ORDINANCE 18-O-71 amending the Murfreesboro City Code, Chapters 7, 11, 12, 15, 17, and 23, by adopting the 2018 International Building Code, 2018 International Existing Building Code, 2018 International Residential Code, 2018 International Mechanical Code, 2018 International Energy Conservation Code, , 2017 National Electrical Code, 2018 International Fire Code, 2018 International Fuel Gas Code, 2018 International Property Maintenance Code, 2018 International Plumbing Code, 2018 International Swimming Pool and Spa Code, and certain proposed amendments to such codes and standards.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MURFREESBORO, TENNESSEE, AS FOLLOWS:

SECTION 1. Sections 7-1 and 7-2 of the Murfreesboro City Code, dealing with the International Building Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 7-1 INTERNATIONAL BUILDING CODE - ADOPTED.

All construction, new or previously unoccupied, equipment, use and occupancy, location, maintenance, renewal, and demolition of every commercial, industrial, and multifamily building or structure or any appurtenances connected or attached to such buildings or structures in the City, except one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures, shall comply with the provisions of the 2018 International Building Code, including Appendix Chapters A, C, and D, published by the International Code Council, one copy of which has been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified, or deleted in this chapter. Detached one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the provisions of the International Residential Code, as adopted and approved and incorporated into this chapter.

SECTION 7-2 INTERNATIONAL BUILDING CODE - AMENDED.

The International Building Code is hereby specifically amended, modified, or deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) Section 103.1 on creation of an enforcement agency is amended by deleting the phrase "Department of Building Safety" and substituting in lieu thereof the phrase "Building and Codes Department."

(C) Section 104.10.1 on flood hazard areas is deleted.

(D) Section 105.2 on building work exempt from permit requirement is amended by deleting exemptions (1) and (2) in their entirety and substituting in lieu thereof the following:

(1) Roof covering replacement, provided the work does not involve roof deck replacement and/or structural framing.

(2) Roof covering replacement where the new roofing system is the same as the building's existing roofing system.

(E) Section 105.2 on mechanical work exempt from permit requirement is amended by adding the following exemptions:

"(8) Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

(9) Replacement of any like package or split HVAC equipment that are permanently installed to provide control of the building's environmental conditions."

(F) Section 107.2.6.1 on design flood elevations is deleted.

(G) Section 109.2 on schedule of permit fees is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The fees for all

work on buildings, structures, electrical, gas, mechanical and plumbing systems or alterations thereto requiring a permit shall be set by the City Council."

(H) Delete section 109.3 on Building Permit Valuation in its entirety and substitute in lieu "Building valuations for building permits shall be as determined by the City Council."

(I) Section 109.4 on work commencing before permit issuance is amended by deleting the phrase "subject to a fee established by the Chief Building Official that shall be in addition to the required permit fees" and in lieu thereof substituting the following: "required to pay two times the established fee for the required permit. The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(J) Section 109.6 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(K) Section 110.3.3 on flood hazard documentation is deleted.

(L) Section 113 concerning a board of appeals is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(M) Section 1010.1.9.5 on bolt locks is amended by replacing all instances of the phrase "Group B, F or S occupancy" with the phrase "Group B, F, M or S occupancy."

(N) Section 1102.1 on accessible design is amended by adding the following to the end of the section: "Exception: The Chief Building Official shall have the authority to exempt a proposed or existing building or facility from the requirements of this chapter and ICC A117.1, provided: (1) prior to issuance of the building permit for the building or facility, a Tennessee Licensed Architect submits to the Chief Building Official a written certification that the plans for the building or facility comply with the 2010 ADA Standards for Accessible Design, or any further amendments, supplements, or subsequent editions promulgated by the U.S. Department of Justice ("ADA Standards"); and (2) prior to issuance of the certificate of occupancy a Tennessee Licensed Architect submits to the Chief Building Official an inspection report certifying that the completed work complies with the ADA Standards."

SECTION 2. Chapter 7, Buildings, of the Murfreesboro City Code, is hereby amended by adding the following Section 7-2.1 and Section 7-2.2, dealing with the International Existing Building Code, and Section 7-13 and Section 7-13.1, dealing with International Swimming Pool and Spa Code.

SECTION 7-2.1 INTERNATIONAL EXISTING BUILDING CODE - ADOPTED.

All construction, alteration, movement, enlargement, replacement, repairs, equipment, use and occupancy, location, maintenance, renewal, and demolition of every existing commercial, industrial, and multifamily building or structure or any appurtenances connected or attached to such buildings or structures in the City, except one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures, shall comply with the provisions of the 2018 International Existing Building Code. One copy of which has been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified, or deleted in this chapter. Detached one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the provisions of the International Residential Code, as adopted and approved and incorporated into this chapter.

SECTION 7-2.2 INTERNATIONAL EXISTING BUILDING CODE - AMENDED.

The International Existing Building Code is hereby specifically amended, modified, or

deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) Section 103.1 on creation of an enforcement agency is amended by deleting the phrase "Department of Building Safety" and substituting in lieu thereof the phrase "Building and Codes Department."

(C) Section 104.2.1 on flood hazard areas is deleted.

(D) Section 104.10.1 Flood hazard areas is deleted.

(E) Section 105.2 on mechanical work exempt from permit requirement is amended by adding the following exemptions:

"(8) Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

(9) Replacement of any like package or split HVAC equipment that are permanently installed to provide control of the building's environmental conditions."

(F) Section 105.7 on placement of permits is deleted.

(G) Section 108.2 on schedule of permit fees is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The fees for all work on buildings, structures, electrical, gas, mechanical and plumbing systems or alterations thereto requiring a permit shall be set by the City Council."

(H) Section 108.4 on work commencing before permit issuance is amended by deleting the phrase "subject to a fee established by the Chief Building Official that shall be in addition to the required permit fees" and in lieu thereof substituting the following: "required to pay two times the established fee for the required permit. The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(I) Section 108.6 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(J) Section 112 concerning a board of appeals is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(K) Section 401.3 on Flood hazard areas is deleted.

(L) Section 405.2.5 on Flood hazard areas is deleted

(M) Section 502.3 on Flood hazard areas is deleted.

(N) Section 503.2 on Flood hazard areas is deleted.

(O) Section 507.3 on Flood hazard areas has been deleted.

(P) Section 1201.4 on Flood hazard areas has been deleted.

(Q) Section 1301.3.3 on Compliance with flood hazard provisions has been deleted.

(R) Section 1301.4 concerning the Investigation and evaluation is amended by adding the following to the end of the section. "Evaluation shall be performed by a Tennessee licensed architect or engineer. Exception: The Building Official may waive this requirement based on the scope and/or complexity of the work."

(S) Section 1402.6 on Flood hazard areas has been deleted.

SECTION 3. Sections 7-7, 7-8, and 7-9 of the Murfreesboro City Code, dealing with the International Mechanical Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 7-7 INTERNATIONAL MECHANICAL CODE - ADOPTED.

All construction, installation, alteration, replacement, enlargement, repairs, and maintenance of mechanical systems and system components within the City, except those located in one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures, shall comply with the provisions of the 2018 International Mechanical Code, published by the International Code Council, one copy of which has

been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified, or deleted as provided in this chapter. All construction, installation, alteration, replacement, enlargement, repairs, and maintenance of mechanical systems and system components located in one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the provisions of the International Residential Code, as adopted and approved and incorporated into this chapter.

SECTION 7-8 INTERNATIONAL MECHANICAL CODE - AMENDED.

The International Mechanical Code is hereby specifically amended, modified, or deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) The 2018 International Mechanical Code is amended by deleting all references to the "department of mechanical inspection" and substituting in lieu thereof the phrase "Building and Codes Department."

