking, boat storage, and all other obstructions to the movement of fire apparatus and Fire Department personnel in these areas shall be prohibited.

28.1.2.3.9 Standpipe outlets. One 2 ½- inch national standard threaded male outlet with shut-off valve shall be located on the pier every 100 feet or fraction thereof as measured from the beginning of the pier. An outlet shall also be provided at the beginning of the pier if the distance from fire apparatus access to the pier exceeds 100 feet. All outlets shall be provided with caps secured by chains.

28.1.2.3.9.1 Outlet height. Each 2 ½ inch outlet shall be mounted no less than 18 inches or more than 24 inches above the pier decking."

(106) In section 31.3.6.2.2, after item (8), insert:

"(9) Piles containing leaves and other extraneous or hogged material, such as whole tree chip piles, shall be turned or reclaimed at least every 3 months."

(107) Strike section 31.3.6.3.1 in its entirety and substitute:

"31.3.6.3.1 Piles shall not exceed 18 feet in height, 50 feet in width, and 350 feet in length. Piles shall be subdivided by fire lanes having at least 30 feet of clear space at the base of piles."

(108) Strike section 31.3.6.3.2 in its entirety.

(109) Strike Chapter 35, "Animal Housing Facilities", in its entirety.

(110) In section 42.7.5.5, after "AHJ.", insert "The following information shall be conspicuously posted in this area:

- (1) the exact address of the unattended self-service facility; and
- (2) the telephone number of the owner or operator of the unattended self-service facility."

(111) After section 42.7.5.6, insert:

"42.7.5.7 Owners, managers, or employees of the unattended self-service facility shall conduct daily site visits to ensure that all equipment is operating properly.

42.7.5.8 Regular equipment inspection and maintenance at the unattended self-service facility shall be conducted.

42.7.5.9 Fuel-dispensing equipment shall comply with one of the following:

- (1) the amount of fuel being dispensed is limited in quantity by preprogrammed card; or
- (2) dispensing devices shall be programmed or set to limit uninterrupted fuel delivery of not more than 25 gallons and shall require a manual action to resume continued delivery."

(112) After section 50.2.1.9, insert:

"50.2.1.10 Commercial outdoor cooking operations. These requirements apply to commercial cooking operations that typically take place under a canopy, tent-type structure, vendor stands or other normally uninhabited structures, at fairs, festivals, and carnivals and intended for temporary use. Use includes, but is not limited to, deep frying, sauteing, and grilling operations and similar uses producing smoke or grease-laden vapors.

50.2.1.10.1 Tent and canopy requirements.

50.2.1.10.1.1 Temporary tents, canopies or other normally unused structures where cooking equipment that is not protected in accordance with NFPA 96 is located shall not be occupied by the public and shall be separated from other tents, canopies, structures, or vehicles by a minimum of 10 ft unless otherwise approved by the AHJ.

50.2.1.10.1.2 All tent and canopy material shall comply with the flame resistance requirements of section 25.2.2.

50.2.1.10.2.5 All lp gas equipment shall be properly maintained and comply with applicable requirements of NFPA 58.

50.2.1.10.2.6 Regulators. Single-stage regulators may not supply equipment that is rated more than 100,000 btu/hr. Two-stage regulators shall be used with equipment that is rated more than 100,000 btu/hr.

50.2.1.10.3 General safety requirements.

50.2.1.10.3.1 All electrical cords shall be maintained in a safe condition and shall be secured to prevent damage.

50.2.1.10.3.2 Movable cooking equipment shall have wheels removed or shall be placed on blocks or otherwise secured to prevent movement of the appliance during operation.

50.2.1.10.3.3 Portable fire extinguishers shall be provided in accordance with NFPA 1, section 50.4.12."

(113) After section 50.5.2.8.1, insert:

"50.5.2.9 Servicing of non-compliant fire extinguishing systems. An inspection tag that indicates compliance shall not be attached to any fire extinguishing system if that system is not in full compliance with all applicable sections of the Code unless the system or condition was previously approved by the AHJ. Written notice of a non-compliant fire extinguishing system shall be provided to the AHJ by the service company within 30 days of the service.

50.5.2.9.1 Modifications - permits required. Fire extinguishing systems not in compliance with this Code shall be modified to bring them into compliance after obtaining any required permits."

(114) In section 50.7.2.3.4, strike "an approved company", and substitute "a gas fitter certified by the Maryland Department of Labor, Licensing, and Regulation", and, at the end of section 50.7.2.3.4, insert:

"The certification documentation shall include: (1) the name of the gas fitter; (2) the number of the license or certification that the gas fitter is approved to install, inspect, and maintain lp gas systems; (3) the corporate name of the mobile food service business; (4) the identifying name on the side of the mobile food vehicle; (5) the date of inspection; (6) the vehicle tag number and VIN; and (7) a signed statement by the certified gas fitter that reads, "the lp-gas system has been inspected for compliance with the current edition of NFPA 58 and found to be in compliance. In addition, leak detection has been conducted on the lp-gas system piping, and the piping has been found to maintain integrity." In addition, leak detection has been conducted on the lp-gas system piping, and the piping has been found to maintain integrity."

(115) In section 60.5.1.9.2(5), after "tank" insert "and not less than the height of the poles plus 12 inches".

(116) At the end of sections 65.2.3, 65.3.3, and 65.4.2, insert:

"Permits shall be obtained from the Maryland State Fire Marshal for the following:

- (1) fireworks displays;
- (2) pyrotechnics before a proximate audience; and
- (3) flame effects before an audience."

(117) At the end of section 65.2.2, insert ", the *Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles*, 2017 edition."

(118) At the end of section 65.5.2, insert ", the *Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles*, 2017 edition."

(119) After section 65.5.2, insert:

"65.5.3 Sparklers. Sale or use of sparklers and fireworks shall comply with the following:

(1) Before the sale, offering for sale, or use of any sparkler within the State, every manufacturer of sparklers shall submit sufficient samples for inspection to the State Fire Marshal, with a laboratory report from a certified testing laboratory affirming that the analysis of these sparklers showed that they contain no chlorates or perchlorates.

(2) All sparklers sold in the State shall be sold in boxes, and each box shall be clearly marked that the sparklers contain no chlorates or perchlorates.

(3) The manufacturer shall furnish the State Fire Marshal with a current list of wholesalers, jobbers, retailers, or retail outlets handling or supplying sparklers, or shall maintain a list of wholesalers, jobbers, retailers, or retail outlets subject to inspection by the State Fire Marshal.

65.5.4 Manufacture of fireworks.

(1) A building containing hazardous mixes or items may not be located closer than 20 feet to the property line.

