

**ORDINANCE 15071**

**AN ORDINANCE TO AMEND THE CODE OF ORDINANCES, CITY OF MARSHALLTOWN, IOWA, BY REPEALING CHAPTER 151, SECTIONS 151.001 THROUGH 151.003: BUILDING CODE AND ADOPTING A NEW CHAPTER 151, SECTIONS 151.001 THROUGH 151.003: BUILDING CODE WHICH ADOPTS BY REFERENCE THE 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL RESIDENTIAL CODE, 2021 INTERNATIONAL EXISTING BUILDING CODE, 2021 INTERNATIONAL MECHANICAL CODE, 2012 INTERNATIONAL ENERGY CONSERVATION CODE, 2021 UNIFORM PLUMBING CODE AS ADOPTED BY THE STATE OF IOWA, AND THE 2020 NATIONAL ELECTRICAL CODE AS CURRENTLY USED BY THE STATE OF IOWA, AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CHAPTERS 54 AND NFPA 58 WITH CERTAIN AMENDMENTS**

**WHEREAS**, the City of Marshalltown Housing Department reviews building code regulations as necessary and recommends approval of the 2021 Edition of the International Codes, specifically the International Building Code (IBC), the International Residential Code (IRC), the International Mechanical Code (IMC), the International Existing Building Code (IEBC), and the 2012 Edition of the International Energy Conservation Code (IECC), as published by the International Code Council, INC. in cooperation with the International Conference of Building Officials of Whittier, California. Additionally, the 2020 Edition National Electric Code, as adopted by the State of Iowa, the 2021 Edition Uniform Plumbing Code, as published by the International Association of Plumbing and Mechanical Officials of Ontario, California, and the National Fire Protection Association (NFPA) Chapters 54 and 58, as published by the National Fire Protection Association, Quincy, Massachusetts. The provisions of said building code shall be controlling for the erection, construction, enlargement, alteration, repair, moving, removal, conversion, demolition, occupancy, equipment, use, height, area, and maintenance of buildings and structures, including installation of mobile, manufactured and modular homes; to provide for the issuance of permits and collection of fees; and to provide penalties for violations.

**WHEREAS**, recommendations have been presented to the City Council to repeal the current Chapter 151, Sections 151.001 through 151.003: Building Code, consisting of the International Building Code (IBC), 2015 Edition as amended, and enacting and adopting a new Chapter 151, Sections 151.001 through 151.003 in lieu thereof entitled Building Code, being this ordinance hereafter set out, which adopts by reference with certain amendments, the 2021 Edition of the International Codes, specifically the International Building Code (IBC), the International Residential Code (IRC), the International Mechanical Code (IMC), the International Existing Building Code (IEBC), and the 2012 Edition of the International Energy Conservation Code (IECC), as published by the International Code Council, Inc., the 2021 Uniform Plumbing Code as published by the International Association of Plumbing and Mechanical Officials, the 2020 Edition of the National Electric Code, as adopted by the State of Iowa, and the National Fire Protection Association (NFPA) Chapters 54 and 58, as published by the National Fire Protection Association, regulating the erection, construction, enlargement, alteration, repair, moving, removal, conversion, demolition, occupancy, equipment, use, height, area, and maintenance of

buildings and structures, including installation of mobile, manufactured and modular homes; to provide for the issuance of permits and collection of fees; and to provide penalties for violations.

**WHEREAS**, the City Council of the City of Marshalltown finds it is in the best interest of the City to amend Chapter 151: Building Regulations; Construction of the City of Marshalltown.

**NOW THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF MARSHALLTOWN, IOWA:**

**Section I.** Chapter 151 of the Code of Ordinances, City of Marshalltown, Iowa, is amended by striking Sections 151.001 through 151.003 inserting in lieu thereof the following:

**Sec. 151.001. Adoption of Building Code.**

Unless specifically provided for in other codes or city ordinances, the 2021 Edition of the International Codes, specifically the International Building Code (IBC), the International Residential Code (IRC), the International Mechanical Code (IMC), the International Existing Building Code (IEBC), and the 2012 Edition of the International Energy Conservation Code (IECC), as published by the International Code Council, Inc., the 2021 Uniform Plumbing Code as published by the International Association of Plumbing and Mechanical Officials, the 2020 Edition of the National Electric Code, as adopted by the State of Iowa, and the National Fire Protection Association (NFPA) Chapters 54 and 58, as published by the National Fire Protection Association, and except as modified as to portions thereof as are deleted, substituted, redefined, or inserted in this article, is adopted by reference, is on file with the City Clerk and is fully incorporated as the Building Code of Marshalltown. The provisions of said Building Code shall be controlling for the erection, construction, enlargement, alteration, repair, moving, removal, conversion, demolition, occupancy, equipment, use, height, area, and maintenance of buildings and structures, including installation of mobile, manufactured and modular homes; to provide for the issuance of permits and collection of fees; and to provide penalties for violations.

**Sec. 151.002. Amendments, definitions, substitutions, modifications, additions, or deletions to the Building Code.**

The following amendments, definitions, substitutions, modifications, additions, or deletions to the International Building Code (IBC), 2021 Edition are made.

(A) Section 101.1 Title is amended to read as follows:

These regulations shall be known as the Building Code of the City of Marshalltown, hereinafter referred to as “this code”. Any reference to a Section number shall mean to this code unless stated otherwise.

(B) Section 104.2 Applications and permits is amended to read as follows:

The Building Official shall receive applications, review construction documents and issue permits for the erection and alteration of buildings and structures, inspect the premises for which such permits have been issued, and enforce compliance with the provisions of this code.

(1) To obtain a permit the applicant shall first file:

- (a) For the contractors required to register with the State of Iowa as a construction contractor, proof of registration must be presented to the Building Official or specified intergovernmental agency, if so designated by the Building Official.
  - (b) All contractors requesting a building permit shall execute and file with the Marshalltown Building Official or specified intergovernmental agency if so designated by the Building Official, a certificate of insurance written by a company authorized to transact business in the State of Iowa. Limits shall not be less than \$500,000 in personal injury or death and \$100,000.00 in property damage.
  - (c) Certificate shall be written on a standard form and carrying an endorsement naming the City of Marshalltown, Iowa, and its employees, or specified intergovernmental agency, if so designated by the Building Official, as additional insured, as its interest may appear and conditioned upon faithful performance of all duties required of such contractor by any ordinances, rules, and regulations of the City. It shall be further a condition of said certificate of insurance, that the obligator will hold the City, or specified intergovernmental agency, if so designated by the Building Official, harmless from any and all damages sustained by reason of neglect or incompetence on the part of such contractor, his/her agents or employees in the performance of the work done under a license or permit issued upon the filing of said certificate.
  - (d) The certificate of insurance shall be issued by December 31<sup>st</sup> of each year and shall be refilled on or before said date each subsequent year and shall be continuous full force and effect. It is the intent and purpose of said certificate of insurance to also bind the individuals, company, firm, association, or partnership, whether it is trade name, corporation, or other business association or arrangement with which the principal is associated.
  - (e) Homeowners working in their own principal residence shall be exempt from filing said certificate.
- (2) Where a person desires to remodel or repair any residential building or structure of which they are the owner or owner of record:
- (a) Such work may be done by a member of the household, without requiring the certificate of insurance otherwise required by this section.
  - (b) Required permits shall be necessary for all remodel or repair work.
  - (c) No owner or owner of record shall replace, remodel, or repair any electrical or heating on any property that they are not the owner/occupant.
  - (d) Plumbing in any building is required to be performed by a licensed plumbing contractor, licensed with the City of Marshalltown.

