ARTICLE I. IN GENERAL

Sec. 8-1. Permits and fees.

(a) It shall be unlawful to construct, enlarge, alter or demolish a structure, shed, deck or fence; change the occupancy of a building or structure requiring greater strength, exit way or sanitary provisions; to change to another use; install, erect, alter, repair, service, reset, or replace any building or structural equipment for which provision is made of the installation of which is regulated by this chapter; install, alter, extend, or modify electrical services or wiring, either low or high voltage; install, alter, extend or modify plumbing or plumbed fixtures; install alter, modify or replace building mechanical equipment; install a pool or spa; or to move or relocate a building or structure without first filing an application with the village in writing and obtaining a required permit; except that ordinary repair, as defined in section 105 of the ICC International Building Code, Edition 2021, which do not involve any violation of said chapter shall be exempt from this provision.

(b) All fees shall be established by resolution of the village board, as adopted and adjusted from time to time. All permit fees shall be paid prior to the issuance of any permit required by this chapter.

(c) Except as provided in subsection (d) of this section, when work is commenced or proceeded with prior to obtaining the required permits, the established fees shall be doubled. The payment of such doubled fee shall not relieve any person from fully complying with the requirements of this chapter nor from the penalties prescribed in this chapter.

(d) In cases of an emergency, with verbal or written authorization from the village, a contractor or owner may proceed with the work and file the application for a permit within 24 hours, Saturdays, Sundays and holidays excepted.

(Code 1985, § 100.1-1; Ord. No. 42-17, 11-20-2017)

Sec. 8-2. Notice of violation.

(a) *Posting; form of notice.* The building official or code enforcement officer shall cause a notice of violation or order informing the person responsible for the erection, construction, alteration, extension, repair, equipping, removal, demolition, use, or occupancy of a building, structure, shed, fence, pool or other structural appurtenance in violation of the provisions of this chapter or in violation of a detailed statement or plan approved under this chapter or in violation of a permit or certificate issued pursuant thereto, to be posted in a conspicuous place near the main entrance of such building or structure. The text of the notice shall contain a reference to the provision of this chapter which has been violated; it shall direct the discontinuance of the illegal action or condition and the abatement of the violation; and shall contain such other information respecting the nature of the violation deemed advisable by the building official.

(b) *Stop work order notice.* Upon notice from the village, or by any designated building inspector, that unauthorized work on any building or structure is being procured contrary to the provisions of this Code or is being conducted in an unsafe or dangerous manner, such work shall be immediately stopped. The village shall issue a stop work order in writing to the owner of the property involved, the owner's agent, or to the person doing the unauthorized or unsafe work.

(c) *Removal.* Upon removal or abatement of the cause of the violation for which the notice is posted, the building official or code enforcement officer shall remove the notice. Any other person removing or defacing such notice is guilty of a petty offense and shall be fined not to exceed $500.00.

(Code 1985, § 100.1-2; Ord. No. 42-17, 11-20-2017)

Sec. 8-3. Prosecution of violation.

If the notice of violation is not complied with promptly, the community development department shall initiate the appropriate code enforcement procedure by law or in equity to restrain, correct, or abate such violation or to require the removal or termination of the unlawful use of the building or structure that is determined to be in violation.

(Code 1985, § 100.1-3; Ord. No. 42-17, 11-20-2017)

Sec. 8-4. Penalties for violation.

(a) *Noncompliance.* It shall be unlawful for any person to erect, construct, enlarge, alter, repair, improve, remove, convert, demolish, equip, use, occupy, or maintain any building, structure, shed, deck or fence, or cause the same to be done contrary to or in violation of any provision of this chapter, any approved plan or directive of the building official, any permit or certificate issued under the provisions of this chapter or any stop work order, except such work as the person is directed to perform to remove a violation or unsafe condition. Any person violating any of the provisions of this chapter shall be guilty of a petty offense, punishable by a fine, the amount of which is to be determined through the administrative enforcement process established by the village. Each such person shall be deemed guilty of a separate offense for each and every day during which any violation is committed, continued, or permitted.

(b) *Abatement.* The imposition of the penalties prescribed in this section shall not preclude the village from instituting appropriate action to prevent unlawful construction or to restrain, correct, or abate a violation or to prevent illegal occupancy of a building, structure, or premises, or to stop an illegal act, conduct, business, or use of a building or structure in or about any premises.

(Code 1985, § 100.1-4; Ord. No. 42-17, 11-20-2017)

Sec. 8-5. Means of appeal.

Any person, firm or corporation shall have the right to appeal a decision of the building official to the code hearing division. Means of appeal shall follow requirements set forth in chapter 1, article II, division 2. An application for appeal shall be based on a claim that the true intent of this Code or the rules legally adopted hereunder have been incorrectly interpreted, the provisions of this Code do not fully apply, or an equivalent form of construction is to be used. The application for appeal must be in writing and submitted to the community development department of the village. Once received, the community development department will send notice of a hearing on the appeal as provided in chapter 1, article II.

(Code 1985, § 100.1-5; Ord. No. 42-17, 11-20-2017; Ord. No. 21-20, 6-15-2020)

Sec. 8-6. Single-family dwelling inspections; purpose; fees.

(a) Any owner or other person having an interest in a single-family dwelling located in the incorporated areas of the village may make application to the community development department for an inspection thereof. Such inspection shall be for the purpose of determining whether the single-family dwelling is in compliance with applicable ordinances and resolutions regulating the construction and maintenance thereof.

(b) Inspections permitted by this section shall be made by the building official or the village's duly appointed representative upon receipt of an application and payment of a fee established by the village board for each single-family dwelling to be inspected.

(Code 1985, § 100.1-6; Ord. No. 42-17, 11-20-2017)

Sec. 8-7. Building permits for telecommunications facilities.

The review of a building permit for a telecommunications facility or equipment shall comply with the requirements of section 3108 of the 2021 International Building Code, as adopted, and the village zoning ordinance, as provided for in appendix A of this Code. If village board action is required before a building permit may be issued, the review of the building permit shall take place simultaneously with the process leading to the village board decision.

(Code 1985, § 100.1-7; Ord. No. 42-17, 11-20-2017; Ord. No. 21-20, 6-15-2020)

Sec. 8-8. Certificate of Business Occupancy

(a) It shall be unlawful for any person, owner or agent thereof to occupy or use, for the purpose of operating a business on said premises until a certificate of occupancy has been issued by the Community Development and Building Department.
(b) The certificate of occupancy requires a life safety inspection prior to occupying and operating a business to ensure life safety requirement are met.
(c) The certificate of occupancy shall be separate from any other work requiring permits from the Village.

Sec. 8-9. Permits for Retaining Walls

(a) A retaining wall that is greater than or equal to four feet (4') in height, or overall height in the event of a terraced wall, shall be designed and sealed by an Illinois licensed structural engineer or architect.

(b) Wall sections and structural calculations by a licensed structural engineer may also be accepted by the Village.

(c) Exemptions: retaining walls under four feet (4') in height measured from grade at the bottom to the top of the wall, unless supporting a surcharge or impounding Class I, II or III-A liquids.

Secs. 8-10—8-32. Reserved.

CHAPTER 8 BUILDING AND BUILDING REGULATIONS

ARTICLE II – BUILDING CODE

Sec. 8-33. – Adopted.

The International Building Code, 2021 edition, including Appendix Chapters F, G and I, as published by the International Code Council, be and is hereby adopted as the *Building Code* of the Village. A copy of the ICC International Building Code, Edition 2021 has been filed in the office of the village clerk for use and examination by the public.

Sec. 8-34. – Amendments

The International Building Code 2021, as adopted by Section 8-33, is hereby amended as follows:

(1) Section 101.1 is amended as follows:

101.1 Title. These regulations shall be known as the *Building Code* of the Village of Machesney Park, State of Illinois, hereinafter referred to as "this code".

(2) Section 101.4.3 is amended as follows:

101.4.3 Plumbing. The provisions of the State of Illinois Plumbing Code shall apply to installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system. Where there is a reference to the "International Plumbing Code", it shall refer to the current "State of Illinois Plumbing Code".

(3) Section 104.1.1 is added as follows:

104.1.1 Fire Official approval. The Fire Official for the applicable Fire Protection District shall have the authority to issue orders based on requirements of this code for matters pertaining to design, materials or equipment when related to fire protection.

(4) Section 105.2 is amended as follows:

105.2 Work exempt from permit.

Building:

1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11 m^2), and is not supported by another structure.

2. through 5. remain unchanged.

6. Sidewalks, patios, and driveways not more than 30 inches (762 mm) above adjacent grade, and not over any basement or story below and are not part of an accessible route.

7. through 13. remain unchanged.

14. Replacement of doors and windows provided the size is not changed and a fire rating is not required.

15. Repair or replacement of interior wall and ceiling coverings provided:

a. not more than 50% of coverings in a room are removed,

b. coverings are not part of a fire rated assembly,

c. structural elements in a hazardous condition are not exposed.

(5) Section 105.7 is deleted and replaced as follows:

105.7 Placement of Permit. The permit holder shall post the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a re-inspection fee when the permit is not posted.

(6) Section 107.3 is amended as follows:

107.3 Examination of documents. The Community Development Department shall examine or cause to be examined the accompanying construction documents and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this code and other pertinent laws or ordinances. The Community Development shall initiate and/or delegate the review all plans for issuance of building, fire suppression and fire alarm (electrical) permits, other than one and two family dwelling projects. Electronic copies of the plans will be available at Village Hall.

(7) Section 109.4 is deleted and replaced as follows:

109.4 Work commencing before permit issuance. When a permit is required by this code, and work is started or proceeded with, prior to obtaining said permit, the fees may be doubled and not less than $250.00. This penalty may be waived by the Community Development Department Head or the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees may be doubled and not less than $500.00 plus an additional fee of $500.00 may be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees may be tripled and not less than $750.00 plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender may be prosecuted by the Village's Legal Department as permitted by state law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

(8) Section 109.7 is added as follows:

109.7 Governmental exceptions: Permits are required for all governmental projects in accordance with Sections 107, 108 and 109 of this code. No permit fees or inspection charges

shall be charged for construction projects directly contracted by the Village of Machesney Park, State of Illinois, Winnebago County, or the United States of America. All other units of government shall pay $30.00 for each permit. Examples of these governmental units include the Rockford Park District, Rockford Mass Transit District, Rock River Water Reclamation District, North Park Water District, Winnebago County Forest Preserve District, North Suburban Library System, , Harlem Township and other similar governmental units.

(9) Section 109.8 is added as follows:

109.8 Re-inspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary correction shall be made so as to achieve compliance with this code. The contractor shall then request that the work or installation be re-inspected or retested. The permit holder will be subject to a re-inspection fee if it is determined that the applicant has failed to make adequate repairs in such as manner that causes greater than 2 re-inspections.

(10) Section 111.5 is added as follows:

111.5 New buildings. Before a certificate of occupancy is issued for new buildings, other than one-and two-family dwellings, the applicable Fire Protection District may inspect the building.

(11) Section 116.4 is deleted and replaced as follows:

116.4 Method of service. Such notice shall be deemed properly served where a copy thereof is served in accordance with one of the following methods:

1. Delivered to the owner personally.

2. Sent by first class mail, postage prepaid, to the owner at the last known address.

3. Sent by certified mail, postage prepaid addressed to the owner at the last known address with return receipt requested, if required by state law.

(12) Section 901.1.1 is added as follows:

Section 901.1.1 International Fire Code. The requirements of this chapter shall include any additional amendments to the 2021 International Fire Code.

(13) Section 1008.3.3 Rooms and Spaces is amended as follows:

1008.3.3 Rooms and Spaces. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

1. Electrical equipment rooms
2. Fire command centers
3. Fire pump rooms
4. Generator rooms
5. All bathrooms

(14) Chapter 11 is deleted and replaced as follows:

CHAPTER 11 ACCESSIBILITY
Section 1101 GENERAL

1101.1 SCOPE. The provisions of the Illinois Accessibility Code shall control the design and construction of facilities for accessibility for individuals with disabilities.

(15) Chapter 13 is deleted and replaced as follows:

CHAPTER 13 ENERGY EFFICIENCY
Section 1301 GENERAL

1301.1 SCOPE. This chapter regulates the energy efficiency for the design and construction of buildings by adopting the 2021 Illinois Energy Conservation Code.

(16) Section 1501.2 shall be added as follows:

1501.2 General. Roof assemblies, roof decks and roof coverings shall be designed to meet or exceed the requirements of Table 1501.1, or in accordance with this code, whichever is more restrictive.

TABLE 1501.1

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD[o]	WIND DESIGN				SEISMIC DESIGN CATEGORY[f]	SUBJECT TO DAMAGE FROM			ICE BARRIER UNDERLAYMENT REQUIRED[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
	Speed[d] (mph)	Topographic effects[k]	Special wind region[l]	Windborne debris zone[m]		Weathering[a]	Frost line depth[b]	Termite[c]				
30	115	NO	NO	NO	A	SEVERE	42	MOD/HEAVY	YES	SEE LOCAL	2500	47.8

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

1. a.Where weathering requires a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code, the frost line depth strength required for weathering shall govern. The weathering column shall be filled in with the weathering index, “negligible,” “moderate” or “severe” for concrete as determined from Figure R301.2(1). The grade of masonry units shall be determined from ASTM C34, ASTM C55, ASTM C62, ASTM C73, ASTM C90, ASTM C129, ASTM C145, ASTM C216 or ASTM C652.
2. b.Where the frost line depth requires deeper footings than indicated in Figure R403.1(1), the frost line depth strength required for weathering shall govern. The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
3. c.The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
4. d.The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(2). Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
5. e.The jurisdiction shall fill in this section of the table to establish the design criteria using Table 10A from ACCA Manual J or established criteria determined by the jurisdiction.
6. f.The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
7. g.The jurisdiction shall fill in this part of the table with: the date of the jurisdiction’s entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas); and the title

and date of the currently effective Flood Insurance Study or other flood hazard study and maps adopted by the authority having jurisdiction, as amended.

8. h.In accordance with Sections R905.1.2, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
9. i.The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
10. j.The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
11. k.In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
12. l.In accordance with Figure R301.2(2), where there is local historical data documenting unusual wind conditions, the jurisdiction shall fill in this part of the table with "YES" and identify any specific requirements. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
13. m.In accordance with Section R301.2.1.2 the jurisdiction shall indicate the wind-borne debris wind zone(s). Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
14. n.The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction.
15. o.The jurisdiction shall fill in this section of the table using the Ground Snow Loads in Figures R301.2(3) and R301.2(4).

(17) Section 1806.2 Exception is amended as follows by adding the following exception:

Section 1806.2 Presumptive load-bearing values.

Exceptions:

1. A presumptive load-bearing capacity shall be permitted to be used where the *building official* deems the load-bearing capacity of mud, organic silt or unprepared fill is adequate for the support of lightweight or temporary structures.