(C) Section 106.2 on mechanical work exempted from the permit requirement is amended by adding the following exemption: "(9) Replacement of any like package or split HVAC equipment that is permanently installed to provide control of the buildings environmental conditions."

(D) Section 106.5.1 on work commencing before permit issuance is amended by adding the following sentence to the end of the section: "The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(E) Section 106.5.2 on schedule of permit fees is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The fees for mechanical work permits shall be set by the City Council."

(F) Section 106.5.3 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(G) Section 109 on means of appeal is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

SECTION 7-9 RESERVED.

SECTION 4. Section 7-11 and Section 7-12 of the Murfreesboro City Code, dealing with the International Residential Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 7-11 INTERNATIONAL RESIDENTIAL CODE - ADOPTED.

All construction, alteration, movement, enlargement, replacement, repairs, equipment, use and occupancy, location, maintenance, renewal and demolition of every detached one and two-family dwellings and multiple single family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures in the City shall comply with the provisions of the 2018 International Residential Code, including Appendix Chapters D, G, H, J, K and T, published by the International Code Council, one (1) copy of which has been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified or deleted in this chapter.

SECTION 7-12 INTERNATIONAL RESIDENTIAL CODE - AMENDED.

The International Residential Code is hereby specifically amended, modified, or deleted as follows:

(A) Section R101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) R101.2 is amended by deleting the last portion of the first sentence beginning with "where provided with a residential fire sprinkler system complying with Section P2904:"

R101.2 is amended by adding the following to item #4. "A medical care facility within a dwelling unit where occupants are not capable of self-preservation, as defined by the 2018 International Building Code, must be sprinkled in accordance with P2904" and;

(C) The 2018 International Residential Code is amended by deleting all references to the "department of building safety" and substituting in lieu thereof the phrase "Building and Codes Department."

(D) Section R105.2 on building work exempted from the permit requirement is amended by deleting exemptions 1, 2, and 10 and substituting in lieu thereof the following:

"1. Portable one-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11.15 m^2).

2. Roof covering replacement that does not involve the replacement of the roof deck or framing."

(E) Section R105.2 on gas work exempted from the permit requirement is amended by adding the following:

"4. Replacement of any gas appliance or equipment with the same input BTU provided such appliance or equipment is installed by a person holding a current City of Murfreesboro Gas License."

(F) Section R105.2 on mechanical work exempted from the permit requirement is amended by adding the following:

"9. Replacement of an HVAC unit where unit heating and cooling capacity and fuel source are not changed."

(G) Section R105.3.1.1 on Determination of Substantially Improved or Substantially Damaged Existing Buildings in Flood Hazard Area is deleted.

(H) Section R105.7 on placement of permit is deleted.

(I) Section R106.1 on submittal documents is amended by adding the following sentence to the end of the first paragraph: "Construction documents for any structure containing three (3) or more townhome units must be submitted for plan review to verify compliance with building code requirements."

(J) Section R108.2 on schedule of permit fees is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The fees for all work on buildings, structures, electrical, gas, mechanical, and plumbing systems or alterations thereto requiring a permit shall be set by the City Council."

(K) Section R108.5 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(L) Section R108.6 on work commencing before permit issuance is amended by deleting the phrase "subject to a fee established by the applicable governing authority that shall be in addition to the required permit fees" and in lieu thereof substituting the following: "required to pay two times the established fee for the required permit. The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(M) Section R112 concerning a Board of Appeals is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(N) Table R301.2(1) establishing climatic and graphic design criteria is amended by inserting the following criteria into the table:

Ground Snow Load (lbs.)		10
Wind Design	Speed (mph)	115
	Topographic effects	No
	Special Wind Region	No
Windborne Debris Zone		No
Seismic Design Category		B
Subject to Damage From:	Weathering	Severe
	Frost line depth (inches)	12"
	Termite	Moderate to heavy
Winter Design Temp (Degrees)		14° F
Ice Barrier Underlayment Required		No
Flood Hazards		In accordance with adopted zoning ordinance
Air Freezing Index		366
Mean Annual Temp		59° F
Manual J Design Criteria Elevation (feet)		615
Latitude (Degrees North)		35
Winter Heating		14
Summer Cooling		94
Altitude Correction Factor		Note P
Indoor Design Temperature		70
Design Temperature Cooling		75
Heating Temperature Difference		Note P
Cooling Temperature Difference		Note P
Wind Velocity Cooling		Note P
Coincident Wet Bulb		74
Daily Range		M
Winter Humidity		Note P
Summer Humidity		Note P

(O) Table R301.2(1) Add the following to the notes for Table R301.2(1) manual J design criteria "P. This value shall be determined using Manual J Design Criteria."

(P) Section R302.1 Exterior Walls delete this section including Table R302.1(1) and Table R302.1(2), and in lieu thereof substituting the following:
"Section 302.1 Exterior Walls. Exterior walls and their projections, including fire places, decks, and roof overhangs shall not be within 5 feet (1524 mm) of a side lot line, except that a soffit or overhang may extend 12 inches (305 mm) into the 5-foot setback if the overhang has a minimum fire-resistance rating of 1 hour on the underside or fire blocking is installed between rafters. The exterior walls of single family dwelling, townhomes, duplexes and zero-lot-line structures shall be at least 10 feet (3,048 mm) from other structures, other than accessory structures, when located

on the same lot." HVAC units for all structures must be a minimum of 3 feet (914 mm) from side lot lines, and at least 12" inches (305mm) from the structure they serve or as required by the manufacturer, whichever is greatest.

(Q) Section R302.5.1 Opening protection is amended by deleting "equipped with a self-closing or automatic-closing device" in the last sentence.

(R) Section 309.3 on flood hazard areas is deleted.

(S) Section R311 is amended by creating a new Section R311.1.1 and inserting the following text immediately after Section R311.1:
"R311.1.1 Access from bedrooms. Bedrooms shall not constitute the only means of access to other bedrooms or habitable spaces and shall not serve as the only means of egress from other habitable spaces."

(T) Section R313 Automatic fire sprinkler systems. Delete this section in its entirety.

(U) Section R320 on accessibility is deleted.

(V) Section R322 Flood-resistant construction. Delete this section in its entirety.

(W) Chapter 11 dealing with energy efficiency is amended deleting the chapter's text in its entirety and in lieu thereof substituting the following: "Buildings and structures regulated by this code shall comply with the 2018 International Energy Conservation Code."

(X) Section G2417.1.1 (406.1.1), on inspections is amended by adding the following at the end of the section: "If gas equipment or appliance change outs are made with like equipment or appliances having the same input BTU rating by a gas contractor licensed with the City of Murfreesboro, no permit or inspection is required.

(Y) Section P2502.1 on existing building sewers and drains is amended by deleting the period at the end of the last sentence and adding the following: "and pursuant to Section 33-35 (E) of the Murfreesboro City Code."

(Z) Section P2503.8 on inspection and testing of backflow prevention devices is amended by deleting the period at the end of the last sentence and adding the following: "and Sections 33-18 through 33-22 of the Murfreesboro City Code and the Murfreesboro Cross Connection Control Program Procedures Manual."

(AA) Section P2602.1 is amended by inserting between the first and second sentences of this section the following: "Connection to the public sewer system shall be pursuant to Section 33-33 through 33-35 of the Murfreesboro City Code."

(BB) Section P2602.1 is amended by adding the following at the end of the section: "Private sewage disposal systems shall be allowed pursuant to Section 33-34 of the Murfreesboro City Code and are regulated by the Rutherford County Health Department."

