

# THE VILLAGE OF FRANKLIN PARK

9500 Belmont Avenue · Franklin Park, Illinois 60131 (847) 671-8245, FAX # (847) 671-8790

## ELECTRICAL CODE AMENDMENTS

ORDINANCE NO. 9900 G 15

Section 1. That the forgoing recital clauses to this Ordinance are hereby adopted as the findings of the corporate authorities of the Village of Franklin Park and are incorporated herein by specific reference.

Section 2 That the rules and regulations of the National Fire Protection Association, and such other associations or agencies identified herein below, are as contained in the following Code:

- (1) That the "National Electrical Codes, (2/3 No. 70), 1996 Edition", as published by the national Fire Protection Association, Battremarch Park, MA, is hereby adopted and incorporated as fully as if set out at length herein except as hereinafter modified.

Section 3. The National Electrical Code (2/3 No. 70) F.O. 1996 is hereby amended as follows:

**Article 110-16 ( c). Access and Entrance to Working Space.** (Amend to read as follows.)

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 one (1) entrance 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 110.23. Identification of Underground Conductors.** The name of the electrical contractor performing the work shall be displayed on the service panel box.

**Article 210-4(d). Identification of Underground Conductors.** (Amend by adding the following.)

The means of identification of each system phase conductors, 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 and Garages.** (Amend by adding the following.)

In the construction of, or addition to, attached and detached garages, at least one lamp holder, one switch and one G.F.C.I. receptacle shall be required.

**Article 215-9. Ground-Fault 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 G.F.C.I. receptacles are used, they shall feed only receptacles on the same floor as the resetting means.

**Article 230. Services.**

**A. General.** (Amend by adding the following.)

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 six (6) breakers or fuses must be in use for any dwelling unit.

2. In commercial and industrial building, 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.

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3. Half-size breakers are not approved for any use.

**Article 230-43. Wiring Methods for 600 Volts 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 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 250-81 (a). Metal Underground Water Pipe.** (Amend to read as follows.)

A metal underground water pipe in direct contact with the earth for 10ft. (3.05 m) or more (including any metal well casing effectively bonded to the pipe) and electrically continuous (or made electrically continuous by bonded 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 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. The provisions of the Section 250-81 (a) shall not apply to residential structures existing at the effective date of the ordinance, and said existing residential structures may be grounded at an active cold water metallic system with a bypass or jumper attached across the water meter.

**Article 250-91(d). Prohibition of use of aluminum Wire.** (Amend by adding the following.)

The use of aluminum or copper-clad aluminum wire for the purpose of grounding is prohibited.

**Article 300-13 ( c). Mechanical and Electrical Continuity Conductors.** (Amend by adding the following.)

Use of stab-back connections on receptacles is prohibited.

**Article 310-2 ( b). Conductor Material.** (Amend to read as follows.)

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

**Article 320. Open Wiring in Insulators.** Not enacted by reference.

**Article 321. Messenger Supported Wiring.** Not enacted by reference.

**Article 324. Concealed Knob And Tube Wiring.** Not enacted by reference.

**Article 336. nonmetallic-Sheathed cable.** Not enacted by reference.

**Article 338-4. Installation Methods.** Not enacted by reference.

**Article 342. Nonmetallic Extensions.** Not enacted by reference.

**Article 347-2. Uses Permitted,** (a), (c), (d), (e), and (f) not enacted by reference.

**Article 348-1. Use.** (Amend to read as follow.)

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

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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 largest trade size of the tubing; or (6) 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.

Exception: Aluminum fittings and enclosures shall be permitted to be used with steel electrical metallic tubing.

**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 505. class I, Zone 0, 1, and 2 Locations.** Not enacted by reference.

**Article 604-4. Uses Permitted.** EXCEPTIONS No. 2 are not enacted by reference.

**Article 604-4 (a). Cable or Conduit Types.** EXCEPTIONS No. 1 and No. 2 are not enacted by reference.

**Article 700-12 (e), Unit Equipment.** (Amend to read as follows.)

Individual unit equipment for emergency illuminated 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 87-12 percent of the nominal battery voltage for the total lamp load associated with the unit for 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 any of the wiring methods in Chapter 3. The branch circuit feeding the unit equipment shall be the same branch circuit as the 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 Section 700-9 and by one of the wiring methods of Chapter 3.