2. Depending on the use, the Code Official may accept designs based upon an assumed soil bearing capacity of 1500 psf provided all of the following conditions are met:

a. The building height does not exceed one (1) story or 20 feet in buildings which contain masonry or concrete walls.

b. The building height does not exceed one (1) story or 25 feet in buildings which do not contain any masonry or concrete walls.

c. The foundation is shallow and the building does not include a basement.

d. The building seismic use group is not Category II or III as listed in Table 1604.5

e. Footings bear on virgin soil that is not questionable including but not limited to plastic, liquefied, highly sensitive clays, weakly cemented, peats or organic and expansive materials.

Prior to issuance of a building permit, a statement in accordance with Section 1704.2 shall be submitted by the permit applicant including the name of the design professional or qualified soils engineer who will be conducting the inspection.

Following excavations and prior to pouring of foundations, a site inspection and written report shall be prepared by a licensed design professional or qualified soils engineer to indicate that no questionable soils have been discovered. A copy of inspection report shall be submitted to the code official prior to inspection listed in Section 110.3.1.

(18) Section 2901 is deleted and replaced as follows:

Section 2901 General

2901.1 Scope. The provisions of this chapter and the current Illinois Plumbing Code shall govern the design, construction, erection and installation of plumbing components, appliances, equipment and systems used in buildings and structures covered by this code. Toilet and bathing rooms shall be constructed in accordance with Section 1210. Private sewage disposal systems shall conform to the International Private Sewage Disposal Code. The International Fire Code, the International Property Maintenance Code and the current Illinois Plumbing Code shall govern the use and maintenance of plumbing components, appliances, equipment and systems. The International Existing Building Code and the current Illinois Plumbing Code shall govern the alteration, repair, relocation, replacement and addition of plumbing components, appliances, equipment and systems.

2901.2 Water supply system design criteria. The water service and water distribution systems shall be designed and sized for peak demand. No service connection shall supply more than one property.

2901.3 Service valve. Each dwelling unit shall be provided with an accessible main shutoff valve near the entrance of the water service. The valve shall be of a full-open type having nominal restriction to flow, with provision for drainage such as a bleed orifice or installation of a separate drain valve. Where a service connection is intended to supply two or more distinct premises or apartments, a separate and distinct shutoff valve must be provided for each premises or apartment, located outside of the same. Additionally, the water service shall be valved at the curb or lot line in accordance with local requirements.

2901.4 Stormwater Drainage. Stormwater drainage shall comply with Chapter 11 of the 2021 International Plumbing Code.

(19) Appendix F "RODENTPROOFING" is added as part of this Code.

(20) Appendix G "FLOOD-RESISTANT CONSTRUCTION" is added as part of this Code.

(21) Appendix I "PATIO COVERS" is added as part of this Code.

(22) RADON CONTROL METHODS shall be employed for multi-family dwelling units using IRC 2021 APPENDIX AF.

Chapter 8 Building and Building Regulations

ARTICLE III. – ELECTRICAL CODE

Sec. 8-57. – Adopted

The NFPA 70: National Electrical Code, 2020 edition, including Annex H, is hereby adopted by reference and set forth fully in this section, as the electrical code of the Village. A copy of the NFPA 70 National Electrical Code, Edition 2020, has been filed in the office of Village Clerk for use and examination by the public.

Sec. 8-57. - Amendments

The National Electrical Code 2020, as adopted by Section 8-57, is hereby amended as follows:

Annex H Administration and Enforcement

(1) Article 80.2 shall be amended as follows:

Section 80.2 Definitions. Add the following:

Electrical Contractor. Whenever the term "electrical contractor" is used it shall mean any person, firm, or corporation undertaking the execution of electrical work or engaged in the business of installing or altering by contract electrical equipment for utilization of electricity, supplied for light, heat, or power, not including radio apparatus or equipment for wireless reception of sounds and signals, not including apparatus, conductors and other equipment installed for or by public utilities, including common carriers, which are under the jurisdiction of the Illinois Commerce Commission for use in their operation as public utilities; the term "Electrical Contractor" does not include employees employed by such contractor to do or supervise such work, nor does it include homeowners who do their own work in their own home.

Electrical Equipment. Whenever the term “electrical equipment” is used, it shall mean conductors and equipment installed for the utilization of electricity supplied for light, heat, or power, but does not include radio apparatus or equipment for the wireless reception of sounds and signals, and does not include apparatus, conductors, and other equipment installed for or by public utilities, including common carriers which are under the jurisdiction of the Illinois Commerce Commission, for use in their operation as public utilities.

(2) Article 80.15 (A) shall be amended as follows:
80.15 (A) Creation of the electrical board. There is hereby created the electrical board of the village, hereinafter designated as the board.

(3) Article 80.15 (C) shall be amended as follows:

80.15(C) Terms. Of the members first appointed, one shall be appointed for a term of one year, one for a term of two years, one for a term of three years, one for a term of four years, and thereafter each appointment shall be for a term if four years, or until a successor is appointed. The chair of the board shall be appointed for a term not to exceed five years.

(4) Article 80.15(D) shall be deleted and replaced as follows:

80.15(D) Compensation. Each appointed member shall receive the sum of $0.00 for each day. The permit holder shall post the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a re-inspection fee when the permit is not posted.

(5) Article 80.19 (A) (2) shall be deleted and replaced as follows:

80.19 Permits and Approvals. (A) Application. (2) The permit holder shall post the permit or a legible copy of the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The Community Development Department may impose a re-inspection fee when the permit is not posted.

(6) Article 80.19 (C) (4) shall be added as follows:

80.19 Permits and Approvals. (C) Issuance of permits. (4) Electrical wiring, devices, appliances, apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy, unless the wiring is integral with a lighting or power distribution system, fire alarms or temperature control systems involving fan shut down relays, smoke controls systems or duct smoke detectors.

(7) Article 80.19 (C) (5) shall be added as follows:

80.19 Permits and Approvals. (C) Issuance of permits. (5) Installation of telephone, CAT5 or other network wiring, or CATV wiring.

(8) Article 80.19 (D) shall be deleted.

80.19 Permits and Approvals. (D) Annual permits. Deleted.

(9) Article 80.19 (E) (1) shall be added as follows:

80.19 Permits and Approvals. (E) Fees. (1) Work commencing before permit issuance. When a permit is required by this code, and work is started or proceeded with, prior to obtaining said permit, the permit fees established may be doubled and not less than $250.00. This penalty may be waived by the Community Development Department Head or the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees established may be doubled and not less than $500.00 plus an additional fee of $500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees established may be tripled and not less than $750.00 plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender may be prosecuted by the Village's Legal Department as permitted by state law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

(10) Article 80.19 (F) (3) shall be deleted and replaced as follows:

80.19 Permits and Approvals. (F) Inspections and Approvals. (3) When any portion of the electrical installation within the jurisdiction of an Electrical Inspector is to be hidden from view by the permanent placement of parts of the building, the person, firm or corporation installing the equipment shall notify the Electrical Inspector, and the equipment shall not be concealed until it has been approved by the Electrical Inspector.

(11) Article 80.19 (F) (5) shall be amended as follows:

80.19 Permits and Approvals. (F) Inspections and Approvals. (5) If, upon inspection, any installation is found not to be fully in conformity with the provisions of Article 80, and all applicable ordinances, rules, and regulations, the Inspector making the inspection shall at once make a written notice stating the defects that have been found to exist. The list will be posted on the jobsite. Where any work or installation does not pass an initial test or inspection, the necessary correction shall be made so as to achieve compliance with this code. The contractor shall then request that the work or installation be re-inspected or retested. The permit holder will be subject to a re-inspection fee, for the first, and each additional, re-inspection or test performed.

(12) Article 80.21 (B) (1) shall be amended as follows:

(B) Responsibility of the Applicant. (1) The construction documents include all of the electrical requirements, including a completed "Available Short-Circuit Current" form. Plans and specifications in sufficient detail shall be filed with the Building Official showing the location and capacity of all lighting facilities, electrically operated equipment and electrical circuits required for all service equipment of the building or structure, and. Whenever an electrical contractor will be the installer of electric heat in a room or in a building, and said heat is to be the principal source of heat for that room or building, the plans and heat loss (80% differential) shall be submitted to the building department before proceeding with the installation.

(13) Article 80.21 (B) (3) shall be added as follows:

(B) Responsibility of the Applicant. (3) Available Short Circuit Current Form. An available short circuit current form will be required stating what the available short circuit current is at the transformer secondary, at the main disconnect line side, and at all sub-panels. The form shall be filled out and on file with the Village's Community Development Department before an inspection will be performed for an electrical service for commercial, industrial and, in some cases, residential buildings.

(14) Article 80.23 (B) (3) shall be deleted.

80.23 Notice of Violations, Penalties. (B) Penalties. (3) (Deleted)

(15) Article 80.25 (C) shall be deleted.

80.25 Connection to Electrical Supply. (C) Notification. (Deleted)

(16) Article 80.27 (A) shall be deleted and replaced as follows:

80.27 Inspector's Qualifications. (A) Certificate. All electrical inspectors shall be certified by a nationally recognized inspector certification program accepted by the Board. The certification

program shall specifically qualify the inspector in electrical inspections. If a person is employed as an Electrical Inspector either directly or by contract by the Village and does not have a certification, that person will have one year to acquire the certification.

(17) Article 80.27 (B) (3) shall be amended as follows:

80.27 Inspector's Qualifications. (B) Experience. (3) Be well versed in the statutes of Illinois relating to electrical work and the National Electrical Code, as approved by the American National Standards Institute

(18) Article 80.27 (B) (4) shall be amended as follows:

80.27 Inspector's Qualifications. (B) Experience. (4) Have had at least 2 years' experience as an Electrical Inspector or 5 years in the installation of electrical equipment. In lieu of such experience, the applicant shall be a graduate in electrical engineering or of a similar curriculum of a college or university considered by the Board as having suitable requirements for graduation and shall have had two years of practical electrical experience.

(19) Article 80.29 shall be amended as follows:

80.29 Liability for Damages. Article 80 shall not be construed to affect the responsibility or liability of any party owning, designing, operating, controlling, or installing any electrical equipment for damages to persons or property caused by a defect therein, nor shall the Village of Machesney Park, its contracted service providers, or any of its employees be held as assuming any such liability by reason of the inspection, re-inspection, or other examination authorized.

(20) Article 80.35 shall be amended as follows:

80.35 Effective Date. Article 80 shall take effect immediately after its passage and publication.

(21) Article 210.8 (A) (5) Exception shall be deleted in part and replaced as follows:

Exception No. 1 to (5): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.
Exception No. 2 to (5): A single outlet for a sump pump, sewer ejector, or power-vent may be installed without ground-fault circuit-interrupter protection where an accessible ground-fault circuit-interrupter protected receptacle is located within (900 mm) 3 feet of the unprotected receptacle.

(22) Article 210.8 (F) Exception shall be added as follows:

210.8(F) Exception to be added as follows:
Exception 1: Ground-fault circuit-interrupter protection shall not be required on lighting outlets other than those covered in 210.8(C).
Exception 2: GFCI protection shall not be required for listed HVAC equipment. This exception shall expire September 1, 2026.

(23) Article 210.19 (A) (5) shall be added as follows:

210.19 Conductors—Minimum Ampacity and Size. (A) Branch Circuits Not More Than 600 Volts.

(5) Microwave Circuits. The wiring used to supply power to a permanently installed microwave oven shall consist of a dedicated circuit installed with 12 AWG or larger conductors.

(24) Article 210.52 (C) (2) shall be deleted and replaced as follows:

210.52 (C) Countertops and Work Surfaces. (2) Island and Peninsular Countertops and Work Surfaces.

Receptacle outlets, if installed to serve an island or peninsular countertop or work surface, shall be installed in accordance with 210.52(C) (3). If a receptacle outlet is not provided to serve an island or peninsular countertop or work surface, provisions shall be provided at the island or peninsula for future addition of a receptacle outlet to serve the island or peninsular countertop or work surface.

(25) Article 210.52 (C) (3) shall be deleted and replaced as follows:

210.52 (C) Countertops and Work Surfaces. (3) Receptacle Outlet Location. Receptacle outlets shall be located in one or more of the following:

(1) On or above, but not more than 500 mm (20 in.) above, a countertop or work surface
(2) In a countertop using receptacle outlet assemblies listed for use in countertops
(3) In a work surface using receptacle outlet assemblies listed for use in work surfaces or listed for use in countertops

Receptacle outlets rendered not readily accessible by appliances fastened in place, appliance garages, sinks or rangetops as covered in 210.52 (C) (1), Exception, or appliances occupying assigned spaces shall not be considered as these required outlets.

(26) Article 210.70 shall be amended as follows:

210.70 Lighting Outlets Required. Lighting outlets shall be installed and controlled as specified in 210.70 (A), (B) and (C). The switch or wall-mounted control device shall not rely exclusively on a battery unless a means is provided for automatically energizing the lighting outlets upon battery failure.

(27) Article 210.70 (A) shall be amended as follows:

210.70(A) Dwelling units. In dwelling units, lighting outlets shall not be fed from the load side of a GFI device unless specifically called for in this Code, and shall be installed in accordance with 210.70(A)(1),(A)(2), and (A)(3).

(28) Article 210.70(A) (1) shall be amended as follows:

210.70 Lighting Outlets Required. (A) Dwelling Units. (1) Habitable rooms. At least one lighting outlet controlled by a listed wall-mounted control device shall be installed in every habitable room, kitchen and bathroom. The wall-mounted control device shall be located near an entrance to the room. Unless 210.70(A)(1) Exception No. 1 is applied, provision shall be made in the wiring of a ceiling box in all habitable rooms where a ceiling fan could possibly be mounted (excluding dining rooms) for a luminaire to operate independently from a fan.

(29) Article 230.11 shall be added as follows:

230.11 Service Installation and/or Modifications. When any part of service entrance equipment, a branch circuit panel, or a service conductor is installed, replaced, modified, or required to be repaired, the service in its entirety must be installed to comply with the current codes as adopted by the Village of Machesney Park. The main branch circuit panel shall be at least 16 spaces.

Exception: Replacement or addition of a branch-circuit overcurrent protective device.

(30) Article 230.43 shall be deleted and replaced as follows:

230.43 Wiring Methods for 1000 Volts, Nominal, or Less. Service-entrance conductors and service laterals overhead shall be installed in accordance with the applicable requirements of this *Code* covering the type of wiring method used and shall be limited to rigid metal conduit (RMC) or intermediate metal conduit (IMC). Electrical metallic tubing (EMT) may only be used inside a building or structure.

(31) Article 230.67 shall be deleted in its entirety.

Article 230.67 deleted in its entirety.

(32) Article 230.70 (A) (1) shall be deleted and replaced as follows:

230.70 General. (A) Location. (1) Readily Accessible Location. The service disconnecting means shall be installed at a readily accessible location, either outside of a building or structure, or inside within 5 feet of the point of entrance of the service conductors.

