

ORDINANCE NO. 6590

AN ORDINANCE AMENDING CHAPTER 18, SECTION 18-230, THE ELECTRICAL CODE, OF THE GLENVIEW MUNICIPAL CODE

WHEREAS, the Village of Glenview (the “Village”) is a home rule municipality in accordance with the Constitution of the State of Illinois of 1970;

WHEREAS, the Village has the authority to adopt ordinances and promulgate rules and regulations that pertain to its government and affairs that protect the health, safety and welfare of its citizens;

WHEREAS, the Village adopted the 2011 National Electrical Code by Ordinance #5536, on January 3, 2012;

WHEREAS, the 2020 edition of the National Electrical Code has been published, and reviewed by the Glenview Building Commission (the “Commission”);

WHEREAS, the Commission, having considered these matters, have recommended that the corporate authorities adopt the 2020 National Electrical Code, with certain amendments as set forth herein; and

WHEREAS, the corporate authorities, having considered the recommendation of the Commission, find it in the public interest to amend the Village’s building code by adopting the 2020 National Electric Code, as amended herein.

NOW, THEREFORE, BE IT ORDAINED by the President and Board of Trustees of the Village of Glenview, Cook County, Illinois, in furtherance of and reliance on its home rule powers, that the Glenview building code be amended as follows:

Section 1: That the facts and statements contained in the preamble to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

Section 2: Section 18-230 of Chapter 18, Article IV, Division 1 of the Glenview Municipal Code (the “Code”) is hereby deleted in its entirety and replaced with a new Section 18-230, as follows:

Sec. 18-230. Adoption by reference.

The ~~2008~~**2020** edition of the National Electrical Code is adopted by reference.

Section 3: Section 18-231 of Chapter 18, Article IV, Division 1 of the Code, is deleted in its entirety and replaced with the following new Section 18-231:

Section 18-231 Amendments.

Any electrical equipment or method of installation not specifically covered by section 18-231 shall be governed by the rules and regulations in the 2020 edition of the National Fire Protection Association, under the auspices of the American National Standards Institute, now on file in the Development Department, and referred to in this article. Any and all references to the National Electrical Code in this article shall mean the edition referred to in this section.

The 2020 edition of the National Electrical Code is amended as follows:

- (1) Article 100 Definitions. The following definitions shall be added:

Alter shall mean to make different, modify, or vary.

Repair shall mean to restore to a good operating condition as in the original state, without alteration.

- (2) Article 110.24 (A)(i) Identification of the electrical contractor. Shall be amended with the addition of the following:
The name of the electrical contractor performing the work on all new electrical services shall be displayed on the service panel cover.
- (3) Article 210.50 III Required Outlet. Shall be amended with the addition of the following:
Commercial or industrial office areas shall have receptacles installed within six feet of doorways and every twelve feet on wall spaces two feet or greater in length.
- (4) Article 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel. Section (A) Shall be amended with the addition of the following:
When feed through GFCI receptacles are used, they shall feed only receptacles on the same floor.
- (5) Article 210.8.1 Ground-Fault Circuit-Interrupter Protection for Personnel. Shall be amended with the addition of the following:
Overhead garage door opener receptacles, sump pump receptacles, ejector pump receptacles, and finished basement receptacles are exempt from the Ground-Fault Circuit- Interrupter Protection.
- (6) Article 210.8(B). Ground-Fault Circuit-Interrupter Protection for Personnel. Shall be amended with the addition of the following:
Bathroom switches and receptacles shall not be located within 30 inches measured horizontally, from the outside edge of a bathtub, whirlpool tub, shower, or similar fixture. This requirement shall not apply to sink basins.
Wall mounted lighting fixtures shall not be located within 30 inches measured horizontally, from the outside edge of a bathtub, whirlpool tub, shower or similar fixture unless provided with GFCI protection.
- (7) Article 210.52(A)(1) General Provisions. Shall be deleted in its entirety and replaced with the following:

