

PREPARED BY:

**CITY OF NAPERVILLE
LEGAL DEPARTMENT
630/420-4170**

RETURN TO:

**CITY OF NAPERVILLE
CITY CLERK'S OFFICE
P.O. BOX 3020
400 SOUTH EAGLE STREET
NAPERVILLE, IL 60566-7020**

ORDINANCE NO. 18 - 141

**AN ORDINANCE AMENDING
CHAPTER 1 (BUILDING CODES) OF TITLE 5 (BUILDING REGULATIONS)
OF THE NAPERVILLE MUNICIPAL CODE**

WHEREAS, the City of Naperville, in its authority as a Home Rule community, has enacted Municipal Code Regulations for the purpose of improving and protecting the public health, safety, comfort, convenience and general welfare of the people; and

WHEREAS, building regulations establish a minimum standard for construction in furtherance of these objectives; and

WHEREAS, the International Code Council prepares a recommended set of codes for adoption by local municipalities that reflect new technology, materials and trends in the building industry; and

WHEREAS, the International Code Council recommends that local municipalities adopt the updated codes on a regular basis to ensure continued quality and safe construction; and

WHEREAS, beginning in January 2018, the City undertook a year-long effort to review the 2018 International Code Council set of codes and recommend proposed local amendments; and

WHEREAS, this review was completed by code committees comprised of City staff and representatives from the business, building, and residential community; the Building Review Board; and City Council; and

WHEREAS, the City held a 30-day public review period on the proposed 2018 International Code Council set of codes and local amendments in September 2018; and

WHEREAS, the Building Review Board conducted a review of the proposed 2018 International Code Council set of codes and local amendments on October 17, 2018 and unanimously recommended their adoption; and

WHEREAS, the City Council concurs that the ordinance should be amended as provided herein.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF NAPERVILLE, DUPAGE AND WILL COUNTIES, ILLINOIS, in exercise of its home rule authority, as follows:

SECTION 1: The recitals set forth above are incorporated herein.

SECTION 2: Chapter 1 (Building Codes) of Title 5 (Building Regulations) of the Naperville Municipal Code is hereby amended by adding the underlined language and deleting the stricken language, as follows:

CHAPTER 1 - BUILDING CODES

ARTICLE A. - BUILDING CODE

SECTION:

5-1A-1: - ADOPTION:

1. For the purposes of supplementing the provisions and regulations contained in this Title, and for setting forth minimum standards for buildings and structures, there shall be and hereby is adopted by reference that certain building code known as the 2018~~2~~

edition of the International Building Code and referenced standards and appendices A, C, E, F, G, H, and I.

2. There shall be one (1) copy of the International Building Code kept on file for public inspection in the City Clerk's Transportation, Engineering, and Development Office.

3. * * *

5-1A-2: - APPLICABILITY OF PROVISIONS OR REGULATIONS:

* * *

5-1A-3: - AMENDMENTS:

The various sections and tables of the International Building Code 2012 adopted by this Article shall be revised as follows:

Section 103.1 Department Of Building Safety – Section 721 Prescriptive Fire Resistance: * * *

Section 901.1.1 Modifications: Add the following:

Unless more stringent regulations are provided in other adopted City codes, a change of use, addition, alteration, or repair to any building or structure shall require fire protection systems to be installed per the 2018 IBC prior to issuance of occupancy. The fire areas defined by this Code of the structure or building not affected by the change of use, addition, alteration, or repair shall comply with the fire suppression system requirements of the 2018 IBC no later than 10 years from the date of permit issuance for the change of use, addition, alteration, or repair. Prior to the issuance of a permit, the property owner shall enter into a legal agreement with the City that details a plan for the installation of a fire suppression system for the remaining portion of the building. It shall be the applicant's responsibility to pursue said agreement prior to the issuance of the permit. The City of Naperville Legal Department, Fire Department, and Transportation, Engineering, and Development Department must approve the plan for the installation of the fire suppression system.

Exception: Alterations or repairs to improve accessibility, means of egress, or health and sanitation, are not subject to this Section.

Section 903.2.1.1 Group A-1: * * *

Section 903.2.1.2 Group A-2: Change #1 and add #4 to read as follows:

1. The fire area exceeds 2,500 square feet.
4. Where the combined area of all group A-2 fire areas on all floors, including any mezzanines exceeds 2,500 square feet or where the building or structure combined fire area for all use groups located on all floors, including any mezzanines exceeds 5,0002,500 square feet.

Section 903.2.1.3 Group A-3: * * *

Section 903.2.1.4 Group A-4: * * *

Section 903.2.1.613 Group B: Add the following:

An automatic sprinkler system shall be provided throughout buildings containing a group B occupancy where one of the following conditions exist:

1. Where a group B fire area exceeds 5,000 square feet.

Where a group B fire area is located more than two (2)~~three (3)~~ stories above grade plane.