(2) In this section, the following terms have the meanings indicated:

- (A) "Trainees" means employees undergoing initial training in a specific process for a period not to exceed 24 consecutive work hours.
- (B) "Transients" means:
 - (i) supervisors not regularly assigned to the area;
 - (ii) bona fide government agency personnel engaged in official business; and
 - (iii) material-handling personnel actively engaged in the transfer of materials into or out of the area.

(3) The maximum number of workers, excluding one trainee and three transients, permitted in a building at one time shall be limited to one person per 100 square feet gross floor area or one person in buildings of less than 100 square feet gross floor area.

(4) The total amount of explosives or pyrotechnic composition, including raw materials, material being processed, and finished products, permitted in any building at a given time shall be determined by the enforcement agency based upon the American Table of Distances for Storage of Explosives, without recognition for barricades. Location of fireworks mixing and storage facilities shall be in accordance with the requirements of § 10-204(a) of the Public Safety Article of the State Code. The amount of explosives or other pyrotechnic composition may not exceed the amount necessary for production for 4 hours.

(5) Before beginning work, all fireworks plants shall submit for approval accurate scale plot plans of their premises to the State Fire Marshal, as well as plans for all proposed changes of location for any of the structures, fences, and gates."

(120) In section 65.9.1, after "NFPA 495", insert "(except as set forth herein)", and, at the end of section 65.9.1, insert:

"In NFPA 495:

(1) delete sections 11.2 and 11.3;

(2) amend section 3.3 to define "demolition" as "the explosive razing of any manmade structure or any part thereof that cannot be covered with overburden or blasting mats"; and

(3) amend section 4.4 by adding: "4.4.7 each applicant for a demolition Class D permit shall possess 5 years of experience in the field of demolition and shall pass the demolition examination as approved by the Office of the State Fire Marshal."

(121) After section 65.9.2.2, insert:

"65.10 Sale, handling, and storage of consumer fireworks.

65.10.1 Section 65.10, from the 2012 edition of NFPA 1 is adopted in its entirety and incorporated by reference.

65.10.2 Ground based sparking device displays shall comply with COMAR 29.06.07."

(122) After section 69.2.1.1.11, insert:

"69.2.1.1.12 Containers shall be protected from vehicular impact in accordance with section 60.5.1.9."

(123) After section 69.2.1.4.5.2, insert:

"69.2.1.4.6 Emergency telephone numbers. Every container with an aggregate water capacity of 100 pounds or more (10 gallon lp-gas capacity, 43 ½ lb cylinder) shall bear a placard or other suitable permanent sign that displays 24-hour emergency telephone number(s) of the gas supplier or a qualified representative capable of responding at any time in the event of an emergency involving the container. The sign or placard shall be designed so as to be capable of being read at a distance of not less than 100 feet, but in no case shall contain lettering less than 2 inches in height with a 3/8 inch wide stroke."

(124) In section 69.5.4.2.2, after "location", insert "and in accordance with section 60.5.1.9".

(Bill No. 75-13; Bill No. 20-18; Bill No. 95-20)

NFPA 101, LIFE SAFETY CODE AMENDMENTS

The provisions of the NFPA 101, *Life Safety Code*, 2018 Edition, are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the NFPA 101, *Life Safety Code*, 2018 Edition, as indicated:

(1) At the end of section 2.2, insert "NFPA 1124, *Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles*, 2017 edition."

(2) In section 2.2, strike "NFPA 150, *Standard on Fire and Life Safety in Animal Housing Facilities*, 2016 edition."

(3) In section 2.4, strike "NFPA 150, *Standard on Fire and Life Safety in Animal Housing Facilities*, 2016 edition." and "NFPA 5000, *Building Construction and Safety Code*, 2018 edition.". Wherever "NFPA 5000" is referenced, other than for extracted text, substitute "the Building Code adopted by the AHJ".

(4) After section 3.3.64.2, insert:

"3.3.64.3 Bulkhead door. A type of door assembly covering an opening in the ground providing direct access to a basement, the floor of which is not more than 8 feet below ground level. The door consists of a single rigid leaf or two overlapping rigid leaves or covers which need to be pushed or lifted upwards in order to be opened. A person, after opening the door, can walk up a series of steps to escape to the outside."

(5) In section 3.3.148.1, strike "more than 3 but".

(6) In section 3.3.196.4, strike "four or more".

(7) In section 3.3.196.12, strike "four" and substitute "six".

(8) In section 4.5.8, strike "for compliance with the provisions of this Code".

(9) In section 4.6.11, after "4.6.7.", insert "A building permit for a change in use or occupancy shall be obtained from the Anne Arundel County Department of Inspections and Permits."

(10) At the end of section 4.6.11, insert "a building permit for a change in use or occupancy shall be obtained from the Anne Arundel County Department of Inspections and Permits."

- (11) In section 4.6.12.1, strike "for compliance with the provisions of this Code".
- (12) In section 4.6.12.3, strike "by the Code".
- (13) After section 4.8.2.3, insert:

"**4.8.2.4** Emergency action plans shall be maintained in a location approved by the authority having jurisdiction."
- (14) In section 6.1.4.1, strike "four or more".
- (15) In section 6.1.9.1, strike "four" and substitute "six".
- (16) In section 7.2.1.5.12, strike "required" and replace with "provided".
- (17) After section 7.2.1.5.12, insert:

"**7.2.1.5.13 Slide bolt locks.** Slide bolt locks shall not be permitted at any time."
- (18) In section 7.2.1.6.3, in the first line, after "permitted", strike "in" and substitute "by the AHJ and".
- (19) In section 7.2.1.7.1, in the first sentence, strike "required to be".
- (20) In section 7.2.1.7.3, strike "required panic" and substitute "panic".
- (21) In Table 7.3.1.2, after "**storage use**" and in the subsection titled "In Storage Occupancies", strike the first "NA" and substitute "500", and strike the second "NA" and substitute "46.5".
- (22) In Table 7.3.1.2, after the section titled "**Storage Use**", insert "**Accessory Storage Areas and Mechanical Equipment Rooms**" in the use column, and in the column titled "(ft² per person)", insert "300", and in the column titled "(m² per person)", insert "27.9".
- (23) In section 7.9.1.2, strike the first "only" and substitute ", but not be limited to,".
- (24) In section 9.6.1.3, strike "required by this Code".
- (25) At the end of section 9.6.2.6, insert "This paragraph does not permit the omission of manual fire alarm boxes in accordance with other provisions of this subsection unless specifically permitted by Chapters 11 through 43."
- (26) Strike section 9.6.3.2.2 in its entirety and substitute:

