
**THE VILLAGE OF FRANKLIN PARK
COOK COUNTY, ILLINOIS**

ORDINANCE

NUMBER 1920-VC-37

**AN ORDINANCE AMENDING TITLE 8 OF THE VILLAGE CODE OF
THE VILLAGE OF FRANKLIN PARK, COOK COUNTY, ILLINOIS
(NFPA 70 NATIONAL ELECTRICAL CODE)**

**BARRETT F. PEDERSEN, Village President
ROBERTA JOHNSON, Village Clerk**

**IRENE AVITIA
GILBERT J. HAGERSTROM
JOHN JOHNSON
WILLIAM RUHL
KAREN SPECIAL
ANDY YBARRA
Trustees**

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(NFPA 70 NATIONAL ELECTRICAL CODE)**

WHEREAS, the Village of Franklin Park, Cook County, Illinois (the “*Village*”) is a duly organized and existing municipal corporation created under the provisions of the laws of the State of Illinois and under the provisions of the Illinois Municipal Code, as from time to time supplemented and amended; and

WHEREAS, the President and Board of Trustees of the Village of Franklin Park (the “*Corporate Authorities*”) are charged with the responsibility of establishing and updating building construction and safety codes, standards and regulations in the Village to ensure that matters pertaining to safety issues and concerns are examined and addressed in order to protect the health, safety and welfare of the residents of the Village; and

WHEREAS, the Corporate Authorities are committed to providing the residents of the Village with building construction and safety codes, standards and regulations that are consistent and predictable, that reflect the latest standards in technology and safety, and that readily adapt to advances and provide uniformity with nationally recognized standards and requirements; and

WHEREAS, in accordance with the Illinois Municipal Code, a copy of the NFPA 70 National Electrical Code, 2014 Edition, has been duly filed in the office of the Village Clerk and made available for public use, inspection and examination for a period of no less than thirty (30) days before the adoption of this Ordinance by the Village.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Franklin Park, Cook County, Illinois, as follows:

Section 1. That the above recitals and legislative findings are found to be true and correct and are hereby incorporated herein and made a part hereof, as if fully set forth in their entirety.

Section 2. Chapter 6 (“*Adopted Codes*”) of Title 8 (“*Building Regulations*”) of the Village Code of Franklin Park is hereby amended by deleting Section 8-6-7 (“*Electrical Code Adopted*”) in its entirety and adding the following underlined language in its place to read, as follows:

8-6-7. – Electrical Code adopted.

The NFPA 70 National Electrical Code, 2014 edition, and referenced standards, tables and Annex A, Annex B, Annex C, Annex D, Annex F and Annex G, as published by the National Fire Protection Association, a copy of which is on file and available for public use, inspection and examination in the office of the Village Clerk, is hereby adopted as the Electrical Code of the Village, for setting forth minimum standards for regulating and governing the installation of electric wiring; and each and all of the standards, specifications, rules, regulations, provisions, conditions and terms of said National Electrical Code are hereby referred to and made a part hereof, as if fully set out in this Section of the Village Code with the additions, insertions, deletions and changes, if any, prescribed in Section 8-6-8 of the Village Code. The adoption of the National Electrical Code shall not be construed as preventing the enforcement of or as repealing the provisions of any ordinance, regulation, standard or code adopted by the Village which is more restrictive than the provisions of this Section. In the event any provision of this Section conflicts with any other ordinance, regulation, standard or code adopted by the Village, the more restrictive shall be applicable.

Section 3. Chapter 6 (“*Adopted Codes*”) of Title 8 (“*Building Regulations*”) of the Village Code of Franklin Park is hereby amended by deleting Section 8-6-8 (“*Revisions to Electrical Code*”) in its entirety and adding the following underlined language in its place to read, as follows:

8-6-8. – Revisions to Electrical Code.

(a) Amendments. The 2014 edition of the NFPA 70 National Electrical Code is hereby amended, as follows:

Article 110.26(C)(2): Large Equipment.

Delete the first paragraph in its entirety and substitute the following paragraph: “For equipment rated 1200 amperes or more and over six (6) feet wide containing over current devices, switching services, or control devices, there shall be two (2) entrances not less than thirty-two (32) inches wide and six and two thirds (6 2/3) feet high at each end of the working space.”

Article 210.5(C):

Identification of Ungrounded Conductors.

Amend by adding the following: “The means of identification of each system phase conductor, wherever accessible, shall be color coded for 277/480 volt (brown, orange, and yellow with gray as neutral conductor) and for 120/208 volt (blue, red, and black with white as neutral conductor).”