(C) Section 105.2 Work exempt from permits is amended to read as follows:

Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:

- (1) One-story detached accessory structures provided that the floor area does not exceed 120 square feet; however, site approval shall be obtained from the zoning department.
- (2) Fences not over 6 feet (1829 mm) high.
- (3) Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade, and not over any basement or story below, and not part of any accessory route.

- (4) Prefabricated swimming pools that are less than 24 inches (610 mm) deep, are not greater than 5,000 gallons (18 925 L), and are installed entirely above ground.
- (5) Painting, papering, tiling, carpeting, cabinets, countertops, and similar finish work.
- (6) Temporary motion picture, television, and theater stage sets and scenery.
- (7) Swings and other playground equipment accessory to detached one-and-two-family dwellings.

(D) Section 105.6.1 Revocation of permit is added to read:

It shall be the permit holder's responsibility to schedule the required inspections and obtain final approvals. Failure to schedule the required inspections and receive approval of work authorized by the permit before covering said work or at completion shall result in revocation of the permit and void any associated approvals granted by the City. This failure shall also equate to working without a permit in violation of City ordinance and no future permits shall be issued to any person or company who has outstanding violations of this code or any other laws or ordinances of the City. Failure to contact the City for any inspection or follow-up prior to expiration of a permit shall be deemed a violation of this code section. Failure to contact the City for any inspection or follow-up prior to expiration of a Temporary Certificate of Occupancy shall also be deemed a violation of this code. Allowing occupancy of a structure, for which a person or company holds a building permit, prior to or without a valid Certificate of Occupancy (temporary or final) shall be deemed a violation of this code section and no future permits shall be issued to any person or company who has outstanding violations of this code or any other laws or ordinances of the City.

(E) Section 109.2 Schedule of permit fees is amended to read as follows:

Where a permit is required, a fee for each permit shall be paid as required, in accordance with the City of Marshalltown Fee Schedule as adopted.

(F) Section 109.3 Building permit valuations is amended to read as follows:

The applicant for a permit shall provide an estimated permit value at time of application. The building valuation will be derived from the construction costs for the total work submitted by the contractor or the most current building valuation data schedule published by the International Code Council (ICC). Submitted contractor valuation shall not be less than derived valuation through ICC. Published data is utilized by the Administrative Official in an effort to maintain consistency and fairness for permit fee calculations. It is not intended to reflect actual taxable value.

(G) Section 109.4 Work commencing before permit issuance: is amended to read as follows:

Any person who commences work on a building, structure, electrical, gas, mechanical, or plumbing system before obtaining the necessary permit shall be subject to an investigation fee equal to the amount of the permit fee. The fee shall be collected whether or not a permit is issued.

(H) Section 109.6 Refunds is amended to read as follows:

The Building Official may authorize the refunding of any fee paid hereunder, which is erroneously paid or collected. The Building Code Official shall not authorize the refunding of any fee paid, except upon written application filed by the original permittee, within one hundred eighty (180) days from the date of the fee payment.

(I) Section 113.3 Qualifications is amended to read as follows:

The Board of Appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to building construction and are not employees of the jurisdiction. The Board shall be appointed by the Mayor, subject to approval by the City Council. The Board shall render a decision within thirty days from the time the matter is submitted to it and shall render their decision in writing to the Building Official with a duplicate copy to the appellant. The terms of each member shall be five years provided, however, that the original appointments to the Board shall be as follows:

- (1) One (1) member appointed for an initial one (1) year term.
- (2) One (1) member appointed for an initial two (2) year term.
- (3) One (1) member appointed for an initial three (3) year term.
- (4) One (1) member appointed for an initial four (4) year term.
- (5) One (1) member appointed for an initial five (5) year term.

The existing Board shall continue under current appointments.

(J) Section 116 Unsafe Structures and Equipment is deleted in its entirety. Refer to Chapter 151, Building Regulations; Dangerous Buildings of the City of Marshalltown Code of Ordinances.

(K) Section 308.5.4 Five or fewer persons receiving care in a dwelling unit is amended to read as follows:

Section 308.5.4 Eight or fewer persons receiving care in a dwelling unit.

A facility such as the above within a dwelling unit and having eight or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the International Residential Code (IRC).

Exception:

Daycare facilities that provide custodial care for 16 or fewer persons for less than 24 hours per day in a single-family dwelling, and where registered with the State of Iowa Department of Human Services as a child development home are permitted to comply with the International Residential Code (IRC).

(L) Section 310.4.1 Care facilities within a dwelling is amended to read as follows:  
Care facilities within a dwelling shall adhere to Section 308.5.4.

(M) Section 423.5 Group E occupancy is amended to read as follows:

In areas where the shelter design wind speed for tornadoes is 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 and 8 of ICC 500.

Exceptions:

- (1) Group E day care facilities.
- (2) Group E occupancies accessory to place of religious worship.
- (3) Buildings meeting the requirements for shelter design in ICC 500.
- (4) Accessory structures to existing Group E sites where the occupancy classification of said structures are classified as Groups A-5 and U.

(N) Section 423.5.1 Required occupant load is amended to read as follows:

The required occupant capacity of the storm shelter shall include all buildings classified as a Group E occupancy on the campus or site (whichever is larger) and shall be the greater of the following:

- (1) The total occupant load of the classrooms, vocational rooms, and offices in the Group E occupancy.
- (2) The occupant load of any indoor assembly space is associated with the Group E occupancy.

Exceptions:

- (1) Where a new building is being added on an existing Group E site, and where the new building is not of sufficient size to accommodate the required occupant capacity of the storm shelter for all of the buildings on-site, the storm shelter shall at a minimum accommodate the required capacity for the new building.
- (2) Where approved by the code official, the required occupant capacity of the shelter shall be permitted to be reduced by the occupant capacity of any existing storm shelters on the campus or site.

(O) Section 423.5.2 Location is amended to read as follows:

Storm shelters shall be located within buildings they serve, or shall be located where the maximum distance of travel from not fewer than one (1) exterior door of each building to a door of the shelter serving that building does not exceed 1,000 feet. The installation of portable buildings for utilization on the campus or site for educational purposes is considered new construction and classified as Group E occupancies.

Exception:

Existing schools undergoing alterations, additions, or construction of new accessory buildings.

(P) Section 502.1 Address identification is amended to read as follows:

New and existing buildings shall have approved address numbers, building numbers, or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall be black or white and shall contrast with their background. Where required by the fire code official, address numbers shall be provided in greater dimensions or additional approved locations to facilitate emergency response. Address numbers shall be Arabic numbers or alphabetical letters. Numbers and letters shall be a minimum height and minimum stroke width as dictated by Table 502.1. where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole, or other sign or means shall be used to identify the structure. Address numbers shall be maintained.

(Q) Table 502.1 Minimum height and stroke width is amended to read as follows:

Distance from the centerline of the public way (ft)	Minimum Height (in)	Minimum Stroke Width (in)
Less than 100	4	1/2
100 – 199	6	3/4
200 – 299	8	1
For each additional 100	Increase 2	Increase 1/2

- a) Exterior suite identification, minimum height shall be 4 inches and stroke width 1/2 inch.
- b) Interior suite identification, minimum height shall be 2 inches and stroke width shall be 1/4.inch.

