



ORDINANCE NO. 5808

AN ORDINANCE ADOPTING THE 2021 EDITION OF THE INTERNATIONAL CODE COUNCIL INTERNATIONAL FIRE CODE INCLUDING CERTAIN APPENDICES IN THAT CODE, AND OTHER LOCAL AMENDMENTS, AND AMENDING CHAPTER 9-36 OF THE CITY OF MEMPHIS, CODE OF ORDINANCES.

WHEREAS, the Memphis City Council desires to adopt and maintain a comprehensive set of coordinated technical codes specifically related to fire prevention and to update those codes to assure the use of safe and effective fire protection measures in the construction and maintenance of commercial and residential buildings and structures within the Memphis community; and

WHEREAS, it has been determined that it is necessary and prudent to adopt newer code editions covering these important public safety requirements related to fire prevention and control which have previously been covered by regulations in the now obsolete 2015 edition of the *ICC International Fire Code*; and

WHEREAS, certain provisions of the 2021 Edition of the *ICC International Fire Code*, when adopted by the Council will provide a contemporary and internally consistent code for such fire prevention effort; and

WHEREAS, the Council believes it to be in the best interest of the citizens of Memphis that the 2021 Edition of the *ICC International Fire Code* be adopted.

NOW, THEREFORE BE IT ORDAINED BY THE MEMPHIS CITY COUNCIL,

(a) That Section 9-36-1 is hereby amended to read as follows:

Section 9-36-1. – International Fire Code adopted.

The 2021 Edition of the *ICC International Fire Code* is hereby adopted as the Fire Prevention Code of the City of Memphis, and such code shall have the same force and effect as if set out in full herein. The following Appendices of the 2021 Edition of the *ICC International Fire Code*, or as locally drafted, are also adopted. **Appendix B** – Fire-Flow Requirements for Buildings, **Appendix E** – Hazard Categories, **Appendix F** – Hazard Ranking, and **Appendix G** -Cryogenic Fluids – Weight and Volume Equivalents. Any appendix not listed in this ordinance is specifically not adopted; and

(b) **BE IT FURTHER ORDAINED**, That Section 9-36-4 is hereby amended to provide that the 2021 Edition of the *International Fire Code* is amended by adoption of the local amendments which shall read as follows:

The International Fire Code, 2021 Edition, is hereby amended as set out in this Article. All references to Chapter, Section and sub-section numbers in the text of the amendments hereafter set out shall be construed as if followed by the words, “of the Fire Code” unless clearly indicated to the contrary.

2021 International Fire Code Amendments

Chapter 1 Scope and Administration

101.1 Title is amended to delete the words “[NAME OF JURISDICTION],” and replace with the words “Memphis, Tennessee.”

104.6 Official records is amended to delete the entire section and subsections 104.6.1 Approvals, 104.6.2 Inspections, 104.6.3 Fire records, and 104.6.4 Administrative without substitution.

105.5.29 LP-gas is amended to add the following sentence at the end of section 1 after the word “gas”:

“It shall be the responsibility of the owner of the LP container to obtain the permit.”

105.5.49 Temporary membrane structures and tents is amended to delete the second exception and substitute in lieu thereof the following:

“2. Funeral tents and curtains or extensions attached thereto, when used for funeral services.”

105.5.49 Temporary membrane structures and tents is further amended by adding the following new sub-section:

105.5.49.1 Responsibility. It shall be the responsibility of the *owner* of the tent to obtain the permit.

105.6.24 Temporary membrane structures and tents is amended to delete the third exception without replacement.

105.6.24 Temporary membrane structures and tents is further amended by adding the following new sub-section:

105.6.24.1 Responsibility. It shall be the responsibility of the *owner* of the tent to obtain the permit.

106.4 Retention of construction documents is amended to delete the first sentence, “One set of construction documents shall be retained by the *fire code official* for a period of not less than 180 days from date of completion of the permitted work, or as required by state or local laws,” without substitution.

110.1 Authority to disconnect service utilities is amended to delete the last sentence, “If not notified prior to disconnection, then the owner, the owner’s authorized agent or occupant of the building, structure or service system shall be notified in writing as soon as practical thereafter,” without substitution.

111 Means of appeals is amended by adding the following new sub-section:

111.5 Notice of appeal. Notice of appeal shall be in writing and filed with the *fire code official* within 15 days of a decision that is rendered by the *fire code official*.