Article 210.52(G):

Basements, Garages, and Accessory Buildings.

Amend by adding the following: “In the construction of, or addition to, attached and detached garages, at least one (1) lamp holder, one (1) switch and one (1) GFCI receptacle shall be required.”

Article 215.9:

Ground-Fault Circuit-Interrupter Protection for Personnel.

Amend by adding the following: “Ground-fault circuit interrupters shall be self-contained units, circuit breaker types, feed-through receptacle types or other approved types. When feed-through GFCI receptacles are used, they shall feed only receptacles on the same floor as the resetting means.”

Article 230:

Services.

Amend by adding the following to “I. General”:

- “1. Each dwelling unit main service entrance equipment shall consist of a single disconnecting means of not less than 100-ampere capacity. A minimum of twenty (20) breakers or fuses must be in use for any dwelling unit. Only full-size breakers shall

be used with new service installations. No "mini-breakers" shall be used or installed.

2. In commercial and industrial buildings, the service shall have a rating not less than the load to be carried; however, in no case shall service be smaller than 100-ampere. Half-size breakers are not approved for any use. No "mini-breakers" shall be used or installed."

Article 230.43:

Wiring Methods for 1000 Volts, Nominal, or Less.

Amend by adding the following: "Service entrance conductors preceding the first disconnecting means shall be installed in accordance with the applicable requirements of this Code covering the type of wiring method used and limited to the following methods: 1) rigid metal conduit; 2) intermediate metal conduit; or 3) rigid nonmetallic conduit when located outside the structure and terminating at the local utility pad."

Article 230.54(A):

Service Head.

Amend by adding the following: "All service raceways are required to have a rain tight service head, including raceways mounted to poles and those for underground services."

Article 230.71:

Maximum Number of Disconnects.

Amend by adding the following: "All new electrical must include no more than one (1) main disconnect."

Article 250.4(A):

Grounded Systems.

Amend by adding the following: "Any flexible conduit must contain a green conductor."

Article 250.52(A)(1):

Metal Underground Water Pipe.

Delete in its entirety and substitute the following:

“A metal underground water pipe in direct contact with the earth for 10 ft. (3.05 m) or more (including any metal well casing effectively bonded to the pipe) and electrically continuous (or made electrically continuous by bonding around insulating joints or sections or insulating pipe) to the points of connection of the grounding electrode conductor and the bonding conductors. Continuity of the grounding path or the bonding connection to interior piping shall not rely on water meters or filtering devices and similar equipment. All ground conductors shall be enclosed in conduit and run to the street-side of the water meter and shall be terminated in a visible and readily accessible location with a “Warning Tag”. Water meters shall have a jumper wire installed.”

Article 250.92(A):

Bonding of Equipment for Services.

Amend by adding the following: “The grounding electrode conductor of an electrical service must be grounded directly to the underground water service pipe for the building on the street-side of the water meter. Exception 1: For a single-unit dwelling with a finished drywall or paneled ceiling in the basement that would have to be damaged in order to reasonably install a required conduit to the water service; the electrical service may be grounded to any cold water pipe, and with a bonding jumper across the water meter, if it is established that the cold water pipe from the point of attachment to the water meter is electrically continuous. Exception 2: In a building where the water service is more than 350 feet from the location of the electrical service; the service can be grounded to a cold water pipe assuming the pipe is visible over its entire length from the point of attachment to the water meter, the pipe is electrically continuous, and there are no shutoffs over that length. A supplemental grounding means to the building steel and/or an outside tri-electrode driven ground is also required.”

Article 300.13:

Mechanical and Electrical Continuity – Conductors.

Amend by adding the following new sub-article: “(C) Connections. Use of stab-back connections on receptacles is prohibited.”

Article 300.22:

Wiring in Ducts Not Used for Air Handling, Fabricated Ducts for Environmental Air, and Other Spaces for Environmental Air (Plenums).

Amend by adding the following: “All connectors within a concealed environmental air space shall effectively close any openings in the connection. All luminaires, electrical boxes, etc. shall be free of holes and gasketed. Flexible conduit must be plenum rated.”

Article 310.106(B):

Conductor Material.

Delete in its entirety and substitute the following:

“Use of aluminum conductors and copper-clad aluminum conductors is prohibited. Conductor material shall be copper only.”

Article 330:

Metal-Clad Cable: Type MC

Delete in its entirety.

Article 334:

Nonmetallic-Sheathed Cable: Types NM, NMC, and NMS

Delete in its entirety.

Article 338:

Service-Entrance Cable: Types SE and USE

Delete in its entirety.