(33) Article 230.85 shall be amended as follows:

230.85 Emergency Disconnects. For one- and two-family dwelling units, all service conductors may terminate in disconnecting means having a short-circuit current rating equal to or greater than the available fault current, installed in a readily accessible outdoor location. If more than one disconnect is provided, they shall be grouped. Each disconnect shall be one of the following:

(1) Service disconnects marked as follows:
EMERGENCY DISCONNECT,
SERVICE DISCONNECT
(2) Meter disconnects installed per 230.82(3) and marked as follows:
EMERGENCY DISCONNECT,
METER DISCONNECT,
NOT SERVICE EQUIPMENT
(3) Other listed disconnect switches or circuit breakers on the supply side of each service disconnect that are suitable for use as service equipment and marked as follows:
EMERGENCY DISCONNECT,
NOT SERVICE EQUIPMENT.

Markings shall comply with 110.21 (B).

(34) 250.24 (A) (1) shall be deleted and replaced as follows:

250.24 (A) (1) General. The grounding electrode conductor connection shall be made at the enclosure of the service disconnecting means, un-spliced or irreversibly spliced between the first grounding electrode and the enclosure where the grounded service conductor is connected at the service disconnecting means.

(35) Article 250.52 (A) shall be amended as follows:

250.52 (A) Electrodes Permitted for Grounding. A concrete-encased electrode that complies with 250.52 (A) (3) will be required in all new construction and be clearly marked for identification as the concrete-encased electrode by painting or tagging. All grounding electrode conductor(s) One of the following electrodes described in (1) through (2) and (4) through (8) shall be required as a supplemental grounding method.

(36) Article 250.53 Grounding Electrode System Installation. (A)(2)(4) and (A)(2)(5) shall be deleted.

(37) Article 250.53 Grounding Electrode System Installation. Exception to (A)(2) shall be deleted.

(38) Article 300.1(D) shall be added as follows:

300.1 Scope. (D) Mixed Use and Occupancy Buildings. The entire mixed use and occupancy building shall be wired by the most restrictive code.

(39) Article 300.5 (D) (3) shall be deleted and replaced as follows:

300.5 Underground Installations. (D) Protection from Damage (3) Service Conductors. Underground service conductors shall be installed in galvanized or stainless-steel rigid metal conduit (RMC) or intermediate metal conduit (IMC). Underground service conductors that are not subject to physical damage may be installed in Schedule 80 rigid electrical nonmetallic conduit (PVC), protected by galvanized or stainless-steel rigid conduit (RMC) or intermediate metal conduit (IMC) to a minimum of 450 mm (18 inches) below grade. No exposed nonmetallic conduit shall be allowed. Underground service conductors that are not encased in concrete and that are buried 450 mm (18 inches) or more below grade shall have their location identified by a warning ribbon that is placed in the trench at least 300 mm (12 inches) above the underground installation.

(40) Article 300.5 (L) shall be added as follows:

300.5 Underground Installations. (L) Different Systems in Common Trench. When an electrical system over 50V shares a trench with another system, a distance of 12” from the other system must be maintained either horizontally or vertically. If the system sharing the trench is gas piping, the gas system must be below the electrical system.

(41) Article 300.11(A) (1) shall be added as follows:

300.11 Securing and Supporting. (A) Secured in Place. (1) Tie Wire. Tie wire shall not be allowed as a sole means of supporting or securing conduit or cable in above ground applications.

(42) Article 300.13(C) shall be added as follows:

300.13 Mechanical and Electrical Continuity--Conductors. (C) Multiple Conductors. A device designed to be used for switching, or as a receptacle, may not be used to provide electrical continuity to any circuit conductor.

(43) Article 300.13(D) shall be added as follows:

300.13 Mechanical and Electrical Continuity-Conductors. (D) Push-Type Clamping Devices. No push-type or clamp-type connections for splices or for terminating to devices will be allowed unless the wire connection is secured with a screw or crimping tool.

Exception 1: Disconnecting means for ballasts.

Exception 2: Factory installed terminations in luminaires.

(44) Article 310.3 (A) shall be deleted and replaced as follows:

310.3 Conductors. (A) Minimum Size of Conductors. The minimum size of conductors for voltage ratings up to and including 2000 volts shall be 14 AWG copper or 4 AWG aluminum or copper clad aluminum.

(45) Article 310.3 (B) shall be deleted and replaced as follows:

310.3 Conductors. (B) Conductor Material. Conductors in this article shall be aluminum, copper-clad aluminum, or copper unless otherwise specified. Aluminum and copper-clad aluminum conductors shall be prohibited to be installed in sizes smaller than 4 AWG. Stranded aluminum conductors 4 AWG through 1000 kcmil marked as Type RHH, RHW, XHHW, THW, THHW, THWN, THHN, service-entrance Type SE Style U and SE Style R shall be made of an AA-8000 series electrical grade aluminum alloy conductor material.

(46) Article 314.27 (A) (2) shall be deleted and replaced as follows:

314.27 Outlet Boxes. (A) Boxes at Luminaire or Lampholder Outlets. (2) Ceiling Outlets. At every outlet used exclusively for lighting, the box shall be designed or installed so that a luminaire or lampholder may be attached. Boxes shall be required to support a luminaire weighing a minimum of 23 kg (50lb). A luminaire that weighs more than 23 kg (50lb) shall be supported independently of the outlet box, unless the outlet box is listed and marked on the interior of the box to indicate a maximum weight the box shall be permitted to support that would accommodate the weight of the fixture. In all habitable rooms with a ceiling fixture (other than recessed fixtures) in a location acceptable for a ceiling-suspended (paddle) fan in one- and two-family or multi-family dwellings, a box rated for ceiling fan support shall be installed.

(47) Article 334.10 including (1) through (5) shall be deleted and replaced as follows:

334.10 Uses Permitted. Type NM, Type NMC, and Type NMS cables shall be permitted to be used only in the following: R-2, R-3, and R-4 structures (as defined by the International Building Code) not exceeding three floors above grade, except as prohibited in 334.12.

(48) Article 334.15(D) shall be added as follows:

334.15 Exposed Work. (D) All Unfinished Areas. Any exposed cable 7 feet (213 cm) or closer to the floor must be protected with a durable building material or sleeved in an approved manner.

(49) Article 334.40 (B) shall be deleted in part:

334.40 Boxes and Fittings. (B) Devices of Insulating Material. Delete “and for repair wiring in existing buildings where the cable is concealed.”

(50) 338.10 Uses Permitted. (A) Service-Entrance Conductors. Deleted in its entirety.

(51) 338.12 (A) (4) shall be added as follows:

338.12 Uses Not Permitted. (A) Service-Entrance Cable.

(4) In any building except in R-2, R-3, and R-4 structures (as defined by the International Building Code) not exceeding three floors above grade.

(52) 338.12 (B) (4) shall be added as follows:

338.12 Uses Not Permitted. (B) Underground Service-Entrance Cable.

(4) In any building except in R-2, R-3, and R-4 structures (as defined by the International Building Code) not exceeding three floors above grade.

(53) Article 406.9 (C) shall be deleted and replaced as follows:

406.9 (C) Bathtub and Shower Space. Receptacles shall not be installed within or directly over a bathtub or shower stall.

(54) Article 408.54 shall be amended as follows:

Article 408.54 Maximum Number of Overcurrent Devices. A panelboard shall be provided with physical means to prevent the installation of more overcurrent devices than that number for which the panelboard was designed, rated, and listed. Newly installed panelboards shall not have more than 80% of the capacity for new circuits utilized.

(55) 410.10 (D) (3) shall be added as follows:

410.10 (D)(3) Recessed luminaires with screw-in type lampholders installed lower than 6' from the top of the bathtub rim or lower than 7'6" from the shower threshold must be GFCI protected.

(56) Article 410.36(B) shall be amended as follows:

410.36 Means of Support. (B) Suspended Ceilings. Framing members of suspended ceiling systems used to support luminaires shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaires smaller than 610 mm by 610 mm (24 inches by 24 inches) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets. Listed clips identified for the use with the type of ceiling framing member(s) and luminaire(s) shall also be permitted. Luminaires nominal size 610 mm by 610 mm (24 inches by 24 inches) or larger shall be supported independently of the ceiling grid by at least two wires on opposite corners of the fixture. The same size (or larger) wire used to support the ceiling system shall be used to support the fixture, but in no case shall the wire size be smaller than 12 AWG steel.

(57) Article 690.13 (E) shall be deleted and replaced as follows:

690.13 Photovoltaic System Disconnecting Means. (E) Type of Disconnect. The PV system disconnecting means shall simultaneously disconnect the PV system conductors that are not solidly grounded from all conductors of other wiring systems. The PV system disconnecting means or its remote operating device or the enclosure providing access to the disconnecting means shall be capable of being locked in accordance with **110.25**. The PV system disconnecting means shall be one of the following rated for 60 amperes or more:

(1) A manually operable switch or circuit breaker

(2) A load-break-rated pull-out switch with the required interrupting rating

(3) A power-operated or remote-controlled switch or circuit breaker that is manually operable locally and opens automatically when control power is interrupted

(4) and (5) deleted.

(58) 690.31 Wiring Methods (A) shall be deleted and replaced as follows:

690.31 (A) Wiring Systems. Only metal raceway methods of RMC, IMC, or EMT (and FMC in dry locations not subject to physical damage) shall be permitted. Wiring systems and fittings specifically listed for use in PV arrays, and wiring as part of a listed system shall be permitted within the array area. Where wiring devices with integral enclosures are used, sufficient length of cable shall be provided to facilitate replacement.

Exception: PVC shall be allowed for underground installations.

(59) Article 705.11 (D) shall amended as follows:

705.11 Supply-Side Source Connections. (D) Connections. The connection of power source output circuit conductors to the service conductors shall be made using listed connectors as described in **110.14** and comply with all enclosure fill requirements. Any modifications to existing equipment shall be made in accordance with the manufacturer's instructions or the modification must be evaluated for the application and have a field label applied. For meter socket enclosures or other equipment under the exclusive control of the electric utility, only connections approved by the electric utility shall be permitted. No more than one tap per conductor shall be allowed.

(60) Article 705.20 (1) shall be deleted and replaced as follows:

705.20 Disconnecting Means, Source. Means shall be provided to disconnect power source output circuit conductors of electric power production equipment from conductors of other systems.

The disconnecting means shall comply with the following:

(1) Be one of the following types rated for 60 amperes or more:

(a) A manually operable switch or circuit breaker

(b) A load-break-rated pull-out switch with the required interrupting rating

(c) A power-operated or remote-controlled switch or circuit breaker that is manually operable locally and opens automatically when control power is interrupted

(61) 705.25 Wiring Methods (A) General. shall be deleted and replaced as follows:

705.25(A) General. Only metal raceway methods of RMC, IMC, EMT (and FMC in dry locations not subject to physical damage) shall be permitted. Wiring systems and fittings specifically listed, intended and identified for use with power production systems shall be permitted within the array area. Where wiring devices with integral enclosures are used, sufficient length of cable shall be provided to facilitate replacement.

Exception: PVC shall be allowed for underground installations.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE IV. ENERGY CONSERVATION CODE

8-90. – ADOPTED

The *International Energy Conservation Code, Edition 2021"* as published by the International Code Council and adopted by the State of Illinois as the Illinois as the Illinois Energy Conservation Code, is hereby adopted by reference and set forth fully in this section as the Energy Conservation Code of the Village of Machesney Park and shall regulate and govern energy efficient building envelopes and installation of energy efficient mechanical, lighting and power systems as herein provided. A copy of the ICC International Building Code, Edition 2021 has been filed in the office of the Village Clerk for use and examination by the public.

8-91. – AMENDMENTS

The International Energy Conservation Code, Edition 2021, as adopted in Section 8-90, is hereby amended as follows:

(1) Section 101.1 shall be amended as follows:

101.1 Title. The 2021 Illinois Energy Conservation Code Commercial Provisions Chapter 1-6 and Residential Provisions Chapter 1-6, shall be known as the International Energy Conservation Code of the Village.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE V. – EXISTING STRUCTURE CODE

Sec. 8-111. – Adopted

The International Existing Building Code, Edition 2021, as published by the International Code Council is hereby adopted by reference and set forth fully in this section as the existing building code of the village and shall regulate and govern the repair, alteration change of occupancy, addition, and relocation of existing buildings, including historic buildings as herein provided. A copy of the ICC International Existing Building Code, Edition 2021, has been filed in the office of the village clerk for use and examination by the public.

Sec. 8-112. – Amendments

The ICC International Existing Building Code, Edition 2021, as adopted in section 8-111, is hereby amended as follows:

(1) Section 101.1 shall be revised as follows

101.1 Title. These regulations shall be known as the Existing Building Code of the Village of Machesney Park

Park, hereinafter referred to as "this code".

(2) Section 410 is deleted in its entirety and replaced with the following:

SECTION 306

ACCESSIBILITY FOR EXISTING BUILDINGS

306.1 Scope. The provisions of Sections 306.1 and 306.2 apply to maintenance and repair, change of occupancy, additions and alterations to existing buildings, including those identified as historic buildings.

306.2 Buildings and facilities shall be designed and constructed to be accessible in accordance with the applicable provisions of the current Illinois Accessibility Code.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE VI. – FIRE CODE

Sec. 8-138. – Adopted.

The International Fire Code, Edition 2021, as published by the International Code Council, including Appendices B, C, D, F and H, and the National Fire Protection Association's National Fire Code, is hereby adopted by reference and set forth fully in this section as the fire code of the Village and shall regulate and govern the safeguarding of life and property from fire and explosion hazards arising from the storage, handling, and use of hazardous substances, materials and devices, and from condition hazardous to life or property in the occupancy of buildings and premises as provided herein. A copy of the ICC International Fire Code, Edition 2021, has been filed in the office of the Village Clerk for use and examination by the public.

Sec. 8-139. – Amendments.

(a) The international Fire Code, Edition 2021, as adopted in section 8-138, is hereby amended as follows:

(1) Section 101.1 is amended as follows:

101.1 Title. These regulations shall be known as the *Fire Code* of the Village, hereinafter referred to as such or as "this code".

(2) Section 105.1.1.1 is added as follows:

105.1.1.1. Operational permit fee. The permit fees for an operational permit in accordance with section 105.6 shall equal one percent (1%) of the operation, with a minimum fee of $25.00 and a maximum fee of $500.00 per operation. Flammable and combustible liquid tanks will be $100.00 per tank.

(3) Section 107.4 is added as follows:

107.4 Work commencing before permit issuance. When a permit is required by this code, and any operation or work is started or proceeded with, prior to obtaining said permit, the fees established in Section 105.1.1.1 shall be doubled and not less than $250.00. This penalty may be waived by the Community Development Department Head or the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees established in Section 105.1.1.1 shall be doubled and not less than $500.00 plus an additional fee of $500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees established in Section 105.1.1.1 shall be tripled and not less than $750.00 plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender shall be prosecuted by the Village's Legal Department as permitted by state law. The payment of such fees shall not relieve any person

from complying with the requirements of this code and the execution of the operation or work, nor from any penalties prescribed herein.