(R) Section 716.2.6.1 Fire door hardware and closures is amended to read as follows:

Fire doors shall be latching and self or automatic-closing in accordance with this section. UL-listed hinges may only be installed on the dwelling room entry door.

Exceptions:

- (1) Fire doors located in common walls separating sleeping units in Group R-1 shall be permitted without automatic- or self-closing devices.
- (2) The elevator car doors and the associated hoistway enclosure doors at the floor level
- (3) designated for recall in accordance with Section 3003.2 shall be permitted to remain open during Phase I emergency recall operation.

(S) Section 902.1.1.1 Fire sprinkler riser room is added:

A fire sprinkler riser room shall be separated from the electrical room. The riser room shall have no electrical panels, devices, or apparatus inside the room other than the outlets or support equipment (lighting, air compressor, and heater) required for the use of the fire sprinkler system and/or the fire alarm panel. The sprinkler riser room shall not be accessed from the electrical room, but the electrical room may be accessed from the fire sprinkler riser room.

(T) Section 902.1.5 Temperature sensor is added:

A low temperature sensor shall be provided in the fire sprinkler riser room. The low temperature sensor shall be monitored to prevent freezing.

(U) Section 903.2.8.5 Group R one – and two-family dwellings is added as follows:

An automatic residential fire sprinkler system shall be installed in one- and two-family dwellings.

Exceptions:

- (1) An automatic fire sprinkler system shall not be required where additions or alterations are made to existing buildings that are not already provided with an automatic residential fire sprinkler system.
- (2) One- and two-family dwellings containing less than eight thousand (8,000) square feet of floor space, excluding attached garages and other enclosed areas.

(V) Section 903.2.11.1.3 Basements is amended to read as follows:

Where any portion of a basement is located more than 75 feet (22 860 mm) from openings required by Section 903.2.11.1, the basement shall be equipped throughout with an approved automatic sprinkler system.

(W) Section 903.3.1.2 NFPA 13R sprinkler systems is amended to read as follows:

Automatic sprinkler systems in Group R occupancies shall be permitted to be installed throughout in accordance with NFPA 13R where the Group R occupancy meet all of the following conditions:

- (1) Four stories or fewer above grade plane.
- (2) The floor level of the highest story is 35 feet (10 668 mm) or less above the lowest level of fire department vehicle access.
- (3) The floor level of the lowest story is 35 feet (10 668 mm) or less below the lowest level of fire department vehicle access.

(X) Section 903.4.2 Alarms is amended to read as follows:

An approved weatherproof audible device suitable for outdoor use with 110 candela visual signal shall be connected to every automatic fire sprinkler system. Such sprinkler water-flow alarm

devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Alarm devices shall be provided on the exterior of the building in an approved location. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

(Y) Section 915.1 Carbon monoxide general is amended to read as follows:

Carbon monoxide detection shall be installed in new buildings in accordance with Sections 915.1.1 through 915.6. Carbon monoxide detection shall be installed in existing buildings in accordance with Chapter 11 of the IFC and Iowa Administrative Code 661-211.

(Z) Section 1008.3.3 Rooms and Spaces is amended to read as follows:

In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following areas:

- (1) Electrical equipment rooms.
- (2) Fire command centers.
- (3) Fire pump rooms.
- (4) Generator rooms.
- (5) Public restrooms with an area greater than 400 square feet.
- (6) Meeting and conference rooms with an area greater than 400 square feet.
- (7) Classrooms in a Group E occupancy with an area greater than 400 square feet.

(AA) Section 1009.2 Continuity and components is amended to read as follows:

Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:

- (1) Accessible routes comply with Section 1104.
- (2) Interior exit stairways comply with Sections 1009.3 and 1023.
- (3) Exit access stairways complying with Sections 1009.3 and 1019.3 or 1019.4.
- (4) Exterior exit stairways comply with Sections 1009.3 and 1027 and serving levels other than the level of exit discharge.
- (5) Elevators complying with Section 1009.4
- (6) Platform lifts comply with Section 1009.5.
- (7) Horizontal exits comply with Section 1026.
- (8) Ramps complying with Section 1012.
- (9) Areas of refuge complying with Section 1009.6.
- (10) Exterior areas for assisted rescue comply with Section 1009.7 serving exits at the level of exit discharge.
- (11) Components of exterior surfaces shall be concrete, asphalt, or other approved hard surfaces.

(BB) Section 1010.1.6.1 Landings is added:

For landings required by Section 1010.1.5 to be at the same elevation on each side of the door, exterior landings at doors shall be provided with frost protection.

(CC) Section 1010.2.2 Hardware is amended to read as follows:



Door handles, pulls, latches, locks, and other operating devices on doors required by Chapter 11 shall not require tight grasping, tight pinching, or twisting of the wrist to operate. Thumb turn locks shall not be allowed.

(DD) Section 1013.1.1 Additional exit signs is added:

Exit signs may be required at the discretion of the Administrative Official to clarify an exit or exit access.

(EE) Sections 1013.5, 1013.6, 1013.6.1, 1013.6.2, and 1013.6.3 are deleted.

(FF) Section 1028.5.1 Components of exterior walking surfaces is added:

Components of exterior walking surfaces shall be concrete, asphalt, or other approved hard surfaces.

(GG) Section 1301.1 Scope is amended to read as follows:

The provisions of the International Energy Code as currently adopted and amended by the Iowa State Building Code Bureau shall apply to all matters governing the design and construction of buildings for energy efficiency. Administration shall be prescribed in Chapter 1 of the current State adoption of the IECC and these regulations shall be known as the City of Marshalltown Energy Code.

(HH) Section 1608.2 Ground snow loads is amended to read as follows:

For the purposes of determining snow loads, the minimum ground snow load for design purposes shall be 30 pounds per square foot. Subsequent increases or decreases shall be allowed as otherwise provided in this code, except that the minimum allowable flat roof snow load may be reduced to not less than 80 percent of the ground snow load.

(II) Section 1609.1.1 Determination of wind loads is amended to read as follows:

For the purposes of determining wind loads, the minimum basic wind speed shall be considered as 115 miles per hour; except when referenced documents are based on fastest mile wind velocities, Table 1609.3 (1) shall be used.

(JJ) Section 1807.1 Foundation retaining walls for Group R occupancies is amended to read as follows:

Foundation walls shall be designed and constructed in accordance with Sections 1807.1.1 through 1807.1.6. Foundation walls shall be supported by foundations designed in accordance with Section 1808.

(1) Scope: Notwithstanding other design requirements of Chapters 18, 19, and 21 of the IBC, foundation retaining walls for Group R occupancies of Type V construction may be constructed in accordance with this section, provided that the use or building site conditions affecting such walls are within the limitations specified in this section.