Article 344.1:

Scope.

Amend by adding the following: “The use of listed electrical metallic tubing shall be permitted for both exposed and concealed work. Electrical metallic tubing shall not be used (1) where, during installation or afterward, it will be subject to severe physical damage; (2) where protected from corrosion solely by enamel; (3) in cinder concrete or cinder fill where subject to permanent moisture unless protected on all sides by a layer of non-cinder concrete at least 2 in. (50.8

mm) thick or unless the tubing is at least 18 in. (457 mm) under the fill; (4) in any hazardous (classified) location equipment except conduit bodies no larger than the largest trade size of the tubing; or (5) in earth or in concrete on or below grade. Where practicable, dissimilar metals in contact anywhere in the system shall be avoided to eliminate the possibility of galvanic action."

Article 352.10:

Uses Permitted.

Delete (A), (C), (D), (E) and (F) in their entirety.

Article 368.56:

Branches from Busways.

Delete in its entirety.

Article 382:

Nonmetallic Extensions.

Delete in its entirety.

Article 394:

Concealed Knob-and-Tube Wiring.

Delete in its entirety and substitute the following:

"Any visible knob-and-tube wiring is to be removed and replaced with code compliant wiring methods."

Article 396:

Messenger-Supported Wiring.

Delete in its entirety.

Article 398:

Open Wiring on Insulators.

Delete in its entirety.

Article 399:

Outdoor Overhead Conductors over 1000 Volts.

Delete in its entirety.

Article 400:

Flexible Cords and Cables.

Amend by adding the following: "Equipment cords from the point of termination with equipment to the point of

connection cannot exceed six (6) feet in length. The point of connection for cords supplying equipment from above must be directly above the equipment."

Article 410.36:

Means of Support.

Amend by adding the following: "Safety chains or an equivalent supplemental support means are required for the installation of all HID high-bay or low-bay luminaires. Further, no luminaires are to be solely supported by the corrugated metal ceiling of a building. For luminaires mounted in grid ceilings, flexible metallic conduit must be used to allow movement of the luminaires to provide access to the space above the ceiling."

Article 410.36(B):

Suspended Ceilings.

Amend by adding the following: "Fixtures and luminaires installed in a grid ceiling shall be additionally supported by a minimum #12 tie wire to the structure above. The tie wire shall be tied with a minimum of three (3) twists each side of lay-in fixtures at two (2) corners and one (1) tie wire for recessed fixtures, emergency lights and exit signage."

Article 450.27:

Oil-Insulated Transformers Installed Outdoors.

Amend by adding the following: "Space separations shall be at least five (5) feet horizontally from a doorway or window and twenty (20) feet from a fire escape."

Article 490:

Equipment Over 1000 Volts, Nominal.

Amend by adding the following: "Service entrance conductors of more than 1000 volts, and those supplying power to a fire pump, shall be installed in rigid metallic conduit, buried no less than thirty-six (36) inches below the surrounding grade, and enclosed by concrete no less than two (2) inches thick. Such runs of conduit buried in concrete shall be identified by signs or painting so as to eliminate the possibility of damage to them during building, remodeling, or repairs."

Article 590.3:

Time Constraints.

Amend by adding the following: "Temporary wiring must be removed in the event of a halt or significant delay during the period of construction."

Article 604:

Manufactured Wiring Systems.

Delete in its entirety.

Article 700.12(F):

Unit Equipment.

Delete in its entirety and substitute the following:

"Individual unit equipment for emergency illumination shall consist of (1) a rechargeable battery; (2) a battery charging means; (3) provisions for one or more lamps mounted on the equipment, or shall be permitted to have terminals for remote lamps, or both; and (4) a relaying device arranged to energize the lamps automatically upon failure of the supply to the unit equipment.

The batteries shall be of suitable rating and capacity to supply and maintain not less than 87-1/2 percent of the nominal battery voltage for the total lamp load associated with the unit for a period of at least 1-1/2 hours, or the unit equipment shall supply and maintain not less than 60 percent of the initial emergency illumination for a period of at least 1-1/2 hours. Storage batteries, whether of the acid or alkali type, shall be designed and constructed to meet the requirements of emergency service.

Unit equipment shall be permanently fixed in place (i.e.; not portable) and shall have all wiring to each unit installed in accordance with the requirements of any of the wiring methods in Chapter 3. The branch circuit feeding the unit equipment shall be the same branch circuit as that serving the normal lighting in the area and connected ahead of any local switches. The branch circuit feeding unit equipment shall be clearly identified at the distribution panel. Emergency illumination fixtures that obtain power from a unit equipment and are not part of the unit equipment shall be wired to the unit equipment as required by 700.10 and by one of the wiring methods of Chapter 3.