(4) Section 112.2.1 is added as follows:

112.2.1 Debris as nuisance. Debris remaining at the scene of a fire after the site has been released by the fire department shall constitute a nuisance. The property owner shall be notified of said nuisance and, if not rectified to standards established by the fire inspectors, said debris shall be removed by the village or its duly authorized agent. Costs for removal shall become a lien against the property or may include other actions permitted by law.

(5) Section 202 is amended by adding the following definitions:

Section 202 GENERAL DEFINITIONS
High rise building. For the provisions of this code, a high -rise is defined as any building having occupied floors more than 65 feet above the lowest level of fire department vehicle access.
Structure**.** That which is built or constructed or portion thereof. This shall include all buildings, but shall not include any other structures which are within a public right-of-way.

(6) Section 202 is amended as follows:

OCCUPANCY CLASSIFICATION. For the purposes of this code, certain occupancies are defined as follows:
Assembly Group A is amended by deleting and replacing as follows:

> **Assembly Group A.** Group A occupancy includes, among others, the use of a building or structure, or a portion thereof, for the gathering together of persons for purposes such as civic, social or religious functions, recreations, food or drink consumption or awaiting transportation.
> A room or space used for assembly purposes by less than 50 persons and 750 square feet or less shall be included as a part of that occupancy.

Assembly occupancies shall include the following:

(The remainder of this definition remains unchanged.)

(7) Section 307.1.1 is deleted and replaced as follows:

307.1.1 Prohibited open burning. Open burning shall be prohibited.

> **Exceptions:** Where approved by the local jurisdiction.

(8) Section 307.1.2 is added as follows:

307.1.2 Materials. Fuel for all recreational fires and bonfires shall consist only of seasoned dry firewood and other material approved by the applicable Fire Protection District Official in conjunction with the Village's local Ordinances. The fire shall be ignited with a small quantity of paper. The fire shall not be utilized for waste disposal purposes, and the fuel shall be chosen to minimize the generation of air contaminants.

(9) Section 307.4.1.1 is added as follows:

307.4.1.1 Permit. All permits, required by section 105.6.31, shall be requested by and issued to the owner of the land upon which the bonfire is to be kindled.

(10) Section 505.3 is added as follows:

505.3 Strip malls. When a strip mall has multiple tenant spaces and a dedicated sprinkler control/fire alarm room, the room shall have its own street address.

Section 507.2.3 shall be added as follows:

507.2.3 Combination fire and domestic water service lateral installation.

(1) All newly constructed combination fire and domestic water service lateral connections to the public water system shall be constructed to comply with the current Illinois Plumbing Code, NFPA 13, and comply with standards set forth by the Illinois Department of Public Health for public water supplies.

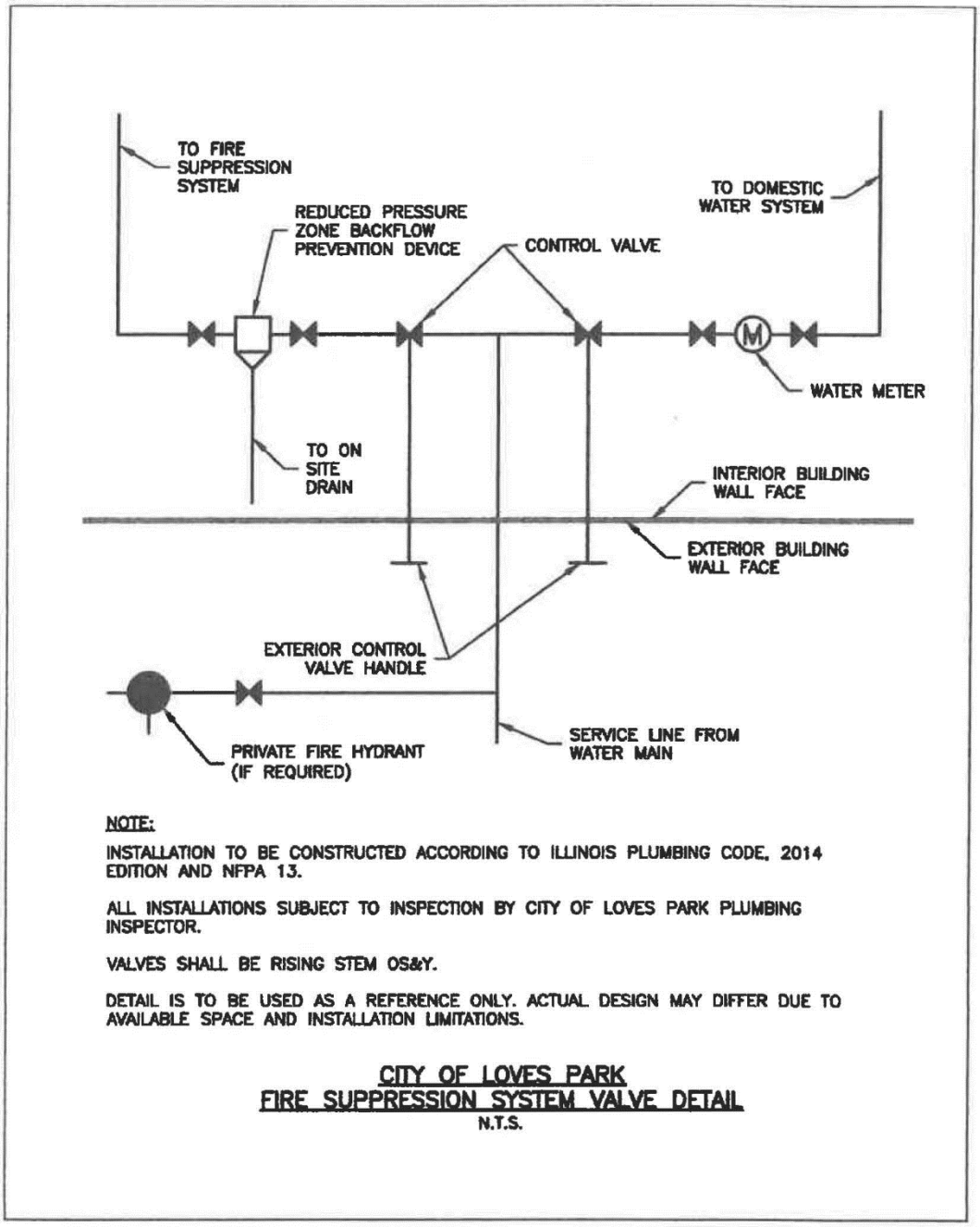
(2) Should a newly constructed structure require fire suppression in addition to domestic water service, the service lateral shall be a combination fire and domestic service line designed for compliance with current Illinois Plumbing Code, NFPA 13, and Illinois Department of Public Health standards.

(3) Should an existing building require installation of a fire service lateral, the domestic water service line shall be installed on the fire service line no further than 12 inches from the fire service control valve on the interior of the structure being served. Should modifications requiring a plumbing permit be made to an existing building with separate fire and domestic water services that is not in compliance with current Illinois Plumbing Code, NFPA 13, and Illinois Department of Public Health standards, the service shall be upgraded to meet minimum standards.

(4) Where buildings have a combination fire and domestic water service, exterior control valves shall be mounted on the building and easily located with appropriate signage and coloring notating what service the valves control.

(5) All plans and specifications for the installation of a combination fire and domestic water service system shall be submitted to the village for approval prior to installation.

(6) Exterior control valves for buildings requiring a combination fire and domestic water service shall be rising stem OS&Y NIBCO control valves or approved equal with written authority from the water superintendent. See fire suppression system valve detail below.



(11) Section 901.4.2.1 is added as follows:

901.4.2.1 Discontinuance of use. All non-required fire protection systems shall be approved for discontinuance upon written approval of both the fire code official and the building code official after inspection of the premises and system.

(12) Section 903.2.11.1 number 3. is added as follows:

903.2.11.1 Stories without openings.

3. An interior stairway that conforms to requirements of Section 1005 with a fire separation assembly enclosure of not less than 1 hour, which has a door directly to the exterior and the stairway does not connect more than 2 stories. The basement or windowless story floor level shall be 15 feet (4572 mm) or less vertically from the exterior door threshold level and the door threshold shall be within 10 feet (3048 mm) of grade. Interior stair doors or openings shall be provided in each 50 linear feet (15240 mm) or fraction thereof on at least one side of the basement or windowless story.

(13) Section 903.3.9 is added as follows:

903.3.9 Interior control valves. The fire code official may require interior control valves to be installed to isolate occupancies that share a fire suppression system. Where valves are installed in a system, valves shall be supervised or locked in the "open" position.

(14) Section 903.3.10 is added as follows:

903.3.10 Exterior Control valves. All exterior fire suppression control valves shall have an exterior Indicator Valve (PIV or WPIV) provided in a location approved by the fire code official. Valves shall be locked in the "open position".

(15) 903.4.2.1 is added as follows:

903.4.2.1 Strip malls. Strip malls shall provide individual tenant space notification to comply with IFC 907.1.

(16) 907.1.2.1 is added as follows:

907.1.2.1 Qualifications. Shop drawings for fire alarm systems shall be prepared by one of the following:

(1) An Illinois licensed Professional Engineer with formal training in fire alarm layout/design.

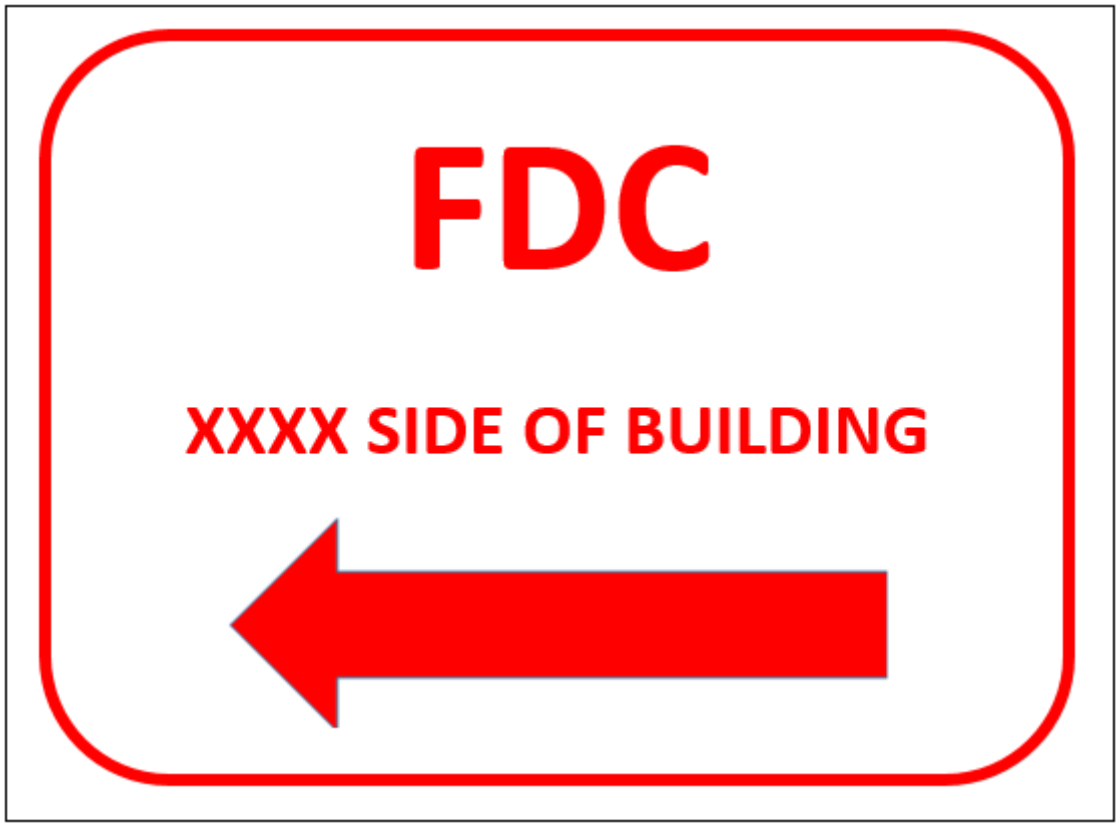
(2) A holder of a valid NICET level III or higher certification in Fire Alarm System Layout, who is either employed by or hired by the fire alarm installation contractor.

(17) Section 907.1.4 is added as follows:

907.1.4 Strip malls. Fire alarm systems shall be capable of identifying a fire alarm device activation or waterflow device activation in each tenant space. An audio/visual device shall be provided at the front entrance to each tenant space to identify the location of an activated device(s).

(18) Section 912.2.2 is amended as follows:

912.2.2 Existing buildings. On existing buildings, wherever the fire department connection is not visible to approaching fire apparatus, the fire department connection shall be indicated by an *approved* sign mounted on the street front or on the side of the building. **Such sign shall be reflective and constructed of material designed to resist weathering. The sign shall have a white background with all lettering and graphics red in color.** Such sign shall have the letters "FDC" not less than 6 inches (152 mm) high and words in letters not less than 2 inches (51 mm) high or an arrow to indicate the location **not less than 3 inches (75 mm) high**. Such signs shall be subject to the approval of the fire code official.



(19) Section 912.6 is deleted and replaced as follows:

912.6 Backflow protection. A water supply serving a fire suppression system shall be protected against backflow with a Reduced Pressure Zone (RPZ) backflow device and comply with the requirements of *Illinois Plumbing Code.*

(20) Section 1008.3.3 Rooms and Spaces is amended as follows:

1008.3.3 Rooms and Spaces. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

1. Electrical equipment rooms
2. Fire command centers
3. Fire pump rooms
4. Generator rooms
5. All bathrooms

(21) Sections 1205.2.1.1 through 1205.2.1.3 are added as follows:

1205.2.1.1 Roof access points. Roof access points shall be located in areas that do not require the placement of ground ladders over openings such as windows or doors, and located at strong points of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires or signs.

1205.2.1.2 Hip roof layouts. Panels and modules installed on *dwellings* with hip roof layouts shall be located in a manner that provides a clear access pathway not less than 3 feet (914 mm) in width from the eave to the ridge on each roof slope where panels and modules are located. The access pathway shall be located at a structurally strong location on the building capable of supporting the live load of fire fighters accessing the roof.

1025.2.1.3 Single ridge roofs. Panels and modules installed on *dwellings* with a single ridge shall be located in a manner that provides two, 3-foot-wide (914 mm) access pathways from the eave to the ridge on each roof slope where panels or modules are located.

1205.2.1.4 Roofs with hips and valleys. Panels and modules installed on *dwellings* with roof hips or valleys shall not be located less than 18 inches (457 mm) from a hip or valley where panels or modules are to be placed on both sides of a hip or valley. Where panels are to be located on one side only of a hip or valley that is of equal length, the 18-inch (457 mm) clearance does not apply.

1205.2.1.5 Allowance for smoke ventilation operations.
Panels and modules installed on dwellings shall not be located less than 3 feet (914 mm) below the roof ridge to allow for fire department smoke ventilation operations.

