

SPONSORED BY: JIM WEBSTER

ORDINANCE  
OF THE  
COUNTY BOARD OF THE COUNTY OF WINNEBAGO, ILLINOIS

SUBMITTED BY: ZONING COMMITTEE

2016 CO 035

ORDINANCE TO ADOPT THE 2014 EDITION OF THE  
NATIONAL ELECTRICAL CODE

WHEREAS, the Winnebago County Building Department has been involved in a collaborative effort with the City of Rockford and approximately 25 communities and 6 counties in northwest Illinois to create a Regional Building Code to provide some consistency in the adoption of various codes and amendments related to construction; and

WHEREAS, committees consisting of building officials, inspectors, design professionals, contractors, trade associations, labor unions, and local stakeholders were assembled to review new and existing codes as well as local amendments; and

WHEREAS, this collaborative effort resulted in the creation of a proposed Regional Building Code that includes specific agreed upon amendments applicable to the adoption of the 2015 International Residential Code; 2015 International Fire Code; the 2015 International Mechanical Code; the 2015 International Fuel Gas Code; NFPA 70: National Electrical Code, 2015 Edition; and the Illinois State Plumbing Code; and

WHEREAS, the County Board of the County of Winnebago, Illinois, adopted the 2002 National Electrical Code on April 14, 2005; and

WHEREAS, the Winnebago County Building Department recommends adoption of the 2014 National Electrical Code with the amendments proposed in the Regional Building Code; and

WHEREAS, the aforesaid 2014 edition of the NFPA 70 National Electrical Code has been filed in the office of the Winnebago County Clerk pursuant to 55 ILCS 5/5-6005.

NOW THEREFORE BE IT ORDAINED by the County Board of the County of Winnebago, Illinois, that the 2014 National Electrical Code be and the same is hereby adopted by reference pursuant to 55 ILCS 5/5-6002, with modifications as set forth below.

BE IT FURTHER ORDAINED, that Chapter 18, Article III, Sections 18-56 and 18-57 of the Winnebago County Code of Ordinances are hereby deleted in their entirety and replaced with the following:

Sec. 18-56. – Adopted.

The National Electrical Code (NFPA 70), 2014 edition, is hereby adopted by reference thereto as though fully set forth in this section and the whole thereof, save and except those portions as are deleted, modified, or amended in Section 18-57, three copies of which have been on file in the office of the county clerk for use and examination by the public for at least 30 days prior to the adoption thereof.

Sec. 18-57. – Amendments.

The 2014 National Electrical Code adopted by Section 18-56 is hereby amended as follows:

(1) Section 210.19 shall be amended to add subsection (A)(5) 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.

(2) Section 210.70(A)(1) shall be amended to read as follows:

*210.70 Lighting Outlets Required.*

(A) Dwelling Units.

(1) Habitable Rooms. At least one wall switch-controlled lighting outlet shall be installed in every habitable room and bathroom. The switch shall be installed at a point of entry to the room. The main lighting outlet in each room may not be fed from the load side of a GFCI device. Unless 210.70(A)(1), Exception No. 1 is applied, provision shall be made in the wiring of each ceiling box of all habitable rooms (excluding dining rooms) for a luminaire to operate independently from a fan.

Exception No. 1: In other than kitchens and bathrooms, one or more receptacles controlled by a wall switch shall be permitted in lieu of lighting outlets.

Exception No. 2: Lighting outlets shall be permitted to be controlled by occupancy sensors that are (1) in addition to wall switches or (2) located at a customary wall switch location and equipped with a manual override that will allow the sensor to function as a wall switch.

- (3) Section 210.70(A)(3) shall be amended to read as follows:

*210.70 Lighting Outlets Required.*

(A) Dwelling Units.

(3) Storage or Equipment Spaces. For accessible attics, underfloor spaces, utility rooms, each area of an unfinished basement, and equipment spaces, at least one lighting outlet containing a switch or controlled by a wall switch shall be installed in such spaces. At least one point of control shall be at the usual point of entry to these spaces. A lighting outlet shall be provided within six (6) feet of any equipment requiring servicing.

- (4) Section 210.70(C) shall be amended to read as follows:

*210.70 Lighting Outlets Required.*

(C) Other Than Dwelling Units. For accessible attics and underfloor spaces, at least one lighting outlet containing a switch or controlled by a wall switch shall be installed in such spaces. At least one point of control shall be at the usual point of entry to these spaces. A lighting outlet shall be provided within six (6) feet of any equipment requiring servicing.