(CC) Section P2603.5.1 on sewer depth is amended by deleting "[NUMBER]" in both places and replacing it with "12."

(DD) Section P2604.1 on trenching and bedding is amended by deleting it in its entirety and substituting in lieu thereof the following: "All excavation required for the installation of a building sewer shall be open trench work unless otherwise approved in writing by the director of the Water Resources Department. Pipe laying, embedment, and backfill shall be performed in accordance with ASTM C12, latest revision, for clay pipe, and ASTM D2321, latest revision, for all PVC pipe. All pipe shall be placed on a minimum six-inch bedding of number 67 stone below the pipe and an initial backfill of number 67 stone for a minimum depth of six inches over the top of the pipe. Minimum trench width shall be six inches on each side of the pipe."

(EE) Section P2604.3 on backfilling is amended by adding the following to the end of this section: "All pipe shall be placed on a minimum six-inch bedding of number 67 stone below the pipe and a final backfill of number 67 stone, which will form a six-inch envelope around the entire pipe."

(FF) Section P2605.1 is amended by adding to item 2 at the end thereof, the following: "The bedding shall be number 67 stone of a minimum six inches in depth."

(GG) Section P2902.1 is amended by adding the following to the end thereof: "If any requirement in this section conflicts with the City Code, the City Code shall control."

(HH) Section P2902.5.3 on lawn irrigation systems is amended by deleting from the first sentence the words "an atmospheric-type vacuum breaker, a pressure type vacuum breaker or" and by adding the following at the end of this section: "Connections to lawn irrigation system shall meet the minimum requirements set forth in Murfreesboro City Code 33-19 and the Murfreesboro Cross Connection Program Procedures Manual."

(II) Section 2902.5.4 on connections to automatic fire sprinkler systems is amended by adding the following to the end of the section: "Connections to automatic fire sprinkler

systems shall be required to meet the minimum requirements set forth in Murfreesboro City Code §33-19(F)(3) and the Murfreesboro Cross Connection Control Program Procedures Manual."

(JJ) Section P2903.4 on thermal expansion control is amended by deleting the phrase "where required in accordance with Sections P.2903.4.1 and P2903.4.2" and by adding the following sentence at the end of the section: "A thermal expansion tank with a minimum 1-gallon capacity must be installed as close as possible to the first water heater."

(KK) Section 2903.7 on size of water service mains, branch mains and risers is amended by deleting "¾ inch" in the first sentence and substituting in lieu thereof "1 inch" and by deleting the period at the end at the end of the sentence and substituting in lieu thereof the following: "and shall extend from the water meter to the first water heater."

(LL) Section P2905.4.1 on dual check-valve-type backflow preventers is amended by deleting the period and by adding at the end thereof the following: "provided however, if any requirement in this section conflicts with the City Code, the City Code shall control."

(MM) Section P3002.2 on building sewers is amended by adding the following to the end of the section: "Building sewers and connections to the public sewer system must comply with Section 33-35 of the Murfreesboro City Code. In addition, the length of a building sewer on any single partial shall not exceed the maximum length established in the most recent version of Section 5.1 of the Murfreesboro Water Resources Department Policies, Procedures and General Design Manual, approved by the City Council."

(NN) Section P3005.1 on drainage fittings and connections is amended by adding to the beginning of this section the following: "The building sewer shall be laid at a uniform grade and in straight alignment pursuant to Section 33-35 of the Murfreesboro City Code. Only one offset in the vertical direction and one offset in the horizontal direction shall be allowed. Offsets shall be made with the proper fittings. A horizontal offset to align with the connection to the public sewer system shall be made immediately after the building clean out. The horizontal offset shall not be made closer than 10 feet from the connection to the public sewer. The last 5 feet shall be on grade and in alignment with the connection to the public sewer. No fittings making a change in the horizontal or vertical direction in the last 5 feet of the building sewer will be allowed. The vertical and horizontal alignment of the building sewer must be such to allow a proper connection to the public cleanout. The terminating end of the building sewer must be laid no closer than 30 to 36 inches from the tap."

(OO) Section P3005.4 on drain pipe sizing is amended by adding the following to the end of item 5: "The building sewer shall be installed pursuant to Section 33-35 of the Murfreesboro City Code, which requires a minimum 4-inch building sewer from the building drain to the point of connection with the public sewer. The minimum slope shall be 1/8 inch per foot."

(PP) Section P3007.1 on building drains below sewer (building subdrains) is amended by inserting the following sentence between the existing first and second sentences: "In addition, where a sump and/or ejector is installed in accordance with this section, the owner shall execute a release and indemnification agreement in accordance with Section 33-35 (H)(1) of the Murfreesboro City Code."

(QQ) Section P3008.1 on sewage backflow is amended by adding the following sentence to the end of the section: "In dwelling units in which a backwater valve is installed in accordance with this section, the owner shall execute a release and indemnification agreement in accordance with Section 33-35 (H)(1) of the Murfreesboro City Code."

(RR) Section P3009 on gray water recycling systems is deleted in its entirety.

SECTION 5. Chapter 7, Buildings, of the Murfreesboro City Code, is hereby amended by adding the following Sections 7-13 and 7-13.1, dealing with the International Swimming Pool and Spa Code.

SECTION 7-13 INTERNATIONAL SWIMMING POOL AND SPA CODE – ADOPTED.

All construction, alteration, movement, enlargement, replacement, repairs, equipment, location, maintenance and renewal of every aquatic recreation facilities, pool and spas in

the City shall comply with the provisions of the 2018 International Swimming Pool and Spa Code published by the International Code Council, one (1) copy of which has been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified or deleted in this chapter.

SECTION 7-13.1 INTERNATIONAL SWIMMING POOL AND SPA CODE - AMENDED.

The International Swimming Pool and Spa Code is hereby amended, modified or deleted as follows:

(A) Section 101.1Title is amended by deleting the phrase "name of jurisdiction" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."
(B) Section 101.2 Scope is amended by adding the following paragraph: "Exception: Commercial pools and defined and regulated by the Hotel and Public Swimming Pool Inspection Act set forth in T.C.A. § 68-14-301 et. seq.
(C) The 2018 International Swimming Pool and Spa Code is amended by deleting all references to the "department of building safety" and substituting in lieu thereof the phrase "Building and Codes Department."
(D) Section 105.3 Construction Documents is amended by adding the following new paragraph: "Exception: The code official shall have the authority to waive the requirement for construction drawings where the nature of the work applied for is such that reviewing of construction documents is not necessary to obtain compliance with this code."
(E) Section 105.6.2 Fee schedule is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "Permit fees shall be set by the City Council."
(F) Section 105.6.3 Fee Refunds is amended by deleting the text of this section in its entirety and substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."
(G) Section 107.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law.
(H) Section 108 Means of Appeal is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."
(I) Section 304 Flood Hazard Areas is amended by deleting this section in its entirely.
(J) Section 323 Safety is amended by adding a new section as follows: "323.4 Swimming Pool Alarms. All swimming pools installed or substantially altered at a residential dwelling on and after the effective date of January 1, 2011, shall be equipped with a properly functioning swimming pool alarm. 323.4.1 Definitions. For purposes of this section the terms "pool alarm", "residential dwelling", and "swimming pool" shall have the meanings established herein.
Pool alarm means a device which emits a sound of at least fifty decibels when a person or an object weighing fifteen pounds or more enters the water in a swimming pool but shall not include, swimming protection alarm devices designed for individual use, such as an alarm attached to a child that sounds when the child exceeds a certain distance of becomes submerged in water.
Residential dwelling means a one-family dwelling structure.
Swimming pool means any structure that is intended for swimming or recreational bathing and contains water over thirty-six (36) inches deep, including but not limited to, in-ground, above ground, and on-ground swimming pools, hot tubs, and non-portable spas, but does not mean a public swimming pool (defined as spa-type) wading, special purpose pools or water recreation attractions, including, but not limited to, those operated by camps, child care facilities, cities, clubs, subdivisions, apartment buildings, counties, institutions, schools, motels, hotels, and mobile home parks to which admission may be gained with or without payment of a fee, nor does it mean a

multi-family residential housing swimming pool (defined as a private swimming pool maintained by a homeowners' association solely for the use and benefit of the members of the homeowners' association and their guests).

