

ORDINANCE NO. 16,464

AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by amending Section 26-325.4 relating to storm shelters for educational occupancies, Sections 26-400 26-406, 26-407 and 26-409, relating to the electrical code, Sections 26-500 and 26-502 relating to the mechanical code, and Sections 26-601, 26-642, 26-651, 26-652, 26-653 and 26-654 relating to the plumbing code.

Be It Ordained by the City Council of the City of Des Moines, Iowa:

Section 1. That the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, heretofore amended, by amending Section 26-325.4 relating to storm shelters for educational occupancies, Sections 26-400 26-406, 26-407 and 26-409, relating to the electrical code, Sections 26-500 and 26-502 relating to the mechanical code, and Sections 26-601, 26-642, 26-651, 26-652, 26-653 and 26-654 relating to the plumbing code, as follows:

Sec. 26-325.4. Storm shelters for educational occupancies.

Delete section 423.5 including subsections 423.5.1 and 423.5.2 and insert in lieu thereof the following new section.

423.5 Group E occupancy. In areas where the shelter design wind speed for tornadoes in 250 mph in accordance with Figure 304.2 (1) of ICC 500, all Group E occupancies with a program occupant load of 50 or more shall have a storm shelter constructed in accordance with Chapters 1 through 5 & 8 of ICC 500.

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Sec. 26-400. Adoption of the State Electrical Code.

- (a) Except as otherwise provided in this article, the State Electrical Code adopted pursuant to 661 I.A.C. 550.3 or any successor provision thereto and as amended by 661 I.A.C. 550.3 (1),(2) &(3) or any successor provision thereto is hereby adopted by the City of Des Moines pursuant to Iowa Code section 103.6 and incorporated into this article as though fully set forth herein. The remaining subsections of 661 I.A.C. Chapter 550 are also incorporated by this reference to the extent necessary to implement, interpret or enforce the adopted code.
- (b) This article and all provisions incorporated in this article, by reference or otherwise, shall be known as the electrical code. References to section numbers not preceded by "26-" will be to articles in the State Electrical Code.

Sec. 26-406. Amendments and additions.

- (a) The remaining sections in this article are and represent amendments and additions to the requirements contained in the State Electrical Code which are more restrictive than the

State Electrical Code, and where their requirements conflict with those of the State Electrical Code, the requirements of this article shall prevail.

Sec. 26-407. Scope.

- (a) The provisions of this article shall apply to the following:
 - (1) The electrical conductors and equipment installed within or on public and private buildings and other premises.
 - (2) The conductors that connect the installations to a supply of electricity, and other outside conductors adjacent to the premises.
 - (3) Mobile homes.
- (b) Additions to, alterations of, and repairs to existing electrical equipment shall comply with the electrical code. Furthermore, existing electrical equipment that is temporarily exposed or made accessible because of any remodeling or repair of an existing structure, shall be made to comply with the electrical code. In any event, the building official may, when any additions, alterations, or repairs are made, order other reasonable additions or alterations in the electrical equipment of a structure or on any premises when a danger to life or property may result if such other additions or alterations were not made.
- (c) Installations which were in compliance with the electrical code in existence at the time such installations were made shall be presumed to be safe and proper, which presumption can be rebutted by evidence that the installation may be dangerous to life or property.
- (d) If the classification of a building has been changed due to a change in occupancy, the wiring in the entire building shall comply with all the electrical standards applicable to the new classification. If the occupancy of a building has been changed to a mixed occupancy, with the required fire separation between the mixed occupancy, each occupancy shall comply with its own particular classification and shall be wired in compliance with the electrical standards of its particular classification.
- (e) No permits are required for electrical wiring of 50 volts or less. Such systems shall comply with the State Electrical Code.
- (f) The provisions of sections 26-135 through 26-143 and 26-450 through 26-451, inclusive, of this article shall not apply in any respect to persons who are licensed by law to engage in the business of supplying and distributing electricity or the transmission of communication, when the person is installing, operating or maintaining electrical equipment or doing electrical work as an integral part of such business.
- (g) Whenever service entrances are altered or upgraded, residential structures shall be updated throughout to the requirements consistent with the electrical code in accordance with the City of Des Moines Electrical Residential Update Requirements, as amended from time to time.

Sec. 26-409. Service entrance requirements.

- (a) All service entrances in and upon buildings and structures within the city shall be of the class known as "rigid metal conduit (RMC), intermediate metallic conduit (IMC), or electrical metallic tubing (EMT)," except as provided in this section.
- (b) Underground service entrances for all buildings except in single-family, two-family, and row dwellings shall be of moisture resistant wire installed in rigid metal conduit or

approved non-metallic raceway such as schedule 40 polyvinylchloride (PVC) or its equivalent.