(22) Section 5608.1 is amended as follows:

5608.1 General. Outdoor fireworks displays, use of pyrotechnics before a *proximate audience* and pyrotechnic special effects in motion picture, television, theatrical and group entertainments productions shall comply with Section 5608.2 through 5608.10 and NFPA 1123, 1126 and all requirements of the Illinois Office of the State Fire Marshal (OSFM).

(23) Appendix B "Fire-Flow Requirements for Buildings" is added as part of this Code.

(24) Appendix C "Fire Hydrant Locations and Distribution" is added as part of this Code.

(25) Appendix D "Fire Apparatus Roads" is added as part of this Code.

(26) Appendix F "Hazard Ranking" is added as part of this Code.

(27) Appendix H "Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) Instructions" is added as part of this Code.

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CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE VII. – FUEL GAS CODE

Sec. 8-162. – Adopted

The International Fuel Gas Code, 2021 edition, including Appendix A, B, C, and D, as published by the International Code Council, be and is hereby adopted by reference and set forth fully in this section as the Fuel Gas Code of the Village and shall regulate and govern fuel gas systems and gas-fires appliances as herein provided. A copy of the ICC International Fuel Gas Code, Edition 2021, has been filed in the office of the Village Clerk for use and examination by the public.

Sec. 8-163. – Amendments

The ICC International Fuel Gas Code, Edition 2021, as adopted in section 8-162, is hereby amended as follows:

(1) Section 101.1 shall be amended as follows:

101.1 Title. These regulations shall be known as the *Fuel Gas Code* of the Village of Machesney Park, hereinafter referred to as "this code".

(2) Section 106.5.1 shall be deleted and replaced as follows:

106.5.1 Work commencing before permit issuance. When a permit is required by this code, and work is started or proceeded with, prior to obtaining said permit, the fees may be doubled and not less than $250.00. This penalty may be waived by the Community Development Department Head or the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees may be doubled and not less than $500.00 plus an additional fee of $500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees may be tripled and not less than $750.00 plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender may be prosecuted by Village of Machesney Park Legal Department as permitted by state law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

(3) Section 106.4.7 is added as follows:

106.4.7 Posting Permit. The permit holder shall post the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a re-inspection fee when the permit is not posted.

(4) Section 304.1 shall be added as follows:

304.1 General. Air for *combustion*, *ventilation* and dilution of *flue gases* for *appliances* installed in buildings shall be provided by application of one of the methods prescribed in Sections 304.5 through 304.9. Where the requirements of Section 304.5 are not met, outdoor air shall be introduced in accordance with one of the methods prescribed in Sections 304.6 through 304.9. Furnaces using combustion air provided through an intake vent using piping shall be terminated outside using Section 304.6.1 or 304.6.2. *Direct-vent appliances*, gas *appliances* of other than *natural draft* design, vented gas *appliances* not designated as Category I and appliances equipped with power burners, shall be provided with *combustion*, ventilation and *dilution air* in accordance with the *appliance* manufacturer's instructions.

> **Exception:** *Type 1 clothes dryers* that are provided with *makeup air* in accordance with Section 614.6.

(5) Section 402.7 is deleted and replaced as follows:

402.7 Maximum Design Operating Pressure. The maximum design operating pressure for piping systems greater than 1 pound per square inch gauge (psig) (34kPa gauge) shall be welded.

(6) Section 403.9.5 (1.) is amended as follows:

1. Threaded fittings in sizes larger than 2 inches shall not be used.

(7) Section 403.9.5 (10.) shall be added as follows:

10. Press-fit or slip-type fitting. The use of press-fit or slip-type fittings is expressly prohibited for use on flammable gas or liquid flammable gas systems.

(8) Section 404.2.1 is added as follows:

404.2.1 Prohibited use. Corrugated stainless steel tubing (CSST) shall not be installed outdoors.

(9) Section 404.3 shall be amended as follows:

404.3 Prohibited locations. Piping shall not be installed in or through a ducted supply, return or exhaust, or a clothes chute, chimney or gas vent, dumbwaiter or elevator shaft. Piping installed downstream of the point of delivery shall not extend through any townhouse or residential unit other than the unit served by such piping.

(10) Section 404.3.1 is added as follows:

404.3.1 Prohibited Use Underground. Corrugated stainless steel tubing (CSST) shall not be used underground.

(11) Section 404.9 is amended as follows:

404.9 Above-ground outdoor piping. Piping installed outdoors shall be elevated not less than 3 1/2 inches (89 mm) above ground and where installed across roof surfaces, shall be elevated not

less than 3 1/2 inches (89 mm) above the roof surface. Piping installed above ground, outdoors, and installed across the surface of roofs shall be securely supported and located where it will be protected from physical damage. The piping shall be protected against corrosion by coating or wrapping with an inert material. All exposed piping downstream of meter must be cleaned, and exposed pipe sealant removed, before completely coating or wrapping the pipe. Where piping is encased in a protective pipe sleeve, the annular space between the piping and the sleeve shall be sealed. Paint and application method shall be approved by the code official. Gas piping installed on roof surfaces on commercial or industrial locations shall be painted yellow.

(12) 404.12 shall be added as follows:

404.12 Minimum burial depth. Underground fuel gas piping systems shall be installed a minimum depth of 12 inches (305 mm) below grade. (Remainder deleted)

(13) 404.13.1 shall be added as follows:

404.13.1 Different Systems in Common Trench. When a fuel gas piping system shares a trench with an electrical system over 50V, a distance of 12" from the electrical system must be maintained either horizontally or vertically. If separated vertically, the fuel gas system must be below the electrical system.

(14) Section 409.4.1 is amended as follows:

409.4.1 Service Valves. Service valves installed within 24" (61 cm) of the regulator, shall have no more than three screwed connections.

(15) Section 503.5.5 - 4 is replaced as follows:

4. For sizing a chimney venting system connected to appliances using mechanical draft, the effective area of the chimney flue shall not be greater than two sizes over the effective area required for the appliances.

(16) Appendix A "SIZING AND CAPACITIES OF GAS PIPING" is added as part of this Code

(17) Appendix B "SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS (IFGS)" is added as part of this Code.

(18) Appendix C "EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS (IFGS)"is added as part of this Code.

(19) Appendix D "RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION (IFGS)"is added as part of this Code.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE VIII. – LIFE SAFETY CODE

Sec. 8-195. – Adopted

The NFPA 101, Life Safety Code, 2021 edition, as published by the National Fire Protection Association is hereby adopted by reference an set forth fully in this section as the Life Safety Code of the Village and shall regulate and govern the conditions and maintenance of all property, buildings, and structures, by providing minimum requirements, with due regard to function, for the design, operation, and maintenance of buildings and structures necessary to minimize danger to life from the effects of fire. A copy of the NFPA 101 Life Safety Code, Edition 2021, has been filed in the office of the Village Clerk for use and examination by the public.

Sec. 8-196. – Amendments

The International Fire Code, Edition 2021, as adopted in section 8-195, is hereby amended as follows:

(1) Section 1.1.1 as amended as follows:

1.1.1 Title. NFPA 101, Life Safety Code, shall be known as the *Life Safety Code* of the Village, is cited as such and shall be referred to herein as "this code" or "the code."

(2) Section 6.1.8.1.1, amended as follows:

6.1.8.1.1 Definition.

One- and two-family dwelling unit. A building that contains not more than two dwelling units with independent cooking and bathroom facilities. However, when units are combined as separate structures, sharing a common firewall or fire barrier, they shall be considered as an apartment building as it pertains to NFPA 101 Life Safety Code.

(3) Section 6.1.8.1.5, amended as follows:

6.1.8.1.5 Definition

Apartment building. A building or portion thereof containing three or more dwelling units with independent cooking and bathroom facilities. Or when there are combined dwelling units as described in revised section 6.1.8.1.1, sharing a common firewall or fire barrier, they shall be considered as an apartment building as it pertains to NFPA 101 Life Safety Code.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE IX. – MECHANICAL CODE

Sec. 8-216. – Adopted

The International Mechanical Code, 2021 edition, including Appendix Chapter A, as published by the International Code Council, is hereby adopted by reference, and set forth fully in this section, as the Mechanical Code of the Village. A copy of the ICC International Mechanical Code, Edition 2021 has been filed in the office of the Village Clerk for use and examination by the public.

Sec. 8-217. – Amendments

The ICC International Mechanical Code, Edition 2021, as adopted by section 8-216, is hereby amended as follows:

(1) Section 101.1 is amended as follows:

101.1 Title. These regulations shall be known as the *Mechanical Code* of the Village, hereinafter referred as the Mechanical Code, or "this code."

(2) Section 106.1.1 is added as follows:

106.1.1 Permits required. Mechanical work shall not be commenced until the code official has issued a permit for such work. A mechanical permit shall not be transferable. All work shall be performed and completed by permit holder.

(3) Section 106.2 is amended by adding the following:

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

9. Service calls, normal maintenance, and replacement parts in an amount less than $500.00 (five hundred dollars).

(4) Section 106.5.1 is deleted and replaced as follows:

106.5.1 Work commencing before permit issuance. When a permit is required by this code, and work is started or proceeded with, prior to obtaining said permit, the fees may be doubled and not less than $250.00. This penalty may be waived by the Community Development Department Head of the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees shall be doubled and not less than $500.00 plus an additional fee of $500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees shall be tripled and not less than $750.00 plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender shall be prosecuted by Village's

Legal Department as permitted by state law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

(5) Section 106.5.2 Fee Schedule. is deleted in its entirety.

(6) Section 106.5.3 is deleted in its entirety.

(7) Section 106.6 is added as follow:

106.6 Posting Permit. The permit holder shall post the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a reinspection fee when the permit is not posted.

(8) Section 107.1 is amended as follows.

107.1 Required inspections and testing. The code official, upon notification from the permit holder or the permit holder's agent, may make the following inspections and other such inspections as necessary, and shall either release that portion of the construction or shall notify the permit holder or the permit holder's agent of violations that must be corrected. The holder of the permit shall be responsible for the scheduling of such inspections. Where the phrase "shall be made" or "shall require" is used in this section, it shall mean "may be made" or "may be required".

(The remainder of this section is unchanged.)

(9) Section 107.2.3 is amended as follows:

107.2.3 Re-inspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary correction shall be made so as to achieve compliance with this code. The contractor shall then request that the work or installation be re-inspected or retested. The permit holder may be subject to a re-inspection fee.

(10) Section 108.4 is amended as follows:

108.4 Violation penalties. Persons who shall violate a provision of this code or who shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical equipment or systems in violation of an approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be punishable by a fine of not more than $500.00 dollars. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

(11) Section 108.5 is amended as follows:

108.5 Stop work orders. Upon notice from the code official that mechanical work is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be in writing and shall state the conditions under which work is authorized to resume. Where

an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work on the system after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable for a fine of not more than $500.00 dollars.

(12) Section 109.2 is deleted and replaced as follows:

109.2 Membership of board. The board of appeals shall consist of seven members appointed by the chief appointing authority as follows: two (2) for five (5) years; two (2) for four (4) years; one (1) for three (3) years; one (1) for two (2) years; and one (1) for one (1) year. Thereafter, each new member shall serve for five (5) years or until a successor has been appointed.

(13) Section 109.2.1 is deleted and replaced as follows:

109.2.1 Qualifications. The members of the board shall consist of one registered Professional Engineer, one licensed plumbing contractor, one license holder for hydronic heating-cooling, one license holder for refrigeration, one license holder for warm-air heating-cooling and two representatives of the mechanical industry with at least ten years of experience in mechanical fields, five of which shall have been in responsible charge of work.

(14) Section 309.1 is amended as follows:

309.1 Space-heating systems. Interior spaces intended for human occupancy shall be provided with active heating systems capable of maintaining a minimum indoor temperature of 68°F (20°C) at a point 3 feet (914 mm) above floor on the design heating day. The installation of portable space heaters shall not be used to achieve compliance with this section.

Exception: Interior spaces where the primary purpose is not associated with human comfort.

(15) Section 401.2 shall be added as follows:

401.2 Ventilation required. Every occupied space shall be ventilated by mechanical means in accordance with Section 403. Natural ventilation in compliance with Section 402 shall not be prohibited once compliance with all the requirements for mechanical ventilation have first been satisfied. Dwelling units complying with the air leakage requirements of the International Energy Conservation Code or ASHRAE 90.1 shall be ventilated by mechanical means in accordance with Section 403. Ambulatory care facilities and Group I-2 occupancies shall be ventilated by mechanical means in accordance with Section 407.

(16) Section 508.1 is amended as follows:

508.1 Makeup air. *Makeup air* shall be supplied during the operation of commercial kitchen exhaust systems that are provided for *commercial cooking appliances.* The amount of *makeup air* supplied to the building from all sources shall be approximately equal to the amount of *exhaust air* for all exhaust systems for the building. The *makeup air* shall not reduce the effectiveness of the

exhaust system. *Makeup air* shall be provided by mechanical means. Mechanical *makeup air* systems shall be automatically controlled to start and operate simultaneously with the exhaust system. *Makeup air* intake opening locations shall comply with Section 401.4.

(17) Section 603.6.1.1 is amended as follows:

603.6.1.1 Duct length. Flexible air ducts shall be limited in length to 8 feet overall from termination point and contain no more than the equivalent of one 90 degree turn with no offset greater than 45 degrees. All flexible air ducts shall be of the insulated type. Flexible ducts shall only be used for branches.

(18) Section 603.6.2.1 is added as follows:

603.6.2.1 Connector length. Flexible air connectors shall be limited in length to 8 feet overall from termination point and contain no more than the equivalent of one 90 degree turn with no offset greater than 45 degrees. All flexible air connectors shall be of the insulated type. Flexible ducts shall only be used for branches.

(19) Section 801.2.2 is added as follows:

801.2.2 PVC/CPVC exhaust and combustion air piping for a fuel-burning appliance shall be identified with blaze orange high visibility labels or tape a minimum of 3 ½" wide. The label or tape shall be adhered around the entire circumference of the pipe, spaced no further than 36" apart, so as to distinguish it from plumbing or other piping. It must be marked legibly with a black fine point permanent marker indicating what is being conveyed.

(20) Section 918.1.1 is added as follows:

918.1.1 Isolation pads. Isolation pads shall be required to be installed under a furnace.

(21) Section 918.7 is added as follows:

918.7 Furnace cement or welding. The use of furnace cement or welding for the repair of furnace heat exchangers is prohibited.

(22) Section 929 is added as follows:

SECTION 929
UNVENTED ROOM HEATERS

929.1 General. Unvented room heaters and/or fireplaces are prohibited

(23) Section 1002.1.1 is added as follows:

1002.1.1 Installation. Water heaters greater than 5 gallons shall be not be elevated more than 18" above the floor. When elevated, the appliance shall be secured in an approved manner. All water heaters, including electric, shall be readily accessible for service and maintenance. Installation must comply with manufacturer's instructions.

(24) Section 1002.1.2 is added as follows:

1002.1.2 Water heaters installed where flammable vapors may be present. Water heaters having an ignition source shall be elevated such that the source of ignition is not less than 18 inches (457 mm) from the floor, but not more than 24 inches above the floor. Water heater must be protected from physical damage.