(K) Add new section as follows "323.4.2 Building Permits; The Chief Building Official shall not issue a building permit for the construction or substantial alteration of a swimming pool located at a residential dwelling unless the project calls for a functioning swimming pool alarm to be installed prior to the completion of the project. In addition, when an electrical inspection is required for the installation of a swimming pool at a residential dwelling, the electrical inspector shall not give final approval for the electrical wiring unless a properly functioning swimming pool alarm has been installed."

SECTION 6. Sections 7-14 and 7-15 of the Murfreesboro City Code, dealing with the International Energy Conservation Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 7-14 INTERNATIONAL ENERGY CONSERVATION CODE - ADOPTED.

All new construction of every habitable building or structure in the City shall comply with the provisions of the 2018 International Energy Conservation Code, published by the International Code Council, one copy of which has been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified, or deleted in this chapter.

SECTION 7-15 INTERNATIONAL ENERGY CONSERVATION CODE - AMENDED.

The International Energy Conservation Code is hereby specifically amended, modified, or deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) Section 103.1 on construction documents is amended by adding the following at the end of the section's first paragraph: "The Chief Building Official may choose to accept a certification signed by a designer or contractor for compliance with this code for all structures except single family dwellings, townhomes and duplexes."

(C) Section 105.1 on inspections is amended by adding the following sentence at the end of the section: "The Chief Building Official may choose to base approval of any construction or building, other than single-family dwellings, townhomes and duplexes, on a certification by the designer or contractor that the construction or building complies with this code."

(D) Section 104.2 on schedule of permit fees is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "Permit fees shall be set by the City Council."

(E) Section 104.3 on work commencing before permit issuance is amended by deleting the phrase "subject to an additional fee established by the code official, which shall be in addition to the required permit fees" and in lieu thereof substituting the following: "required to pay two times the established fee for the required permit. The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(F) Section 104.5 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(G) Section C109 on a board of appeals amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(H) Section R104 on schedule of permit fees is amended by deleting the text of this

section in its entirety and in lieu thereof substituting the following: "Permit fees shall be set by the City Council."

(I) Section R104.3 on work commencing before permit issuance is amended by deleting the phrase "subject to an additional fee established by the code official, which shall be in addition to the required permit fees" and in lieu thereof substituting the following: "required to pay two times the established fee for the required permit. The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(J) Section R104.5 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(K) Section R109 on a board of appeals amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(L)Section R202 is amended by deleting the existing definition for "Residential Building" and lieu thereof substituting the following: "For the purposes of this code is a single-family dwelling, townhome, or duplex."

(M) Table R402.1.2 Insulation and Fenestration requirements by component. Delete the numbers in the row for climate zone "4 except marine" and substitute with the following:

Fenestration U factor substitute 0.32 in lieu thereof
Skylight U factor substitute" 0.60"
Glazed fenestration substitute "NR"
Ceiling R value substitute "38"
Wood frame wall R value substitute "13"
Mass wall R-value substitute "5/10"
Floor R-value substitute"19"

(N) Table R402.1.4 equivalent U-factors delete the numbers in row for climate zone "4 except marine and substitute the following:

Fenestration U factor substitute "0.35"
Skylight U factor substitute "0.60"
Ceiling U factor substitute "0.030"
Wood frame wall R value substitute "0.082"
Mass wall U factor substitute "1.141"

(O) R402.4.1.2 Testing. Delete "three air changes per hour" and substitute "7 air changes per hour" and deleting the last two sentences in the first paragraph and add the following in lieu thereof:

"The test must be performed by a person certified as a Home Energy Rating Systems (HERS) rater or Duct and Envelope Tightness Verifier or who possesses a current professional certification from HERS rater, Building Performance Institute or other similar entity designated by the Chief Building Official. This test cannot be performed by the prime contractor as listed on the building permit or a direct employee of the prime contractor. A certification from the person performing the test shall be submitted with the following information:

(1) Address where test was performed;
(2) Name of person performing the test;
(3) Company name;
(4) Date when the test was performed; and
(5) Results of the test in A.C.H.;
(6) Outside air required by whole house ventilation system;
(7) Actual outside air provided by whole house ventilation system."

(P) R402.4.4 Delete this section in its entirety

(Q) R403.3.3 Duct testing (mandatory). Delete the last paragraph in its entirety beginning with "a written report..." and substitute the following:

Section 403.2.2 on sealing (Mandatory) is amended by adding the following sentence to the end of the first paragraph: "The test must be performed by a person certified as a Home Energy Rating Systems (HERS) rater or Duct and envelope Tightness Verifier

or who possesses a current professional certification from HERS rater, Building Performance Institute or other similar entity designated by the Chief Building Official. This test cannot be performed by the prime contractor as listed on the building permit or a direct employee of the prime contractor. A certification from the person performing the test shall be submitted with the following information:

(1) Address where test was performed;
(2) Name of person performing the test;
(3) Company name;
(4) Date when the test was performed;
(5) Square footage of the conditioned space;
(6) Results of test in cubic feet per minute per square footage of the conditioned space; and
(7) Whether the test was performed at rough-in or post construction."

(R) R403.3.4 Duct leakage (prescriptive). On 1. Rough-in test, change "4cubic feet per minute (113.3 L/M)" to read "6cfm (169.9 L/M)" and "3 cubic feet per minute (85 L/min)" to read "4cfm (113.3 L/Min). On 2. Post construction test change "4 cubic feet per minute (113.3 L/min)" to read "12 cfm (339.8 L/min)".

SECTION 7. Section 7-16 of the Murfreesboro City Code, dealing with the Construction Board of Adjustments and Appeals, is hereby amended by deleting the section in its entirety and substituting in lieu thereof the following:

SECTION 7-16 CONSTRUCTION BOARD OF ADJUSTMENTS AND APPEALS.

(A) *Creation; appointment, qualification, replacement, and removal of members.* A Construction Board of Adjustments and Appeals is hereby established. The Board shall consist of seven members appointed by the Mayor and confirmed by a majority vote of the City Council to staggered, three-year terms. Each member appointed to the Board shall be qualified by experience and training to pass on matters pertaining to building and residential design and construction, property maintenance, energy conservation, fire protection, and/or electrical, plumbing, mechanical, or fuel gas systems. No member of the Board shall be an employee of the City. Members shall serve without pay and may be reappointed to additional terms without limit. Vacancies shall be filled for any unexpired term by the Mayor and confirmed by a majority vote of the City Council. Board members may be removed by a majority vote of the Council for inefficiency, neglect of duty, or malfeasance in office after being given an opportunity for a hearing before the Council.

(B) *Organization.* The Board shall elect a Chair and Vice Chair from its membership on an annual basis. The term of each such office shall be one (1) year, with members eligible for reelection for additional terms. The election of said officers shall be held at the first meeting of the Board each calendar year. If a vacancy occurs during the year, it shall be filled by an election at the next regular meeting. In the event that both the Chair and Vice Chair are absent and/or are required to recuse themselves from a matter, but otherwise a quorum is present, the other members present shall elect a Chair Pro Tem for purposes of the meeting or matter. The Building and Codes Director shall designate a qualified member of the Building and Codes Department to serve as secretary to the Board, who shall keep a record of the Board's meetings and determinations. Such record shall be a public record, filed in the offices of the Building and Codes Department.