3. Where the combined area of all use group fire areas on all floors, including any mezzanines exceeds 5,000 square feet.

Section 903.2.3 Group E: Delete the exception; also, change #1 and add #34 to read as follows:

1. Throughout all group E fire areas greater than 2,500 square feet in area.
34. Where the combined area of all group E fire areas on all floors, including mezzanines exceeds 2,500 square feet, or where the building or structure combined fire area for all use groups located on all floors, including any mezzanines, exceeds ~~5,000~~2,500 square feet.

Section 903.2.4 Group F: * * *

Section 903.2.6 Group I: Delete exceptions #1, 2, and 3. and 4.

Section 903.2.7 Group M: * * *

Section 903.2.8.1: ~~Group R-3 or R-4 Congregate Care Facilities: Delete in its entirety.~~Change to read: An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.1 shall be permitted in Group R3 occupancies.

Section 903.2.8.2: ~~Care Facilities: Delete in its entirety. Group R-4, Condition 1 and 2:~~ Change to read: An automatic sprinkler system installed in accordance with Section 903.3.1.2 or 903.3.1.1 shall be permitted in Group R-4, Condition 1 and 2 occupancies.

Section 903.2.8.3: Delete in its entirety.

Section 903.2.8.4 Care Facilities: Change to read: An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be permitted in care facilities with five or fewer individuals in a single-family dwelling.

Section 903.2.9 Group S-1: Change #1, 2, and 3 to read as follows:

An automatic sprinkler system shall be provided throughout all buildings containing ~~use a~~ Group S-1 occupancy where one of the following conditions exists:

1. A group S-1 fire area exceeds 5,000 square feet.

A group S-1 fire area is located more than 2~~3~~ stories above grade plane, or

3. The combined area of all ~~use group~~Group S-1 fire areas on all floors, including any mezzanines, exceeds 5,000 square feet.

Section 903.2.9.1 Repair Garages: ~~Delete in its entirety~~Change #1 and 2 to read as follows:

1. Buildings have two or more stories above grade plan, including basements, with a fire area containing a repair garage exceeding 5,000 square feet.
2. Buildings not more than one story above grade plan, with a fire area containing a repair garage exceeding 5,000 square feet.

Section 903.2.10 Group S-2 enclosed parking garages: ~~Delete in its entirety.~~ Change #1 and 2 to read as follows:

1. Where the fire area of the enclosed parking garage exceeds 5,000 square feet.
2. Delete the exception.

Section 903.2.11.3 Buildings 55 feet or more in height. Delete the exceptions.

Section 903.3.1.1.1 Exempt Locations: * *

Section 903.3.1.2.3 Attics. Delete subsections 3.2, 3.3 and 3.4.

Section 903.3.1.3 NFPA 13D Sprinkler Systems: Change to read:
Automatic sprinkler systems installed in one- and two-family dwellings shall be permitted to be installed throughout, including garages, in accordance with NFPA 13D; Group R-3, Group R-4, Condition 1 and townhouses shall be permitted to be installed throughout including garages in accordance with NFPA 13DR.

Section 903.4 Sprinkler Systems Supervision and Alarm - Section 905.3.1

Height: * *

Section 905.3.29: Add the following:

All Use Groups: Without exception, a class 1 or class 3 standpipe systems shall be installed in all buildings where any portion of the building floor area is more than 400 feet of travel from the nearest point of fire department vehicle access.

Section 907.2 Where Required: Change the first paragraph to read as follows:

An approved manual, automatic, or manual and automatic fire alarm system installed in accordance with the provisions of this code, NFPA 72, and the current edition of the Naperville fire department's regulations for the installation, maintenance, and testing of fire alarm systems, as amended from time to time, shall be provided in new buildings and structures in accordance with sections 907.2.1 through 907.2.24 and provide occupant notification in accordance with section 907.5, unless other requirements are provided by another section of this code. Where automatic sprinkler protection installed in accordance with section 903.3.1.1 or 903.3.1.2 is provided and connected to the building fire alarm system, automatic heat detection required by this section shall not be required in the area covered by the sprinkler heads.

Section 907.2: Add the following subsection:

Section 907.2.24: Fire alarm and detection systems for townhouses shall be installed in multiple single-family dwellings (townhouses), if the building or structure contains three (3) or more units. All fire alarm and detection systems shall be listed and installed in accordance with the provisions of NFPA 72, the IBC 201806, the IFC

201806, and the current edition of the Naperville fire department's regulations for the installation, maintenance, and testing of fire alarm systems, as amended from time to time.