Exception: Elevation of the ignition source is not required for appliances that are listed as flammable vapor ignition-resistant.

(24) Section 1002.4 is added as follows:

1002.4 Mark thermal expansion tank, when installed, with permanent marker to indicate building water pressure and the tank air charge pressure.

(25) Appendix A "Chimney Connector Pass-Throughs" is added as part of this Code.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE X. – PERFORMANCE CODE FOR BUILDINGS AND FACILITIES

Sec. 8-243. – Adopted

The Performance Code for Buildings and Facilities, 2021 edition, including Appendix Chapters A, B, C, D, and E, as published by the International Code Council, be and is hereby adopted as the *Performance Code* for buildings and facilities of the Village and shall regulate and govern the performance-based design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of buildings and/or fire protection systems as herein provided. A copy of the ICC Performance Code for Buildings and Facilities, Edition 2021, has been filed in the Office of the Village Clerk for use and examination by the public.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE XI. – PLUMBING CODE

Sec. 8-265. – Adopted

The State of Illinois Plumbing Code; as established and adopted by the Illinois Department of Public Health and the Four Rivers District Code of Ordinances, and the 2021 International Plumbing Code be and are hereby adopted as the *Plumbing Code* of the Village. A copy of the Illinois State Plumbing Code has been filed in the Office of the Village Clerk for use and examination by the public.

Sec. 8-266. – Amendments

The Illinois State Plumbing Code 2021, as adopted in section 8-266, is hereby amended as follows:

(1) Section 890.120 is amended as follows:

Section 890.120 Definitions

"Quick Closing Valves": A valve or faucet that closes automatically when released, one that has fast action closing, or one that closes with (1/2) one half turn or less.

(2) Section 890.180 is amended by adding a) 1) and a) 2) as follows:

Section 890.180 Sewer and Water Pipe Installations

a)
1) Sewer trenching and/or tunneling not to exceed ten feet (10') total distance.
2) Ditches shall be left accessible for inspection of sewer and/or water piping.

(3) Section 890.420 is amended by as follows:

Section 890.420 Pipe Cleanouts

a) Location of Cleanouts within a Building Drain <u>or Building Sewer.</u>

1) Cleanouts shall be not more than 50 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines of four (4) inches or less size. Cleanouts shall be not more than 100 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines of over four (4) inches to ten (10) inches in size. Cleanouts shall not be more than 150 feet apart, including the developed length of the cleanout pipe, in horizontal drainage lines exceeding ten (10) inches in size. For underground drainage lines exceeding ten (10) inches in size, manholes instead of cleanouts shall be provided and shall be located at intervals of not more than 150 feet.

(4) Section 890.510 is amended by adding a) 7) as follows:

Section 890.510 Grease Interceptor Requirements
(a) (7) All new or altered installations serving institutions or commercial establishments in which grease, fats, culinary oil, or similar waste products from kitchens or food processing areas, or in

which grease, fats, or culinary oils are wasted in connection with utensil, vat, dish, or floor cleaning processes shall install grease interceptors. All waste lines and drains carrying culinary oil, grease, or fats in the above type establishments shall be directed to one or more interceptors before connecting to the plumbing system. If interceptors are located outside the building, they shall be accessible for maintenance purposes within ten (10) feet of the building. Verify conditions for permit(s) and plan(s) required by the sanitation authority.

(5) Section 890.660 c) is added as follows:

c) Trough and floor mounted stall-type urinals are prohibited.

(6) Section 890.750 is amended by adding c), d), and e) as follows:

Section 890.750 Hydro Massage/Whirlpool Bathtubs

c) Manufacturer's instructions. The product shall be installed in accordance with the manufacturer's installation instructions.

d) Access to pump. Access shall be provided to circulation pumps in accordance with the fixture or pump manufacturer's instructions. Where the manufacturer's instructions do not specify the location and minimum size of field-fabricated access openings, and where pumps are located more than 2 feet (609mm) from the access opening, an 18-inch by 18-inch (457mm by 457mm) minimum sized opening shall be installed. A door or panel shall be permitted to close the opening. In all cases, the access opening shall be unobstructed and the size necessary to permit the removal and replacement of the circulation pump.

e) Leak testing. Leak testing and pump operation shall be performed in accordance with the manufacturer's installation instructions.

(7) Section 890.1175 shall be added as follows:

Section 890.1175 Water Service Abandonments

A) Any water service that is no longer going to be utilized by a property shall be abandoned at the main by the owner and/or developer. Abandonment requirements shall be size dependent and will either be abandoned by using a solid sleeve, corporation sleeve, or removing and replacing a section of water main. All abandonment requirements shall be reviewed and approved by the Water Superintendent or their designee.

B) Any building demolitions that leave a service to a vacant lot shall be abandoned at the main by the owner and/or developer. Abandonment requirements shall be size dependent and will either be abandoned by using a solid sleeve, corporation sleeve, or removing and replacing a section of water main. All abandonment requirements shall be reviewed and approved by the Water Superintendent or their designee.

All abandonments must be permitted and inspected by the North Park Public Water District (NPPWD).

(8) Section 890.1200 is amended by adding a) 1) as follows:

Section 890.1200 Water Service Sizing

a)

1) In existing structures which have a ¾" (1.905cm) water service and the service is being replaced, ¾" pipe may be used provided that the building's water supply fixture unit count (WSFU) does not exceed **890.APPENDIX A TABLE N** limits.

(9) Section 890.1210 is amended by adding j) as follows:

Section 890.1210 Design of a Building Water Distribution System

j) All new family dwellings shall have provisions made for soft water hookup, with three valves for bypass, except for outside lawn hydrants and cold water in kitchen sink with proper bypass. Connections and provisions shall be made of properly sized and vented trap within five feet (5') distance of water softener. Bypass connection for future use shall be capped. Exceptions must be requested in writing to the Board of Appeals and will be granted only after inspection has been conducted.

(10) Section 890.1430 is amended by adding d) as follows:

Section 890.1430 Stack Vents, Vent Stacks, Main Vents

d) Minimum Size of Stack Vent. Any structure in which a building drain is installed/repaired shall have each stack vent or vent stack carried full size to the roof and shall increase to a minimum of four (4) inches, 12 inches below the roof line and 12 inches above the roof line.

(11) Section 890.1902 is added as follows:

Section 890.1902 Work commencing before permit issuance. When a permit is required by this code, and work is started or proceeded with, prior to obtaining said permit, the fees may be doubled and not less than $250.00. This penalty may be waived by the Community Development Department Head or the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees established may be doubled and not less than $500.00 plus an additional fee of $500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees established may be tripled and not less than $750.00 plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender shall be prosecuted by the Village's Legal Department as permitted by state law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

(12) Section 890.1911 is added as follows:

Section 890.1911 Re-inspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary correction shall be made so as to achieve compliance with

this code. The contractor shall then request that the work or installation be re-inspected or retested. The permit holder may be subject to a re-inspection fee.

(13) Section 890.1940 a) and b) are added as follows:

Section 890.1940 General Administration

a) The code official of the jurisdiction shall enforce all of the provisions of the code and shall act on any questions relative to the installation, alterations, repair, maintenance or operation of all plumbing systems, devices and equipment except as otherwise specifically provided for by statutory requirements.

b) Rule-making authority. The code official shall have power as necessary in the interest of public health, safety and general welfare, to adopt and promulgate rules and regulations to interpret and implement the provisions of this code to secure the intent thereof and to designate requirements applicable because of local climatic or other conditions. Such rules shall not have the effect of waiving structural or fire performance requirements specifically provided for in this code, or of violating accepted engineering practice involving public safety.

(14) Section 890.1950 is amended by adding a) 3) as follows:

Section 890.1950 Violations

a) Notice of Violation

3) Violation-penalties: Any person who shall violate a provision of this code or who shall fail to comply with any of the requirements thereof, who shall erect, construct, alter, or repair plumbing equipment or systems in violation of an approval plan or directive of the building official or a permit or certificate issued under the provisions of this code, shall be guilty of a misdemeanor, punishable by a fine of no more than $500.00. Each day that a violation continues shall be deemed a separate offense.

(15) Section 890.1960 is added as follows:

Section 890.1960 Regulations for Permits, Inspections, Test, Maintenance and Administration

WORKMANSHIP: All work shall be conducted, installed and completed in a workmanlike and acceptable manner so as to secure the results intended by this code and the standards referenced herein.

REVOCATION: The Code Administrator may revoke a permit or approval issued under the provisions of this code in case of any false statement or misrepresentation of fact in the application or on the plans on which the permit or approval was based.

SUSPENSION OF PERMIT: Any permit issued shall become invalid if the authorized work is not commenced within six months after issuance of the permit, or if the authorized work is suspended or abandoned for a period of six months after the time of the commencing work.

TIME LIMIT: An application for a permit for any proposed work shall de deemed to have been abandoned six months after the date of filing, unless such application has been diligently prosecuted or a permit shall have been issued. For reasonable cause, the Code Administrator may grant one or more extensions of time for additional periods not exceeding 90 days each.

PERMIT FOR PLUMBING WORK REQUIRED.

a) PERMIT FEES. All permit fees for all plumbing work shall be as set forth the Village's Fee Schedule. The permit holder shall post all permits required on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a re-inspection fee when a permit is not posted.

b) STOP WORK ORDER-NOTICE. Upon notice from the Code Administrator that work on any building or structure is being prosecuted contrary to the provisions of this code or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent, or to the person doing the work. It shall state the conditions under which work may be resumed.

c) NOTICE OF APPROVAL. After the prescribed tests and final inspection indicate the work complies in all respects with this code, the Code Administrator shall issue a notice of approval.

d) UNSAFE CONDITIONS-GENERAL. All plumbing installations, regardless of type, which are unsanitary or which constitute a hazard to human life, health, or welfare are hereby declared illegal and shall be abated by repair and rehabilitation or removal.

e) EMERGENCY MEASURES-VACATING STRUCTURES. When, in the opinion of the Code Administrator, there is actual and immediate danger of contamination or sanitation hazard which would endanger life, the Code Administrator hereby is authorized and empowered to order and require the occupants to vacate a structure forthwith. The Code Administrator shall cause to be posed to at each entrance to such structure a notice reading as follows: "This Structure is Unsafe and its use or occupancy has been prohibited by the Code Administrator. It shall be unlawful for any person to enter such structure except for the purpose of making the required repairs or removal."

(16) Section 890. APPENDIX A - Plumbing Materials, Equipment, Use Restrictions and Applicable Standards is amended as follows:

Section 890. TABLE A-3 Approved Building Drainage/Vent Pipe.
1) Acrylonitrite Butadiene Styrene (ABS) Pipe shall not be permitted.

Section 890. TABLE A-6 Approved materials for Building Sewer
1) Acrylonitrite Butadiene Styrene (ABS) Pipe shall not be permitted.

Section 890. TABLE A-9 Approved Materials for Water Service Pipe.
1) Acrylonitrite Butadiene Styrene (ABS) Pipe shall not be permitted.
7) Galvanized Steel Pipe shall not be permitted.

(17) Section 890. APPENDIX A Plumbing Materials, Equipment, Use Restrictions and Applicable Standards TABLE B is amended as follows:

Section 890. TABLE B-2 Minimum Number of Plumbing Fixtures, column labeled
"All Facilities for Employee Use"
Other fixtures – 1 Service sink per floor

CHAPTER 8 BUILINGS AND BUILDING REGULATIONS

ARTICLE XII. – POOL AND SPA CODE

Sec. 8-296. – Adopted

The *International Swimming Pool and Spa Code*, 2021 edition, as published by the International Code Council, is hereby adopted by reference and set forth fully in this section as the Pool and Spa Code of the Village and shall regulate and govern the design, construction, alteration, movement, renovation, replacement, repair and maintenance of swimming pools, spas, hot tubs, aquatic facilities and related equipment as herein provided. A copy of the ICC International Swimming Pool and Spa Code, Edition 2021, has been filed in the office of the Village Clerk for use and examination by the public.

Sec. 8-297. – Amendments

The International Swimming Pool and Spa Code, Edition 2021, as adopted in section 8-296, is hereby amended as follows:

(1) Section 101.1 shall be amended as follows:

101.1 Title. These regulations shall be known as the *International Swimming Pool and Spa Code* of the Village of Machesney Park, hereinafter referred to as “this code”.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS

ARTICLE XIII. – PROPERTY MAINTENANCE CODE

Sec. 8-328. – Adopted

The *International Property Maintenance Code*, 2021 edition, as published by the International Code Council, is herby adopted by reference and set forth fully in this section a the property maintenance code of the Village and shall regulate and govern the conditions and maintenance of all property, buildings, and structures by providing the standards for supplied utilities and facilities and other physical things and conditions essential to ensure that structures are safe, sanitary and fit for occupation and use; and the condemnation of buildings and structures unfit for human occupancy and use, the demolition of such existing structures as herein provided. A copy of the ICC International Property Maintenance Code, Edition 2021, has been filed in the Office of the Village Clerk for use and examination by the public.

Sec. 8-329. – Amendments

The ICC International Property Maintenance Code, Edition 2021, as adopted in section 8-328, is hereby amended as follows:

(1) Section 101.1 is amended as follows:

101.1 Title. These regulations shall be known as the *International Property Maintenance Code* of the Village, hereinafter referred to as "this code".

(2) Section 109.1 is deleted and replaced as follows:

112.1 Imminent danger. When, in the opinion of the code official, there is imminent danger of failure or collapse of a building or structure which endangers life, or when any structure or part of a structure has fallen and life is endangered by the occupation of the structure, or when there is actual or potential danger to the building occupants or those in the proximity of any structure because of explosives, explosive fumes or vapors or the presence of toxic fumes, gases or materials, or operation of defective or dangerous equipment or when the structure is unfit for human habitation, the code official is hereby authorized and empowered to order and require the occupants to vacate the premises forthwith. The code official shall cause to be posted at the primary entrance to such structure a notice of condemnation. It shall be unlawful for any person to enter such structure except for the purpose of securing the structure, making the required repairs, removing the hazardous condition or of demolishing the same.

(3) Section 202 is amended as follows:

Add the Following Definition:

DEBRIS. Materials which are placed outside in a haphazard manner, which may create rodent and pest harborage, or items which are not intended or customarily stored outdoors and which if left exposed and unprotected from the elements have, or potentially will, deteriorate by reason of vandalism, moisture and exposure. Such materials can include rubbish and items which might otherwise be considered useable such as furniture, appliances, boards intended for interior use, cardboard boxes of items, clothing, dishes, machinery, and so forth.

(4) Section 302.1 is amended as follows:

302.1 Sanitation. All exterior property areas and premises shall be maintained in a clean, safe and sanitary condition free from any accumulation of garbage, debris and rubbish. The occupant shall keep that part of the exterior property that such occupant occupies or controls in a clean and sanitary condition. The Code Official may order the removal of garbage, debris and rubbish pursuant to Illinois Compiled Statutes 65 ILCS 5/11-20-13.