Exception: In a separate and uninterrupted area supplied by a minimum of three (3) normal lighting circuits, a separate

branch circuit for unit equipment shall be permitted if it originates from the same panel board as that of the normal lighting circuits and is provided with a lock-on feature.”

Article 700.16:

Emergency Illumination.

Amend by adding the following: “Non-powered exit lighting is not accepted. For emergency illumination of stairways at least one (1) emergency light head must be directed at each tread and landing. In hotels and large multi-dwelling units, exit lights on stairways must be located twenty-four (24) inches above the floor as well as at typical height.”

Article 701.12(D):

Separate Service.

Delete in its entirety.

Article 725.30:

Class 1, Class 2, and Class 3 Circuit Identification.

Amend by adding the following: “Burglar alarm circuits must be identified in the electrical panel and use a circuit breaker lock where applicable.”

Article 760.30:

Fire Alarm Circuit Identification.

Amend by adding the following: “Fire alarm circuits must be identified in the electrical panel and use a circuit breaker lock where applicable. Fire alarm must be hard-wired to their electrical power source.”

- (b) Additional amendments.** Hard-wired smoke detectors in dwelling units are required in each sleeping room, within fifteen feet (15’) of all sleeping areas and on each floor. Hard-wired carbon monoxide detectors are required within fifteen feet (15’) of each sleeping area and in proximity of a furnace. All devices must be interconnected and cannot be run through the same conduit as any other conductors after the point of origin. The point of origin may be from any junction box on the same level of the dwelling as the service panel. In each dwelling unit of a multi-family building, including, but not limited to, rental apartments, one (1) hard-wired smoke detector and one (1) hard-wired carbon monoxide detector are required to be located within sleeping rooms (bedrooms) and within fifteen feet (15’) of sleeping areas (bedrooms).

At the time an owner or tenant moves out of a building, all electrical wiring other than that securely fastened and terminated must be removed. This includes all low-voltage wiring that is not required for the use of a future tenant.

It is not permitted to operate any equipment connected under permit until approval by the electrical inspector or director of inspectional services, unless special permission is granted in writing.

The use of aluminum or copper-clad aluminum wire for any purpose of grounding is prohibited. In all non-residential applications all buss detail must be copper.

(c) Electrical contractor registration; required.

- (1) Registered electricians or electrical contractors.** It shall be unlawful for any person to engage in the business of electrical contractor, without being registered or licensed as an electrician or an electrical contractor. All electrical contractors and electricians must be registered or licensed in the State of Illinois by an entity that has an Electrical Commission, and requires the applicant pass a test prior to the issuance of a license in conformity with the testing qualifications and standards as may be set forth in any state statute or regulation. It is left to the interpretation of the director of inspectional services whether to accept the electrical license. All electricians or electrical contractors shall be required to show proof of such registration or license and proof that the contractor or electrician has successfully passed the testing requirements. The term "registered electrician" as used in this section shall be understood to mean any person installing or altering electrical equipment for the utilization of electricity supplied for light, heat or power, not including radio apparatus or equipment for wireless reception of sounds and signals, conductors and other equipment installed under the jurisdiction of the Illinois Commerce Commission, for use in their operation as public utilities; but the term "registered electrician" does not include employees of an electrical contractor who do not perform or supervise electrical work. Contractors are required to provide a license and permit bond, and a certificate of insurance.
- (2) Homeowners.** A homeowner may perform electrical work on his or her own home if: a) it is a single-family dwelling, b) it is their primary residence, and c) they provide proof of adequate knowledge. The director of inspectional services or electrical inspector reserves the right to have the homeowner complete a quiz to provide adequate knowledge. No person other than the homeowner may perform electrical work under this provision.
- (3) Suspension.** Where a registered electrician or electrical contractor is found doing electrical work without a permit on two (2) separate occasions

within any twelve (12) month period, a hearing shall be held by the electrical inspector in the presence of the director of inspectional services, at which time the permit privileges of said electrician or electrical contractor may be suspended for a period of time not to exceed one (1) year.

- (4) **Emergency disconnect.** In the event of an emergency, the electrical inspector or director of inspectional services has the authority to disconnect current to any electrical equipment found to be unsafe.