~~Section 908.7.2: Add the following:~~

~~Section 908.7.2: Power Source: In new construction, required carbon monoxide detectors shall receive their primary power from the building wiring where such wiring is served from the commercial source and shall be equipped with a battery backup. Carbon monoxide detectors shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over current protection.~~

Table 1607.1 Minimum Uniformly Distributed Live Loads And Minimum

Concentrated Live Loads ^g: * * *

Section 3001: * *

~~Section 3001.1 Elevator Car To Accommodate Ambulance Stretcher: Add the following:~~

~~Where elevators are required per the IBC in buildings of two or more stories in height, at least one elevator shall be provided for fire department emergency access to all floors. Said elevator car shall be of such size and arrangement to accommodate a 24" x 84" ambulance stretcher in the horizontal, open position, and shall be identified by the international symbol for emergency medical services (star of life). The symbol shall not be less than 3" inches high and shall be placed on both sides of the hoist way door frame. Exception: For existing buildings, in other than H and I occupancies, where all required exit stairways have a clear width of 48" between the handrails and do not serve floors more than one story above or below the level of exit and discharge.~~

Section 3306.5 Barriers – Section 3401.3 Compliance:

* * *

CHAPTER 1

BUILDING CODES

ARTICLE B. - RESIDENTIAL CODE

SECTION:

5-1B-1: - ADOPTION:

The 2018~~2~~²-edition of the International Residential Code (hereinafter IRC), and referenced standards and appendices A, B, C, D, H, M and K, regulating and controlling the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, demolition, addition to, use or maintenance of one- and two-family dwellings and townhouses not more than three (3) stories in height with a separate means of egress and their accessory structures, as amended in this Article, is hereby adopted and incorporated by reference as though fully set forth. There shall be one (1) copy of the International Residential Code kept on file for public inspection in the City Clerk's Transportation, Engineering, and Development Office.

All new residential construction shall include passive resistant radon construction per State of Illinois Public Act 97-0953.

5-1B-2: - AMENDMENTS:

The following requirements shall be applicable to one- and two-family dwellings and townhouses as stated above:

Chapter 1 Administration

R101.1 Title: * * *

Add a new section as follows:

R101.2. Scope: Change to read as follows.

Exceptions:

1. Dwelling units that include permitted work area (see Zoning Code) of not more than 25% of the area of a dwelling unit are permitted to be built or classified as dwelling unit as defined by this code.

PUD townhouse and duplex developments which have been approved by the city council prior to the adoption of the 2018~~2~~ IRC shall be allowed to continue to use the 2012~~06~~ IRC building code, or any code permitted by city council authority until the development is completed in its entirety.

R105.2 Work Exempt From Permit. – R106.1.1 Information on Construction Documents: * * *

R106.1.~~43~~ Information For Construction In Flood Hazard Areas: Change to read:

For buildings and structures in flood hazard areas as established on local flood insurance rate maps, locally adopted floodplain ordinances shall apply.

109.1.6.1 Elevation documentation – R113.4 Violation Penalties:

* * *

Chapter 2 Definitions: * * *

Chapter 3 Building Planning:

~~R301.2(1) Climatic And Geographic Design Criteria: Add the following:~~

Ground Snow Load	Wind Speed ^d (mph)	Seismic Design Category	Weathering ^a	Frost Line Depth ^b	Termite ^c	Winter Design Temp ^e	Ice Barrier Underlayment Required ^h	Flood Hazards ^g	Air Freezing Index ^j	Mean Annual Temp ⁱ
30	90/3 second wind gust	B	Severe	42°	Moderate	-1°F	Yes	Refer to local ordinances	1635	48.7°F

Ground Snow Load	Wind Design				Seismic Design Category	Subject to Damage From			Winter Design Temp	Ice Barrier Underlayment Required	Flood Hazard	Air Freezing Index	Mean Annual Temperature
	Speed (mph)	Topographic Effects	Special Wind Region	Windborne Debris Zone		Weathering	Frost Line Depth	Termite					
30	115 mph (nominal design 3-second)	No	No	No	A	Severe	42 inches	Moderate to Heavy	-4 degrees F	Yes	Refer to Local	1635	48.7 degrees F

<u>Elevation</u>	<u>706 *</u>
<u>Latitude</u>	<u>41</u>
<u>Winter Heating</u>	<u>-1</u>
<u>Summer Cooling</u>	<u>91</u>
<u>Altitude Correction Factor</u>	<u>0</u>
<u>Indoor Design Temperature</u>	<u>72 degree F Maximum</u>
<u>Design Temperature Cooling</u>	<u>75 degree F Minimum</u>
<u>Heating Temperature Difference</u>	<u>73 degrees F</u>
<u>Cooling Temperature Difference</u>	<u>16 degrees F</u>
<u>Wind Velocity Heating</u>	<u>8.4 mph**</u>
<u>Wind Velocity Cooling</u>	<u>5.7 mph**</u>
<u>Coincident Wet Bulb</u>	<u>76</u>
<u>Daily Range</u>	<u>Medium (16-25 degrees)</u>
<u>Winter Humidity</u>	<u>30%</u>
<u>Summer Humidity</u>	<u>50%</u>

* Manual J, Residential Load Calculation, ACCA, Eighth Edition, Version 2, Aurora

** <https://www.isws.illinois.edu/statecli/wind/wind.htm>, Table 1, State Climatologist Office for Illinois

R305.1 Minimum Height: Add Exception 4.