"**9.6.3.2.2** Smoke detectors used solely for closing dampers or heating, ventilating, and air-conditioning system shutdown shall not activate the building evacuation alarm. The power supply and installation wiring to the detectors shall be monitored by the building fire alarm system, and the activation of the detectors shall initiate a supervisory signal at a constantly attended location."
- (27) After section 9.7.1.1, insert:

"**9.7.1.1.1** For new ceiling installations, drop-out ceilings as referenced in NFPA 13, section 8.15.15 shall be prohibited."
- (28) In section 9.11.1, strike "required by this Code".
- (29) In sections 9.11.4.1 and 9.14.1.1, before "Chapters 11 through 43", insert "the AHJ and".
- (30) In section 11.8.3.1, after the last sentence, insert "High-rise buildings do not include a building used exclusively for open parking."
- (31) In section 11.11.2.1, after "NFPA 701", insert "or other approved testing standard approved by the State Fire Marshal".
- (32) Strike sections 11.12.2, 12.2.1.2, 14.2.1.5, 16.2.1.1, 16.6.2.1.2, 26.2.4, 28.2.1.4, 30.2.1.3, 32.2.2.7, 32.3.2.1.3, 36.2.1.6, 38.2.1.5, 40.2.1.3, and 42.2.1.3 in their entirety.
- (33) In section 12.2.4.1, after "12.2.4.4.", insert:
 - (1) Not less than two separate exits shall be provided on every story.
 - (2) Not less than two separate exits shall be accessible from every part of every story."
- (34) In section 12.3.4.2.1(1), after "by", insert "the AHJ and".
- (35) In section 12.3.4.2.2, at the beginning of the sentence insert: "When required by the AHJ," and change "The" to lower case.
- (36) In section 12.3.4.3.3, after "of", insert "automatically transmitted", and after "9.6.3.9", insert "or where required or approved by the AHJ,".
- (37) In section, 13.2.4.1, after "13.2.4.3.", insert:
 - (1) Not less than two separate exits shall be provided on every story.
 - (2) Not less than two separate exits shall be accessible from every part of every story."
- (38) Strike section 14.7.2.3 in its entirety, and substitute:

"Fire emergency egress drills shall be conducted as follows:

(1) Not less than one fire emergency egress drill shall be conducted every month the facility is in session, unless the following criteria are met:

(A) in climates where the weather is severe, the monthly fire emergency egress drills shall be permitted to be deferred; and

(B) in educational occupancies which are:

(i) fully protected by an automatic sprinkler system, the total number of annual fire emergency egress drills shall be five, with at least two of the required drills conducted in the first four months of the school year; or

(ii) not fully protected by an automatic sprinkler system, the total number of annual fire emergency egress drills shall be eight, with at least three of the required drills conducted in the first four months of the school year.

(2) All occupants of the building shall participate in the fire emergency egress drill.

(3) One fire emergency egress drill, other than for educational occupancies that are open on a year-round basis, shall be required within the first 30 days of operation."

(39) Strike section 15.7.2.3 in its entirety, and substitute:

"Fire emergency egress drills shall be conducted as follows:

(1) Not less than one fire emergency egress drill shall be conducted every month the facility is in session, unless the following criteria are met:

(A) in climates where the weather is severe, the monthly fire emergency egress drills shall be permitted to be deferred; and

(B) in educational occupancies which are:

(i) fully protected by an automatic sprinkler system, the total number of annual fire emergency egress drills shall be five, with at least two of the required drills conducted in the first four months of the school year; or

(ii) not fully protected by an automatic sprinkler system, the total number of annual fire emergency egress drills shall be eight, with at least three of the required drills conducted in the first four months of the school year.

(2) All occupants of the building shall participate in the fire emergency egress drill.

(3) One fire emergency egress drill, other than for educational occupancies that are open on a year-round basis, shall be required within the first 30 days of operation."

(40) At the end of section 15.2.2.2.4, after item (9), insert:

"(10) Two releasing operations shall be permitted for hardware on an existing door leaf provided that releasing does not require simultaneous operations and the locking device is of a type that is readily distinguishable as locked."

(41) After section 16.1.1.9, insert:

"**16.1.1.10** Day-care centers providing day care for school-age children before or after school hours in a building which is in use as a public or private school are not required to meet the provisions of this chapter, but shall meet the provisions for educational occupancies."

(42) At the end of section 16.2.11.1.1 after item (3), insert:

"(4) For windows at grade, the minimum net clear opening shall be permitted to be 5.0 square feet."

(43) In section 16.6.1.1.2, strike "more than 3, but", and after "12", strike the comma.

(44) In section 16.6.1.4.1.1, strike "more than three, but,", and strike "seven," and substitute "nine".

(45) In section 16.6.1.4.1.2, strike "7" and substitute "9".

(46) In section 16.6.1.7.1, strike "both" and substitute "all", and strike items (1) and (2) in their entirety and substitute:

"(1) The minimum staff-to-client ratio shall be not less than one staff for up to eight clients, including the caretaker's own children incapable of self-preservation.

(2) There shall be not more than four clients incapable of self-preservation, including the caretaker's own children incapable of self-preservation.

(3) A staff-to-client ratio of at least one staff to every two clients incapable of self-preservation shall be maintained at all times.

(4) The staff-to-client ratio shall be permitted to be modified by the authority having jurisdiction where safeguards in addition to those specified in this section are provided."

(47) In section 16.6.2.1, after "24.2.", insert "Bulkhead doors may not serve as a primary means of escape."

(48) In section 16.6.2.2, strike "**Reserved.**" and substitute:

"**Sliding door.** For family day-care homes, a sliding door used as a required means of escape shall comply with the following conditions:

(1) The sliding door shall have not more than one, easily operated, locking device that does not require special knowledge, effort, or tools to operate;

(2) There may not be draperies, screens, or storm doors that could impede egress;

(3) The sill or track height may not exceed ½ inch above the interior finish floor;

(4) The surface onto which exit is made shall be an all weather surface such as a deck, patio, or sidewalk;

(5) The floor level outside the door may be one step lower than the inside, but not more than 8 inches lower;

(6) The sliding door shall open to a clear open width of at least 28 inches;

(7) Before day-care use each day, the sliding door shall be unlocked and tested to the full required width to be sure it is operating properly, and the door shall be nonbinding and slide easily; and

(8) During periods of snow or freezing rain, door tracks shall be cleared out and the door opened periodically throughout the day in order to ensure proper operation."

(49) In section 16.6.2.3, strike "**Reserved.**" and substitute:

"**Special means of escape requirements.** For family day-care homes, deadbolt locks shall be provided with approved interior latches, or these locks shall be of a captured key design from which the key cannot be removed from the interior side of the lock when the lock is in the locked position."