(2) Specifications. General specifications for such foundation retaining walls shall be as follows:

**Table 1801.7 – Foundation Walls for Conventional Light Frame Construction**

Height of Foundation Wall (Net measured from Top of basement slab to top of foundation wall)*		Thickness of Foundation Walls Unit		Reinforcement type and placement within foundation wall	Reinforcement type and placement within foundation wall** (maximum 12' span between corners and	Type of Mortar
Gross	Net	Concrete	Masonry	Concrete	Masonry	Masonry
8	7' 8"	7 ½"	8"	½" horizontal bars, placement in the middle, and near the top & bottom – Y2" bars @ 6' max vertically	0.075 square inch bar 8' o.c. vertically in fully grouted cells. If block is 12" nominal thickness, may be unreinforced.	Type M or S grout & mortar shall meet provisions of Chapter 21 IBC
9	8' 8"	8"	See Chapter 18 IBC	½" bars 2' o.c. horizontally & 20" vertically o.c.	See Chapter 18 IBC	Same as above
10	9' 8"	8"	See Chapter 18 IBC	5/8" bars 2' o.c. horizontally & 30" vertically o.c.	See Chapter 18 IBC	Same as above
<ul style="list-style-type: none"> <li>Concrete floor slabs to be nominal 4". If such floor slab is not provided prior to backfill, provide 1.) 36" embedded in the footing at maximum 7' o.c. spacing and/or; 2.) Full depth nominal 2" depth x 4" width keyway in footing.</li> <li>All reinforcement bars shall meet ASTM A6175 grade 40 minimum and deformed. Placement of the center of wall and meet the provisions of Chapters 18, 19, and 20 of the IBC.</li> </ul>						
NOTE: Cast in place concrete shall have a compressive strength of 3,000 lbs. at 30 days. Footings shall reinforcement of minimum of 2 – ½" diameter rebar throughout. Placement of reinforcement and requirements of Chapter 19 of the IBC.						
NOTE: Material used for backfilling shall be carefully placed granular soil of average or high drained with approved drainage system as prescribed in Section 1805.4 of the IBC containing a high percentage of clay, fine silt, or similar materials of low permeability or expansive soils where backfilled materials are not drained or an unusually high surcharge is to be placed adjacent to the designed wall shall be required.						
NOTE: Foundation plate of sill anchorage shall be installed in accordance with the respective codes as applicable.						

(KK) Section 1809 – Table 1809.7 Foundation for stud bearing walls is amended to read as follows:

Number of Stories	Thickness of Foundation Walls Unit		Minimum width of footing (inches)	Thickness of footing (inches)	Minimum depth of foundation below natural surface of ground & finish grade (inches)
	Concrete	Masonry			
1	8	8	16	8	42
2	8	8	16	8	42
3	10	10	18	12	42

(LL) Chapters 27, 28, and 29 are deleted in their entirety.

**Sec. 151.002. Amendments, Modifications, Additions, and Deletions to the International Residential Code (IRC), 2021 Edition.**

(A) Section R101.1 Title is amended to read as follows:

These provisions shall be known as the Residential Code for One- and Two-family dwellings of the City of Marshalltown, and shall be cited as such and will be referred to herein as “this code”.

(B) Section R105.2 Work exempt from permit is amended to read as follows:

Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

Building:

- (1) One-story detached accessory structures provided that the floor area does not exceed 120 square feet; however, site plan approval shall be obtained from the zoning department.
- (2) Fences not over 6 feet (1829 mm) tall.
- (3) Painting, papering, tiling, carpeting, cabinets, countertops, and similar finish work.
- (4) Sidewalks shall be permitted and installed in accordance with approved site plans for individual lot development.
- (5) Swings and other playground equipment.
- (6) Decks not exceeding 200 square feet (18.58 m<sup>2</sup>) in area, that are not more than 30 inches (762 mm) above grade at any point, and are not attached to a dwelling and do not serve the exit door required by Section R311.4.

(C) Section R105.6.1 Revocation of Permit is added to read as follows:

It shall be the permit holder's responsibility to schedule the required inspections and obtain final approvals. Failure to schedule the required inspections and receive approval of work authorized by the permit before covering said work or at completion shall result in revocation of the permit and void any associated approvals granted by the City. This failure shall also equate to working without a permit in violation of City ordinance and no future permits shall be issued to any person or company who has outstanding violations of this code or any other laws or ordinances of the City. Failure to contact the City for any inspection or follow-up prior to expiration of a permit shall be deemed a violation of this code section. Failure to contact the City for any inspection or follow-up prior to expiration of a Temporary Certificate of Occupancy shall also be deemed a violation of this code. Allowing occupancy of a structure, for which a person or company holds a building permit, prior to or without a valid Certificate of Occupancy (temporary or final) shall be deemed a violation of this code section and no future permits shall be issued to any person or company who has outstanding violations of this code or any other laws or ordinances of the City.

(D) Section R108.2 Schedule of permit fees is amended to read as follows:

Where a permit is required, a fee for each permit shall be paid as required, in accordance with the City of Marshalltown Fee Schedule as adopted.

(E) Section R108.3 Building permit valuations is amended to read as follows:

The applicant for a permit shall provide an estimated permit value at time of application. The building valuation will be derived from the construction costs for the total work submitted by the contractor or the most current building valuation data schedule published by the International Code Council (ICC). Submitted contractor valuation shall not be less than derived valuation through ICC. Published data is utilized by the Administrative Official in an effort to maintain consistency and fairness for permit fee calculations. It is not intended to reflect actual taxable value.

The method for determining the value of the additional listed residential items will be as follows: The square foot of the listed structure, times the dwelling – Type V – Wood Frame value, times the multiplier assigned to each listed item.

- (1) Open decks – 8%
- (2) Above-ground pools – 8%
- (3) Screened porches – 15%
- (4) In-ground pools – 17%
- (5) 3 season porches – 50%
- (6) Detached garages – 50%
- (7) Remodel/Renovation – 30%
- (8) Post frame buildings – 50%

(F) Section R108.5 Fee refunds is amended to read as follows:

The administrative official may authorize refunding of any fee hereunder which was erroneously paid or collected.

The administrative official may authorize refunding of not more than 80 percent of the plan review fee paid when no work has been done under a permit issued in accordance with this code.

The administrative official may authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan reviewing is done.

The administrative official shall not authorize refunding of any fee except on written application filed by the original permittee not later than 180 days after the date of fee payment.

(G) Section R110.1 Use and change of occupancy is amended to read as follows:

A building or structure shall not be used or occupied in whole or in part, and a change of occupancy of a building or structure or portion thereof shall not be made until the building official has issued a certificate of occupancy therefor as provided herein. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Certificates presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. On all new construction, all necessary walks, drives, and approaches, and all seeding and sodding are to be installed before a final certificate of occupancy is issued.

Exceptions:

- (1) Certificates of occupancy are not required for work exempt from permits under Section R105.2.
- (2) Accessory buildings or structures.

(H) Table R301.2 Climatic and geographic design criteria is amended to read as follows:

Ground Snow Load	Wind Design				Seismic Design Category	Subject to Damage From			Winter Design Temp	Ice Barrier Underlayment Required	Flood Hazards	Air Freezing Index	Mean Annual Temp
	Speed MPH	Topographic Effects	Special Wind Region	Windborne Debris Zone		Weathering	Frost Depth	Termite					
30	115	No	No	No	A	Weathering	Frost Depth	Termite	0	Yes	Dec. 2007	2000	48.6
						Severe	42	Moderate					

(I) Section R301.2.1.3 Wind speed conversion is amended to read as follows:

Where referenced documents are based on nominal design wind speeds and do not provide the means for conversion between ultimate design wind speeds and nominal design wind speeds, the ultimate design wind speeds,  $V_{ult}$ , of Figure R301.1 (2) shall be converted to nominal design wind speeds,  $V_{asd}$ , using Table R301.2.1.3. For purposes of determining wind loads, the minimum basic wind speed shall be considered as 115 miles per hour; except when referenced documents are based on fastest mile wind velocities, Table R301.2 (1) shall be used.