(d) **Permit.**

- (1) **Permit required; penalty.** No electrical equipment shall be installed or altered except upon a permit first issued by the department of inspectional services authorizing the installation, alteration or repair of electrical equipment. Where an electrical installation has been started prior to the issuance of a permit for such work, the normal permit fee shall be doubled.
- (2) **Application.** The director of inspectional services shall issue permits for such installations and alteration of electrical equipment in all cases where application for such permit shall be made in accordance with the rules and regulations applicable thereto; provided, however, that no permit shall be issued for installing or altering by contract, electrical equipment, unless the person applying for such permit is registered as an electrical contractor as herein required, and shall have been paid in advance upon filing the application.
- (3) **Inspection.** The director of inspectional services or the electrical inspector shall inspect or shall cause to be inspected all electrical equipment installed or altered, except such electrical equipment as may be lawfully exempt, and shall require that it conform to the electrical regulations as herein required.
- (4) **Certificate.** Upon completion of such installation or alteration in compliance with the electrical regulations as herein required, the electrical inspector shall, on request made by a registered electrical contractor, issue a certificate of inspection covering such installation or alteration; provided, however, that no such certificate shall be issued until all inspection fees have been paid.
- (5) **Reinspection.** The director of inspectional services or his electrical inspectors are hereby empowered to reinspect any electrical equipment within the scope of the electrical regulations as herein required, and when said electrical equipment is found to be unsafe to life or property, shall notify in writing either the owner, his agent for the purpose of managing, controlling or collecting rents or any other person managing, controlling, using or operating the same to place electrical equipment in a safe and

secure condition in compliance with the electrical regulations as herein required within such time as the director of inspectional services or his electrical inspectors shall determine, but in no event later than fifteen (15) days from the date of such notice. Refusal to comply with the requirements of such notice shall subject the person owning, managing, controlling, operating or using such electrical equipment to the penalties as herein provided.

(6) Permit record. The department of inspectional services shall keep complete records of all permits issued and inspections made and other official work performed under the electrical regulations as herein required.

(e) Penalty; removal. In addition to any violation or penalty as provided by the Village Code, so much of any electrical installation as may be erected or altered and maintained in violation of the requirements herein contained shall be condemned and the director of inspectional services upon the written recommendation of the electrical inspector is hereby empowered to cut off and discontinue current to such electrical wire and apparatus.

Section 4. That nothing in this Ordinance or in the NFPA 70 National Electrical Code, 2014 Edition, hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed, nor shall any just or legal right or remedy of any character be lost, impaired or affected by this Ordinance.

Section 5. This Ordinance, and its parts, are declared to be severable and any section, subsection, sentence, paragraph, clause, provision, or portion of this Ordinance that is declared invalid shall not affect the validity of any other portion of this Ordinance, which shall remain in full force and effect. The Corporate Authorities hereby declare that the passage of this Ordinance would have occurred, irrespective of the fact that any one or more of its sections, subsections, sentences, paragraphs, clauses, provisions, or portion thereof, was at the time of passage invalid or unconstitutional.

Section 6. If any part of this Ordinance is found to be in conflict with any other

ordinance, resolution, motion or order or parts thereof, the most restrictive or highest standard shall prevail.

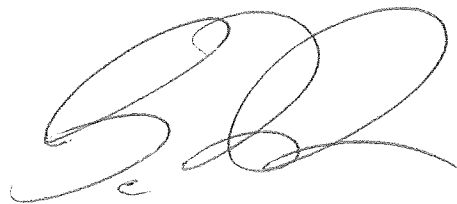
Section 7. This Ordinance and the rules, regulations, provisions, requirements, orders and matters established and adopted herein and hereby shall take full force and be in effect on May 1, 2020, at 12:00 A.M., Central Standard Time, due to the urgent nature of the matter herein in order to establish uniform standards and regulations throughout the Village and to ensure that the health, safety and welfare of the residents of the Village is duly protected.

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ADOPTED by the President and Board of Trustees of the Village of Franklin Park, Cook County, Illinois this 6th day of April 2020 pursuant to a roll call vote, as follows:

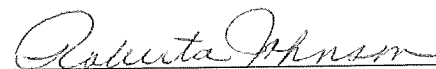
	YES	NO	ABSTAIN	ABSENT	PRESENT
AVITIA	X				
HAGERSTROM	X				
JOHNSON	X				
RUHL	X				
SPECIAL	X				
YBARRA	X				
PRESIDENT PEDERSEN					
TOTAL	6				

APPROVED by the President of the Village of Franklin Park, Cook County, Illinois on this 6th day of April 2020.



BARRETT F. PEDERSEN
VILLAGE PRESIDENT

ATTEST:


ROBERTA JOHNSON
VILLAGE CLERK