(50) In sections 16.6.2.4.5 and 17.5.2.4.5, strike item (3) in its entirety.

(51) After section 17.1.1.9, insert:

"**17.1.1.10** Day-care centers providing day care for school-age children before or after school hours in a building which is in use as a public or private school are not required to meet the provisions of this chapter, but shall meet the provisions for educational occupancies."

(52) After section 17.2.11.1.1(3), insert:

"(4) For windows at grade, the minimum net clear opening shall be permitted to be 5.0 square feet."

(53) In section 17.6.1.1.2, strike "more than 3, but", and after "12" strike the comma.

(54) In section 17.6.1.4.1.1, strike "more than three, but", and strike "seven," and substitute "nine".

(55) In section 17.6.1.4.1.2, strike "7" and substitute "9".

(56) In section, 17.6.1.7.1, strike "both" and substitute "all", and strike items (1) and (2) in their entirety and substitute the following:

"(1) The minimum staff-to-client ratio shall be not less than one staff for up to eight clients, including the caretaker's own children incapable of self-preservation.

(2) There shall be not more than four clients incapable of self-preservation, including the caretaker's own children incapable of self-preservation.

(3) A staff-to-client ratio of at least one staff to every two clients incapable of self-preservation shall be maintained at all times.

(4) The staff-to-client ratio shall be permitted to be modified by the authority having jurisdiction where safeguards in addition to those specified in this section are provided."

(57) In section 17.6.2.1, after "24.2.", insert "Bulkhead doors may not serve as a primary means of escape."

(58) In section 17.6.2.2, strike "**Reserved.**" and substitute:

"**Sliding door.** For family day-care homes, a sliding door used as a required means of escape shall comply with the following conditions:

(1) The sliding door shall have not more than one, easily operated, locking device that does not require special knowledge, effort, or tools to operate;

(2) There may not be draperies, screens, or storm doors that could impede egress;

(3) The sill or track height may not exceed ½ inch above the interior finish floor;

(4) The surface onto which exit is made shall be an all weather surface such as a deck, patio, or sidewalk;

(5) The floor level outside the door may be one step lower than the inside, but not more than 8 inches lower;

(6) The sliding door shall open to a clear open width of at least 28 inches;

(7) Before day-care use each day, the sliding door shall be unlocked and tested to the full required width to be sure it is operating properly, and the door shall be nonbinding and slide easily; and

(8) During periods of snow or freezing rain, door tracks shall be cleared out and the door opened periodically throughout the day in order to ensure proper operation."

(59) In section 17.6.2.3, strike "**Reserved.**" and substitute:

"**Special means of escape requirements.** For family day-care homes, deadbolt locks shall be provided with approved interior latches, or these locks shall be of a captured key design from which the key cannot be removed from the interior side of the lock when the lock is in the locked position."

(60) At the end of 17.6.2.4.5(3), insert "(Bulkhead doors may not serve as a primary means of escape.)".

(61) In section 17.6.3.4.5, strike "existing", and strike "battery" and substitute "battery, and smoke alarm".

(62) In section 22.4.5.1.3, strike "or 22.4.5.1.5".

(63) In section 22.4.5.1.4, in subsection (1), strike "2 minutes" and substitute "30 seconds", and in subsection (2), strike "2-minute" and substitute "30-second".

(64) Strike section 22.4.5.1.5 in its entirety.

(65) Strike section 22.4.5.2 in its entirety.

(66) In section 23.4.5.1.3, strike "or 23.4.5.1.5".

(67) In section 23.4.5.1.4, in subsection (1), strike "2 minutes" and substitute "30 seconds", and in subsection (2), strike "2-minute" and substitute "30-second".

(68) Strike section 23.4.5.1.5 in its entirety.

(69) Strike section 23.4.5.2 in its entirety.

(70) In section 24.1.1.2, strike "three" and substitute "five", and strike ", if any, accommodated in rented rooms".

(71) In section 24.2.2.3.3, after "(0.53 m²)" insert ", or not less than 5.0 ft² for grade floor windows".

(72) In section 26.1.1.1, after "buildings", insert "that do not qualify as one- and two-family dwellings".

(73) After section 30.3.5.1, insert:

"**30.3.5.1.1 Sprinkler zone/address coordination.** Apartment buildings protected with sprinkler systems designed and installed in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems*, or NFPA13R, *Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies*, shall be zoned such that each entrance stairwell shall be served by a separate sprinkler zone, regardless of fire separation between buildings or dwelling units. Each entrance stairwell zone shall be identified by the appropriate building address for monitoring and emergency forces notification purposes."

(74) In section 32.2.2.3.1(3), after "(0.53 m²)", insert "or not less than 5 ft² for grade floor windows".

(75) In section 33.2.2.3.1(3), after "(0.53 m²)", insert ", or not less than 5.0 square feet for grade floor windows".

(76) In section 33.3.3.4.8.1, strike "33.3.3.4.8.2 and".

(77) Strike section 33.3.3.4.8.2 in its entirety.

(78) In section 38.2.4.4(3)(a), after "stories" insert "and have no openings therein".

(79) In section 39.2.4.4(3)(a), after "stories" insert "and have no openings therein".

(80) In Table 42.2.5, in the row under "**Common Path of Travel**, titled "Not Protected Throughout By an Approved, Supervised Automatic Sprinkler System in Accordance with 9.7.1.1(1)", strike "50" and substitute "75", and strike "15" and substitute "23".

(81) In section 42.3.4.1.2, after "occupancies", insert "less than three stories".

(82) In section 42.3.4.1.3, after "occupancies", insert "less than three stories".

(83) In section 42.8.3.4.1.1, strike "parking structures" and substitute "parking structures less than three stories".

(84) In section 42.8.3.4.1.3, strike "parking structures" and substitute "parking structures less than three stories".

(Bill No. 75-13; Bill No. 95-20)

PRIVATE SEWAGE DISPOSAL AND WELL CODE

The provisions of the "Anne Arundel County Plumbing Code, 1993" are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the "Anne Arundel County Plumbing Code, 1993" indicated:

(1) In section 1600, after "26.04.03.", insert:

"Wherever a sewer main for public use exists in the road right of way of any street or alley which directly adjoins or abuts a property within 50 feet, or within 100 feet of a property in the critical area, the owner of all buildings intended for human habitation, occupancy, or use shall connect any new or substantially improved building or any existing system requiring repair or replacement to the public sewer main except that, in the case of a repair or replacement system, extension of the public sewer is not required.