(J) Section R301.2.3 Snow loads is amended to read as follows:

Wood-framed construction, cold-formed, steel-framed construction and masonry and concrete construction, and structural insulated panel construction in regions with ground snow loads 70 pounds per square foot (3.35 kPa) or less, shall be in accordance with Chapters 5, 6, and 8. Buildings in regions ground snow loads greater than 70 pounds per square foot (3.35 kPa) shall be designed in accordance with accepted engineering practice.

For purposes of determining snow loads, the minimum ground snow load for design purposes shall be 30 pounds per square foot. Subsequent increases or decreases shall be allowed as otherwise provided in this code, except that the minimum allowable flat roof snow load may be reduced to not less than 80 percent of the ground snow load.

(K) Section R302.3 Two-family dwellings is amended to read as follows:

For the purposes of fire-resistive separation, two-family dwelling units shall be considered as townhouses and shall be constructed in accordance with Section R302.

(L) Table R302.6 Dwelling-Garage separation is amended to read as follows:

Table R302.6 Dwelling – Garage Separation

Separation	Material
From the residence and attics	Not less than 5/8" gypsum board or equivalent applied to Garage side
From habitable rooms above the garage and structure(s) Supporting floor/ceiling assemblies used for separation Required by this section	Not less than 5/8" gypsum board or equivalent
Garages located less than 5 feet from a dwelling unit on the Same lot	Not less than 5/8" gypsum board or equivalent applied to the interior side of exterior walls and ceilings within the garage

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm

(M) Section 302.13 Fire protection of floors is deleted.

(N) Section R305.1.1 Basements is amended to read as follows:

Portions of basements that do not contain habitable space or hallways shall have a ceiling height of not less than 6 feet 8 inches (2032 mm).

Exception:

Existing basements not having a height as specified in this section are allowed to be finished with a ceiling height that is not decreased more than the minimal measurement created by applying a finished ceiling of gypsum board or acoustical ceiling tiles.

(O) Section R310.2.3 Maximum height from floor is amended to read as follows:

Emergency escape and rescue openings shall have the bottom of the clear opening not greater than 44 inches (1118 mm) above the floor.

Exception:

A landing may be provided to meet the maximum sill height of 44 inches above the floor or landing provided. The landing shall not be less than 36 inches wide, not less than 12 inches out from the exterior wall, and not more than 24 inches in height. The landing shall be permanently affixed to the floor below or the wall under the window it serves.

(P) Section R310.6 Dwelling additions is amended to read as follows:

Where dwelling additions contain sleeping rooms, an emergency escape and rescue opening shall be provided in each new sleeping room. Where dwelling additions have basements, an emergency escape and rescue opening shall be provided in the new basement.

Exception:

New habitable spaces created in an existing basement shall be provided with emergency escape and rescue openings in accordance with Section R310.1.

(Q) Section R311.3.2 Floor elevations at other exterior doors is amended to read as follows:

Doors other than the required egress door shall be provided with landings or floors not more than 7 ¾ inches (196 mm) below the top of the threshold.

Exception:

A top landing is not required where a stairway of not more than four rises is located on the exterior side of a door, provided the door does not swing over the stairway.

(R) Section 311.7.5.1 Risers is amended to read as follows:

The riser height shall not be more than 7 ¾ inches (196 mm). The riser height shall be measured vertically between the leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Risers shall be vertical or sloped from the underside of the nosing of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. At open risers, openings located more than 30 inches (762 mm), as measured vertically, to the floor or grade below shall not permit the passage of a 4-inch-diameter (102 mm) sphere.

Exceptions:

- (1) The opening between adjacent treads is not limited on spiral stairways.
- (2) The riser height of spiral stairways shall be in accordance with Section R311.7.10.1.
- (3) The dimensions of the top and bottom riser of a stair may vary up to 1 inch (25.4 mm) from the stairway riser dimension; however, in no case shall the riser height exceed 7 ¾ inches (196 mm).

(S) Section R311.7.8.4 Continuity is amended to read as follows:

Handrails shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned toward a wall, guard walking surface continuous to itself, or terminates to a post.

Exceptions:

- (1) Handrail continuity shall be permitted to be interrupted by a newel post at a turn in a flight with winders, at a landing, or over the lowest tread.
- (2) A volute, turnout, or starting easing shall be allowed to terminate over the lowest tread and over the top landing.

- (3) Handrails within a dwelling unit or serving an individual dwelling unit shall be permitted to be interrupted at one location in a straight stair when the rail terminates into a wall or ledge and is offset and immediately continues.

(T) Section R313.1 Townhouse automatic fire sprinkler systems is amended to read as follows:  
An automatic fire residential fire sprinkler system shall be installed in townhouses.

Exceptions:

- (1) An automatic residential fire sprinkler system shall not be required where additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.
- (2) Townhouse structures where the conditioned square footage of the entire building is less than 18,000 square feet. For purposes of this section, conditioned space shall be defined as space that can be occupied but shall not include garages or attics.
- (3) Townhouse structures that contain eight (8) or less dwelling units.

(U) Section R313.2 One and two-family dwelling automatic fire sprinkler systems is amended to read as follows:

An automatic residential fire sprinkler system shall be installed in one and two-family dwellings.

Exceptions:

- (1) An automatic residential fire sprinkler system shall not be required where additions or alterations are made to existing buildings that are not provided with an automatic residential fire sprinkler system.
- (2) One and two-family dwellings containing less than 8,000 square feet of floor space, excluding attached garages and other unenclosed areas.

(V) Section R317.1 Location required is amended to read as follows:

Protection of wood and wood-based products from decay shall be provided in the following locations by the use of naturally durable wood or wood that is preservative treated in accordance with AWWA U1.

- (1) In crawl spaces or unexcavated areas located within the periphery of the building foundation, wood joists or the bottom of a wood structural floor were closer than 18 inches (457 mm) to exposed ground, wood girders were closer than 12 inches (305 mm) to exposed ground, and wood columns were closer than 8 inches (204 mm) to exposed ground.
- (2) Wood framing members, including columns, that are in directly on concrete or masonry exterior foundation walls and are less than 8 inches (203 mm) from the exposed ground.
- (3) Sills and sleepers on a concrete or masonry slab that is in direct contact with the ground unless separated from such slab by an impervious moisture barrier.
- (4) The ends of wood girders entering exterior masonry or concrete walls having clearances of less than ½ inch (12.7 mm) on tops, sides, and ends.
- (5) Wood siding, sheathing, and wall framing on the exterior of a building having a clearance of less than 6 inches (152 mm) from the ground or less than 2 inches (51 mm) measured vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surfaces exposed to the weather.

- (6) Wood furring strips or other wood framing members attached directly to the interior of exterior masonry walls or concrete walls below grade except where an approved vapor retarder is applied between the wall and the furring strips or framing members.
- (7) Wood structural members supporting moisture-permeable floors or roofs that are exposed to the weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious moisture barrier.
- (8) Residential fences shall be chain link, ornamental iron, PVC/composite, or approved wood. Wood used in fences shall be treated wood or approved wood of natural resistance to decay.
- (9) Wood columns in contact with basement floor slabs unless supported by concrete piers or metal pedestals projecting not less than 1 inch (25 mm) above the concrete floor and separated from the concrete pier by an impervious moisture barrier.