- (5) Section 230.11 shall be added as follows:

*230.11 Service Modifications.* When any part of the service entrance equipment, branch circuit panel, or service conductor is replaced, modified, or required to be repaired, the service in its entirety must be installed to comply with current codes. The main branch circuit panel shall be at least 16 spaces.

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

- (6) Section 230.43 shall be amended to read 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 be used inside a building or structure.

- (7) Section 230.70(A)(1) shall be amended to read 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 at or within 5 feet of the meter enclosure.

- (8) Section 250.52 shall be amended to add subsection (C) as follows:

*250.52 Grounding Electrodes.*

- (C) New Construction. A concrete-encased electrode that complies with 250.52(A)(3) will be required in all new construction.

- (9) Section 300.1 shall be amended to add subsection (D) 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.

- (10) Section 300.5(D)(3) shall be amended to read 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.

- (11) Section 300.11 shall be amended to add subsection (A)(3) as follows:

*300.11 Securing and Supporting.*

(A) Secured in Place.

(3) Tie Wire. Tie wire shall not be allowed as a sole means of supporting or securing conduit or cable in above ground applications.

- (12) Section 300.13 shall be amended to add subsections (C) and (D) 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.

(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 No. 1: Disconnecting means for ballasts.

Exception No. 2: Factory installed terminations in luminaires.

- (13) Section 310.106(B) shall be amended to read as follows:

*310.106 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.

- (14) Section 314.27(A)(2) shall be amended to read 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 (50 lb). A luminaire that weighs more than 23 kg (50 lb) shall be supported independently of the outlet box, unless the outlet box is listed and marked on the interior of the box to indicate the maximum weight the box shall be permitted to support. In all habitable rooms with a ceiling fixture (other than recessed fixtures) in a location acceptable for a ceiling-suspended (paddle) fan in single-family, two-family or multi-family dwellings, a box rated for ceiling fan support shall be installed.

- (15) Section 334.10, first paragraph, shall be amended to read 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.

- (16) Section 334.15 shall be amended to add subsection (D) as follows:

*334.15 Exposed Work.*

(D) All Unfinished Areas. Any exposed cable 7 feet (213.36 cm) or closer to the floor must be protected with a durable building material or sleeved in an approved manner.

- (17) Section 334.40(B) shall be amended to read as follows:

*334.40 Boxes and Fittings.*

(B) Devices of Insulating Material. Self-contained switches, self-contained receptacles, and nonmetallic-sheathed cable interconnector devices of insulating material that are listed shall be permitted to be used without boxes in exposed cable wiring. Openings in such devices shall form a close fit around the outer covering of the cable, and the device shall fully enclose the part of the cable from which any part of the covering has been removed. Where connections to conductors are by binding-screw terminals, there shall be available as many terminals as conductors.

- (18) Section 410.36(B) shall be amended to read 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. Fixtures 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 size No. 12 AWG steel.

BE IT FURTHER ORDAINED, that the penalty for violation of any of the provisions of the 2014 National Electrical Code shall be a fine of not more than \$1,000.00 for each offense and that each day that a violation exists shall be considered a separate offense; nothing herein, however, shall preclude enforcement proceedings by means other than a fine, including injunction proceedings.

BE IT FURTHER ORDAINED, that the previously adopted 2002 National Electrical Code is hereby repealed, provided that such repeal shall not affect the right of the County to institute any action at law or equity to require compliance or prosecute violations thereunder; it being the intention of the County to preserve the cause of action and not to excuse any violation under the previous code.

BE IT FURTHER ORDAINED, that if there is any conflict between the 2014 National Electrical Code and other codes adopted by the County, the most restrictive provision shall prevail.

BE IT FURTHER ORDAINED, that the 2014 National Electrical Code shall become effective ~~April~~, 2016 and that the County Clerk is hereby directed to distribute a certified copy of this Ordinance to the Winnebago County Building Official and the Winnebago County State's Attorney's Office – Civil Bureau.

Respectfully submitted,

**ZONING  
COMMITTEE**

**AGREE**

  
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Jim Webster, Chairman

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Angie Goral

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John Guevara

  
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Dave Kelley

  
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Faye Lyon

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Julio Salgado

  
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Steve Schultz

**DISAGREE**

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Jim Webster, Chairman

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Angie Goral

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John Guevara


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Dave Kelley

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Faye Lyon


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Julio Salgado

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Steve Schultz

The above and foregoing Ordinance was adopted by the County Board of the County of Winnebago, Illinois, this 10th day of March, 2016.

  
\_\_\_\_\_  
Scott H. Christiansen  
Chairman of the County Board  
of the County of Winnebago, Illinois

Attested by:

  
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Margie M. Mullins  
Clerk of the County Board  
of the County of Winnebago, Illinois