

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda

Resolution or Ordinance (Blue) Waiver of First Requested
 Recommendations of Boards, Commissions & Committees (Green)
 Other Business (Pink)

TO : PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott R. Niehaus, Village Manager

DATE : November 13, 2024 **(BOT) Date:** November 21, 2024

SUBJECT: Text Amendments to the Village Code of Ordinances, Chapter
150.060: Electrical Code

SUBMITTED BY: Keith Steiskal, Director Building & Code Enforcement

BACKGROUND/POLICY IMPLICATIONS:

The Board of Building Appeals considered and unanimously recommended approval of a text amendment to Chapter 150.060 of Village Code. The amendment proposes the adoption of the 2023 National Electrical Code. As has been practice in the past, staff are recommending adopting every other cycle of the NEC. The Village currently has adopted the 2017 NEC. While there is a 2020 version, by adopting every other cycle (codes are in three-year cycles), it allows the Village to keep up with newer technologies while not changing every three years to allow contractors to not be in a learning curve as often learning a new code every three years. There are also some cost savings by not purchasing new books and electronic subscriptions as often.

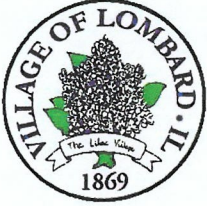
Please place this item on the November 21, 2024, Board of Trustees agenda for a first reading.

Fiscal Impact/Funding Source:

Review (as necessary):

Finance Director _____ Date _____
Village Manager _____ Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the agenda distribution.



MEMORANDUM

TO: Scott R. Niehaus, Village Manager

FROM: Keith Steiskal, Director of Building & Code Enforcement

MEETING DATE: November 12, 2024

SUBJECT: **Text Amendments to Section 150.060 (Electrical Code).**

The Board of Building Appeals (BOBA) considered and unanimously recommended approval of a text amendment to Chapter 150.060 Electrical Code. The adoption of the 2023 National Electrical Code. As has been practice in the past, staff are recommending adopting every other cycle of the NEC. The Village currently has adopted the 2017 NEC. While there is a 2020 version, by adopting every other cycle (codes are in three-year cycles), it allows the Village to keep up with newer technologies while not changing every three years to allow contractors to not be in a learning curve as often learning a new code every three years. There are also some cost savings by not purchasing new books and electronic subscriptions as often.

Also, BOBA recommended carrying over all of the existing amendments except one that is not needed as the newer code has that amendment as part of the actual code. In addition, BOBA recommended one new amendment added by the City of Chicago and other municipalities regulating when Arc-Fault-Circuit Interrupter/AFCI protection will be required or not.

Attached for Village Board consideration are:

1. The staff memorandum provided to the Board of Building Appeals, and
2. An Ordinance to Section 150.060 amending the addressing provisions.

ACTION REQUESTED

Please place this item on November 21, 2024 Board of Trustee agenda for a first reading.



MEMORANDUM

TO: Board of Building Appeals (BOBA) Members

FROM: Keith Steiskal, Building & Code Enforcement Director

MEETING DATE: November 6, 2024

SUBJECT: **Text Amendments to Section 150.060 (Electrical Code).**

Staff are recommending the adoption of the 2023 National Electrical Code. As has been practice in the past, staff are recommending adopting every other cycle of the NEC. The Village currently has adopted the 2017 NEC. While there is a 2020 version, by adopting every other cycle (codes are in three-year cycles), it allows the Village to keep up with newer technologies while not changing every three years to allow contractors to not be in a learning curve as often learning a new code every three years. There are also some cost savings by not purchasing new books and electronic subscriptions as often.

Staff are also recommending an effective date of the code be January 1st, 2025. This allows new permits in 2025 to start with the new code and it is easy to track past permits with what code was in place at the time of permit issuance.

Staff will bring to the meeting the current amendments to the code as well as proposed amendments for discussion. Staff would be looking for a recommendation with staff drafting final ordinances to be sent to the Board of Trustees.

ACTION REQUESTED

Staff recommends that BOBA recommend to the Village Board the adoption of the 2023 National Electrical Code, along with the amendments to the code as drafted by staff per the recommendations of the Board of Building Appeals. Further, staff recommends that BOBA recommend to the Village Board of Trustees the effective date of this updated code be January 1st, 2025.