Repair defined. For purposes of this section, any alteration, change, or addition to an existing septic system that requires a permit under section 106.6.2 of the Anne Arundel County Plumbing Code shall be considered a repair. The repair or replacement of piping due to clogged or broken lines does not constitute a repair.

Substantial improvement defined. For purposes of this section, substantial improvement shall have the meaning as defined in § 16-1-101 of the Anne Arundel County Code.

Distance calculation. For purposes of this section, when determining and calculating the 50 foot or 100 foot distance from the public sewer main to the adjoining or abutting property, the measurement shall commence from the terminus of the public sewer main and extend along the centerline of the road, street, or alley containing the public sewer main and extend to the nearest side property line of the subject parcel."

(2) In section 1600.1.e., strike "Or into a sand mound system".

(3) In section 1600.1.e., in the second sentence, strike "Underground" and substitute "Conventional sewage" and strike "or sand mound" and strike "innovative or alternative" and substitute "non-conventional".

(4) In section 1600.1.e., after "individual sewage disposal system.", insert:

"It shall be the owner's responsibility to maintain a private sewage disposal system as installed and to avoid creation of a public health nuisance."

(5) In section 1600.1.g., before "it", insert:

"No cesspool, septic tank, privy, or other means of private sewage disposal shall be permitted wherever a sewer under public ownership adjoins the property in question, and each and every existing cesspool, privy, or other means of private sewage disposal must be eliminated and abandoned."

(6) In section 1600.1.h, after "code.", insert:

"The adequacy of the sewage disposal system shall be determined based on soil permeability rate, amount of usable soils, water table depth, use of the property and maximum sewage flow as outlined in this Code."

(7) In section 1600.1.i, after the first sentence, insert:

"Onsite sewage disposal systems serving existing structures for which additions, alterations, or changes in use are proposed shall be determined by the approving authority to be capable of handling existing and foreseeable increases in sewage flow based on the provisions of this Code."

(8) In section 1600.1.i.(iii), after "all", insert "Existing and proposed" and, after "systems", insert "on the property and" and, after "line.", insert "replacement of existing wells may be required if necessary to identify an area for sewage disposal and future replacement systems."

(9) In section 1600.1.i.(v), after "system and", strike "replacements" and substitute "future replacement areas".

(10) In section 1600.1.k., after "chapter", insert:

"The approving authority may adopt minimum standards for the design and construction of private sewage disposal systems in the implementation of this Code."

(11) In section 1600.1.l., in the first sentence, after "chapter", insert "And the 2003 International Plumbing Code", and strike "Chapter III of this Code" and substitute "the 2003 International Plumbing Code" and strike the last sentence in its entirety.

(12) In section 1600.1.m., after "installation of", insert:

"Conventional speculative and".

(13) After section 1600.1.n., insert:

"O. The separation to the ground water shall be maximized for the installation of a private sewage disposal system and shallow system designs shall be required where feasible."

(14) In section 1600.2.c.(iv) strike "Inspected and given final written" and in the second sentence, after "approving authority", insert "has been granted".

(15) In section 1600.3.3, after "swimming pool", insert "Or water treatment equipment" and, in the second sentence, after "system.", insert "separate sewage disposal systems may be required for backwash effluent from water conditioning equipment where water quality or wastewater flows may adversely impact a new or existing sewage disposal system. Existing disposal systems may be used as a means of sewage disposal for backwash effluent from water treatment equipment where systems are found in compliance with the provisions of this Code."

(16) Strike section 1600.3.6 in its entirety and substitute:

"Table 1600.3.6 establishes the minimum design criteria for determining sewage flows according to type of establishment."

(17) Strike table 1600.3.6 in its entirety and substitute:

"Table 1600.3.6

Wastewater flow criteria for designing large onsite sewage disposal systems

Wastewater flows shall be determined based on the square footage of the building and the existing or proposed use. All uses shall be considered in determining wastewater flows.

Establishment	GPD* per unit
Establishment	GPD* per unit
Airport	
Per employee	15
Per passenger	5
(Add for food service facility)	
Animal shelter/kennels	
Per run	25
Add per employee/shift	15
Banks	.04 **
Beauty/barber shops	
Per station	350
Bowling alley	
Per employee	15
Per lane, no bar/food	75
Per lane, bar only	125
Per lane, bar and food	200
Car wash	Per equipment specs
Community colleges	
Per employee and student	15
(Add for food service)	
Church/assembly hall	
Per seat	3
(Add for food service)	
Country club	
Per resident member per room	100
Per nonresident	25
Department store	.04 **
With lunch counter	.08 **
Dinner theater	20/seat
Dance hall/night club	5/seat
(add for food service)	
Day care	
Family	20/child
Group	25/child
Dentist office	
Per chair	450
Low water use equipment	.09 **
Drive in theater	
Per car space	5
Drug stores	.13 **
Dry goods store	.05 **
Factory (manufacturing plant)	
Per employee/per shift	15
Add for showers per employee	10
Fairground	
Per person	5

Golf course (public)	
Per 18 holes	3500
Homes for the aged	100/bed
Hospital	350/bed
Laundry (coin operated)	
Per machine/per 24 hours	400
Marinas	
Per slip, < 25 feet	10
Per slip, 25-35 feet	25
Per slip, > 35 feet	75
Boatels (per slip/space) divide by 3	15
Pump out station (per slip)	35
(Storage volume only)	
Medical office building	.62 **
Mobile home parks	
Per lot, minimum	300
Motel or hotel	
Per unit (no food, no kitchen)	125
Per unit (with food/kitchen/efficiency)	200
Nursing home	200/bed
Office buildings	.09 **
Parks	
Per person (with toilets provided)	10
Add for showers	10
Visitor center per parking space	45
Prison/jail	
Per bed space	125
Per employee/shift	15
Residential apartments or condominiums	150/bedroom
Rooming/boarding	75/bedroom
Restaurants/food service	
24-hour operation or fast food	75/seat
Interstate/major highway	150/seat
12-hour operation	50/seat
Bar/tavern/pub	25/seat
Banquet rooms	5/seat
Carryout service	600
Deli/convenience store	600
Retail stores	.05 **
Schools (per student)	
No food or showers	15
Add for food	5
Add for showers	10
Boarding	100
Service stations	.18 **
State highway rest area (mini station)	2000
Shopping centers	.18 **
Spas/saunas/jacuzzi	20% of volume
Sports arena	5/seat
(Add for food service)	
Supermarkets	.02**

Swimming pools	
Per swimmer	10
Per employee	15
Theater/arena	
Per seat, no food	5
(Add for food service)	
Travel trailer park/camps	
Per space	150
Per space with sewer/service building	175
Children's camp	50/person
Labor camp	50/person
Luxury camp	100/person
Day camp (no meals)	15/person
Warehouse	.03 **

*Gallons per day

**Gallons per day per square foot

(18) In table 1600.4.3, after "drainfield", insert "***" and after "dry well" insert "*" and after "storm drain" insert "****" and at the bottom of the table insert:

** Drywells must be separated from each other by a distance of three times the diameter of the well edge to edge. Thus an 8-foot well would have a separation of 24 feet from its neighbor.