Exception 4. Habitable spaces created in existing basements shall have ceiling heights of not less than 6 feet 8 inches, except that the ceiling height at obstructions shall be not less than 6 feet 4 inches from the basement floor. Existing finished ceiling heights in non-habitable spaces in basement shall not be reduced.

R308.4.6 Glazing Adjacent to Stairs and Ramps: Revise Exception 2.

Exception 2. Glazing 60 inches or more measured horizontally from the walking surface.

R309.3 Flood Hazard Areas: * * *

R310.1 Emergency Escape and Rescue Openings: Delete Exception 2.

R310.6 Alterations or Repairs of Existing Basements: Delete.

R313.2 One- and two-family dwellings automatic fire systems. Changed to read as:

An automatic residential fire sprinkler system shall be installed in one- and two-family dwellings.

Exceptions:

1. * * *

2. An automatic residential fire sprinkler system shall not be required for new construction when all the following apply:

- a. * * *
- b. Each one- and two-family dwelling unit has at least 2 means of egress.

R314 Smoke Alarms:

R314.6 Exception 2 Smoke Alarms, Power Source: Modify section to read as follows:

Smoke alarms in the portion of the residence that is not impacted by the renovation or addition installed in accordance with Section R314.2.2 shall be permitted to be battery powered. Smoke alarms within the area of renovation or addition shall follow power source requirements as identified in R314.6.

Add a new section to read as follows:

R314.68 Fire Alarm And Detection Systems

Fire alarm and detection systems for townhouses shall be installed in multiple single-family dwellings (townhouses), if the building or structure contains three (3) or more units. All fire alarm and detection systems shall be listed and installed in accordance with the provisions of NFPA 72, the IBC 201806, the IFC 201806, and the current edition of the Naperville fire department's regulations for the installation, maintenance, and testing of fire alarm systems, as amended from time to time.

Add new subsections to read as follows:

R314.86.1 Non-Monitored Fire Alarm Systems:

Townhouses equipped with existing fire alarm systems which are not currently monitored in accordance with the Naperville fire department requirements for the installation, maintenance, and testing of fire alarm systems shall be monitored in accordance with the Naperville fire department requirements for the installation, maintenance, and testing of fire alarm systems.

R315.4 Single And Multiple Station Carbon Monoxide Detectors - R315.1 Carbon monoxide alarms: * * *

~~R315.5 Power Source: In new construction, required carbon monoxide detectors shall receive their primary power from the building wiring where such wiring is served from the commercial source and shall be equipped with a battery backup. Carbon monoxide detectors shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over current protection.~~

R315.6 Exception 2 Carbon Monoxide Alarms, Power Source: Modify section to read as follows:

Carbon monoxide alarms installed in the portion of the residence that is not impacted by the renovation or addition installed in accordance with Section R315.2.2 shall be permitted to be battery powered. Carbon monoxide alarms within the area of renovation or addition shall follow power source requirements as identified in R315.6.

R319.1 Premises Identification: Change to add the following:

Approved numbers or addresses shall be provided for all buildings in such a position as to be plainly visible and legible from the street or road fronting the property. These numbers shall be of a contrasting color to the building's exterior. Address numbers shall be Arabic numerals only and shall be a minimum of 5 1/2" high with a minimum stroke width of 0.5 inch (12.7 mm). All multi-tenant commercial buildings and multi-family residential dwelling units shall have additional address numbering placed on the rear door, if appropriate, with the same requirements noted above. Exception: detached residential garages. Buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position on the building that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be a minimum of 5 1/2" high with a minimum stroke width of 0.5 inch (12.7mm). Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. All multi-tenant commercial buildings and multi-family residential dwelling units shall have additional address numbering placed on the rear door, if appropriate, with the same requirements noted above. Exception: detached residential garages. Address identification shall be maintained.

Add a new section to read as follows:

R320.2 * * *

R322 Flood Resistant Construction: * * *

Chapter 4 Foundations

R402.1 Wood Foundations – R403.1.4.1 Frost Protection: *

*

R401.4 Geotechnical Evaluation, Add R401.4.3 to read as follows:

The allowable soil bearing pressure of a presumptive design soil bearing capacity of not more than 3,000 psf may be assumed in lieu of a complete geotechnical evaluation unless expansive soils, compressive soils, shifting soils, or other questionable soil characteristics are likely to be present.

Chapter 5 Floors
R504 Pressure Preservatively Treated-Wood Floors (on ground):
* * *

R507.3.1 Footings, Minimum Size: Change to read as follows:
The minimum size of concrete footings shall be in accordance with Table R507.3.1 or other approved method, based on the tributary area and allowable soil bearing pressure of a presumptive design soil bearing capacity of not more than 3,000 psf.