112.4 Violation penalties is amended to delete the words “guilty of a [SPECIFY OFFENSE], punishable by a fine of not more than [AMOUNT] dollars or by imprisonment not exceeding [NUMBER OF DAYS], or both such fine and imprisonment,” and replace with the words “subject to a citation and/or fines as determined by a court of law.”

113.4 Failure to comply is amended to delete the words “subject to fines established by the authority having jurisdiction” and replace with the words “guilty of a civil offense subject to a citation and/or fines as determined by a court of law.”

Chapter 2 Definitions

Section 202 General Definitions is amended by adding the following definitions:

Automated external defibrillator (AED): A medical device heart monitor and defibrillator that:

- (1) Has received approval of its premarket notification, filed pursuant to 21 U.S.C. §360(R), from the United States Food and Drug Administration.
- (2) Is capable of recognizing the presence or absence of ventricular fibrillation or rapid tachycardia, and is capable of determining, without intervention by an operator, whether defibrillation should be performed; and
- (3) Upon determining that defibrillation should be performed, automatically charges and requests delivery of an electrical impulse to an individual's heart.

Fenced compound: A property such as, but not limited to, a car lot, storage lot, warehouse, retail or wholesale business, night watchmen staffed facility, or facility that is open during business hours and uninhabited when closed, etc.

Light wood truss: Manufactured from the natural wood fiber in trees, cut and dried to nominal dimensions such as 2 x 4, 2 x 6, 2 x 8, 2 x 10, 2 x 12, etc., which is used in floor and ceiling systems. These wooden structures are composed of a combination of members such as chords, diagonals, and web members, usually in same triangular arrangements to constitute a rigid framework.

Chord: A principal member of a truss which extends from one end to the other, primarily to resist bending; usually one of a pair of such members.

Diagonal: In a framed structure, an inclined member running across a panel as in a truss.

Web: The portion of a truss or girder between the chords or flanges, whose principal function is to resist shear on the span.

Residential community: A community shall be defined as a location at which a group resides and/ or dwells, including but not limited to, apartments, hotels, modular home communities, private subdivision, etc.

Chapter 3 General Requirements

308.1.4 Open-flame cooking devices is amended to delete the second and third exceptions.

311.5 Placards is amended to delete the words “as required by Sections 311.5.1 through 311.5.5” after the word “marked.”

311.5.1 Placard location is deleted without substitution.

311.5.2 Placard size and color is deleted without substitution.

311.5.3 Placard date is deleted without substitution.

311.5.4 Placard symbols is deleted without substitution.

311.5.5 Informational use is deleted without substitution.

319.1 General is amended to add the following sentence after the section following the word “section”:

“Mobile units must remain mobile at all times during operation. The unit must be on wheels (excluding boats) at all times. Any mobile food unit that removes such wheels or becomes stationary must meet Tennessee Department of Health Regulations Chapter 1200-23-1 et seq. in its entirety. Mobile food preparation vehicles do not include pushcarts as regulated by city codes and prohibited from selling potentially hazardous foods by the state department of health, nor vehicles from which only ice cream and other frozen non-hazardous food products are sold, nor vehicles operating under special event permit.”

319.8.2 General is amended to add the words “in accordance with NFPA 96” at the end of the section following the word “movement.”

Chapter 4
Emergency Planning and Preparedness

401.1 Scope is amended to delete the exception without replacement.

402.1 Definitions is amended to add the following definition term:

“AUTOMATED EXTERNAL DEFIBRILLATOR (AED).”

Chapter 4 shall be amended by adding the following new section:

Section 408 Automated External Defibrillators

408.1 Where required. An Automated External Defibrillator shall be installed and maintained in newly constructed or newly classified Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies with an occupant load of 300 or more.

408.2 Location. Automated External Defibrillators shall be in conspicuous locations where they will be readily accessible and immediately available for use. AED devices, where required, shall be installed in sufficient numbers and in locations so that an AED device shall be accessible within three (3) minutes in the event of an emergency, in accordance with American Heart Association recommendations.

408.2.1 Unobstructed and unobscured. Automated External Defibrillators shall not be obstructed or obscured from view. Means shall be provided within occupancies and at outdoor public assemblages and events to indicate the location of AEDs.