(C) *Meetings.* Regular meetings of the Board shall be held once a month, unless cancelled by the Chair due to a lack of matters requiring the Board's consideration. The Chair shall have authority to call special meetings of the Board. A simple majority of the Board's membership shall constitute a quorum.

(D) *Procedures.* The Board shall adopt procedures pursuant to which all hearings will be conducted.

(E) *Powers and authority.* The Board shall have the authority to hear appeals as authorized by the Murfreesboro City Code, including, without limitation, the authority to hear appeals from a decision, notice, or order of the Chief Building Official or the Chief Building Official's designee enforcing any provision of International Building Code, the International Residential Code, the International Property Maintenance Code, the International Mechanical Code, the International Plumbing Code, the

International Fuel Gas Code, the International Fire Code, the International Energy Conservation Code, the Standard Excavation Code, 2010 ADA Standard for Accessible Design, ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities, International Pool and Spa Code, International Existing Building Code, and Chapter 21, Article V., Noise Control, of the Murfreesboro City Code, as such codes and standards have been adopted and amended by ordinance. The Board shall have the power to modify or reverse any such decision, notice, or order upon a finding based on a preponderance of the evidence presented:

(1) That the true intent and meaning of any provision of the above-referenced codes and standards, or any of the rules legally adopted thereunder, have been incorrectly interpreted;

(2) That a provision of the above-referenced codes and standards on which the challenged decision, notice, or order is based does not apply under the circumstances;

(3) That an equally good or better form of construction is proposed;

(4) That the requirements of the above-referenced codes and standards are adequately satisfied by other means; and/or

(5) That the strict application of any requirement of the minimum property codes would cause an undue hardship for a party affected by the decision, order, or notice and relief from the strict application of such requirement would not create an undue risk to the health and safety of the occupants of the structure in question or the general public.

(F) *Application for appeal.* Any person directly affected by a decision of the a decision, notice, or order of the Chief Building Official, or the Chief Building Official's designee, enforcing any provision of International Building Code, the International Residential Code, the International Property Maintenance Code, the International Mechanical Code, the International Plumbing Code, the International Fuel Gas Code, the International Fire Code, the International Energy Conservation Code, the Standard Excavation Code, the 2010 ADA Standards for Accessible Design, the ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities, International Pool and Spa Code, International Existing Building Code, and Chapter 21, Article V., Noise Control, of the Murfreesboro City Code, as such codes and standards have been adopted and amended by ordinance, shall have the right to appeal to the Construction Board of Adjustments and Appeals, provided that a written application for appeal is filed within twenty (20) calendar days after the day the decision, notice, or order was served. If the decision, notice, or order is served by mail, three (3) days shall be added to the time within which the written application for appeal must be filed.

(G) *Notice of hearing.* An appellant shall be afforded at least ten (10) days' written notice of the meeting at which the appellant's appeal will be considered by the Board, unless appellant waives such notice.

(H) *Board decisions.* The Board shall modify or reverse the decision, notice, or order appealed from only by a vote of a majority of the Board members hearing the appeal. The Board may condition any relief on the appellant's performance of specific actions and may prescribe appropriate conditions and safeguards in conformity with applicable code(s) and standard(s). In addition, the Board may prescribe a reasonable time limit within which any action required of the appellant shall be commenced or completed, or both. Violation of such conditions or time limits shall be deemed a violation of the applicable code(s) or standard(s). Each decision shall be in the form of a written order, setting forth the factual basis for the decision and any conditions or time limits placed on the relief afforded, if any. A copy of the decision shall be furnished to the appellant.

(I) *Action on board decisions.* The Chief Building Official shall take immediate action in accordance with the decision of the Board, unless the City Manager and City Attorney authorize application to the Chancery Court for Rutherford County for a writ of certiorari to correct errors of law.

(J) *Court review.* Any person, whether or not a previous party to the appeal, shall have the right to apply to the Chancery Court for Rutherford County for a writ certiorari to correct errors of law. Application for review shall be made in the matter and time required by law following the filing of the decision in the office of the Chief Building Official.

(K) *Stays of enforcement.* An appeal from a decision, notice, or order (other than Imminent Danger notices and Stop Work orders) issued by the Chief Building Official,

or the Chief Building Official's designee, shall stay the enforcement of the notice and order until the appeal is heard by the Board.

SECTION 8. Chapter 11, Article II of the Murfreesboro City Code, dealing with the National Electrical Code, is hereby amended by deleting Section 11-4 in its entirety and substituting in lieu thereof the following new Section 11-4 and by creating a new Section 11-4.1:

SECTION 11-4 NATIONAL ELECTRICAL CODE - ADOPTED.

Except as otherwise provided in this chapter, all electrical construction and installations and all materials and appliances used in connection with electrical work and the operation of all electrical apparatus in the City shall conform both to the rules and regulations and provisions of the 2017 National Electrical Code and the applicable rules of the State of Tennessee, Department of Commerce and Insurance, Division of Fire Prevention. The 2017 National Electrical Code, as amended herein and all the provisions thereof are hereby approved and hereby adopted as the electrical code of the City and incorporated into this chapter as if set forth verbatim, not less than one copy each of said code having heretofore been filed in the office of the City Recorder.

SECTION 11-4.1 NATIONAL ELECTRICAL CODE - AMENDED.

The National Electrical Code, 2017 Edition, is hereby specifically amended, modified or deleted as follows:

(A) Section 210.12, Arc Fault Circuit Interrupter Protection Dwelling units is amended by adding the following after the first paragraph: "Exception: Arc fault circuit interrupters are optional for bathrooms, laundry areas, garages and unfinished basements which are portions or areas of the basement not intended as habitable rooms and limited to storage, work or similar area, and for branch circuits dedicated to supplying refrigeration equipment.

(B) Section 210.19(A)(3), Household Ranges and Cooking Appliances, is amended by adding a new subsection (A) to read as follows: "Where installed as separate units, ovens and cooktop units shall be served by individual circuits."

(C) Section 210.52(A)(1), Spacing, is amended by adding an exemption to read as follows: "Receptacles are not required in wall spaces behind doors which may be opened fully against a wall surface; wall spaces measurements shall begin at the edge of the door when fully opened."

(D) Section 210.52(C)(2), Island Counter Spaces, and 210.52(C)(3), Peninsular Counter Spaces, is amended by adding an exemption to read as follows: "The installation of receptacles for island counter space and peninsular counter spaces below the counter top shall be optional."

(E) Section 230.71(A), Maximum Number of Disconnects, General, is amended by adding a new subsection (1) to read as follows: "Services equipment in dwelling units shall have only one (1) main means of disconnecting service of 225 amps or below."

(F) Section 240.15 (B), Ungrounded Conductors Closed-Loop Power Distribution Systems, is amended by adding an exemption to read as follows: "Circuit breakers used as over current protectors for circuits serving devices not requiring a grounded (neutral) conductor, such as a 240v water heater shall be multiple breakers. Single Pole circuit breakers with tie handles shall not be approved for this purpose."

(G) Section 334.15(C) is amended by adding the following to the end of the paragraph: "Exception: Nonmetallic-Sheathed Cable shall not be required to be run through bored holes in unfinished basements and crawl spaces with less than four feet (4') and six inches (6") of clearance."

SECTION 9. Section 11-13 of the Murfreesboro City Code, dealing with required inspections, is hereby amended by adding the following at the end of subsection (C):

"One- and two-family dwellings and townhomes must have temporary power on the structure prior to performing the final electrical inspection."