- (c) Other provisions of this section to the contrary notwithstanding, that portion of an underground service lateral that is installed by an electrical contractor, but is owned and maintained by a business licensed by law to engage in the business of supplying and distributing electricity, may be of a type used by such a business for such an installation.
- (d) All direct burial cable used by the utility company for the purpose of distributing electrical current within the city, shall be placed and located in the ground a minimum depth of 30" below the proposed final grade. No separation shall be required between electrical conductors and communications conductors when laid in a common trench.
- (e) Underground service entrance risers, to the meter, may be schedule 40 PVC, when not subject to physical damage.

Sec. 26-500. Adoption of State Mechanical Code.

- (a) Except as otherwise provided in this article, the State Mechanical Code adopted pursuant to 481 I.A.C. 426.2 or any successor provision thereto and as amended by 481 I.A.C. 426.3 or any successor provision thereto is hereby adopted by the City of Des Moines pursuant to Iowa Code section 105.4 and incorporated into this article as though fully set forth herein. The remaining subsections of 481 I.A.C. Chapter 426 are also incorporated by this reference to the extent necessary to implement, interpret, or enforce the adopted code.
- (b) This article and all provisions incorporated in this article, by reference or otherwise, shall be known as the mechanical code. References to section numbers not preceded by "26-" will be to sections in the State Mechanical Code.

Sec. 26-502. Mechanical permit exemptions.

The following are also excluded from the mechanical permit requirements

1. Portable heating *appliances*.
2. Portable ventilation *appliances* and *equipment*.
3. Portable cooling units.
4. Steam, hot water or chilled water piping within any heating or cooling *equipment* or *appliances* regulated by this code.
5. The replacement of any minor part that does not alter the approval of *equipment* or an *appliance* or make such *equipment* or *appliance* unsafe.
6. Portable evaporative coolers.
7. Self-contained *refrigeration systems* that contain 10 pounds (4.5 kg) or less of refrigerant, or that are actuated by motors of 1 horsepower (0.75 kW) or less.
8. Portable fuel cell *appliances* that are not connected to a fixed piping system and are not interconnected to a power grid.

Sec. 26-601. Adoption of State Plumbing Code.

- (a) . Except as otherwise provided in this article, the State Plumbing Code adopted pursuant to 481 I.A.C. 425.1 and 425.3 or any successor provision thereto and as amended by 481 I.A.C. 425.4 or any successor provision thereto is hereby adopted by the City of Des

Moines pursuant to Iowa Code section 105.4 and incorporated into this article as though fully set forth herein. The remaining subsections of 481 I.A.C. Chapter 425 are also incorporated by this reference to the extent necessary to implement, interpret, or enforce the adopted code.

- (b) This article and all provisions incorporated in this article, by reference or otherwise, shall be known as the plumbing code. References to section numbers not preceded by "26-" will be to sections in the State Plumbing Code.

Sec. 26-642. Grease interceptors and FOG.

Regulation of Fat Oil and Grease (FOG) and sizing of FOG removal devices shall be in accordance with chapter 118, article III of this code for the regulation of industrial wastewater and commercial wastewater. Grease drainage lines shall be clearly identified by one of the following ways:

- (1) Stenciled with "Grease Drainage". Letters size shall be 1½" for 2" piping, and 2" for 3" and larger piping. Stenciling shall be applied every 3 feet of piping and labeled at the future stubbed locations; or
- (2) Prior approval of an identification system approved by the AHJ.

Sec. 26-650. General requirements.

Parking lot and retention pond drains. Parking lot and retention pond drains shall be installed as directed by the city engineer and in accordance with the approved site plan, a copy of which shall be available on the job site.

Sec. 26-651. Outside leaders.

When outside leaders are of sheet metal and connected with a building storm drain or storm sewer, they shall be connected to a cast iron drain extending above the finish grade, or the sheet metal leader shall be protected against injury.

Sec. 26-652. Traps.

Conductor traps shall be so located that an accessible cleanout may be installed on the building side of the trap.

Sec. 26-653. Size of leaders and storm drains.

Vertical leaders, horizontal storm drains, and gutters shall be sized based on a 4 inch per hour rainfall.

Sec. 26-654. Size of combined drains and sewers.

In computing the size of combined building drains or sewers to which storm drains serving a roof, court, or paved area are to be connected, the area drained may be converted to equivalent

fixture unit loads by placing a value of 256 fixture units on the first 1,000 square feet or portion thereof of area to be drained and one additional fixture unit for each 3.9 square feet thereafter.

Section 2. This ordinance shall be in full force and effect from and after its passage and publication as provided by law.

FORM APPROVED: Gary D. Goudelock Jr. , Assistant City Attorney

Connie Boesen, Mayor

Attest: I, Laura Baumgartner, City Clerk of the City of Des Moines, Iowa, hereby certify that the above and foregoing is a true copy of an Ordinance (Roll Call No. 25-0707), passed by the City Council of said City at the meeting held on May 5, 2025 and signed by the Mayor on May 5, 2025 and published and provided by law in the Business Record on May 23, 2025. Authorized by Publication Order No. 13021.

Laura Baumgartner, City Clerk