(5) Section 302.4 is deleted and replaced as follows:

302.4 Weeds. All premises and exterior property shall be maintained free from weeds or plant growth in excess of 7 inches (179 mm). All noxious weeds shall be prohibited. Weeds shall be defined as overgrowth, underbrush, all grasses, annual plants and vegetation. However, this term shall not include trees or shrubs or cultivated flowers and sand gardens. All weeds shall be removed pursuant to Illinois Compiled Statutes 65 ILCS 5/11-20-7 and Chapter 22, Article three of the Village of Machesney Park Code.

(6) Section 302.7 is amended as follows:

302.7 Accessory Structures. Accessory structures, including attached garages, detached garages, fences, walls and retaining walls, shall be maintained structurally sound and in good repair. All garages where a garage door was intended or installed must be provided with an approved and functioning garage door.

(7) Section 302.8 is deleted in its entirety and replaced as follows:

302.8 Motor Vehicles. Except as provided for in other regulations, no currently unregistered or inoperable motor vehicle shall be parked, kept or stored on any premises, with the exception of not more than one unregistered or inoperable vehicle stored within a totally enclosed permanent structure. No vehicle shall at any time be in a state of major disassembly, disrepair, or in the process of being stripped or dismantled. Painting of vehicles is prohibited unless conducted in an approved spray booth. In accordance with the procedures outlined in section 5/11-40-3 of the Illinois Municipal Code (65 ILCS 5/11-40-3) and section 5/4-201 of the Illinois Vehicle Code (625 ILCS 5/4-201) the abandonment of vehicles is prohibited on public or private property and the village is authorized to remove such abandoned or inoperable vehicles

Exception: Uses that are properly zoned for such storage.

(8) Section 302.10 is added as follows:

302.10 Cisterns. Pursuant to Illinois Compiled Statutes 65 ILCS 5/11-20-10, cisterns unused and abandoned shall be filled with clean fill earthen material and sealed with a non-removable cover as prescribed by the Code Official.

(9) Section 302.11 shall be added as follows:

(10) Section 304.3 is amended as follows:

304.3 Premises identification. Buildings shall have village assigned address numbers, building numbers, or approved building identification placed in a position that is plainly legible and visible from the street or road to which the building is addressed. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or English alphabet letters. Numbers shall be a minimum of four inches high when less than 100 feet from the street, with a minimum stroke width of 0.5 inch (12.7 mm). When over 100 feet and less than 200 feet from the street, the numbers shall be five inches (128 mm) high and a minimum stroke width 0.75 inch (19 mm). When over 200 feet from the street, the numbers shall be seven inches (179 mm) high and a minimum stroke width 0.75 inch (19 mm). Wherever the primary entry doors are visible from the address street, the numbers shall be displayed above, on or adjacent to the primary entry doors. Numbers shall be displayed where they remain visible at all times. Where a building is more than 500 feet from the street, displaying additional numbers on a building identification sign or other approved location near and viewable from the street is encouraged.

(11) Section 304.14 is amended as follows:

304.14 Insect Screens. During the period from April 1 to November 1 every door, window and other outside opening used, or structure required, for ventilation purposes serving any building containing habitable rooms, food preparation areas, food service areas, or any areas where products to be included or used in food for human consumption are processed, manufactured, packaged or stored, shall be supplied with approved tightly fitting screens of not less than 16 mesh per inch (16 mesh per 25 mm) and every swinging door or screen door used for insect control shall have a self-closing device in good working condition.

Exception: Screen doors shall not be required for out-swinging doors or other type of openings which make screening impractical, provided other approved means, such as air curtains or insect repellant fans are employed.

(12) Section 308.3.1 is amended as follows:

308.3.1 Garbage facilities. The owner or tenant of every dwelling shall supply one of the following; an approved mechanical food waste grinder in each dwelling unit; or an approved leak proof, covered, outside garbage container.

(13) Section 308.4 is added as follows:

308.4 Rubbish, Debris and Garbage on Parkways. No rubbish, debris or garbage shall be disposed of at any site other than those approved by the Village. Every property shall be required to be served, at the property owners' or tenants' expense, with refuse/garbage removal service through the village's approved refuse/garbage removal contractor.

(14) Section 404.3 Exceptions: 2. is amended as follows:

404.3 Minimum ceiling heights.

Exceptions:

2. Basement rooms in one- and two- family dwellings occupied exclusively for bathrooms, toilet rooms, laundry areas, study areas or recreation purposes, having a ceiling height of not less than 6 feet 8 inches (2033 mm) with not less than 6 feet 4 inches (1932 mm) of clear height under beams, girders, ducts and similar obstructions.

(15) Section 501.1 is amended as follows:

501.1 Scope. The provisions of this chapter and the current Illinois State Plumbing Code listed in Chapter 8 shall govern the minimum plumbing systems, facilities and plumbing fixtures to be provided.

(16) Section 601.1 is amended as follows:

601.1 Scope. The provisions of this chapter, the 2020 National Electrical Code, and the 2021 International Mechanical Code (all as amended) shall govern the minimum mechanical and electrical facilities and equipment to be provided.

(17) Section 602.3 shall be deleted and replaced as follows:

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 guest rooms on terms, either express or implied, to furnish heat to the occupants thereof shall supply sufficient heat during the period from October 1 to May 1 to maintain a room temperature of not less than 68°F / 20°C in all habitable rooms, bathrooms, and toilet rooms.

(18) Section 602.4 is amended as follows:

602.4 Occupiable work spaces. Indoor occupiable work spaces shall be supplied with heat during the period from October 1 to May 1 to maintain a temperature of not less than 65°F / 18°C during the period the spaces are occupied.

Exceptions:

1. Processing, storage and operation areas that require cooling or special temperature conditions.

2. Areas in which persons are primarily engaged in vigorous physical activities.

(19) Section 602.6 is added as follows:

602.6 Primary heat source. A fireplace or wood burning appliance shall not be allowed as the required primary heat source for a structure.

(20) Section 603.3 is amended as follows:

603.3 Clearances. All required clearances to combustible structural or finish materials shall be maintained. Clearances of 36 inches (914 mm) shall be maintained for all other combustibles such as stored materials.

(21) Section 603.7 is added as follows:

603.7 Flue. All fuel-burning equipment and appliances shall be connected to an approved chimney or vent. When a water heater is connected to a chimney or vent with a furnace, the water heater shall not be connected below the furnace vent connection.

Exception: Fuel-burning equipment and appliances, which are labeled for unvented operation.

(22) Section 604.1 is amended as follows:

604.1 Facilities required. Every occupied building shall be provided with an electrical system in compliance with the requirements of this section, Section 605 and local amendments.

(23) Section 604.2.1 shall be added as follows:

604.2.1 Minimum service requirements—one- and two-family dwelling. If Edison base fuses are in use in the existing panel(s), and there is evidence of over-fusing, the fuses must be replaced with fuse adapters of the "S" type, and "S" type fuses must be installed. When installing a new service in an existing single-family dwelling, or replacing or repairing any part of the existing service equipment, a minimum 3-wire 100 ampere 120/240 volt service shall be required to be installed, with a minimum panel size of 16 spaces. The entire service shall be brought up to all the current code standards adopted by Village of Machesney Park. **Exception:** Replacement or addition of a branch-circuit overcurrent protective device.

(24) Section 604.2.2 shall be added as follows:

604.2.2 Minimum service requirements—multi-family dwelling. For existing multi-family services no more than two 60 ampere main disconnects shall be allowed on a 100 ampere service, and no more than four 60 ampere main disconnects and one 30 ampere house main disconnect shall be allowed on a 200 ampere service. A panel designated for a specific unit shall serve no other units. If Edison base fuses are in use in the existing panel(s), and there is evidence of over-fusing, the fuses must be replaced with fuse adapters of the "S" type, and "S" type fuses must be installed. When replacing or installing any part of the electrical service in an existing multi-family dwelling, the entire service shall be brought up to all the current code standards adopted by Village. The minimum panel size allowed shall be 12 spaces if that number of spaces is adequate to serve the amount of required circuits in the apartment.

Exception: Replacement or addition of a branch-circuit overcurrent protective device.

(25) Section 604.2.3 shall be added as follows:

604.2.3 Main Disconnecting Means. Main disconnecting means and overcurrent protective devices shall be accessible to each tenant of a multi-family building. Overcurrent devices such as fuses or breakers shall be used to protect branch circuit conductors.

(26) Section 604.2.4 shall be added as follows:

604.2.4 Service grounding. The grounded conductor at the main disconnecting means shall be bonded to the main service metal water pipe within 5 feet (1524 mm) of the point of entry of the main water service pipe. A jumper shall be installed around the water meter.

(27) Section 605.1.1 shall be added as follows:

605.1.1 Electrical equipment, wiring, and appliances. No structure shall be deemed to comply with the requirements of this article relating to electrical equipment, wiring, and appliances unless:

(a) Exposed wire. Any exposed knob-and-tube wire has insulation that is in good condition and is properly protected as required by NEC Article 394.

(b) Short circuit. No short circuit or break exists in any electrical conductor.

(c) Shock hazard. No obvious shock hazard exists.

(d) Overload. No circuit shall be overloaded as a result of connecting equipment or appliances to outlets supplied with wire of inadequate size.

(e) Overcurrent protection. Branch circuits shall be protected by breakers or fuses of the proper rating for the wire size.

(f) Devices. Every fixture, receptacle, switch and junction box shall be securely and properly fastened in position.

(g) Maintenance and in good condition. Every fixture, receptacle, and switch shall be properly maintained in workable and safe condition (including proper covers or enclosures), securely fastened to box, and shall be connected to source of electrical power in a safe manner.

(h) Exposed noncurrent-carrying metal parts grounded. All exposed noncurrent-carrying metal parts of the electrical system that are within eight feet (2438 mm) vertically or five feet (1524 mm) horizontally of ground, or a grounded metal object subject to contact by persons, shall be grounded.

(28) Section 605.2.1 shall be added as follows:

605.2.1 Receptacle outlets in dwellings. Receptacle outlets are required in the following locations:

(a) Laundry areas shall have a grounded receptacle within six feet (1829 mm) of the laundry tub. Receptacles mounted on the ceiling do not fulfill this requirement.

(b) Bathroom receptacles shall be installed adjacent to the sink. A receptacle outlet shall not be installed within tub or shower perimeter. All bathroom receptacles shall have ground fault circuit interrupter protection.

(c) Kitchens: a minimum of three duplex wall receptacles are required with two accessible for appliance use. All existing receptacles serving an appliance with a factory installed grounded plug, or serving countertop spaces, shall be properly grounded.

(d) All receptacle outlets which are added or replaced in bathrooms, kitchens, basements, garages, open porches, breezeways, or other locations used by a person standing on the ground or on grounding conductive materials shall be on a grounded system and shall have ground fault circuit interrupter protection.

(e) No receptacle shall be installed in the floor, unless it has an approved box and cover for in-floor use.

(29) Section 605.3 shall be amended as follows:

605.3 Luminaires. Every public hall, interior stairway, toilet room, kitchen, bathroom, laundry room, boiler room, furnace room, utility room, and within 6’ of any electrical service panel shall contain not less than one electric luminaire. Pool and spa luminaires over 15V shall have ground fault circuit interrupter protection.

(30) Section 605.3.1 shall be added as follows:

605.3.1 Hall and stairway lighting in multiple dwellings. Every hall and stairway in every multiple dwelling containing five (5) or more units shall be adequately lighted at all times. All multiple dwellings containing four (4) or less units may have conveniently located light switches controlling an adequate lighting system instead of full-time lighting. All exterior stairs shall be adequately lighted and shall be controlled by conveniently located light switches that have been permanently installed.

(31) Section 605.3.2 shall be added as follows:

605.3.2 Wall switches, stairways and exterior exits. Permanently mounted wall switches, not dependent on a battery to operate, to control a luminaire shall be provided in the following locations:

(a) On the interior side of all exterior doorway entrances, unless an automatic means of switching is provided on the outside.

(b) All stairways. If the stairway consists of six or more risers, a three-way switch must be installed at the top and bottom of the stairway.

(32) Section 605.3.3 shall be added as follows:

605.3.3 Wall switches, other rooms. Permanently mounted wall switches, not dependent on a battery to operate, at the point of entry to the room to control a lighting outlet within the room shall be provided in the following locations:

(a) In all bathrooms to control a luminaire. Switches shall be installed so as not to be within tub or shower perimeter.

(b) In kitchens to control a luminaire.

(c) In all habitable rooms to control a luminaire or receptacle.

CHAPTER 8 BUILDINGS AND BUILDING REGULATIONS
ARTICLE XIV. – RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS

Sec. 8-347. – Adopted

The International Residential Code for One- and Two- Family Dwellings, 2021 edition, including Appendix Chapters AE, AF, AG, AH, AJ, and AM, AQ, as published by the International Code Council, be and is hereby adopted by reference and set forth fully in this section, as the residential building code for one – and two-family dwellings of the Village and shall hereby regulate and govern the construction, alteration, movement, enlargement, replacement, repair, equipment, location, removal and demolition of detached on-and two-family dwellings not more than three storied in height with separate means of egress as herein provided. A copy of the International Residential Code for One-and Two-Family Dwellings, Edition 2021, has been filed in the Office of the Village Clerk for use and examination by the public.

Sec. 8-348. – Amendments

The International Residential Code for One-and Two-Family Dwellings, Edition 2021, as adopted in section 8-347 is hereby amended as follows:

(1) Section R101.1 as amended as follows:

R101.1 Title. These provisions shall be known as the *Residential Code for One- and Two-Family Dwellings* of the Village and shall be cited as such and will be referred to herein as "this code".

(2) Section R105.2 Buildings: Item 1 is amended, and Items 11 and 12 are added as follows:

R105.2 Work exempt from permit.

Building:

1. One-story detached accessory structures, provided the floor area does not exceed 120 square feet (11.15 m²).

2. through 10. remain unchanged.

11. Replacement of doors and windows provided the size is not changed and a fire rating is not required.

12. Repair or replacement of interior wall and ceiling coverings provided:
    a. not more than 50% of coverings in a room are removed, and
    b. the coverings are not part of a fire rated assembly, and
    c. no structural elements that are in a hazardous condition are exposed.

Electrical:

1. through 3. remain unchanged.

4. Electrical wiring, devices, appliances, apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy, unless the wiring is integral with a lighting or power distribution system, fire alarms or temperature control systems involving fan shut down relays, smoke controls systems or duct smoke detectors.

Exception: security alarms installed by an outside agent.

(Remainder unchanged)

(3) Section R105.7 is deleted and replaced as follows:

R105.7 Placement of Permit. The permit holder shall post the permit on the job site in a conspicuous place at all times, visible from the street, until the final inspection has been made and approved. The building official is authorized to impose a re-inspection fee when the permit is not posted.

