

First Published in The Wichita Eagle on \_\_\_\_\_

DELINEATED

ORDINANCE NO. \_\_\_\_\_

AN ORDINANCE AMENDING SECTIONS 4.2.010, 4.2.070, 4.2.150, 4.2.165, 4.2.195, 4.2.205 AND 4.2.210; DELETING SECTION 4.A.070, 4.2.170, 4.2.175 AND 4.2.220 AND REPEALING THE ORIGINALS OF SECTIONS 4.2.010, 4.2.070, 4.2.150, 4.2.165, 4.2.170, 4.2.175, 4.2.195, 4.2.205, 4.2.210 AND 4.2.220 OF THE WICHITA/SEDGWICK COUNTY UNIFIED BUILDING AND TRADE CODE.

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF WICHITA,  
KANSAS:

**SECTION 1.**

***SECTION 4.A.070 – Board of electrical appeals – Matters pertaining to electrical elevators is hereby repealed.***

~~“Whenever the board of electrical appeals has under consideration matters pertaining to elevators, the elevator inspector having charge of elevator installation shall sit with the board and act in an advisory capacity.”~~

**SECTION 2.**

***SECTION 4.2.010 – Installation standards is hereby amended to read as follows:***

“All electrical installations made shall be in strict conformity with the provisions of this Code. If sections contained within this Code, in a given situation, do not prescribe a specific type or class of material or specific standards of construction, then the standards as set forth and contained in the most recent edition of the National Electrical Code, ~~2014 2017 Edition~~ including Informative Annex C (Conduit and Tubing Fill Tables), as published by the National Fire Protection

Association as N.F.P.A. No. 70- ~~2014~~ 2017, as presently constituted and as may be hereinafter amended, shall apply with the exception of ~~Section 110.16; Section 110.24; Section 200.6(d); Section 210.4(b);~~ Section 210.5(c)(1); Section 210.52(c)(1) Exception; Section 230.24(A) Exception No. 5; Section 230.40; ~~Section 250.68(a) Exception No. 2; Section 300.4(H); Section 300.11(a) (b)(2); Section 314.28; Section 334.10; Section 334.12(a)(1); Section 334.40(b); Section 334.80; Section 410.64; Section 430.22(G)(1); Section 430.22(G)(2); Section 514.11(A);~~ Section 590.4(D); Section 590.6(B)(~~2~~) (3); and Section 680.8 9; of such publication. Said N.F.P.A. No. 70 ~~2014~~ 2017, was adopted by the National Fire Protection Association at its ~~2013~~ 2016 June Technical Session and approved as an American National Standard on August ~~21, 2013~~ 24, 2016. By this publication, all provisions of such publication, with noted exceptions, are adopted by reference and made a part of this Code, and this Section as though fully set forth herein.”

### **SECTION 3.**

**SECTION 4.2.070 – Conductor requirements** is hereby amended to read as follows:

“A. *Commercial and Industrial.*

(1) *Type.* All commercial and industrial wiring conductors rated two hundred (200) amperes or less, including all service conductors required to be installed by the licensed electrical contractor, shall be copper. ~~For parallel conductors, Each individual conductor of a parallel conductor set shall meet the requirements of this Section. Parallel conductors are not to be~~ considered a single conductor.

**Exception.** Feeder circuit and branch circuit conductors rated one hundred (100) amperes or more, may be aluminum or copper-clad aluminum, provided panelboards or disconnect switches served by such circuits are marked by the manufacturer as being suitable for aluminum or copper-clad aluminum termination.

(2) *Minimum Size.* The ~~minimum-size conductors~~ branch circuit wiring conductor size shall be No. 12 AWG copper, ~~except smaller sizes will be acceptable for control wiring.~~

B. *Residential.*

All residential and accessory building wiring conductors less than ninety (90) amperes shall be copper.

Note: Grounding conductors installed in the same raceway or cable with the above listed aluminum conductors may be allowed to be aluminum when sized per Article 250 of the currently adopted National Electrical Code.”

**SECTION 4.**

***SECTION 4.2.150 – Ceiling grid support wires is hereby amended to read as follows:***

“The following is added to the section 300.11(A)(2) of the National Electrical Code:

Exception No. 2: MC cable or flexible metal conduit may be attached to the ceiling grid support wires serving lighting fixtures located within the ceiling grid area where all of the following conditions apply.

1. The MC cable or flexible metal conduit must not be larger than trade size ½ inch.
2. Only a single MC cable or flexible metal conduit may be attached per ceiling grid support wire.
3. Only clips or devices approved for the purpose may be used to attach MC cable or flex to the support wires.

Fire rated ceiling assemblies shall not be used to support electrical raceways and all raceways installed within fire rated ceiling assemblies shall be provided with independent support.”

## **SECTION 5.**

**SECTION 4.2.165 - Sewage ejector pumps and sump pumps** is hereby amended to read as follows:

~~“In a dwelling, a~~ “Ground fault circuit interrupter protection shall not be required on a sewage ejector pump or sump pump that is cord and plug connected to a single receptacle installed on a dedicated an individual motor branch circuit.”