R507.9.2 Lateral Connection: Add new section as follows:
The prescriptive hold-down lateral connection as identified in Section R507.9.2 shall not be required for decks 30" or less above grade. For decks 30" or less above grade, the lag screw/bolt connections from the deck ledger to band joist required by R507.9.1 shall be accepted.

Chapter 6 Wall Construction
R606.1.1 Professional Registration Not Required: * * *

Add a new section to read as follows:

R703.9.35-Exterior Insulation Finish System (EIFS)

If any exterior insulation finish system (EIFS) is installed on any portion of a dwelling unit for an exterior covering, a certification of proper installation shall be required to be submitted as a special inspection. Before permit issuance, a statement of special inspections prepared by the registered design professional, or certified contractor, shall be submitted detailing the individuals and approved agencies intended to be retained for conducting these inspections. This report and signed certification shall be submitted to the city before any occupancy will be granted.

Chapter 8 Roof-Ceiling Construction
Add a new section as follows:

R802.11.1.34-Roof Tie-Down:

Rafter ties shall be required on tray and cathedral ceilings or calculations must be submitted signed and sealed by the design professional for the wind uplift forces.

Chapter 9 Roof Assemblies
~~Add a new section as follows:~~

R903.5 Sloped Roofs: Gutters And Downspouts:

All structures shall be provided with gutters and downspouts unless omission is specifically permitted by the building official.

Chapter 15 Exhaust Systems

M1503.4 (IMC 505.2) Makeup air requirements: changed to read as:

~~Exhaust hood systems capable of exhausting in excess of 400 cfm (0.19 m³/s) shall be provided with *makeup air* at a rate approximately equal to the *exhaust air rate*. Such *makeup air* systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system^{a)}.~~

Exceptions:

~~Residential kitchen exhaust fan make up air is not required when any of the following apply:~~

- ~~1. Combustion area zone test shows that the kitchen exhaust system does not affect the combustion venting of appliances. The testing is to be per the BPI CAZ Standard Method; or~~
- ~~2. All gas fired flue appliances have sealed combustion chambers that receive combustion air from an outside source; and solid burning fireplaces be equipped with outside combustion air and have sealed fireplace doors installed; or~~
- ~~3. When all appliances and fireplaces are electric.~~

~~a) Design Options in Transportation, Engineering and Development Business Group.~~

Chapter 24 Fuel Gas

G2422.1 (IFGS 411.1) Connecting Appliances: Change first sentence to read:

Furnaces, water heaters and boilers (unless specifically required by the manufacturer), shall be connected to the gas piping system by only rigid metallic pipe and fittings. Appliances, except furnaces, water heaters, and boilers (unless specifically required by the manufacturer), shall be connected to the piping system by one of the following:

Chapters 25-32 Plumbing Requirements *

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Chapters ~~343—4039~~ Electrical Requirements

Add a new section as follows:

E34301.1.1

All electrical work shall conform to the 2011 edition of the National Electrical Code and the ICC electrical code, both as adopted herein, and provisions of this code, whichever is more restrictive.

5-1B-3: - CONSTRUCTION REQUIREMENTS:

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5-1B-4: - DECKS, ADDITIONS, PATIOS, PORCHES, GAZEBOS, OR OTHER
ACCESSORY STRUCTURES: * * *

CHAPTER 1
BUILDING CODES

ARTICLE C. - ENERGY CONSERVATION CODE

SECTION:

5-1C-1: - ADOPTION:

The current International Energy Conservation Code (hereafter referred to as the IECC) mandated by the State of Illinois, and any amendment thereto, or subsequent edition thereof, is hereby adopted as the Code of the City for regulating the design, construction, quality of materials, erection, installation, alteration, repair, location, replacement, addition to, use or maintenance of the building envelope, mechanical, lighting, and power systems in the City as amended. One (1) copy of said Code shall be kept on file in the ~~City Clerk's~~ Transportation, Engineering, and Development office for public inspection.

5-1C-2: - AMENDMENTS: * * *

CHAPTER 1
BUILDING CODES

ARTICLE D. - FIRE PREVENTION CODE

SECTION:

5-1D-1: - ADOPTION:

There is hereby adopted by the City Council, for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosions, the following codes and standards to be known as the Naperville fire prevention code:

1. The International Fire Code, 20182-edition and referenced standards and appendices B, C, D, E, F, G, H, ~~and I~~, and N, as published by the International Code Council;

The Life Safety Code, 201806-edition, published and modified by the National Fire Protection Association (NFPA No. 101), as amended by ordinances of the City;

3. Volumes one through twelve and fifteen through seventeen excepting NFPA numbers 3, 70, 70B, 291, 402, 403, 405, 412, 414, 472, 473, 550, 551, 555, 556, 901, 921, 1000, 1001, 1002, 1003, 1005, 1006, 1021, 1026, 1031, 1033, 1035, 1137, 1041, 1051, 1061, 1071, 1081, 1142, 1143, 1144, 1145, 1201, 1221, 1250, 1401, 1402, 1403, 1404, 1405, 1407, 1410, 1451, 1452, Volumes 13 and 14, 1991, 1992, 1994, 1999 of the National Fire Code, the current edition adopted by the City of Naperville,

published and updated (supplemented and amended) by the National Fire Protection Association.