408.2.2 Cabinets. Cabinets used to house Automated External Defibrillators shall not be locked.

Exceptions:

1. Where Automated External Defibrillators subject to malicious use or damage are provided with a means of ready access.
2. In Group I-3 occupancies and in mental health areas in Group I-2 occupancies, access to Automated External Defibrillators shall be permitted to be locked or to be in staff locations provided the staff has keys.

408.3 General requirements. Automated External Defibrillators and the programs for their use shall comply with the requirements set forth in the Tennessee Code Annotated and the rules adopted by the Tennessee Department of Health.

408.3.1 Required Maintenance. Automated External Defibrillators shall be maintained and tested in accordance to the manufacturer’s operational guidelines. Written records of all maintenance and testing performed on AEDs shall be maintained.

408.3.2 Registration. Automated External Defibrillators shall be registered with the primary provider of emergency medical services where the defibrillator is located. A copy of the required AED program and plan for each installation shall be included with the registration.

Chapter 5 Fire Service Features

502.1 Definitions is amended to add the following definition terms:

**FENCED COMPOUND.
RESIDENTIAL COMMUNITY.**

503.2.5 Dead ends is amended to add the following sentence after the section following the word “apparatus”:

“Turnarounds required by this section shall comply with Table D103.4 Requirements for Dead-End Fire Apparatus Access Roads in Appendix D.”

503.6 Security gates is amended to delete the entire section and substitute in lieu thereof the following:

503.6 Security gates. The installation of security gates across a fire apparatus access road shall be approved by the *fire code official*. Where security gates are installed, they shall have an approved means of emergency operation. Any gated and/or fenced community shall have at least one 20-foot opening gate which shall be designated as the Fire Department primary access. This gate shall conform to sections 503.6.1.1 through 503.6.1.6 and, if automated, shall be siren activated and equipped with both primary and secondary overrides.

Exception: Group R-3 occupancies are exempt from the requirements of this section when the fenced area is for a single occupancy.

503.6.1 Automatic gates. All automatic gates on required fire apparatus access roads, as determined by the *fire code official*, shall provide approved override and power-off equipment. This override system shall provide controls to open, override timer functions for emergency access, and power off equipment for manual operation.

503.6.1.1 Emergency override. Emergency override of all automated gate systems shall operate with power on or off. The emergency override system shall consist of a fire access housing designed as follows: The access box shall be red in color and display “Fire Dept.” or “Fire Access” in white letters on the face plate. The face plate shall be hinged and designed to accept a Medeco padlock, keyed to the Memphis Fire Department access key. The Fire Access housing shall be equipped with an internal switch so as when the pad lock is removed and the face plate is opened it will signal the automated gate to open. The automated gate shall remain open while the face plate remains open. Upon closing of the face plate and reinserting the Medeco pad lock, the automated gate shall return to normal operation. The Fire Access housing shall be installed in a manner as to be plainly visible from the cab of the approaching emergency vehicle.

503.6.1.2 Manual disconnects. All automated entry gates shall be equipped with Medeco padlocked disconnects for use if the power supply to the automated gate fails or the Fire Access housing device fails to open the gate.

503.6.1.2.1 For a sliding gate, the rear chain attachment point, at which the chain connects to the physical gate, shall be padlocked and secured with a Memphis Fire Department keyed Medeco lock. If the disconnect is not accessible from the public side or the secured sides of the gate, a walk gate padlocked with a Memphis Fire Department keyed Medeco lock shall be installed to allow access to the disconnect.

503.6.1.2.2 For a swing gate, the attachment point of the swing arm to the gate shall be equipped with a disconnect pin that shall be padlocked. As with the slide style gate, this pin shall be accessible from both the public and secured sides of the gate

503.6.1.3 Additional gates. If a community design prevents emergency equipment from accessing any area of the property from the primary access gate, it may be deemed necessary by the *fire code official* that more than one Fire Department access gate is required. Additional emergency access gates shall conform to the same standards as the primary gate, unless the *fire code official* declares these gates to be secondary, and allows them to be padlock secured with a Memphis Fire Department keyed Medco lock, interlocked with the owner's lock, rather than being automated.

503.6.1.4 Locking access gates. If locked, gates in fenced compounds shall be padlock secured with a Memphis Fire Department keyed Medeco padlock, interlocked with the owner's lock.