(W) Table R403.1 (1), (2), (3) are replaced with the following:

Table R403.1 – Foundations For Stud Bearing Walls

Number of Stories	Thickness of Foundation Walls Unit		Minimum width of footing (inches)	Thickness of footing (inches)	Minimum depth of foundation below natural surface of ground & finish grade (inches)
	Concrete Masonry				
1	8	8	16	8	42
2	8	8	16	8	42
3	10	10	18	12	42

(X) Section R403.1.4.1 Frost protection is amended to read as follows:

Except where otherwise protected from frost, foundation walls, piers and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

- (1) Extended below the frost line specified in Table R301.
- (2) Constructed in accordance with Section R403.3.
- (3) Constructed in accordance with ASCE 32.
- (4) Erected on solid rock.

Footings shall not bear on frozen soil unless the frozen condition is permanent.

Exception:

- (1) Accessory structures up to 200 square feet may be constructed on a 4-inch wood deck or 4-inch concrete slab. Protection for detached garages and other accessory structures 1,024 square feet or less in size, located more than 10 feet from a dwelling, attached garage, or other principle structures, may be accomplished with a floating slab (monolithic). The floating slab shall include a thickened slab edge or a minimum of 18 inches thick. 12 inches of the thickened slab shall be below grade and 6 inches shall be above finished grade. The bottom portion of the thickened slab area shall be 12 by twelve inches. Two #4 rebar shall be placed within the thickened edge continuous around the perimeter of the slab. The floor shall be Portland cement concrete not less than 4 inches thick. Garage floor areas shall have all sod and/or debris removed. For detached garages and accessory structures exceeding 1,024 square feet, a frost protected footing and foundation shall be required.

(Y) Section R404.1 Concrete and masonry foundation walls are amended to read as follows:

Scope: Notwithstanding other design requirements of Sections R404.1 – R404.1.5.2 of the IRC, foundation retaining walls for one and two-family dwelling occupancies of Type V construction



may be constructed in accordance with this section, provided that the use or building site conditions affecting such walls are within the limitations specified in this section. Concrete foundation walls shall be selected and constructed in accordance with the provisions of Section R404.1.3. Masonry foundation walls shall be selected and constructed in accordance with the provisions of Section R404.1.2. If backfill prior to a poured in place floor slab is desired, one of the following methods to provide bottom lateral support shall be completed:

- (1) A full depth (minimum 1 ½ “) nominal 2-inch x 4-inch keyway may be formed into the footings to secure the bottom of the foundation wall, or
- (2) 36-inch long vertical #4 rebar may be embedded a minimum of 6 inches into the footings not to exceed 7 inches on center spacing.

(Z) Section/Table R404.1.3.2.3 Foundation walls for conventional light-frame construction are added:

Table R404.1.3.2.3 - ‘Foundation Walls for Conventional Light Frame Construction

Height of Foundation Wall (Net measured from Top of basement slab to top of foundation wall)*		Thickness of Foundation Walls Unit		Reinforcement type and placement within foundation wall	Reinforcement type and placement within foundation wall** (maximum 12’ span between corners and	Type of Mortar
Gross	Net	Concrete	Masonry	Concrete	Masonry	Masonry
8	7’ 8”	7 ½”	8”	½” horizontal bars, placement in the middle, and near the top & bottom – Y2” bars @ 6’ max vertically	0.075 square inch bar 8’ o.c. vertically in fully grouted cells. If block is 12” nominal thickness, may be unreinforced.	Type M or S grout & mortar shall meet provisions of Chapter 21 IBC
9	8’ 8”	8”	See Chapter 18 IBC	½” bars 2’ o.c. horizontally & 20” vertically o.c.	See Chapter 18 IBC	Same as above
10	9’ 8”	8”	See Chapter 18 IBC	5/8” bars 2” o.c. horizontally & 30” vertically o.c.	See Chapter 18 IBC	Same as above
<ul style="list-style-type: none"> <li>• Concrete floor slabs to be nominal 4”. If such floor slab is not provided prior to backfill, provide 1.) 36” embedded in the footing at maximum 7’ o.c. spacing and/or; 2.) Full depth nominal 2” depth x 4” width keyway in footing.</li> <li>• All reinforcement bars shall meet ASTM A6175 grade 40 minimum and deformed. Placement of the center of wall and meet the provisions of Chapters 18, 19, and 20 of the IBC.</li> </ul>						
NOTE: Cast in place concrete shall have a compressive strength of 3,000 lbs. at 30 days. Footings shall reinforcement of minimum of 2 – ½” diameter rebar throughout. Placement of reinforcement and requirements of Chapter 19 of the IBC.						
NOTE: Material used for backfilling shall be carefully placed granular soil of average or high drained with approved drainage system as prescribed in Section 1805.4 of the IBC containing a high percentage of clay, fine silt, or similar materials of low permeability or expansive soils where backfilled materials are not drained or an unusually high surcharge is to be placed adjacent to the designed wall shall be required.						
NOTE: Foundation plate of sill anchorage shall be installed in accordance with the respective codes as applicable.						

(AA) Chapter 11 Energy efficiency is amended by deleting this chapter and inserting the following language:

Provisions of the International Energy Conservation Code as currently adopted and amended by the Iowa State Building Code Bureau shall apply to all matters governing the design and construction of buildings for energy efficiency. Administration shall be prescribed in “this code” and the regulations shall be known as the Marshalltown Energy Code.

(BB) Section R1601.4 Installation is amended to read as follows:

Duct installation shall comply with Sections M1601.4.1 through M1601.4.11

(CC) Section M1601.4.11 Air plenum and duct separation is added to read as follows:

Air plenums and ducts located in floor and wall cavities shall be separated from unconditioned spaces by construction with sufficient insulation to meet energy code requirements. These areas include but are not limited to exterior walls, cantilevered floors, and floors above garages.

(DD) Section R G2415.5.2 (403.5.2) LP-gas systems are amended to read as follows:

Corrugated stainless steel tubing (CSST). Only CSST with an arc-resistant jacket or covering system listed in accordance with ANSI LC-1 (optional Section 5.15)/CSA 6.26 – 2016 shall be installed in accordance with the terms of its approval, the conditions of listing, the manufacturer’s instructions, and this code including electrical bonding requirements in Section G2411. CCST shall not be used for through wall penetrations from the point of delivery of the gas supply to the inside of the structure. CCST shall not be installed in locations where subject to physical damage unless protected in an approved manner.

(EE) Section G2414.5.4 (403.5.5) Corrugated stainless steel tubing is added to read as follows:

Arc-resistant corrugated stainless steel tubing shall be listed in accordance with ANSI LC 1(optional Section 5.16)/CSA 6.26.

(FF) Section P2603.5.1 Sewer depth is amended to read as follows:

Building sewers that connect to private sewage disposal systems shall not be less than 60 inches below the finished grade at the point of septic tank connection or as approved by Marshall County Environmental Health. Building sewers shall not be less than 60 inches below grade.

(GG) Section R E3704.7 Prohibited locations are added to read as follows:

Feeders supplying a townhome shall not cross a property line other than the individual unit served. For the purposes of this provision, the term townhome shall mean a single-family dwelling unit constructed in a group of two or more attached units in which each unit extends from the foundation to the roof and with a yard or public way on not less than two sides.

Exception:

If a recorded easement is established in a concealed space or attic within the townhome unit, feeds are allowed within the easement.

**The following amendments, definitions, substitutions, modifications, additions, or deletions to the International Existing Building Code (IEBC), 2021 Edition are made.**

(A) Section IEBC 108.2 Schedule of permit fees is amended to read as follows:

Where a permit is required, a fee for each permit shall be paid as required, in accordance with the schedule of fees as derived from the City of Marshalltown Fee Schedule as adopted.