Note: The International Fire Code, 20182-edition (hereby referred to as the IFC) shall be the primary fire prevention code for the City. Subjects not addressed by the IFC will be regulated by the Life Safety Code or the National Fire Code, in that order.

There shall be one (1) copy of the International Fire Code, the Life Safety Code, and the National Fire Code kept on file for public inspection in the Office of the ~~City Clerk~~ Naperville Fire Marshal, 1380 Aurora Avenue, Naperville, Illinois 60540.

(Ord. No. 06-301, 12-19-2006, eff. 1-1-2007; Ord. No. 12-159, § 1(Exh. A), 12-18-2012)

5-1D-2: - AMENDMENTS TO LIFE SAFETY CODE:

Section 24.3.5 Extinguishment Requirements. Delete Section 24.3.5.1 in its entirety.

(Rep. by Ord. No. 98-14, 2-17-1998)

5-1D-3: - INTERPRETATION OF REGULATIONS: - 5-1D-7: - NEW MATERIALS, PROCESSES, OR OCCUPANCIES REQUIRING PERMITS:

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5-1D-8: - AMENDMENTS TO FIRE CODE:

The various sections of the IFC, 20182-edition, are hereby revised as follows:

Section 11009.4 Violation Penalties: Change to read:

Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law and/or in Section 5-1A-3 (Amendments): Section 109.4 (Work Commencing Without a Permit) of this Title. subject to permit fees, including double the cost for inspections and administrative fees as outlined in title 1, chapter 9, article H, fees for construction, in the Naperville municipal code, and shall be subject to a stop work order until such time a permit is obtained.

Section 308.1.4 Open-Flame Cooking Devices: Add the following exceptions:

4. When an open-flame cooking device is attended by an adult and a minimum 10 lb. dry chemical (class B or class ABC) fire extinguisher is located within ten (10) feet of the cooking device.

5. When an LP gas fueled cooking device is attended by an adult and a minimum 10 lb. dry chemical (class B or class ABC) fire extinguisher is located within ten (10) feet of the cooking device.

Section 311.2.2 Fire Protection: Delete exceptions nos. 1, ~~and 2, and 3~~

Section 505.1 Address Numbers: Change to read:

~~Approved numbers or addresses shall be provided for all buildings in such a position as to be plainly visible and legible from the street or road fronting the property. These numbers shall be of a contrasting color to the building's exterior. Address numbers shall be Arabic numerals only and shall be a minimum of 5½" high with a minimum stroke width of 0.5 inch (12.7 mm). All multi-tenant commercial buildings and multi-family residential dwelling units shall have additional address numbering adjacent to the rear door, if appropriate, with the same requirements noted above and clearly visible from the right-of-way. Exception: detached residential garages. Buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position on the building that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be a minimum of 5 ½" high with a minimum stroke width of 0.5 inch (12.7mm). Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. All multi-tenant commercial buildings and multi-family residential dwelling units shall have additional address numbering placed on the rear door, if appropriate, with the same requirements noted above. Exception: detached residential garages. Address identification shall be maintained.~~

Section 507.5.1 Fire Hydrant Systems: - Section 905.3.1 Height:

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Section 907.2 Where Required: Change the first paragraph to read as follows:
An approved manual, automatic, or manual and automatic fire alarm system installed in accordance with the provisions of ~~this code~~ the 2018 IBC as amended, NFPA 72, and the current edition of the Naperville Fire Department's Regulations for the installation, maintenance, and testing of fire alarm systems, as amended from time to time, shall be provided in new buildings and structures in accordance with Section 907.2.1 through Section 907.2.24, unless other requirements are provided by another section of this code. Where automatic sprinkler protection installed in accordance with IBC Section 903.3.1.1 ~~is provided and~~ connected to the building fire alarm system, automatic heat detection required by this section shall not be required.

Section 907.2: Add the following subsections:

Section 907.2.24: Fire alarm and detection systems for townhouses shall be installed in multiple single-family dwellings (townhouses), if the building or structure contains three (3) or more units. All fire alarm and detection systems shall be listed and installed in accordance with the provisions of NFPA 72, the IBC 20182, the IFC

2018~~2~~, and the current edition of the Naperville Fire Department's Regulations for the installation, maintenance, and testing of fire alarm systems, as amended from time to time.