Section 11-13 is further amended by adding a new subsection (F) as follows:

"(F) Service release inspections must be completed prior to temporary service connection to a building or structure."

SECTION 10. Section 11-24 of the Murfreesboro City Code, dealing with temporary and permanent service connections, is hereby amended by adding a new subsection (C) as follows:

(C) With respect to one- and two-family dwellings and townhomes only, a contractor, after receiving approval from the electrical inspector, may supply and use electrical current during construction as part of the electrical installation for 180 days before such installation has been fully completed and the certificate of occupancy has been issued. The release of temporary power is not permission to occupy the structure prior to issuance of the certificate of occupancy. If the structure is occupied under temporary power, the permit holder or general contractor will not be eligible for any other building permits and subject to violations and penalty per Section 11-29, for any period that the structure is occupied prior to the issuance of a certificate of occupancy.

SECTION 11. Sections 12-1 and 12-1.1 of the Murfreesboro City Code, dealing with the International Fire Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 12-1 INTERNATIONAL FIRE CODE - ADOPTED.

All structures and premises and all processes and safeguards from the hazard of fire and explosion arising from storage, handling, or use of structures, materials, devices and matters related to the construction, extension, repair, alteration, or removal of fire suppression and alarm systems in the City shall comply with the provisions of the 2018 International Fire Code, including Appendix Chapters C, and D, published by the International Code Council, one copy of which has been filed and remains on file in the office of the City Recorder, is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, and except as specifically amended, modified or deleted in this chapter.

SECTION 12-1.1 INTERNATIONAL FIRE CODE - AMENDED.

The International Fire Code is hereby specifically amended, modified, or deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."
(B) Section 103 on creation of a department is amended by deleting the phrase "department of fire prevention" and substituting in lieu thereof the phrase "Murfreesboro Fire & Rescue Department."
(C) Section 105 on permits is deleted.
(D) Section 106 on Fees is deleted.
(E) Section 108 on a board of appeals is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the fire code official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."
(F) Section 113 on fees is deleted.
(G) Section 404.2.3 is amended by deleting the word "approved" in the first sentence and substituting the word "reviewed".
(H) Section 505.1 is amended by deleting the section's fifth and sixth sentences, which begins "Numbers shall be..." and substituting in lieu thereof the following: "Except for buildings located on the City's public square and for townhomes, single-family

dwellings, and duplex buildings located elsewhere within the City, numbers shall be a minimum of 8 inches (203.2 mm) high with a minimum stroke width of 1.5 inches (38.1 mm)."

(I) Appendix B Fire Flow Requirements for Buildings is adopted.

(J) Appendix C Fire Hydrant Locations and Distribution is Hereby adopted.

(H) Appendix D Fire Apparatus Access Roads is amended as follows:

(1) Section D103.1 is amended by deleting the phrase "26 feet (7925 mm)" and in lieu thereof substituting "20 feet (6096 mm)."

(2) Table D103.4 and Figure D103.1 are amended by deleting all references to "96-foot diameter cul-de-sac" and in lieu thereof substituting "84-foot diameter cul-de-sac."

(3) Section D107 is deleted.

SECTION 12. Sections 15-1, 15-2, and 15-3 of the Murfreesboro City Code, dealing with the International Fuel Gas Code, are hereby amended by deleting them in their entirety and in lieu thereof substituting the following:

SECTION 15-1 INTERNATIONAL FUEL GAS CODE - ADOPTED.

All construction, installation, alteration, replacement, enlargement, repairs, and maintenance of fuel gas systems and system components within the City, except those located in one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures, shall comply with the provisions of the 2018 International Fuel Gas Code, published by the International Code Council, one copy of which has been filed and remains on file in the office of the City Recorder, which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified, or deleted in this chapter. All construction, installation, alteration, replacement, enlargement, repairs, and maintenance of fuel gas systems and system components located in one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures shall comply with the provisions of the International Residential Code, as adopted and approved and incorporated into this chapter.

SECTION 15-2 INTERNATIONAL FUEL GAS CODE - AMENDED.

The International Fuel Gas Code is hereby specifically amended, modified, or deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) Section 103.1 on creating a department of fuel gas inspection is amended by deleting the phrase "department of fuel gas inspection" and substituting in lieu thereof the phrase "Building and Codes Department."

(C) Section 104.4 on inspections is amended by adding the following to the end of this section: "Inspection of a gas equipment or appliance change out with like equipment or appliance having the same input BTU rating that is performed by a gas contractor licensed with the City of Murfreesboro is not required."

(D) Section 106.2 on work exempt from permits is hereby amended by adding two exemptions that shall read as follows:

"3. Replacement of any like gas appliance or equipment with the same input BTU rating when work is performed by a gas contractor licensed with the City of Murfreesboro.

4. Emergency repairs may be performed at night, or weekends and holidays, and during a natural disaster without first obtaining a permit. However, a permit must be obtained within the next two working days, unless the type of work performed is exempt from permits."

(E) Section 106.6.1 on work commencing before permit issuance is amended by deleting the phrase "subject to an additional fee established by the code official, which shall be in addition to the required permit fees" and in lieu thereof substituting the following: "required to pay two times the established fee for the required permit. The Chief

Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(F) Section 106.6.2 on schedule of permit fees is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "Permit fees shall be set by the City Council."

(G) Section 106.6.3 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(H) Section 109 on means of appeals amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(I) Section 623 on cooking appliances is amended by adding a new section that shall read as follows:
"623.8 Commercial cooking appliance safeguard devices. All commercial gas-fired cooking equipment, new or used, must be equipped with a flame safeguard device that shall automatically shut off the fuel supply to a main burner or group of burners when the means of ignition of such burners becomes inoperable."

SECTION 15-3 RESERVED.

SECTION 13. Sections 17-1 and 17-2 of the Murfreesboro City Code, dealing with the International Property Maintenance Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 17-1 INTERNATIONAL PROPERTY MAINTENANCE CODE - ADOPTED.

All existing residential and nonresidential structures, including all equipment and systems located therein, and all existing premises, structures, and facilities, within the City shall be maintained with respect to light, ventilation, space, safety from fire and other hazards, sanitation, occupancy, and use in accordance with the provisions of the 2018 International Property Maintenance Code, including Appendix A, published by the International Code Council, one (1) copy of which has been filed and remains on file in the office of the City Recorder, and which is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified or deleted as provide in this chapter.

SECTION 17-2 INTERNATIONAL PROPERTY MAINTENANCE CODE - AMENDED.

The International Property Maintenance Code is hereby specifically amended, modified or deleted as follows:

(A) Section 101.1 is amended by deleting the phrase "[name of jurisdiction]" and substituting in lieu thereof the phrase "the City of Murfreesboro, Tennessee."

(B) Section 103.1 on creating a department of property maintenance is amended by deleting the phrase "Department of Property Maintenance" and substituting in lieu thereof the phrase "Building and Codes Department."

(C) Section 103.5 is amended fees by deleting the text of this section in its entirety and in lieu thereof substituting the following: "Fees for activities and services performed by the department in carrying out its responsibilities under this code shall be set by the City Council."

(D) Section 111 on means of appeals amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code."