- (1) Counter top and work bench areas, other than kitchen counter tops shall be served by at least one receptacle for every six feet of length or fraction thereof.
- (8) Article 230 Services. Shall be amended with the addition of the following:
Section 230.1(A). At the discretion of the Fire Code Official all services other than one and two-family dwellings shall be installed with an outdoor disconnecting means capable of being secured to prevent tampering. Services that are 200 amps or less shall have a single main disconnect. Multiple disconnects in a common enclosure shall be permitted for services greater than 200 amps.
- (9) Article 230 Services. Shall be amended with the addition of the following:
Section 230.1(B). System design drawings shall be submitted for all services greater than 200 amps at the time of permit application.
- (10) Article 230 Services. Shall be amended with the addition of the following: Section 230.11 Service Entrance Conductors.
- (A) Service entrance conductors shall be installed in rigid metal conduit, intermediate metal conduit or rigid nonmetallic conduit. The use of a subpanel shall require the written approval of the Director of inspectional services or his/her designee after submission and approval of complete load calculations.
 - (B) All service conductors shall be installed underground unless special permission is granted by the director of inspectional services.
 - (C) In new residential construction the electrical service shall have a minimum rating of 200 amps and an electrical distribution panel sized for 40 circuits. An interior disconnecting means shall be provided in addition to the exterior disconnect. Fuse box pullouts shall not be used as a service disconnect.
Exception: Electric service upgrades in existing residences shall have a minimum 100 ampere rating and an electrical distribution panel sized for 30 circuits. Electrical distribution panel replacement and/or riser replacement shall not constitute a service upgrade.
 - (D) In commercial construction an interior disconnecting means shall be provided in addition to the exterior disconnect. Fuse box pullouts shall not be used as a service disconnect.
 - (E) Half-size breakers are not approved for use in new construction. In existing residential dwelling units half-size breakers are limited to manufacturer's specifications. Half-size breakers shall not be permitted in existing commercial or industrial units.
 - (F) Three-phase circuit panels supplied by three-phase, four wire Delta 120/240 volt service shall not be used to directly supply 120 volt single phase loads.
 - (G) Service entrances for underground services shall be governed by the requirements published by Commonwealth Edison entitled "Information and Requirements for the Supply of Electric Service."
- (11) Article 230.31(B) Minimum Size. Shall be deleted in its entirety and replaced with the following:
The conductors shall not be smaller than 8 AWG copper or smaller than 2 AWG for aluminum and copper clad aluminum conductors.

- (12) Article 230.43 Wiring Methods for 600 volts, Nominal, or less. Shall be deleted in its entirety and replaced with the following:
Service entrance conductors shall be installed in accordance with the applicable requirements of this code covering the type of wiring methods used and shall be limited to the following methods:
- (1) Rigid metal conduit
 - (2) Intermediate metal conduit
 - (3) Rigid nonmetallic conduit
- (13) Article 230.85 Emergency Disconnects. Shall be deleted in its entirety and replaced with the following:
For one- and two-family dwelling units, all service conductors shall terminate in disconnecting means having a short-circuit current rating equal to or greater than the available fault current, installed in a readily accessible ~~outside~~ location. If more than one disconnect is provided, they shall be grouped.
- (14) Article 250.50 Grounding Electrode System and Grounding Electrode Conductor. Shall be amended with the addition of the following after the first paragraph:
All grounding conductors shall be:
- (1) Enclosed in a metal raceway or metal conduit;
 - (2) Connected to the first five (5) feet of the metal water pipe from the point of entrance to the building or structure on the street side of the water meter;
 - (3) Tagged with an approved WARNING tag; and
 - (4) A properly sized bonding jumper shall be installed across the water meter.
- (15) Article 250.64 Grounding Electrode Conductor Material. Shall be deleted in its entirety and replaced with the following:
The grounding electrode conductor shall be copper. The use of aluminum or copper clad aluminum for the purpose of grounding is prohibited.
- (16) Article 310.2(B) Conductor Material. Shall be deleted in its entirety and replaced with the following:
The use of compact aluminum and copper clad aluminum conductors shall be prohibited if smaller than 2 AWG.
- (17) Article 314.27(C) Boxes at Ceiling-suspended Paddle Fan Outlets. Shall be deleted in its entirety and replaced with the following:
Any outlet box which is being installed in an area that can reasonably accommodate a ceiling fan shall be identified for ceiling fan support.
- (18) Article 320.10 Uses Permitted. Shall be deleted in its entirety and replaced with the following:
Metal-clad and armored type cable (BX) shall be permitted for remodeling work where the installation of electric metallic tubing and/or intermediate metal conduit presents a hardship and is approved by the director of community development or their designee.
- (19) Article 324 Flat Conductor Cable: Type FCC. Shall be deleted in its entirety and replaced with the following:

Reserved.