ORDINANCE NO. _____

**AN ORDINANCE GRANTING APPROVAL OF TEXT AMENDMENTS
TO TITLE 15, CHAPTER 150 OF THE LOMBARD VILLAGE CODE**

(Local Amendments to Chapter 150 of Village Code)

WHEREAS, the Village of Lombard maintains a Building Code which is found in Title 15, Chapter 150 of the Lombard Code of Ordinances; and,

WHEREAS, the Board of Trustees deem it reasonable to periodically review said Building Code and make necessary changes; and,

WHEREAS, a review of the Building Code has been conducted by the Village of Lombard Board of Building Appeals on November 6, 2024; and,

WHEREAS, the Board of Building Appeals has filed its recommendations with the President and Board of Trustees recommending approval of the text amendments described herein; and,

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: That Title 15, Chapter 150, Section 150.060 of the Lombard Village Code shall be amended to add text as underscored and delete text that is in ~~strikeout~~, as set forth within Attachment "A" attached hereto and made a part hereof.

SECTION 2: That this ordinance shall be in full force and effect after its passage, approval and publication in pamphlet form as provided by law.

Passed on first reading this ____ day of _____, 2024.

First reading waived by action of the Board of Trustees this ____ day of _____, 2022.

Passed on second reading this ____ day of _____, 2024.

Ayes: _____

Nays: _____

Absent: _____

Ordinance No. _____

Re: Chapter 150

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Approved this _____ day of _____, 2024.

Keith T. Giagnorio, Village President

ATTEST:

Elizabeth Brezinski, Village Clerk

Published in pamphlet from this _____ day _____, 2024.

Elizabeth Brezinski, Village Clerk

Ordinance No. _____

Re: Chapter 150

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EXHIBIT A
TEXT AMENDMENTS TO CHAPER 150 OF VILLAGE CODE

See attached pages

ARTICLE VIII. NATIONAL ELECTRICAL CODE— ~~2017~~ 2023

§ 150.060 Establishment of rules and regulations of electrical installation.

The National Electrical Code (~~2017~~ 2023 edition), as hereby amended and as modified by this Chapter, shall establish the rules and regulations of electrical installations in the village.

(Ord. No. 7137, 1, passed 10-15-15; Ord. No. 7793, § 1, passed 3-5-20)

§ 150.061 Definition.

For the purpose of this Chapter the following definitions shall apply unless the context clearly indicates or requires a different meaning.

Communications contractor is one that installs only Class 2 or Class 3 type wiring as defined in Articles 725.1 and 725.2 of the National Electrical Code (~~2017~~ 2023 Edition) (NEC), and only that portion of the wiring system between the load side of a Class 2 or Class 3 power source and the connected equipment.

Electrical contractor as used in this Chapter means any person, firm or corporation engaged in the business of installing or altering, by contract or otherwise, electrical equipment for the utilization of electricity supplied for light, heat or power or other installations covered in Article 90.2, Scope of the National Electrical Code (~~2017~~ 2023 Edition); but "electrical contractor" does not include employees of such contractor who perform or supervise such work.

(Ord. 5481, Passed 5/6/04; Ord. 6522, passed 9/16/10; Ord. No. 7137, 1, passed 10-15-15; Ord. No. 7793, § 1, passed 3-5-20)

§ 150.062 Electrical contractors and communications contractor requirements.

It is unlawful for any person, firm or corporation to engage in the business of electrical contractor or communications contractor within the Village, without meeting the provisions as set forth below.

- (A) *Registration and Insurance.* Any person, firm or corporation desiring to engage in the business of an electrical contractor or communications contractor shall meet the registration and insurance requirements as set forth within Section 150.143.
- (B) *Use of permit issued to another.* It shall be unlawful for any person to install, alter or repair any electrical wires or apparatus by authority of a permit issued to and for the use of some other person.
- (C) *Permit for person not entitled to one.* It shall be unlawful for any registered Electrical or Communications Contractor to secure or furnish a permit for the installation, alteration, and repair of electrical wires and apparatus to any person not entitled to such permit under the regulations of this Chapter.
- (D) *Revocation of permits.* The Community Development Director or his/her designee is authorized to revoke any permit or certificate obtained by fraud, misrepresentation, or in any way contrary to the provisions of the electrical regulations of this Chapter, for installation, alteration, repair and use of any electrical conductors, electrical equipment, signaling & communications conductors and equipment, and fiber optic cables and raceways.

(Ord. 6522, passed 9/16/10; Ord. 6832, passed 5/17/13; Ord. No. 7137, 1, passed 10-15-15; Ord. No. 7890, §§ 1, 3, passed 12-3-20)

§ 150.063 Permit required.

No person shall install any electrical conduits, electrical wires, electrical equipment, apparatus or communications, data, computer or fiber optics cables, conduits, equipment or apparatus in any building or structure, for which a permit is required, until such permit shall have been secured. In case any work is begun without a permit authorizing said work, the Community Development Director or his/her designee shall have the power to stop said work and order all persons engaged therein to stop and desist until the proper permit is secured.

Underground installations in the parkway area require an additional permit (right-of-way permit) from the Village of Lombard Public Works Department.