## **SECTION 6.**

**SECTION 4.2.170 – Conduit bodies** is hereby repealed.

~~“Section 314.28 of the National Electrical Code shall be amended to read as follows: Boxes and conduit bodies trade size over two (2) inches used as pull or junction boxes shall comply with 314.28(A) through (E).”~~

## **SECTION 7.**

**SECTION 4.2.175 – Arc-Fault Circuit Interrupter Protection** is hereby repealed.

~~“A listed arc fault circuit interrupter shall be installed to provide protection as required in (A), (B) and (C).~~

~~(A) Dwelling Unit Bedrooms. All 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets and devices installed in dwelling unit bedrooms shall be protected by a listed arc fault circuit interrupter, combination type installed to provide protection of the branch circuit.~~

**Exception:** ~~The location of the arc fault circuit interrupter shall be permitted to be at other than the origination of the branch circuit in compliance with (a) and (b):~~

~~(a) The arc fault circuit interrupter installed within six (6) feet of the branch circuit overcurrent device as measured along the branch circuit conductors.~~

~~(b) The circuit conductors between the branch circuit overcurrent device and the arc fault circuit interrupter shall be installed in a metal raceway or a cable with a metallic sheath.~~

~~(B) Branch Circuit Extensions or Modifications— Dwelling Units. In any of the areas specified in 4.2.175(A) of this Code, where branch circuit wiring is modified, replaced, or extended, the branch circuit shall be protected by one of the following:~~

- ~~(1) A listed combination type AFCI located at the origin of the branch circuit~~
- ~~(2) A listed outlet branch circuit type AFCI located at the first receptacle outlet of the existing branch circuit~~

~~*Exception: AFCI protection shall not be required where the extension of the existing conductors is not more than six (6) feet and does not include any additional outlets or devices.*~~

~~(C) Dormitory Units. All 120 volt, single phase, 15 and 20 ampere branch circuits supplying outlets and devices installed in dormitory unit bedrooms shall be protected by a listed arc fault circuit interrupter meeting the requirements of 4.2.175(A) of this Code, including exceptions.”~~

## **SECTION 8.**

***SECTION 4.2.195 – Pools shall not be located under overhead wiring is hereby amended to read as follows:***

“Section ~~680.8~~ 680.9 of the National Electrical Code shall be amended to read as follows: The following parts of pools shall not be placed under existing electrical, communications, CATV, Network powered Broadband conductors or any other overhead wiring; nor shall such wiring be installed above the following:

1. Pools and the area extending 10 ft horizontally from the inside of the walls of the pool,

2. Diving structure, or
3. Observation stands, towers or platforms.”

## ***SECTION 9.***

### ***SECTION 4.2.205. – Permitted use of Underground Residential Distribution (URD)***

***cable is hereby amended to read as follows:***

“Underground Residential Distribution (URD) cable may be installed as an approved wiring method for outdoor use only, with the following restrictions.

- (a) Permitted for outdoor use only, installed direct buried or in a raceway.
- (b) Minimum size shall be #2 Aluminum.
- (c) The phase conductors and the neutral conductor shall be the same size.
- (d) The phase conductors and the neutral conductor insulation shall be identified as USE.
- (e) The Neutral conductor shall be properly identified per the National Electrical Code.
- (f) Grounding conductor, if needed, shall be a minimum of #2 aluminum or #6 copper and shall be insulated.
- (g) The ampacity of the conductors must comply with the values for the respective size and conductor material as listed in the seventy-five degree (75%  $\varnothing$ ) column of the Ampacity Tables of the latest adopted edition of the National Electrical Code.”

## **SECTION 10.**

**SECTION 4.2.210 – Temporary Construction Service Requirements** is hereby amended to read as follows:

“Temporary services used during construction, remodeling or repair of buildings or structures shall not be attached to a building. The temporary service shall have a minimum of one 125-volt 20-amp GFCI protected receptacle and one 125/250-volt 30-amp GFCI protected twist lock receptacle NEMA L14-30, and meet all other requirements of the latest edition of the National Electrical Code adopted by the MABCD.

Exception: In-use covers are not required for construction services.”

## **SECTION 11.**

**SECTION 4.2.220 – Conduits exposed to sunlight on rooftops** is hereby repealed.

~~“Where conductors or cables are installed in conduits with a horizontal length exceeding six (6) feet and exposed to direct sunlight on or above rooftops, the adjustments shown in Table 310.15(B)(3)(c) of the National Electrical Code shall be added to the outdoor temperature to determine the applicable ambient temperature for application of the correction factors in Table 310.15(B)(16) and Table 310.15(B)(18) of the National Electrical Code.”~~

## **SECTION 12.**

The originals of Sections 4.A.070, 4.2.010, 4.2.070, 4.2.150, 4.2.165, 4.2.170, 4.2.175, 4.2.195, 4.2.205, 4.2.210 and 4.2.220 are hereby repealed.

***SECTION 13.***

This ordinance shall be included in the Wichita/Sedgwick County Unified Building and Trade Code, and shall be effective upon its passage and publication of ~~a summary of~~ This Ordinance once in the official city paper.

PASSED by the governing body of the City of Wichita, Kansas, this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

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Jeff Longwell, Mayor

ATTEST:

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Karen Sublett, City Clerk

Approved as to Form:

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Jennifer Magana, Director of Law