(B) Section IEBC 302.6 Fire protection is added as follows:

Existing buildings containing R-2 occupancies shall be made to comply with the International Building Code Section 903.2.8 within two years of any of the following situations:

- (1) Fire damage to three or more dwelling units, not including smoke or water damage or other damage from firefighting operations.
- (2) Issuance of a building permit for a Level III alteration as identified in Chapter 6 of the International Existing Building Code.

**The following amendments, definitions, substitutions, modifications, additions, or deletions to the International Mechanical Code (IMC), 2021 Edition are made.**

(A) Section IMC 101.1 Title is amended to read as follows:

These regulations shall be known as the Mechanical Code of the City of Marshalltown, hereinafter referred to as “this code.” The City of Marshalltown interprets “NFPA 54 and NFPA 58” as equivalent alternatives for design to meet the intent of the 2021 International Fuel Gas Code.

(B) Section IMC 109.5 Permit fees is amended to read as follows:

Permit fees will be derived from the City of Marshalltown Fee Schedule as adopted.

(C) Section IMC 306.5 Equipment and appliances on roofs or elevated structures is amended to read as follows:

If the tenants of a multiple-tenant building have or are allowed to have, mechanical facilities on or which penetrate the roof, then roof access ladders must be provided for use by all such tenants and their agents and contractors in a manner that does not require accessing space under the control of another tenant.

(D) Section IMC 307.2.4.1 Ductless mini-split system traps is amended to read as follows:

Ductless mini-split equipment that produces condensate shall be installed per the manufacturer’s instructions.

(E) Section IMC 603.1 General is amended to read as follows:

An air distribution system shall be designed and installed to supply the required distribution of air. The installation of an air distribution system shall not affect the fire protection requirements specified in the International Building Code. Ducts shall be constructed, braced, reinforced, and installed to provide structural strength and durability.

Air plenums and ducts located in floor and wall cavities shall be separated from unconditioned space by construction with insulation to meet energy code requirements. These areas include, but are not limited to, exterior walls, cantilevered floors, and floors above garages.

**The following amendments, definitions, substitutions, modifications, additions, or deletions to the National Electric Code (NEC), 2020 Edition, as currently adopted by the State of Iowa are made repealing Ordinance 15010, § 154.035, Electric Code, of the City of Marshalltown Code of Ordinances.**

(A) Section 90.2 Scope is amended by adding the following language:

90.2 (D) Permits required. Permits shall be required for work contained within the scope of this article. Permit fees shall be derived from the City of Marshalltown Fee Schedule as adopted.

(B) Section 210.8 (A) Dwelling units is amended to read as follows:

All 125-volt receptacles installed in locations specified in 210.8 (A)(1) through 210.8 (A)(11) shall be ground-fault circuit-interrupter protection for personnel.

(1) Bathrooms

(2) Garages and accessory buildings that have floors located at or below grade level not intended to be habitable rooms and limited to storage areas, work areas, or similar use

(3) Outdoors

Exception to (3): Receptacles that are not readily accessible and are supply branch circuits dedicated to electrical snow-melting, deicing, or pipeline and Bessel heating equipment shall be permitted to be installed in accordance with 426.28M or 427.22, as applicable

(4) Crawl spaces – at or below grade

(5) Basements

Exception to (5): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection

Informational note: See 760.41(B) and 760.121(B) for power supply requirements for fire alarm systems. Receptacles installed under the exception to 210.8 (A) (5) shall not be considered as meeting the requirements of 210.52(G)

(6) Kitchens – Where the receptacles are installed to serve the countertop surfaces

(7) Sinks – Where receptacles are installed within 6 feet (1.8 m) from the top inside edge of the bowl of the sink

(8) Boathouses

(9) Bathtubs or shower stalls – Where receptacles are installed within 6 feet (1.8 m) of the outside edge of the bathtub or shower stall

(10) Laundry areas

Exception to (1) through (3), (5) through (8), and (1): Listed locking support and mounting receptacles utilized in combination with compatible attachment fittings installed for the purpose of serving a ceiling luminaire or ceiling fan shall not be required to be ground-fault circuit-interrupter protected. If a general-purpose convenience outlet is integral to the ceiling luminaire or ceiling fan, GFCI protection shall be provided.

(11) Indoor damp and wet locations

(C) Section 210.8 (F) Outdoor outlets are deleted.

(D) Section NEC 215.13 Prohibited locations are added to read as follows:

Feeders supplying a townhome shall not cross a property line other than the individual unit served. For the purposes of this provision, the term townhome shall mean a single-family dwelling unit constructed in a group of two or more attached units in which each unit extends from the foundation to the roof and with a yard or public way on not less than two sides.

Exception:

If a recorded easement is established in a concealed space or attic within the townhome unit, feeds are allowed within the easement.

**The following amendments, definitions, substitutions, modifications, additions, or deletions to the Uniform Plumbing Code (UPC), 2021 Edition. The City of Marshalltown interprets the International Plumbing Code (IPC), 2021 Edition, as an equivalent alternative to the Uniform Plumbing Code, 2021 Edition.**

(A) Section UPC 104.5 Fees is amended to read as follows:

Permit fees will be derived from the City of Marshalltown Fee Schedule as adopted.

(B) Table UPC 104.5 Plumbing permit fees are deleted.

(C) Section UPC 407.3 Limitation of Hot Water Temperature for Public Lavatories is amended to read as follows:

Hot water delivered from public-use lavatories shall be limited to a maximum temperature of 120°F (49°C). The maximum temperature shall be regulated by one of the following means:

- (1) A limiting device conforming to either ASSE 1070/ASME A112.1070/CSA B125.70, or
- (2) A water heater conforming to ASSE 1084.

Tempering devices shall be installed at or as close as possible to the point of use.

D) Section UPC 418.3 Location of floor drains is amended to read as follows:

Floor drains shall be installed in the following areas:

- (1) Toilet rooms containing two or more water closets or a combination of one water closet and one urinal, except in a dwelling unit.
- (2) Commercial kitchens and in accordance with Section 704.3.
- (3) Laundry rooms in commercial buildings and common laundry facilities in multi-family dwelling buildings.
- (4) Boiler rooms.
- (5) Rooms containing a water heater.

(E) Section UPC 609.1 Installation is amended to read as follows:

Water piping shall be adequately supported in accordance with Table 313.3. Burred ends shall be reamed to the full bore of the pipe or tube. Changes in direction shall be made by the appropriate use of fittings, except that changes in direction in copper or copper alloy tubing shall be permitted to be made with bends, provided that such bends are made with bending equipment that does not deform or create a loss in the cross-sectional area of the tubing. Changes in direction are allowed with flexible pipe and tubing without fittings in accordance with the manufacturer's instructions. Provisions shall be made for expansion in hot water piping. Piping, equipment, appurtenances, and devices shall be installed in a workmanlike manner in accordance with the provisions and intent of the code. Building supply yard piping shall be not less than 12 inches (305 mm) below the average local frost depth. The cover shall be not less than 12 inches (305 mm) below finish grade. Water service piping shall have no less than five feet of soil cover.

(F) Section UPC 701.2 Drainage Piping is amended to read as follows:

Materials for drainage piping shall be in accordance with one of the referenced standards in Table 701.2 except that:

- (1) No galvanized wrought-iron or galvanized steel pipe shall be used underground and shall be kept not less than 6 inches (152 mm) aboveground.