(E) Section 112.4 on failure to comply with a stop work order is amended by deleting the phrase "not less than [AMOUNT] dollars or more than [AMOUNT] dollars" and in lieu thereof substituting the phrase "up to fifty (50) dollars per day that the unauthorized work is continued."
(F) Section 302.1 on sanitation is amended by adding the following sentence to the end of the paragraph: "Furniture intended for indoor use shall not be stored or used outdoors."
(G) Section 302.4 on weeds is amended by deleting the text in its entirety and lieu thereof substituting the following: "All premises and exterior property shall be maintained free from weeds, plant growth, and refuse in accordance with the City's Weed and Refuse Ordinance, Sections 14-50 through 14-58 of the Murfreesboro City Code."
(H) Section 302.8 on motor vehicles sanitation is amended by adding the following sentence to the end of the paragraph: "Parking of motor vehicles on lawn or grass areas is not permitted."
(I) Section 304.3 on premises identification is amended by deleting the word "Buildings" from the beginning of the first sentence and lieu thereof substituting the phrase "Townhomes, single-family dwellings, and duplex buildings" and by adding the following sentence to the end of the paragraph: "All other structures must comply with the International Fire Code, as amended."
(J) Section 304.13.2 on openable windows is amended by adding exception at the end of the section's existing text: "Exception: Windows not required by this code for ventilation or emergency egress shall not be required to open, provided that every required emergency egress window is so designated with a fire emblem or decal placed by the owner on the glazing of every required emergency egress window."
(K) Section 304.14 on insect screens is amended by inserting the words "April 1 to October 1" in lieu of "[Date] to [Date]".
(L) Section 403.2 on bathroom and toilet rooms is amended by adding the following exception at the end of the section's existing text: "Exception: When a listed and labeled recirculating fan is installed in accordance with the manufacturer's installation instructions, it shall not be required to discharge to the outdoors."
(M) Section 502.4 on employees' facilities is amended by deleting the phrase "and one drinking facility."
(N) Sections 602.3 and 602.4 on heating facilities are amended by inserting the words "October 1 to April 30" in lieu of "[Date] to [Date]"."

SECTION 14. Sections 23-1, 23-2 and 23-3 of the Murfreesboro City Code, dealing with the International Plumbing Code, are hereby amended by deleting the sections in their entirety and substituting in lieu thereof the following:

SECTION 23-1 INTERNATIONAL PLUMBING CODE - ADOPTED.

All construction, installation, alteration, replacement, enlargement, repairs and maintenance of plumbing systems and system components within the City, or connected to the City water and/or sewerage systems, except those located in one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures, shall comply with the provisions of the 2018 International Plumbing Code, including Appendix Chapter B, published by the International Code Council, one copy of which has been filed and remains on file in the office of the City Recorder, is hereby adopted and approved and incorporated into this chapter as fully and effectually as if set out at length herein, except as specifically amended, modified or deleted in this chapter. All construction, installation, alteration, replacement, enlargement, repairs, and maintenance of plumbing systems and system components located in one and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures within the City, or connected to the City water and/or sewerage systems shall comply with the provisions of the International Residential Code, as adopted and approved and incorporated into this chapter.

SECTION 23-2 INTERNATIONAL PLUMBING CODE - AMENDED.

(A) Section 103.1 creating a plumbing department is amended by deleting the phrase "department of plumbing inspection" and substituting the phrase "Building and Codes Department."

(B) Section 106.2 on plumbing work exempt from permits is amended by adding an exemption to read as follows: "(3) Emergency repairs may be performed at night, on weekends and holidays, and following a natural disaster, without first obtaining a permit. However, a permit must be obtained within the next two working days, unless the type of work performed is exempt from a permit."

(C) Section 106.6.1 on work commencing before permit issuance is amended by adding the following sentence to the end of the section: "The Chief Building Official may waive the doubling of the established fee where the contractor or other person applying for the permit demonstrates good cause for the failure to obtain the required permit before commencing work."

(D) Section 106.6.2 on fee schedule is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "Permit fees shall be set by the City Council."

(E) Section 106.6.3 on refunds is amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "The City Council shall adopt a policy governing the refunding of permit fees."

(F) Section 109 on means of appeals amended by deleting the text of this section in its entirety and in lieu thereof substituting the following: "Except for appeals for variances to the connection backflow and back-siphonage requirements set forth in this code, the Construction Board of Adjustments and Appeals for the City of Murfreesboro shall have the authority to hear and decide appeals of any order, decision, or determination made by the Chief Building Official relative to the application and interpretation of this code, in accordance with the procedures set forth in Section 7-16 of the Murfreesboro City Code. The Murfreesboro Water Resources Board shall be the backflow and back-siphonage Control Board and shall hear all appeals for variances to cross connection backflow and back-siphonage requirements."

(G) Section 302 on exclusion of materials detrimental to the sewer system is amended by deleting the section in its entirety and substituting in lieu thereof the following: "Detrimental or dangerous materials and industrial wastes shall comply with Section 33-36 through 33-43 of the Murfreesboro City Code."

(H) Section 306.3 on backfilling is amended by adding the following sentence to the end of this section: "All pipe shall be placed on a No. 67 bedding and initial fill of No. 67 stone over the top of the pipe a minimum of six inches in depth".

(I) Section 416 on food waste grinder units is amended by deleting the section in its entirety and substituting in lieu thereof the following: "Use of garbage grinders by restaurants, institutional indoor commercial kitchens, or food wholesalers or retailers is prohibited in accordance with Section 33-36(A)(2)(E) of the Murfreesboro City Code."

(J) Section 605.3.1 on dual check-valve-type backflow preventers is amended by deleting this section in its entirety and substituting in lieu thereof the following: "Dual check-valve-type backflow preventers shall comply with Section 33-19(F)(2) of the Murfreesboro City Code."

(K) Section 607.2 on hot or tempered water supply to fixtures is amended by deleting the phrase "50 feet (15,240 mm)" and in lieu thereof substituting the phrase "100 feet (30,480 mm)."

(L) Section 608.1 on protection of the potable water supply is amended by adding at the end of the last sentence the following sentence: "Backflow preventer applications shall comply with Section 33-18 or Section 33-19 of the Murfreesboro City Code, whichever is more restrictive."

(M) Section 608.7 on cross connection control is amended by deleting the period at the end of the section and adding the following phrase: "pursuant to Sections 33-18 through 33-22 of the Murfreesboro City Code."

(N) Section 608.9 on identification of potable and non-potable water is amended by deleting the period at the end of the section and adding the following phrase: "and Section 33-19(I) of the Murfreesboro City Code."

(O) Section 608.14 on backflow protection is amended by deleting the period at the end of the section and adding the following phrase: "and Section 33-18 and Section 33-19 of the Murfreesboro City Code."

(P) Section 608.15 on location of backflow prevention devices is amended by deleting the period at the end of the section and adding the following phrase: "and Section 33-19(G) of the Murfreesboro City Code."

(Q) Section 608.15.1 on outdoor enclosures for backflow prevention devices is amended by deleting the period at the end of the section and adding the following phrase: "and Section 33-19(G) of the Murfreesboro City Code."

(R) Section 608.16.1 on protection by air gaps is amended by adding the following sentence to the end of the section: "The minimum air gap allowed is two inches."

(S) Section 608.17.4 on connections to automatic fire sprinkler systems is amended by deleting the period at the end of the section and adding the following phrase: "pursuant to Section 33-19(G) of the Murfreesboro City Code."

(T) Section 608.17.5 on connections to lawn irrigation systems is amended by deleting the words "an atmospheric type vacuum breaker, a pressure vacuum breaker or" in the first sentence of this section.

(U) Section 701.2 on sewer required is amended by adding the following sentence to the end of this section: "Where available shall be the same as 'accessible sewer' as defined and regulated in Section 33-400 of the Murfreesboro City Code."

(V) Section 701.5 on damage to drainage system of public sewer is amended by deleting the phrase "Section 1003" and substituting in lieu thereof the phrase "Section 33-36 through Section 33-43 of the Murfreesboro City Code."