Exception: In a separate and uninterrupted area supplied by a minimum of three 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 701-11 (d).** Shall not be adopted by reference.

### III. Electrical Contractor Registration – Required:

(a) **Registered Electricians and/or Electrical Contractors:** (Amend to read as follows.)

It shall be unlawful for any person to engage in the business of electrical contractor, without being registered or licensed or an electrical contractor. All electrical contractors and electricians must be registered or licensed by the city or village in the State of Illinois that 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, city or village ordinance. All electricians or electrical contractors shall be required to show proof of such registration or license and proof that the contractor or electrician has

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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 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.

- (b) **Home Owners:** The requirement for a registered electrician may be waived with special permission from the Director of Building and Zoning or Electrical Inspector.
- (c) Where a registered electrician or electrical contractor is found going 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 Building and zoning, 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.
- (d) In the event of emergency, the Electrical Inspectors or Director of Building and Zoning has authority to disconnect current to any electrical equipment found to be unsafe.

**Iv. A. Permits Required:** No electrical equipment shall be installed or altered except upon a permit first issued by the Department of Building and Zoning authorizing the installation, alteration or repair of electrical equipment.

- (a) Where an electrical installation has been started prior to the issuance of a permit for such work, the normal permit fee as required by this code shall be doubled.

**B. Application:** The Director of Building and Zoning shall issue permits for such installations and alteration of electrical equipment in all cases where application for such permit shall be made by the person applying for such permit is registered as an electrical contractor as required in Section III of this Appendix, and further provided for in this Code or by ordinance shall have been paid in advance upon filing the application.

- C. Inspection:** The Director of Building and Zoning 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 of the Code.
- D. Certificate:** Upon completion of such installation or alteration in compliance with the electrical regulations of the Code, 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 have been paid.
- E. Reinspection:** The Director of Building and Zoning or his Electrical Inspectors are hereby empowered to reinspect any electrical equipment within the scope of the electrical regulations of the Code, 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 of this Code within such time as the Commissioner shall determine, but in no event later than fifteen (15) days from the date of such notice. Refusal to comply with the requirements such notice shall subject the person owning, managing, operating and using such

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electrical equipment to the penalties provided for in Section V of this Code.

**F. Record of Permits:** The Department of Building and Zoning shall keep complete records of all permits issued and inspections made and other official work performed under the electrical regulations of this Code.

**V. Penalty:** Any person, firm or corporation who violates any of the provisions of this Code or who maintains any electrical wiring and apparatus found to be dangerous to life and property, shall be fined not less than two hundred (\$200.00) dollars or more than seven hundred fifty (\$750.00) dollars for each offense. Each day such a violation shall continue shall constitute a separate and distinct offense, and so much of any electrical installation as may be erected or altered and maintained in violation of this Code shall be condemned and the Commissioner of Public Works upon the written recommendation of the Electrical Inspector and said Inspector is hereby empowered to cut off and discontinue current to such electrical wire and apparatus.

Section 4. Wherever in the code incorporated and adopted herein by reference there appears a requirement for a Board of Appeals within regulations, unless provided to the contrary, the Board of appeals as established under Section 121.0 of the Franklin Park Building Code of 1992 shall serve as the Appeals Board.

Section 5: All other ordinances or parts of ordinances in conflict herewith are hereby expressly repealed solely to the extent of such conflict, provided, however, that nothing herein contained shall affect any rights, actions or causes of action which shall have accrued to Village of Franklin Park prior to the effective date of the this ordinance.

Section 6. Should any section or provision of the Ordinance be declared by a court of competent jurisdiction to be invalid, such decisions shall not affect the validity of the remaining portions of this Ordinance.

Section 7: This Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form in the manner as provided by law.