- (2) ABS and PVC DWV piping installations shall be installed in accordance with applicable standards referenced in Table 701.2 and Chapter 14 "Firestop Protection." Except for individual single-family dwelling units, materials exposed within ducts or plenums shall have a flame-spread index of not more than 25 and a smoke-developed index of not more than 50, where tested in accordance with ASTM E84 or UL 723. Plastic piping installed in plenums shall be tested in accordance with all requirements of ASTM E84 or UL 723. Mounting methods, supports, and sample sizes of materials for testing that are not specified in ASTM E84 or UL 723 shall be prohibited.
- (3) No vitrified clay pipe or fittings shall be used aboveground or where pressurized by a pump or ejector. They shall be kept not less than 12 inches (305 mm) belowground.
- (4) Copper or copper alloy tubes for drainage and vent piping shall have a weight of not less than that of copper or copper alloy drainage tube type DWV.
- (5) Stainless steel 304 pipe and fittings shall not be installed underground and shall be kept not less than 6 inches (152 mm) aboveground.
- (6) Cast-iron soil pipe and fittings and the stainless steel couplings used to join these products shall be listed and tested in accordance with standards referenced in Table 701.2. Such pipe and fittings shall be marked with the country of origin, manufacturer's name or registered trademark as defined in the product standards, the third-party certifier's mark, and the class of the pipe or fitting
- (7) The use of SDR 23.5 is an acceptable material for exterior building sewers.]

(G) Section UPC 717.1.1 Size of drainage piping is added to read as follows:  
The main building drain shall be a minimum four-inch diameter.

(H) Section UPC 718.3 Protection from Damage is amended to read as follows:  
No building sewer or other drainage piping or part thereof, which is constructed of materials other than those approved for use under or within a building, shall be installed under or within 2 feet (610 mm) of a building or structure, or part thereof, nor less than 1 foot (305 mm) below the surface of the ground. The provisions of this subsection include structures such as porches and steps, whether covered or uncovered; breezeways; roofed porte cochere; roofed patios; carports; covered walks; covered driveways; and similar structures or appurtenances. Building sewers less than 42 inches shall be cast iron pipe or protected with an engineered system to prevent damage from freezing and frost heave.

(I) Section UPC 1014.1 General is amended to read as follows:  
Where it is determined by the Authority Having Jurisdiction that waste pretreatment is required, an approved type of grease interceptor(s) shall comply with ASME A112.14.3, ASME A112.14.4, CSA B481, PDI G-101, or PDI G-102, and sized in accordance with Section 1014.2.1 or Section 1014.3.6, shall be installed in accordance with the manufacturer's installation instructions to receive the drainage from fixtures or equipment that produce grease-laden waste. Grease-laden waste fixtures shall include, but not be limited to, sinks and drains, such as floor drains, floor sinks, and other fixtures or equipment in serving establishments, such as restaurants, cafes, lunch counters, cafeterias, bars and clubs, hotels, hospitals, sanitariums, factory or school kitchens, or other establishments where grease is introduced into the drainage or sewage system in quantities that can affect line stoppage or hinder sewage treatment or private sewage disposal systems. A combination of hydromechanical, gravity grease interceptors, and engineered systems shall be

allowed to meet this code and other applicable requirements of the Authority Having Jurisdiction where space or existing physical constraints of existing buildings necessitate such installations. A grease interceptor shall not be required for individual dwelling units or private living quarters. Water closets, urinals, and other plumbing fixtures conveying human waste shall not drain into or through the grease interceptor.

Notwithstanding provisions of Section 1014.1, regulations of Fat Oil and Grease (FOG) and sizing FOG removal devices where connected to the Wastewater Reclamation Authority (WRA) system shall be in accordance with WRA regulations for the regulation of industrial wastewater and commercial wastewater.

(J) Section UPC 1101.12.2.2.2 Combined system is deleted.

(K) Section UPC 1208.6.4.5 Corrugated Stainless Steel Tubing is amended to read as follows: Only CCST with an Arc Resistant Jacket or Covering System listed in accordance with ANSI LC-1 (Optional Section 5.16)/CSA 6.26-2016 shall be installed in accordance with the terms of its approval, the condition of listing, the manufacturer's instructions, and this code including electrical bonding requirements in Section 1211.2. CCST shall not be used for through wall penetrations from the point of delivery of the gas supply to the inside of the structure. CCST shall not be installed in locations where subject to physical damage unless protected in an approved manner.

**The following amendments, definitions, substitutions, modifications, additions, or deletions to the International Energy Conservation Code (IECC), 2012 Edition.**

(A) The provisions of the IECC as currently adopted and amended by the Iowa State Building Code Bureau shall apply to all matters governing the design and construction of buildings for energy efficiency.

(B) All energy code compliance inspections shall be completed by a third party certified to do such inspections with a report submitted to the Administrative Official showing compliance with the State adopted energy code.

(C) Sections C 101.1, 101.2, 103.3.1, 103.3.2, 103.3.3, 103.4, 103.5, and all of Sections 104, 107, 108, and 109 are deleted.

(D) Section C 402.1.1.1 Seasonal structures are added to read as follows:

The following seasonal-type structures are exempt from meeting the provisions of this code. (These facilities are allowed to have heating and/or cooling equipment for the temporary comfort of patrons and employees during operating hours).

- (1) Food service buildings that serve patrons at amusement parks, water parks, and outdoor sporting facilities. The buildings can only be occupied by employees, must not be able to allow patrons to be served within the facility, and must have its sole means of servicing customers an operable exterior serving window.
- (2) Restroom facilities that serve amusement parks, water parks, and outdoor sporting facilities.

(E) Section C 408.2 Mechanical systems and water-heating systems commissioning and completion requirements are amended to read as follows:

Prior to the final mechanical and plumbing inspections, the registered design professional or approved agency shall provide evidence of mechanical systems commissioning and completion in accordance with the provisions of this section. The Commissioning Agent shall be accredited by an industry-recognized certification program, to be determined by the AHJ.

**Section 2.** Any previous amendments thereto, which are inconsistent with the attachment are hereby specifically repealed and the attachment is enacted as a substitute therefore.

**Section 3.** The public hearing required on this amendment shall be held in the Council Chambers of City Hall, 24 N. Center Street, Marshalltown, Iowa at 5:30 p.m. local time, on the 25<sup>th</sup> day of September 2023, and the City Clerk is directed to cause a publication of the notice of public hearing in one issue of the Marshalltown Times Republican, a newspaper in Marshalltown, Marshall County, Iowa, not less than 4 days nor more than 10 days prior to the date of public hearing fixed herein.

**Section 4.** This ordinance shall be in full force and effect from and after public notice of hearing on this amendment has been duly given as required by the statutes of the State of Iowa and said public hearing has been duly held and after passage by the Council and publication as is provided by law.

Passed this \_\_\_\_ day of September 2023, and signed this \_\_\_\_ day of September 2023.

CITY OF MARSHALLTOWN, IOWA

\_\_\_\_\_  
Joel Greer, Mayor

ATTEST:

\_\_\_\_\_  
Alicia Hunter, City Clerk

I, Alicia Hunter, City Clerk of the City of Marshalltown, Iowa, do hereby certify that the foregoing ORDINANCE was passed and approved by the City Council of the City of Marshalltown, Iowa, on the \_\_\_\_ day of \_\_\_\_\_, 2023, and was published in the Marshalltown Times-Republican, a newspaper of general circulation in the City of Marshalltown, Iowa, on the \_\_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_  
Alicia Hunter, City Clerk