(W) Section 702.5 on connections is amended by deleting the sentence, "Wastewater when discharged in the building sewer system shall be at a temperature not higher than 140 degrees Fahrenheit." and substituting in lieu thereof the following sentence: "Any liquid or vapor having a temperature higher than 150 degrees Fahrenheit or any combination of temperature and volume sufficient to raise the temperature of the wastewater plant influent to 100 degrees Fahrenheit is prohibited."

(X) Section 702.6 on chemical waste systems is amended by deleting the phrase "Section 803.2" and substituting in lieu thereof the phrase: "Section 33-36 through 33-43 of the Murfreesboro City Code."

(Y) Section 703 on building sewers is cumulative by adding the following subsection: "703.7 Maximum Building Sewer Length. The length of a building sewer on any single parcel shall not exceed the maximum length established in the most recent version of Section 5.1 of the Murfreesboro Water Resources Department Policies, Procedures and General Design Manual, approved by the City Council."

(Z) Section 712.1 on sumps and ejectors is amended by adding the following sentence to the end of the section: "In addition, where a sump and/or ejector is installed in accordance with this section, the owner shall execute a release and indemnification agreement in accordance with Section 33-35 (H)(1) of the Murfreesboro City Code."

(AA) Section 714.1 on backwater valve sewage backflow is amended by adding the following sentence to the end of the section: "In addition, where a backwater valve is installed in accordance with this section, the owner shall execute a release and indemnification agreement in accordance with Section 33-35 (H)(1) of the Murfreesboro City Code."

(BB) Section 802.3.1 on air gaps is amended by adding the following sentence to the end of the section: "The minimum air gap permitted is two inches."

(CC) Section 803 on special waste is amended by adding the following sentence to the end of the section: "Special waste shall also comply with Section 33-35 through Section 33-43 of the Murfreesboro City Code."

(DD) Section 903.1 on roof extensions is amended by deleting the word "[number]" and substituting in lieu thereof "six (6) inches."

(EE) Section 1003.2 on approval of interceptors and separators is amended by adding the following sentence to the end of this section: "Section 33-36(E) and (F) of the Murfreesboro City Code shall govern the size, type, and location of each interceptor and separator."

(FF) Section 1003.3.2 on food waste grinders is amended by deleting the section in its entirety and substituting in lieu thereof the following: "Use of garbage grinders by restaurants, institutional indoor commercial kitchens, or food wholesalers or retailers is prohibited in accordance with Section 33-36(A)(2)(E) of the Murfreesboro City Code."

(GG) Section 1003.3.4 on grease traps is amended by deleting the section in its entirety and substituting in lieu thereof the following: "Grease traps shall be of a type and

capacity specifically approved by the Murfreesboro Water Resources Department and shall be located at a site specifically approved by that Department."

(HH) Chapter 13 on gray water recycling is amended by deleting the chapter in its entirety and replacing it with a new "Chapter 13 Use of Re-Purified Water Systems in Commercial Buildings" that reads as follows:

"Section 1301 General

1301.1 Scope. The provisions of Chapter 13 shall govern the use, materials, design, construction, and installation of re-purified water systems in commercial buildings for flushing of water closets/toilets and urinals.

1301.2 Use of re-purified water. Re-purified water systems may be installed and used only in commercial buildings and only to supply water closets/toilets and urinals.

1301.3 Tests. All components of re-purified water systems shall be tested in accordance with Section 312.

1301.3 Inspections. Re-purified water systems shall be inspected by Murfreesboro Water Resources Department in accordance with Section 107 and as may be required by the Water Resources Director.

Section 1302 Permits

1302.1 When Required

Any owner, authorized agent, or contract who desires to install, enlarge, alter, repair, convert, or replace any re-purified water system in a commercial building, or who causes such work to be done, shall first make application to the Chief Building Official and obtain the required permit for the work.

1302.2 Submittal of plans to Murfreesboro Water Resources Department

All applicants seeking a permit relating to the installation, enlargement, alteration, repair, conversion, or replacement of a re-purified water system must submit a complete set of plans for the system to the Director of the Murfreesboro Water Resources Department, along with any other documentation, legal or otherwise, that may be required by the Murfreesboro Water Resource Director.

1302.3 Approval by Murfreesboro Water Resources Department

No permit relating to the installation, enlargement, alteration, repair, conversion, or replacement of a re-purified water system may issue without the written approval of the Director of the Murfreesboro Water Resources Department.

Section 1303 System Requirements

1303.1 Materials

Pipe materials shall conform to Section 605.4.

1303.2 Identification

All re-purified system piping must be purple in color and labeled "NON-POTABLE – DO NOT DRINK" in black lettering. The purple color must be integral to the material of all pipes, pipe fittings, and appurtenances. Painted pipe, fittings, or appurtenances will not be accepted. The labeling must be permanently applied to the pipe, by either integrating into the pipe during the manufacturing process or by use of a permanently attached label. This label shall be no further apart than four feet on center. If the selected material cannot be manufactured with the required integrated purple color, then a permanent adhesive tape with the purple background and the required lettering must be secured to the entire length of the pipe. The required lettering must be placed so that it is readily visible on at least two sides if the pipe were to be exposed.

1303.3 No cross-connections. There shall be absolutely no cross-connection between the re-purified system and the potable water supply system. This includes, but not limited to: air gaps, back-flow preventers or any other cross-connection control device.

1303.4 Coloring. The re-purified water system shall have a permanent, automatic system that will inject a blue colored dye into the re-purified system. This device must be connected to the re-purified system as it enters the building and before any branches of the system. A check-valve and a separate stop valve shall be installed on the re-purified system prior to the connection of dye system, in order to prevent dye from entering the public portion of the re-purified supply system.

1303.5 Signs. Permanently attached signs stating "CAUTION – NON-POTABLE WATER" shall be placed at the shut off valve for each connected fixture and inside the tank of all tank-type water closets. For urinals said signs shall be placed on the wall directly above the urinal and no higher than eighteen inches above the top of the urinal itself. These signs must be constructed of non-corrosive material with the lettering permanently integrated into the sign."

(II) For purposes of determining and enforcing requirements of this code relating to the sizing building roof and storm drains, the rainfall rate design value of 3.3 inches per hour, based on a one-hundred-year hourly rainfall rate, shall be used.

SECTION 23-3 RESERVED.

SECTION 15. This Ordinance shall take effect on February 1, 2019, or fifteen (15) days after its passage upon second and final reading, whichever shall last occur, the public welfare and the welfare of the City requiring it. Except as provided more specifically in subsections (A) and (B) below, the Codes, Code editions, and Code amendments adopted by this Ordinance shall be applied to all permit applications, building plans, and property maintenance issues considered or arising after the effective date of this Ordinance.

(A) Townhomes. Any townhome building for which a building permit is obtained after the effective date of this Ordinance must comply with the Codes, Code editions, and Code amendments adopted by this Ordinance regardless of when an applicant initially submits the building plans for review by the Building and Codes Department.

(B) Plans for buildings other than townhomes submitted for review before June 1, 2019. Permit applicants submitting plans for any building other than a townhome for review by the Building and Codes Department before June 1, 2019, must obtain a building permit on or before September 1, 2019. If a permit is not obtained on or before September 1, 2019, the permit applicant shall be required to resubmit plans that comply with the Codes, Code editions, and Code amendments adopted by this Ordinance in order to obtain a building permit.

Passed:

1st reading December 20, 2018

2nd reading January 17, 2019

Shane McFarland, Mayor

ATTEST:

Melissa Wright
City Recorder

APPROVED AS TO FORM:

Adam F. Tucker
City Attorney

SEAL