** Standard drainfield trenches are 3 feet wide and are separated one from the another by 9 feet. All drainfield trenches are of equal length. No trench may exceed 100 feet. The approving authority will stipulate separation between deep drainfield trenches.

*** For storm drainage facilities other than those incorporating solid conduits (i.e., swales, storm water infiltration pits, and the like) a 25-foot minimum distance is required. Areas with a slope of greater than 25% cannot be utilized for individual sewage disposal system."

(19) In section 1600.5.1.c., strike "systems" and substitute "and conventional alternative systems".

(20) In section 1600.5.1.f, in the second sentence, after "groundwater", insert "or where seasonal fluctuations occur".

(21) In table 1600.5.4, strike "3.12" and substitute "1.56", strike "2.5" and substitute "1.25", strike "2.22" and substitute "1.11", strike "2.0" and substitute "1.0", strike "1.78" and substitute ".89", strike "1.58" and substitute ".79", strike "1.54" and substitute ".77", strike "1.38" and substitute ".69", strike "1.34" and substitute ".67", strike "1.18" and substitute ".59", strike "1.10" and substitute ".55", strike "1.84" and substitute ".52", strike ".96" and substitute ".49", strike ".92" and substitute ".46", strike ".72" and substitute ".36", and strike ".60" and substitute ".30".

(22) In 1600.6.1, strike "1600.3.7" and substitute "1600.3.6".

(23) In the footnote to table 1600.6.2, strike ", 6 inches".

(24) In section 1600.6.4, in the first sentence, after "tanks", insert:

"Including concrete, plastic, and fiberglass" and strike "submitted to" and substitute "approved by" and strike "for approval" and substitute "prior to installation".

(25) In section 1600.6.4, in the third sentence, after "septic tanks shall be", insert "watertight and", and strike "sound durable" and ", not subject" and after "to" insert "prevent" and strike "and shall be water tight".

(26) In section 1600.6.4., in the fifth sentence, strike "approved" and "as submitted and".

(27) In section 1600.6.4, strike the seventh and eighth sentences in their entirety and substitute:

"Every septic tank must be a two-compartment tank with a top construction seam. There shall be no less than 2 inches between the invert inlet pipe and the invert outlet pipe."

(28) In section 1600.6.6 a., in the first and second sentences, strike "baffles" and substitute "tees" and in the third sentence strike "when" and strike "are used in the place of baffles, they".

(29) In section 1600.6.6 b., after the second sentence, insert:

"Manholes not extended to grade must have a pipe at ground surface marking the location of the manhole lid. Manholes extending above the ground surface shall be designed in a manner acceptable to the approving authority."

(30) In section 1600.6.6 c., strike "3" and substitute "4 or an equivalent design acceptable to the approving authority".

(31) Strike section 1600.6.6 i. In its entirety.

(32) In section 1600.6.6 j., strike "neoprene".

(33) In section 1606.6, after subsection l., insert:

"m. The internal wall must contain a slot of a minimum height of 2 inches and be located in the center of the liquid depth of the septic tank and shall extend 4 feet in length."

(34) After section 1600.6.8, insert:

"1600.6.9 Holding tanks

Sewage holding tanks may be used to resolve existing onsite sewage disposal system failures when community sewer facilities are not available and an onsite repair is not possible.

- a. Holding tanks must be of watertight construction and installed in such a manner as to minimize their potential for being impacted by ground or surface water. Where ground and surface waters exist, additional sealing methods for holding tanks, joints, or pipe connections may be required as necessary by the approving authority.
- b. Holding tanks must be sized to accommodate 7 days of sewage flow. Larger holding tank capacities may be required when such use, flow or additional capacities are needed to maintain sanitary conditions.
- c. The minimum capacity of a holding tank system serving a single residential dwelling shall be no less than 3,000 gallons.
- d. Two or more holding tanks may be connected in series to reach the required storage capacity needed for existing use.
- e. Holding tanks shall be equipped with a high water level alarm and shall provide an audible or visual signal and be installed in or on the building structure served by the holding tank system. The floats or other devices for the alarm shall be designed to activate when a minimum holding capacity equivalent to a 24-hour sewage flow is reached.
- f. Each compartment of a holding tank system must have a manhole constructed to grade to allow access for system maintenance."

(35) In section 1600.10, in the second line, strike "will" and substitute "shall" and, after "followed:", insert "a. Grease interceptors shall be required for all food establishments where food preparation, food processing, or waste from food operations occur." and strike "a." and substitute "b."

(36) In section 1600.10 b., strike "b." and substitute "c." and strike "(metal or concrete)" and strike "approved" and strike "submitted to and" and, after "authority", insert "interior grease recovery units and metal grease interceptors shall not be permitted for use."

(37) In section 1600.10 c., strike "c." and substitute "d." and strike "30" and substitute "50".

(38) In section 1600.12, in the title, strike ": sand filters" and substitute "and non-conventional systems" and, in the first sentence, strike "sand filter and innovative/alternative" and substitute "non- conventional".

(39) In section 1600.13 b., after "application.", insert:

"The pump pit must be located after the septic tank and only septic tank effluent shall enter the pump pit unless otherwise authorized by the approving authority."

(40) In section 1600.13 c., after "grade", insert "with a 20-inch minimum manhole" and, after "sufficient", insert "for the existing or proposed use. Concrete components must have their only construction seam located above the inlet to the pump."

(41) After section 1600.13 g., insert:

"h. All pump pits serving nonresidential uses must have duplex pumping equipment."

(42) In section 1700.1 a., in the second sentence, after "chapter.", insert:

"The approving authority may adopt minimum standards for potable water supply and distribution systems in the implementation of this Code."

(43) In section 1700.1 b., strike "regulations of the Maryland State Board of Health And Mental Hygiene" and substitute "COMAR, 26.04.04".

(44) After section 1700.1 c., insert:

- d. When the approving authority finds there to be insufficient lot area or yield for an adequate potable water supply system for the building or land use proposed, no building permit shall be issued and no potable water supply system shall be permitted. Potable water supply systems serving existing structures for which additions, alterations, or a change in use is proposed, shall be determined by the approving authority as structurally adequate, potable, and capable of handling existing and foreseeable increases in water demand. A susceptibility analysis to existing or potential sources of contamination and additional water quality tests may be required at the discretion of the approving authority. Before a building permit is issued, site plans satisfactory to the approving authority must be submitted and approved.