~~Section 908.7: Add the following subsection:~~

~~Section 908.7.1.2: Power Source: In new construction, required carbon monoxide detectors shall receive their primary power from the building wiring where such wiring is served from the commercial source and shall be equipped with a battery backup. Carbon monoxide detectors shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for over-current protection.~~

Section 2306.2.3 Above-Ground Tanks Located Outside, Above Grade: - Section

2306.2.4.1 Tank Capacity Limits:

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Section 2306.2.66-2-Special Enclosures. Change #6 to read as follows:

6. Tanks containing class I, II, or IIIA liquids inside a special enclosure shall not exceed 2,000 gallons in individual capacity or 2,000 gallons in aggregate capacity.

(Ord. No. 02-31, 2-19-2006, eff. 4-8-2002; Ord. No. 06-301, 12-19-2006, eff. 1-1-2007; Ord. No. 08-056, 3-18-2008; Ord. No. 12-159, § 1(Exh. A), 12-18-2012)

CHAPTER 1 BUILDING CODES

ARTICLE E. - PLUMBING CODE

SECTION:

5-1E-1: - ADOPTION:

The Illinois State Plumbing Code (77 Ill. Adm. Code 890), current edition, issued by the Illinois Department of Public Health, is hereby adopted by reference, except as to those revisions and changes hereinafter set forth. One (1) copy of said codes shall be kept on file in the ~~City Clerk's~~ Transportation, Engineering, and Development Office for public inspection.

(Ord. No. 15-179, § 1, 11-17-2015; Ord. No. 18-032, § 1, 4-3-2018)

5-1E-2: - AMENDMENTS TO THE ILLINOIS STATE PLUMBING CODE:

The Illinois State Plumbing Code, current edition, is hereby amended as it applies within the City of Naperville as follows:

Section 890.320 Types of Joints

I) This subsection is hereby amended as follows:

2. This subsection is deleted and replaced by the following text: Plastic pipe, joints and fittings made from polyethylene (PE), polyvinyl chloride (PVC), Chlorinated Polyvinyl Chloride (CPVC), or polybutylene (PB) made by either solvent-welded or fusion-welded connections, compression, or insert fittings, metal clamps and screws, or threaded joints shall be prohibited for water service or the domestic water distribution system of any building except for the distribution and conveyance of distilled or deionized water.

Section 890.610 General Requirements - Material and Design:

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5-1E-3: - PERMIT FEE SCHEDULE: - 5-1E-4:- BUILDING SEWERS:

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CHAPTER 1 BUILDING CODES

ARTICLE F. - ELECTRICAL CODE

SECTION:

5-1F-1: - ADOPTION:

For the purposes of supplementing the provisions and regulations contained in this Title, and for setting forth minimum standards for the installation of electrical wiring, the City hereby adopts by reference the standards, specifications, rules and regulations of the National Fire Protection Association as compiled and published as the National Electrical Code, 2017~~14~~-edition (NFPA No. 70-2017~~05~~) (hereinafter referred to as the NEC), and the 2006 ICC Electrical Code, as amended, one (1) copy of each shall be kept on file in the City Clerk's Department of Transportation, Engineering, and Development Office for public inspection.

(Ord. No. 06-301, 12-19-2006, eff. 1-1-2007; Ord. No. 12-159, § 1(Exh. A), 12-18-2012)

5-1F-2: - AMENDMENTS:

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5-1-F-3: - BRANCH CIRCUITS:

210.12 Arc-Fault Circuit-Interrupter Protection: Change to read as follows:

(A) Definition: Arc-Fault Circuit Interrupter. An arc-fault circuit interrupter is a device intended to provide protection from the effects of arc faults by recognizing characteristics unique to arcing and by functioning to de-energize the circuit when an arc fault is detected.

(B) Dwelling Unit Bedrooms. All 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit bedrooms shall be protected by a listed arc-fault circuit interrupter, combination type installed to provide protection of the branch circuit.

FPN: For information on types of arc-fault circuit interrupters, see UL -1699-2011~~1999~~. Standard for Arc-Fault Circuit Interrupters.

Exception: The location of the arc-fault circuit interrupter shall be permitted to be at other than the origination of the branch circuit in compliance with (a) and (b): (a) The arc-fault circuit interrupter installed within 1.8 m (6 ft) of the branch circuit overcurrent device as measured along the branch circuit conductors.

(b) The circuit conductors between the branch circuit overcurrent device and the arc-fault circuit interrupter shall be installed in a metal raceway or a cable with a metallic sheath.