- (20) Article 330.10 Uses Permitted. Shall be deleted in its entirety and replaced with the following:
Type MC cable shall be permitted for remodeling work where the installation of electrical metallic tubing and/or intermediate metal conduit presents a hardship and is approved for use by the Director of Inspectional Services or his/her designee.
- (21) Article 334 Nonmetallic-sheathed Cable: Types NM, NMC, and NMS. Shall be deleted in its entirety and replaced with the following:
Reserved.
- (22) Article 338 Service-Entrance Cable: Types SE and USE. Shall be deleted in its entirety and replaced with the following:
Reserved.
- (23) Article 340 UF Wiring. Shall be deleted in its entirety and replaced with the following: UF wiring is permitted in exterior uses when installed underground only.
- (24) Article 352.10 Rigid Nonmetallic Conduit: Type RNC subsections (A), (C), (D), (E), and (F) Use Permitted. Shall be deleted in its entirety and replaced with the following:
Reserved.
- (25) Article 348 Flexible Metal Conduit. Shall be amended with the addition of the following: Flexible metal conduit shall not exceed six feet in length except by written approval by the Director of Inspectional Services or his/her designee.
- (26) Article 352.12 Uses Not Permitted. Shall be amended with the addition of the following section (G):
(G) Where conduits are placed in concrete cast in place on earth, or in direct contact with the earth, only galvanized rigid metal conduit, intermediate conduit or rigid nonmetallic conduit shall be used. Electrical metal conduit, with fittings approved for immersion in concrete, may be placed in concrete above grade, with 2 inches of space below the conduit.
- (27) Article 362 Electrical Nonmetallic Tubing. Shall be deleted in its entirety and replaced with the following:
Reserved.
- (28) Article 382 Nonmetallic Extensions. Shall be deleted in its entirety and replaced with the following:
Reserved.
- (29) Article 394 Concealed Knob-and-tube Wiring. Shall be deleted in its entirety and replaced with the following:
Reserved.
- (30) Article 398 Open Wiring on Insulators. Shall be deleted in its entirety and replaced

with the following:
Reserved.

- (31) Article 410.116 (B) Recessed Light Clearances from Insulation. Shall be deleted in its entirety and replaced with the following:
Recessed lighting fixtures installed in insulated ceilings are required to be I.C. type.
- (32) Article 450.3 Over-Current Protection. Shall be deleted in its entirety and replaced with the following:
All transformers rated at 150 volts and greater shall have both primary and secondary load break disconnects located within sight of the transformer.
- (33) Article 450.27 Oil-insulated Transformers Installed Outdoors. Shall be deleted in its entirety and replaced with the following:
Space separations shall be no less than five (5) feet horizontally from a doorway or window and twenty (20) feet from a fire escape except with written permission of the fire code official or his/her designee.
- (34) Article 600.6(A) Sign Disconnects. Shall be deleted in its entirety and replaced with the following:
Outdoor disconnects and raceways used in connection with illuminated signage shall be located in accordance with one of the following methods:
 - 1. Within an enclosed building within sight of the sign(s), or
 - 2. Behind a parapet wall within sight of the sign(s), or
 - 3. Completely enclosed within the sign.
- (35) Article 604 Manufactured Wiring Systems. Shall be deleted in its entirety and replaced with the following:
Manufactured wiring systems shall be permitted for use with furniture systems only.
- (36) Article 625.17 (A)(3)(a)(ii) Cords & Cables. Shall be deleted in its entirety and replaced with the following:
For all construction other than one and two-family dwellings the following shall apply: Fastened-in-place equipment in accordance with 625.44(B), the power-supply cord shall be not more than 1.8 m (6 ft) long and the equipment shall be installed at a height that prevents the power-supply cord from contacting the floor when it is connected to the proper receptacle.
- (37) Article 680.23(A) (4) Voltage Limitation. Shall be deleted in its entirety and replaced with the following:
Lighting fixtures installed in swimming pools, fountains, and the like, shall not operate at more than 15 volts, as measured between conductors.
- (38) Article 720 Low Voltage Wiring. Shall be deleted in its entirety and replaced with the following:
Low voltage wiring shall be installed in conduit in areas made inaccessible by building construction or where subject to damage.

Section 4: Every section and provision of this Ordinance shall be severable, and the invalidity of any portion of this Ordinance shall not affect the validity of any other portion of this Ordinance. If any part of this Ordinance is found to be invalid in any one or more of its several applications, all valid applications shall remain in effect.

Section 5: All ordinances, resolutions, or parts of ordinances or resolutions in conflict herewith are hereby repealed; provided, however that nothing in this Ordinance shall affect any rights, actions, or causes of action which shall have accrued to the Village of Glenview prior to the effective date of this Ordinance.

Section 6: This Ordinance shall be in full force and effect on January 1, 2024 after its passage and approval according to law.

PASSED this 5th day of December, 2023.

AYES: Bland Cooper DeBoni Doron Jones Sidoti

NAYS: None

ABSENT: None

APPROVED by me this 5th day of December, 2023

Michael Jenny, Village President of the
Village of Glenview, Cook County, Illinois

ATTESTED and FILED in my office
this 5th day of December, 2023

Matthew J. Formica, Village Clerk of the
Village of Glenview, Cook County, Illinois