The required site plan must contain the following:

1. detailed plans showing the location of the proposed structure to be served by the potable water supply system, and any existing or proposed structure within 30 feet of the property line.
 2. Location of all existing and proposed wells and water lines on the property and within 100 feet of the property line.
 3. Location of all existing and proposed septic systems, building sewer lines, and public sewer facilities on the property and within 100 feet of the property line.
- e. A minimum separation of 30 feet must be maintained between a proposed structure and an existing water supply well."
- (45) Strike sections 1700.2, 1700.2.1., 1700.2.2, 1700.2.3, 1700.2.4, 1700.3, 1700.4.1, 1700.4.2, and 1700.4.5 in their entirety.
- (46) In section 1700.5.1 (f), strike "as required in subsection 1003.2.3".
- (47) Renumber section 1700.6 to be 1700.2.
- (48) Strike section 1700.7 in its entirety.
- (49) Renumber section 1700.8 to be 1700.3.
- (50) Strike sections 1700.9, 1700.9.1, 1700.9.2, 1700.9.3, 1700.9.4, 1700.9.4.1, 1700.9.4.2, 1700.9.4.3, 1700.10, 1700.11, 1700.12, and 1700.13 in their entirety.
- (51) Renumber sections 1700.14, 1700.15, and 1700.16 to be sections 1700.4, 1700.6, and 1700.7, respectively.
- (52) After section 1700.7, insert:

"1700.8 Connection to public water system required

1700.8.1 Where required

- a. Wherever a water main for public use exists in any street or alley and is within 50 feet of a property, the owner of all buildings intended for human habitation, occupancy, or use shall connect to the public water main."
- b. Where an adequate public water system exists within 300 feet of an existing lot of record and is located within a water quality problem area as designated in the Anne Arundel County Master Plan for water supply and sewerage systems, connection shall be made to the public water system.
- c. No well for potable use shall be constructed on a property accessible to an adequate public water supply.

1700.9 Private wells to be abandoned

Wherever a replacement well is installed, it shall be the owner's responsibility to abandon and seal a previously existing water supply in a manner satisfactory to the approving authority.

1700.10 Potability requirements

Any well intended to serve a building for human use or habitation shall meet the potability requirements of COMAR, 26.04.01 and 26.04.04, prior to occupancy."

(1985 Code, Art. 20, § 6-302) (Bill No. 46-03; Bill No. 27-12)

PROPERTY MAINTENANCE CODE AMENDMENTS

The provisions of the 2003 International Property Maintenance Code are amended, deleted, or corrected as follows and the following provisions shall supersede the part of the text of the 2003 International Property Maintenance Code as indicated:

- (1) In section 101.1, insert "Anne Arundel County, Maryland," in the space indicated.
- (2) In section 101.2, in line 2, strike "and nonresidential" and, in line 6, strike "fire and".
- (3) In section 101.3, strike "International Existing Building Code" and substitute "Anne Arundel County Building Code".
- (4) In section 102.3, strike "International Existing Building Code" and substitute "Anne Arundel County Building Code" and strike "International Zoning Code" and substitute "Anne Arundel County Zoning Code".
- (5) Strike section 102.6 in its entirety.
- (6) Strike section 102.7 in its entirety.
- (7) Strike section 103.1 in its entirety and substitute:

"103.1 General. This Code shall be administered by the Health Department and, for purposes of administering this Code, the Health Officer shall be known as the Code Official."

- (8) Strike section 103.2 in its entirety.

(9) Strike 103.3 in its entirety.

(10) Strike section 103.5 in its entirety.

(11) Strike section 104.2 in its entirety and substitute:

"104.2 Rule-making authority. The Health Officer shall have authority as necessary in the interest of public health, safety and general welfare, to adopt and promulgate rules and procedures; to interpret and implement the provisions of this Code; and to collect and disseminate information concerning techniques of maintenance, repair, and sanitation in housing and concerning the requirements of this title."

(12) Strike section 104.4 in its entirety.

(13) Strike section 104.7 in its entirety.

(14) Strike section 105 in its entirety.

(15) Strike section 106 in its entirety.

(16) Strike section 107 in its entirety.

(17) In section 108.1 in the first line, strike "or equipment".

(18) In section 108.1.1, strike "to protect or warn occupant in the event of fire".

(19) Strike section 108.1.2 in its entirety.

(20) In section 108.1.4, strike "occupied by more persons than permitted under this Code, or was".

(21) In section 108.2, in lines 2 and 3, strike "post a placard of condemnation on the premises and"; in line 5, strike "so as not to be an attractive nuisance"; and, in line 9, after "persons", strike "and the cost thereof shall be charged against the real estate upon which the structure is located and shall be a lien upon such real estate and may be collected by any other legal resource".

(22) In section 108.3, in line 2, strike "or equipment" and in line 5, strike from "or" through the end of the section.

(23) Strike section 108.4 in its entirety.

(24) Strike section 108.5 in its entirety.

(25) Strike section 109 in its entirety.

(26) Strike section 110 in its entirety.

(27) Strike section 111 in its entirety.

(28) In section 201.3, strike all "International" code references and substitute "Anne Arundel County Code".

(29) In section 202, strike the definition of "dwelling unit" and substitute:

"Dwelling unit. A single unit providing complete, independent living facilities for at least one person, including permanent provisions for sanitation, cooking, eating, sleeping, and other activities associated with daily life. A dwelling unit does not include a tent, trailer, recreational vehicle, mobile manufactured home, truck body, camper, boat, or other enclosure or structure used for human shelter that is designed to be transportable ."

(30) In section 202, strike the definition of "garbage" in its entirety.

(31) In section 202, insert:

"Multiple dwelling. A structure containing more than two dwelling units or a non-owner occupied dwelling containing two or more dwelling units."

(32) In section 301.2, at the end of the second sentence, insert "and with applicable State and County law."

(33) Strike section 302.4 in its entirety.

(34) Strike section 302.8 in its entirety.

(35) Strike section 302.9 in its entirety.

(36) Strike section 303.2 in its entirety.

(37) Strike section 304.3 in its entirety.

(38) Strike section 304.4 in its entirety.

(39) Strike section 304.8 in its entirety.

(40) Strike section 304.9 in its entirety.

(41) In section 304.10, strike "structurally sound" and strike ", with proper anchorage and capable of supporting the imposed loads".

(42) Strike section 304.11 in its entirety.