(Ord. 6522, passed 9/16/10)

§ 150.064 Disconnection of electrical services.

- (A) If any person violates the provisions of this Chapter or maintains any electrical wiring or apparatus or communication, data, computer, or fiber optic cable or equipment found to be dangerous to life and property, the Community Development Director or his/her designee is hereby empowered to cut-off or otherwise disconnect current to said electrical wires or apparatus.
- (B) Any person having been stopped from installing electrical work as outlined in § 150.063 shall, when securing the permit to continue, pay double the permit fees as a penalty.

(Ord. 6522, passed 9/16/10; Ord. No. 7137, 1, passed 10-15-15)

§ 150.065 Permit fees.

All fees for inspection shall be in accordance with schedules under § 150.140.

§ 150.066 Adoption by reference amendments, additions, and deletions.

- (A) The National Electrical Code (~~2017~~-2023 edition), as amended, is adopted by reference as modified by this Chapter.

In the event any provisions, Articles, wording, and the like, of the National Electrical Code (~~2017~~-2023 edition), as amended, are in conflict with any ordinances, amendments, and/or addendums, as recognized and approved by the Electrical Commission of the Village of Lombard and/or as adopted by the Village of Lombard, or in conflict with the state law, the most restrictive provisions, Articles, wording, and the like, shall prevail.

Wiring methods and/or materials listed by the National Electrical Code (~~2017~~-2023 Edition), but amended, deleted, prohibited or requiring special expressed written permission (SEWP) by this Chapter as noted in subsections (B), (C), (D) below shall be considered to be amended, deleted, prohibited or requiring special expressed written permission (SEWP) where ever and there after mentioned or referenced in the National Electrical Code (~~2017~~-2023 edition).

- (B) The following Articles, or portions thereof, of the National Electric Code (~~2017~~-2023 Edition) shall be deleted for the purpose of this Chapter:

Section 230.41. Ex.(4)

Aluminum wire is not allowed, except AA-8000 series electrical grade aluminum conductors are approved for outside use to feed an electric meter only.

Article 320

Armored Cable: Type AC

Article 322

Flat Cable Assemblies: Type FC

Article 324

Flat Conductor Cable: Type FCC

Article 334

Nonmetallic Sheathed Cable: Type NM, NMC, & NMS

Article 338

Service Entrance Cable: Type SE & USE

Article 362

Electrical Nonmetallic Tubing: Type ENT

Article 394

Concealed Knob & Tube

Article 330

Metal Clad Cable: Type MC when extended a length of greater twenty (20) feet per circuit.

- (C) Certain constructions recognized by the National Electrical Code (NEC) shall only be permitted with the special expressed written permission (SEWP) of the Building Division of the Community Development Department.
- (D) The following Articles or Sections of the National Electric Code (~~2017~~ 2023 Edition) are amended as follows:

Section 110.14 Electrical Connections. (Add the following:)

- (A) *Terminals*. The use of stab type screwless pressure terminals of the conductor push-in type is prohibited.
- (B) *Splices*. The use of device terminals for splicing is strictly prohibited.

Section 110.26 Spaces About Electric Equipment. (Add the following:)

- (A) Dead Front Assemblies—When in the judgment of the Electrical Inspector or his/her designee, the conditions of the installation or the equipment being installed or modified require additional clearances at front, sides or rear of electrical equipment, such additional clearances shall be provided.

Section 210.12 – Arc-Fault Circuit Interrupter Protection (Add the following:)

Exception No.1 to 210.12(A), (B), (C), (D) and (E): it shall be permitted to omit AFCI protection for the portion of the branch circuit enclosed in rigid metal conduit (RMC), intermediate metal conduit (IMC), electrical metal tubing (EMT) along with metal outlet and junction boxes.

Section 210.19 Conductors—Minimum Ampacity and Size. (Add the following:)

- (1) General. All branch circuits shall be wired with copper conductors only.

Article 210

III. Required Outlets

Section 210.52

(G) (3) Where an installation includes a sump pump or pumps and an ejector pump or pumps, each pump shall be provided an Individual Branch Circuit (dedicated circuit) compliant with Section 210.21(B)(1), (2) and (3). That is, a receptacle with a rating of not less than the branch circuit rating (usually 20 amperes) and compliant with Section ~~210.8~~ 210.8(D)#6 and 422.5(A)#6, (GFCI protected) and with Section ~~406.11~~ 406.12, TR (Tamper Resistant). Where in wet locations Section 406.9(B) WR (Weather Resistant) outlets are required in addition to "In Use" covers.

Exception: A single receptacle (Simplex type and rated for the branch circuit ampacity) installed exclusively for sump pump or pumps and ejector pump or pumps, no GFCI protection is required, amending ~~210.8~~ 210.8(D)#6 and 422.5(A)#6.