5-1F-4: - WIRING METHODS: - 5-1F:5: - RECEPTACLES, CORD CONNECTORS,
AND ATTACHMENT PLUGS: * * *

CHAPTER 1 BUILDING CODES

ARTICLE G. - FUEL GAS CODE

SECTION:

5-1G-1: - ADOPTION:

The 2018~~2012~~-International Fuel Gas Code, and referenced standards and appendices A, B, C, and D, as published by the International Code Council, Inc., is hereby adopted, for the control of building and structures as herein provided; and each and all of the regulations, provisions, penalties, conditions, and terms of the fuel gas code are hereby referred to, adopted, and made a part of this Code with the additions, insertions, deletions, and changes, prescribed in Section 5-1G-2 of this Article.

CHAPTER 1 BUILDING CODES

ARTICLE H. - PROPERTY MAINTENANCE CODE

SECTION:

5-1H-1: - ADOPTION:

1. The 2018~~2012~~-International Property Maintenance Code, as amended by the additions, insertions, deletions, and changes specified in this Article, is hereby adopted as the Property Maintenance Code for the City, for the purpose of adopting minimum standards to regulate residential and nonresidential structures, buildings, and premises within the City.

One (1) copy of the 2018~~2012~~-edition of the International Property Maintenance Code shall be maintained on file for public inspection in the Department of Transportation, Engineering, and Development~~City Clerk's Office~~.

3. In this Article, all references to the City shall mean the City of Naperville.

5-1H-2: - APPLICABILITY OF PROVISIONS OR REGULATIONS:

* * *

5-1H-3: - AMENDMENTS:

The various sections and tables of the 2012 International Property Maintenance Code are hereby amended and revised as follows:

101.1 – 103.5 Fees. * * *

105.1 Modifications. Change to read:

105.1 Modifications. * * *

106.4 Violation Penalties. Change to read:

106.4 Violation And Penalties. Any person who violates any provision of the code shall, upon conviction therefore, be subject to a fine of not less than fifty dollars (\$50.00), and not more than five hundred dollars (\$500.00), or to other remedies as provided by law, at the discretion of the court. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

110 — Demolition: - 308 - Rubbish And Garbage: * *

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~~404.4.1 Room Area: Change to read as follows:~~

~~Section 404.4.1 Area For Sleeping Purposes: Every bedroom occupied by one person shall contain at least 70 square feet of floor area, and every bedroom occupied by more than one person shall contain at least 50 square feet of floor area for each occupant thereof.~~

404.5 Overcrowding: - Table 404.5: Minimum Area Requirements:

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Section 602 Heating Facilities: delete this Section in its entirety. Heating facilities are governed under by Chapter 6 (Heat and Heating Facilities) of Title 4 of the Naperville Municipal Code.

5-1H-4: - VACANT LAND: * * *

CHAPTER 1
BUILDING CODES

ARTICLE I. - MECHANICAL CODE

SECTION:

5-1I-1: - ADOPTION: * * *

5-1I-2: - AMENDMENTS:

Section 101.1 Title: - Section 108.5 Stop Work Orders:

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~~Section IMC 505.2: Makeup air requirements: changed to read as:~~
~~Residential exhaust hood systems capable of exhausting in excess of 400 cfm (0.19 m³/s) shall be provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system^{a)}.~~

~~Exceptions:~~

~~Residential kitchen exhaust fan make up air is not required when any of the following apply:~~

- ~~1. Combustion area zone test shows that the kitchen exhaust system does not affect the combustion venting of appliances. The testing is to be per the BPI CAZ Standard Method; or~~
- ~~— All gas fired flue appliances have sealed combustion chambers that receive combustion air from an outside source; and solid burning fireplaces be equipped with outside combustion air and have sealed fireplace doors installed; or~~
- ~~3. When all appliances and fireplaces are electric.~~

~~a) Design Options in Transportation, Engineering and Development Business Group.~~

CHAPTER 1
BUILDING CODES

ARTICLE J. - SWIMMING POOL AND SPA CODE

SECTION:

5-1J-1: - ADOPTION:

1. The 2018~~2~~-International Swimming Pool and Spa Code (hereafter referred to as the ISPSC) and reference standards, regulating and controlling the design, construction, alteration, renovation, replacement and repairs of aquatic vessels.

There shall be one (1) copy of the International Swimming Pool and Spa Code kept on file for public inspection in the City Clerk's Transportation, Engineering, and Development Office.

3. In this Chapter, all references to the "Department" shall mean the City of Naperville.

5-1J-2: - AMENDMENTS: *

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CHAPTER 1
BUILDING CODES

SECTION:
5-1K-1: - ADOPTION

- There shall be one (1) copy of the International Existing Building Code kept on file for public inspection in the ~~City Clerk's~~ Transportation, Engineering, and Development Office.

- 5-1K-2: - APPLICABILITY OF PROVISIONS OR REGULATIONS: - 5-1K-3: -
AMENDMENTS: * *

PASSED this 4TH day of December, 2018.

ABSENT: BROADHEAD

APPROVED this 5TH day of December, 2018.

ATTEST:

Pam Gallahue, Ph.D.
City Clerk