(43) In section 304.14, strike "during the period from [date] to [date]," and strike "food preparation areas, food service areas or any areas where products to be included or utilized in food for human consumption are processed, manufactured, packaged or stored," and strike the exception in its entirety.

(44) Strike section 304.15 in its entirety and substitute:

"304.15 Doors. All exterior doors, door assemblies, and hardware shall be maintained in good condition. All doors shall have minimum headroom of 6 1/2 feet and shall have an approved means of egress leading to safe and open space at ground level. Locks at all entrances to dwelling units, rooming units and guestrooms shall tightly secure the door."

(45) Strike section 304.18.1 in its entirety.

(46) Strike section 304.18.2 in its entirety.

(47) Strike section 304.18.3 in its entirety.

(48) In section 305.1 in the sixth sentence, after "dormitory," insert "or" and, in the next line, strike "or two or more nonresidential occupancies".

(49) Strike section 305.2 in its entirety.

(50) After section 305.6, insert:

"305.7 Bed linens. The operator of each rooming house shall change supplied bed linen and towels in the rooming house at least once a week and before the letting of a room to an occupant and maintain supplied bedding in a clean and sanitary manner.

305.8 Smoke alarms. Smoke alarms shall be installed and maintained:

1. Outside each separate sleeping area in the immediate vicinity of the bedrooms and
2. In each room used for sleeping purposes; and
3. On each additional story of the dwelling, including basements but not including crawl spaces and uninhabitable attics."

(51) Strike section 307.3.1 in its entirety and substitute:

"307.3.1 Garbage facilities. The owner of every dwelling shall supply a sufficient number of leakproof, covered, outside garbage containers."

(52) Strike section 307.3.2 in its entirety.

(53) Strike section 308.4 and substitute:

"308.4 Multiple occupancy. The owner of a structure containing two or more dwelling units or a rooming house shall be responsible for extermination in the public or shared areas of the property."

(54) After section 308.5 insert:

"308.6 Prevention. Each dwelling, multiple dwelling, rooming house, or accessory structure and each premises shall be maintained in a manner that will prevent and eliminate pest, insect and rodent harborage or infestation."

(55) In section 401.3, strike "International Building Code" and substitute "Anne Arundel County Building Code".

(56) In section 402.2, strike the last sentence.

(57) In section 403.3 strike "unless approved through the certificate of occupancy,".

(58) In section 403.5, strike "manufacturer's instructions" and substitute "Anne Arundel County Building Code".

(59) Strike section 404.5 in its entirety.

(60) After section 404.7, insert:

"404.8 Floor surface. Every kitchen and food preparation floor shall be maintained to be a smooth, hard, nonabsorbent surface to permit such floor to be easily kept in a clean and sanitary condition."

(61) Strike section 502.3 in its entirety.

(62) Strike section 502.4 in its entirety.

(63) Strike section 503.3 in its entirety.

(64) In section 505.1, strike "International Plumbing Code" and substitute "Anne Arundel County Plumbing Code".

(65) In section 506.1, after "an approved" insert "properly functioning".

(66) Strike section 507.1 in its entirety.

(67) In section 602.2, strike "based on the winter outdoor design temperature for the locality indicated in Appendix D of the International Plumbing Code".

(68) Strike section 602.3 in its entirety and substitute:

"602.3 Heat supply. Every owner and operator of any building who rents, leases or lets one or more dwelling units, rooming units, dormitories or guestrooms on terms, either expressed or implied, to furnish heat to the occupants thereof shall supply heat to maintain a temperature of not less than 65°F (18°C) in all habitable rooms, bathrooms, and toilet rooms."

(69) Strike section 602.4 in its entirety.

(70) In section 604.2, strike "ICC Electrical Code" and substitute the "Anne Arundel County Electrical Code".

(71) Strike Chapter 7 in its entirety.

(72) Strike Chapter 8 in its entirety.

REFERENCE TABLE

This table shows the location of State Law references, 1985 Code Sections, and Bills contained in the Construction and Property Maintenance Codes Supplement.

<i>State Law Cite</i>	<i>Location</i>
Commercial Law Article	
§14-1310	Fire Prevention Code (57)
Natural Resources Article	
§ 8-1808(c)(4)	Construction Code Administrative Provisions
Public Safety Article	
§ 10-101	Fire Prevention Code (14)
§ 10-204	Fire Prevention Code (119)
COMAR	
05.02.02	International Building Code Amendments (7)
10.17.01	Plumbing Code Amendments (10)
10.17.01.28	International Building Code Amendments (20)
26.04.01	Private Sewage Disposal and Well Code (52)
26.04.04	Private Sewage Disposal and Well Code (43), (52)
26.04.04.11	Plumbing Code Amendments (4)
29.06.01.07	Fire Prevention Code (24)
29.06.01.08	Fire Prevention Code (24)
29.06.01.09	Fire Prevention Code (24)
29.06.01.14B.	Fire Prevention Code (57)
29.06.05	Fire Prevention Code (64)
29.06.07	Fire Prevention Code (121)

<i>1985 Code Section</i>	<i>Disposition</i>
Art. 20, § 6-302	Private Sewage Disposal and Well Code

<i>Bill Number</i>	<i>Disposition</i>
Bill Number	Disposition
46-03	Private Sewage Disposal and Well Code
68-06	Property Maintenance Code
1-12	Construction Code, International Building Code Amendments, International Residential Code Amendments, Energy Conservation Code Amendments, Electrical Code Amendments, Fuel Gas Code Amendments, Mechanical Code Amendments, Plumbing Code Amendments
27-12	Private Sewage Disposal and Well Code
65-12	Construction Code

10-13	Construction Code, International Residential Code Amendments
75-13	Fire Prevention Code Amendments
103-13	Electrical Code Amendments
83-14	Construction Code
20-15	Construction Code
123-15	Construction Code, International Building Code Amendments, International Residential Code Amendments, Energy Conservation Code Amendments, International Existing Building Code Amendments, Electrical Code Amendments, Fuel Gas Code Amendments, Mechanical Code Amendments, Plumbing Code Amendments
10-16	Construction Code
51-16	Construction Code
66-16	Construction Code
15-17	Construction Code
19-17	Construction Code
23-17	Construction Code
67-17	Construction Code
20-18	Fire Prevention Code Amendments
91-18	Construction Code
60-20	Construction Code, International Building Code, International Residential Code, International Energy Conservation Code, International Existing Building Code, National Electrical Code, International Fuel Gas Code, International Mechanical Code, International Plumbing Code, International Pool and Spa Code
95-20	Fire Prevention Code Amendments
8-21	Construction Code
14-21	Construction Code