(4) Section R106.1 is deleted:

R106.1 Submittal documents. Deleted

(5) Section R108.6 is deleted and replaced as follows:

R108.6 Work commencing before permit issuance. Any person who commences work requiring a permit by this code prior to obtaining said permit, will be subject to the fees established and may be doubled and not less than $250.00. This penalty may be waived by Community Development Department Head or the Village Administrator at their discretion and only after an investigation of the subject violation. For the second offense within a twelve (12) month period, starting or proceeding with the work prior to obtaining a permit, the fees established in Section 108.2 shall be doubled and not less than $500.00 plus an additional fee of $500.00 shall be paid for each day work continued without said permit. For the third such instance within a twelve (12) month period, the fees established in Section 108.2 shall be tripled and not less than $750.00, plus an additional fee of $750.00 shall be paid for each day work continued without said permit. For the fourth such instance within a twelve (12) month period, the offender shall be prosecuted by Village's Legal Department as permitted by State Law. The payment of such fees shall not relieve any person from complying with the requirement of this code and the execution of the work, nor from any penalties prescribed herein.

(6) Section R108.7 is added as follows:

R108.7 Re-inspection Fee. Any item of inspection that fails to meet code requirements on the initial

inspection shall be subject to a re-inspection fee charged to the permit holder for each additional re-inspection performed.

(7) Section R109.1.4 is amended as follows:

R109.1.4 Frame and masonry inspection. Inspection of framing and masonry construction shall be made after the roof, masonry, framing, firestopping, draftstopping and bracing are in place and after the plumbing, mechanical and electrical rough inspections are approved and prior to covering or concealment of any of the aforementioned.

(8) Section R115 is added as follows:

SECTION R115
TEMPORARY RESTROOM FACILITIES

R115.1 Temporary restroom facilities. The builder or the builder's representative of a residential building under construction shall provide restroom facilities for the employees working on the construction site. These facilities shall be located within 300 feet (91440 mm) of the entrance of each residential building.

(9) Table R301.2 is deleted and replaced as follows:

TABLE R301.2
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD[o]	WIND DESIGN				SEISMIC DESIGN CATEGORY[f]	SUBJECT TO DAMAGE FROM			ICE BARRIER UNDERLAYMENT REQUIRED[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
	Speed[d] (mph)	Topographic effects[k]	Special wind region[l]	Windborne debris zone[m]		Weathering[a]	Frost line depth[b]	Termite[c]				
30	115	NO	NO	NO	A	SEVERE	42	MOD/HEAVY	YES	SEE LOCAL	2500	47.8

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

1. a.Where weathering requires a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code, the frost line depth strength required for weathering shall govern. The weathering column shall be filled in with the weathering index, "negligible," "moderate" or "severe" for concrete as determined from Figure R301.2(1). The grade of masonry units shall be determined from ASTM C34, ASTM C55, ASTM C62, ASTM C73, ASTM C90, ASTM C129, ASTM C145, ASTM C216 or ASTM C652.
2. b.Where the frost line depth requires deeper footings than indicated in Figure R403.1(1), the frost line depth strength required for weathering shall govern. The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.
3. c.The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.
4. d.The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(2). Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.

5. e.The jurisdiction shall fill in this section of the table to establish the design criteria using Table 10A from ACCA Manual J or established criteria determined by the jurisdiction.
6. f.The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.
7. g.The jurisdiction shall fill in this part of the table with: the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas); and the title and date of the currently effective Flood Insurance Study or other flood hazard study and maps adopted by the authority having jurisdiction, as amended.
8. h.In accordance with Sections R905.1.2, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO."
9. i.The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
10. j.The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."
11. k.In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
12. l.In accordance with Figure R301.2(2), where there is local historical data documenting unusual wind conditions, the jurisdiction shall fill in this part of the table with "YES" and identify any specific requirements. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
13. m.In accordance with Section R301.2.1.2 the jurisdiction shall indicate the wind-borne debris wind zone(s). Otherwise, the jurisdiction shall indicate "NO" in this part of the table.
14. n.The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction.
15. o.The jurisdiction shall fill in this section of the table using the Ground Snow Loads in Figures R301.2(3) and R301.2(4).

(10) Section 313 is deleted and replaced as follows:

Section R313
Automatic Fire Sprinkler Systems

R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system may not be required to be installed in townhouses.
Exception: An automatic residential fire sprinkler system shall not be required where additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.

R313.1.1 Design and Installation. If an automatic residential fire sprinkler system for a townhouse is installed, it shall be designed and installed in accordance with the current edition of The Illinois Plumbing Code and NFPA 13 D. A one hour rated fire barrier shall be constructed adjacent to connected dwelling units.

R 313.1.2 Other Code Requirements. All structures built without automatic fire sprinkler systems shall comply with all code requirements of the International Residential Code for non-sprinklered construction.

R313.2 One- and two-family dwellings automatic fire systems. An automatic residential fire sprinkler system shall not be required to be installed in one- and two-family dwellings, including additions and alterations to such dwellings.

R313.2.1 Design and Installation. If an automatic residential fire sprinkler system is installed in a one- or two-family dwelling, it shall be designed and installed in accordance with the current edition of The Illinois Plumbing Code and NFPA 13 D.

R 313.2.2 Other Code Requirements. All structures built without automatic fire sprinkler systems shall comply with all code requirements of the International Residential Code for non-sprinklered construction.

R 313.2.3 UL Listed fire barrier required. Residential two-family dwellings shall be constructed with a Two Hour Rated UL Listed fire barrier separating the two dwellings. Two-family dwellings with automatic sprinkler systems that follow the standards of NFPA 13D shall be exempt from a Two Hour Rated UL Listed barrier and in only those cases a One Hour Rated fire separation barrier shall be required.

(11) Section R322.2.1 (1 and 3) amended to read as follows:

R322.2.1 Elevation requirements.
1. Buildings and structures in flood hazard areas not designated as Coastal A Zones, shall have the lowest floors elevated 12" (30.5 cm) above the design flood elevation.
2. (Remains unchanged)
3. Basement floors that are below *grade* on all sides shall be elevated 12" (30.5 cm) above the design flood elevation.
Exception: (Remains unchanged)

(**12**) **Section R322.2.2 is deleted in its entirety.**

R322.2.2 Enclosed area below design flood elevation. Deleted.

(13) Section R324.6 is added as follows:

R324.6 Roof Access and Pathways. Roof access, pathways and setback requirements shall be provided in accordance with Sections R324.6.1 through R324.6.2.5. Access and minimum spacing shall be required to provide emergency access to the roof, to provide pathways to specific areas of the roof, provide for smoke ventilation opportunity areas, and to provide emergency egress from the roof.

Exceptions:

1. Detached garages and accessory structures to one and two-family dwellings and townhouses, such as parking shade structures, carports, solar trellises and similar structures.

2. BIPV systems *listed* in accordance with Section 690.12(B)(2) of NEC 2020, where the removal or cutting away of portions of the BIPV system during fire-fighting operations has been determined to not expose a fire fighter to electrical shock hazards.

(14) Section R324.6.1 is added as follows:

R324.6.1 Roof access points. Roof access points shall be located in areas that do not require the placement of ground ladders over openings such as windows or doors, and located at strong points of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires or signs.

(15) Section R324.6.2 is deleted and replaced as follows:

R324.6.2 Solar photovoltaic systems. Solar photovoltaic systems shall comply with Sections R324.6.2.1 through R324.6.2.5.

R324.6.2.1 Size of solar photovoltaic array. Each photovoltaic array shall be limited to 150 feet by 150 feet (45 720 by 45 720 mm). Multiple arrays shall be separated by a clear access pathway not less than 3 feet (914 mm) in width.

R324.6.2.2 Hip roof layouts. Panels and modules installed on dwellings with hip roof layouts shall be located in a manner that provides a clear access pathway not less than 3 feet (914 mm) in width from the eave to the ridge on each roof slope where panels and modules are located. The access pathway shall be located at a structurally strong location on the building capable of supporting the live load of fire fighters accessing the roof.

Exception: These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (16.6 percent) and less.

R324.6.2.3 Single ridge roofs. Panels and modules installed on dwellings with a single ridge shall be located in a manner that provides two, 3-foot-wide (914 mm) access pathways from the eave to the ridge on each roof slope where panels or modules are located.

Exception: This requirement shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (16.6 percent) and less.

R324.6.2.4 Roofs with hips and valleys. Panels and modules installed on dwellings with roof hips or valleys shall not be located less than 18 inches (457 mm) from a hip or valley where panels or modules are to be placed on both sides of a hip or valley. Where panels are to be located on one side only of a hip or valley that is of equal length, the 18-inch (457 mm) clearance does not apply.

Exception: These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (16.6 percent) and less.

R324.6.2.5 Allowance for smoke ventilation operations. Panels and modules installed on dwellings shall not be located less than 3 feet (914 mm) below the roof ridge to allow for fire department smoke ventilation operations.

(16) Section R403.3.5 is added as follows:

R403.3.5 Detached garages or sheds. The code official may approve a continuous slab on ground foundations which are located where adequate subsoil drainage frost protection is provided and the following conditions are met:

1. Structure is non-occupiable, unconditioned, detached, of Use Groups S or U, does not contain any masonry and does not exceed (1) one story or 25 feet (7.62 m) in height.
2. Slab/foundation does not bear on peats, organic or other questionable soil.
3. Slab thickness is not less than 4" with a minimum of 6" x 6" 10#/10# WWF reinforcing.
4. The perimeter of the slab turns down to a minimum of 12" below grade and is reinforced with a minimum of 1 continuous [minimum 12" tied laps] #4 steel reinforcing bar.
5. A minimum of 4 inches of screened and washed gravel or crushed stone under entire slab. The grade surrounding the building shall fall a minimum of 6" within the first 10'.

(17) Section R1005.1 is amended as follows:

R1005.1 Listing and clearances. Factory-built chimneys shall be *listed* and *labeled* and shall be installed and terminated in accordance with the manufacturer's installation instruction. Where, upon inspection, listing specifications are not present or visible, combustible materials within 18 inches of the chimney shall be protected with 5/8" Type X gypsum board or equivalent.

(18) Chapter 11 ENERGY EFFICIENCY is deleted and replaced as follows:

CHAPTER 11 ENERGY EFFICIENCY
Section N1101 GENERAL

1101.1 SCOPE. This chapter regulates the energy efficiency for the design and construction of buildings by adopting the 2021 Illinois Energy Conservation Code.

(19) Section M1201.2 is amended as follows:

M1201.2 Application. In addition to the general administration requirements of Chapter 1, the administrative provisions of this chapter shall also apply to the mechanical requirements of Chapters 12 through 24, and Village's amendments to the International Mechanical Code.

(20) Section M1203 is added as follows:

M1203 Heating Requirements

M1203.1 Heating Required. Heat/supply air is required in all rooms (including bathrooms).

Exception:

1. Unoccupied storage or other unoccupied spaces.

(21) Section M1401.3.1 is added as follows:

1401.3.1 Calculations Required. The permit applicant shall submit a room by room Manual J, S, and D calculations for all HVAC equipment and/or replacement prior to permit issuance.

(22) Section M1401.6 is added as follows:

M1401.6 Furnace repair. The use of furnace cement or welding for the repair of a furnace heat exchanger is prohibited.

(23) Section M1408 VENTED FLOOR FURNACES is deleted and replaced as follows:

M1408 VENTED FLOOR FURNACES

M1408.1 General. Vented floor furnaces are not permitted.

(24) Section M1602.2 - 4. is amended as follows:

3. Return air for heating, ventilation and air conditioning systems for all dwelling units, including manufactured and modular homes, shall not be taken from a closet, bathroom, toilet room, kitchen, garage, mechanical room, boiler room, furnace room or unconditioned attic.

(**Exceptions:** unchanged)

(25) Section 2407.1 shall be amended as follows:

G2407.1 General.
Air for *combustion*, *ventilation* and dilution of *flue gases* for *appliances* installed in buildings shall be provided by application of one of the methods prescribed in Sections G2407.5 through G2407.9. Where the requirements of Section G2407.5 are not met, outdoor air shall be introduced in accordance with one of the methods prescribed in Sections G2407.6 through G2407.9. Furnaces using combustion air provided through an intake vent using piping shall be terminated outside using Section G2407.6.1 or G2407.6.2. *Direct-vent appliances*, gas *appliances* of other than *natural draft* design, vented gas *appliances* not designated as Category I and appliances equipped with power burners, shall be provided with *combustion*, ventilation and *dilution air* in accordance with the *appliance* manufacturer's instructions.

Exception: *Type 1 clothes dryers* that are provided with *makeup air* in accordance with Section G2439.5.

(26) Section G2414.10.1 is deleted and replaced as follows:

G2414.10.1 Welded connections required. All gas lines two and one half inches (2 1/2") inside diameter size or larger shall be of welded construction between the consumer's connection to the gas meter and the shut-off valve located immediately adjacent to any gas burning unit. All gas fuel lines carrying gas at one (1) P.S.I.G. or greater, shall be of welded construction between the consumer's connection to the gas meter and the shut-off valve located immediately adjacent to any gas burning unit.

(27) Section G2415.12 is amended as follows:

G2415.12 Minimum burial depth. Underground *piping systems* shall be installed a minimum depth of 12 inches (305 mm) below grade, except as provided for in Section G2415.12.1 (404.12.1). Piping systems and electrical wiring sharing the same trench shall be separated a minimum of 12 inches horizontally, or vertically with the gas pipe being the lowest.

(28) Section G2445 Unvented Room Heaters is deleted and replaced as follows:

G2445.1. Unvented room heaters are not allowed.

(29) Section P2501.1 is amended as follows:

P2501.1 Scope. The provisions of this chapter and the current Illinois Plumbing Code, including local amendments, shall govern the installation of plumbing. All work shall be performed by State of Illinois licensed plumbers in accordance with the Plumbing Licensing Act.

(30) Section P2903.1 is amended as follows:

P2903.1 Water supply system design criteria. The water service and water distribution systems shall be designed and sized for peak demand using values shown in Table P2903.1. No service connection shall supply more than one property.

(31) Section P2903.9.1 is added as follows:

P2903.9.1 Service valve. Each dwelling unit shall be provided with an accessible main shutoff valve near the entrance of the water service. The valve shall be of a full-open type having nominal restriction to flow, with provision for drainage such as a bleed orifice or installation of a separate drain valve. Where a service connection is intended to supply two or more distinct premises or apartments, a separate and distinct shutoff valve must be provided for each premises or apartment, located outside of the same. Additionally, the water service shall be valved at the curb or lot line in accordance with local requirements.

(32) Appendix AE "MANUFACTURED HOUSING USED AS DWELLINGS" is added as part of this Code.

(33) Appendix AF "PASSIVE RADON GAS CONTROLS" is added as part of this Code.

(34) Appendix AG "PIPING STANDARDS FOR VARIOUS APPLICATIONS" is added as part of this Code.

(35) Appendix AH "PATIO COVERS" is added as part of this Code.

(36) Appendix AJ "EXISTING BUILDINGS AND STRUCTURES" is added as part of this Code.

(37) Appendix AM "HOME DAY CARE—R-3 OCCUPANCY" is added as part of this Code.

(38) Appendix AQ "TINY HOUSES" is added as part of this Code.