Section 230.1 Scope (Add the following:)

A maximum of one electric service shall be allowed per single family, two family or townhome lot.

Whenever a service is revised or replaced, all current pertinent provisions of this Chapter shall apply.

All service and feeder conductors shall be copper. It is intended that all electrical conductors be copper.

Section 230.43 Wiring Methods for 600 Volts, Nominal, or Less. (Delete the following methods:)

(1) Open Wiring on insulators; (2) TYPE IGS Cable; (5) Electrical metallic tubing; (6) Electrical Nonmetallic Tubing; (7) Service-entrance cables; (13) Type MC cable; (14) Mineral-insulated, metal-sheathed cable; (15) Flexible metal conduit and LFMC, Liquidtight flexible metal conduit; (16) Liquid tight flexible nonmetallic conduit; (17) High density polyethylene conduit (HDPE); (18) Nonmetallic underground conduit with conductors (NUCC); (19) Reinforced thermosetting resin conduit (RTRC); ~~(20) Type TC-ER cable where identified for use as service entrance conductors; (21) Flexible bus system.~~

Section 230.70 General.

(A) Location.

(1) Readily Accessible Location. (Amend to read as follows:) The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure, or inside nearest the point of entrance of the service conductors, in any case within five (5) feet of conduit and conductor entrance to the building.

Section 230.71 Maximum Number of Disconnects. (Replace NEC text with the following:)

~~(A) General. The service disconnecting means for each service permitted by Section 230.2, or for each set of service-entrance conductors permitted by Section 230.40, Exception Nos. 1, 3, 4 or 5, shall consist of one main switch or circuit breaker. There shall be no more than six (6) main disconnects grouped in any one location. For the purpose of this Section, disconnecting means installed as part of listed equipment and used solely for the following shall not be considered a service disconnecting means:~~

- ~~(1) Power monitoring equipment~~
- ~~(2) Surge protective device(s)~~
- ~~(3) Control circuit of the ground fault protection system~~
- ~~(4) Power operable service disconnecting means~~

Section 250.64 Grounding Electrode Conductor Installation. (Delete (A) and (B) and replace with the following:)

- (A) Only Copper grounding and bonding conductors are allowed.
- (B) Securing and Protection from Physical Damage. A grounding electrode conductor or its enclosure shall be securely fastened to the surface on which it is carried. All grounding electrode conductors shall be in an approved raceway. The following raceways shall be approved: rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit (Schedule 40 and 80) for exterior use; electrical metallic tubing or cable armor for interior use. (C), (D), (E), & (F), (Retain NEC text.)

Article 340 (Add the following:)

UF & BC Cable: Type UF

Approved for use only in exterior underground installations without Special Expressed Written Permission (SEWP); all other uses require SEWP. Article 340 otherwise applies entirely.

Article 348 (Add the following:)

Flexible Metal Conduit: Type FMC

Not approved for use as a general wiring method. Article 348 otherwise applies entirely.

Article 350 (Add the following:)

Liquidtight Flexible Metal Conduit: Type LFMC

Not approved for use as a general wiring method. Article 350 otherwise applies entirely.

Article 352 (Add the following:)

Rigid Nonmetallic conduit: Type RNC

Not approved for use as a general wiring method. Approved for use only in exterior underground installations without Special Expressed Written Permission (SEWP); all other uses require (SEWP). Article 352 otherwise applies entirely.

Article 366 (Add the following:)

Auxiliary gutters: Metal only are allowed. Article 366 otherwise applies entirely.

Section 410.2 Definitions. Section 410.16 Luminaires in clothes closet.

Closet Storage Space: (Add the following:)

In residential occupancies, all clothes closets over six (6) square feet shall have an approved (listed for use) luminaire installed.

Section 545.4 Manufactured Building—Wiring methods.

(Replace (A) and (B) with the following):

Only wiring methods and materials previously approved by this Chapter shall be authorized for use in manufactured buildings, except that those constructions which require Special Expressed Written Permission (SEWP) for use may be considered on a case by case basis.

Section 600.21 Ballasts, Transformers and Electronic Power Supplies.

- (A) Accessibility. (Add the following:)

A code approved enclosure designed for that purpose including a self-contained disconnecting means or a disconnecting means installed within (3) three feet and in sight is required.

(Ord. 3267, passed 6/21/90; Ord. 5481, passed 5/6/04; Ord. 6522, passed 9/16/10; Ord. 6832, passed 5/17/13; Ord. No. 7137, 1, passed 10-15-15; Ord. No. 7284, § 1, passed 10-20-16; Ord. No. 7793, § 1, passed 3-5-20; Ord. No. 8118, § 1, passed 1-5-23)