503.6.2 Access to hydrants. The *fire code official* shall require all fences that impede access to hydrants, whether from the street or to the protected structure, to have 48" walk gates installed at or near those hydrants. To allow proper access to the hydrant for firefighting purposes, these fences shall not be located within a 10' radius of the center line of the hydrant. Additionally, long runs of fencing that block access to buildings shall require the installation of walk gates at intervals not exceeding 300 linear feet. Gates installed at hydrants may be included to meet this requirement. If locked, required walk gates shall be equipped with Medeco locks properly keyed for Memphis Fire Department use.

505 Premises identification is amended to add the following new sub-section:

505.3 Identifying emblems for structures with light wood truss construction

505.3.1 Emblem permanently affixed. The identifying emblem shall be permanently affixed as prescribed by city ordinance at all buildings having light wood truss construction. This section shall not apply to one- and two-family dwellings.

505.3.2 Emblem description. The identifying emblem shall be in the shape of an isosceles triangle with a vertical height of six (6) inches and a horizontal length of twelve (12) inches. The background of the emblem shall be made of a white reflective material and all lettering thereon shall be made of a red reflective material, said lettering having a minimum height of at least four (4) inches with a one-half (½) inch stroke.

The emblem shall contain the following designations to identify the presence of light wood trusses in the structure:

- (1) “F” shall designate a floor with truss construction.
- (2) “R” shall designate a roof with truss construction.
- (3) “F/R” shall designate both a floor and roof truss construction.

505.3.3 Location of emblem. The emblem shall be permanently affixed at one of the following locations:

(1) Where a building or group of buildings has an approved fire apparatus access drive(s) meeting the requirements of Section 503 of this code, emblems shall be placed at each entrance on the left side of each drive at a height of 3 to 5 feet above ground, no more than 3 feet from the curb line; or,

(2) Where a building or group of buildings do not have approved fire apparatus access drive(s) immediately adjacent to the building, the emblem shall be affixed to each building on the address side of the building visible to approaching fire companies; or,

(3) At such other location(s) approved by the *fire code official*.

If a building exceeds 12 tenant spaces or 12,000 square feet, additional emblems shall be provided on the building at locations designated by the *fire code official*. These emblems shall be installed and maintained by the owner of the structure(s).

507.3 Fire flow is amended to add the following words after the end of the last sentence following the word “method”:

“Fire flows required by this section shall comply with Appendix B Fire-Flow Requirements for Buildings as amended in this code.”

507.3 is further amended by adding the following new sub-section:

507.3.1 Fire Hydrant systems shall be designed such that each individual fire hydrant on the system can flow a minimum of 1500 gallons per minute (gpm) at 20 pounds per square inch (psi)(138kPa) residual pressure.

507.5.1 Where required is amended to delete the numbers “400 (122 m)” in the first sentence and replace with the numbers “500 (152 m).” This section shall be further amended to delete Exceptions 1 and 2 without substitution.

507.5.2 Inspection, testing and maintenance is amended to add the following new sections:

507.5.2.1 Private hydrants periodic inspection, testing, and maintenance. Hydrants shall be checked monthly to make sure they are not obstructed by storage, weeds, etc., conveniently accessible, visible and with outlet caps in place. At least once a year, they shall be opened and closed to ensure proper operation and drainage in compliance with the International Fire Code, as amended, and shall be properly lubricated. All such inspections, tests and maintenance shall be performed by a fire protection company licensed by the State of Tennessee. Records of all such inspections, tests, and maintenance activities shall be submitted to the *fire code official*. Such records shall also be kept on the premises and shall be available to the *fire code official* upon request.

507.5.2.2 Notice to inspect private fire hydrant. Upon failure of any private fire hydrant owner within the city to properly inspect, test and maintain such private fire hydrant in accordance with the law, it shall be the duty of the fire services division to serve a notice on such owner to inspect their fire hydrant within twenty (20) days of the service of such notice. Such notice may be served personally on the owner by mailing same, by registered or certified mail, to owner's last known address, or it may be posted on the property on which such fire hydrant is located. Service of notice by any of the above methods shall be due notice to such owner. Should the owner or its responsible agent fail to inspect all private fire hydrants on said property following notice as set out above, then the Fire Services Division may enter such property or premises, directly or through their designated contractor, for inspecting, testing, and maintaining such fire hydrants.

507.5.2.3 Inspection by City. In addition to the penalties provided for in Section 1-24-1 of the City Code of Ordinances, any owner of a private fire hydrant in the city who fails or refuses to inspect, test and maintain such fire hydrants in accordance with the notice mentioned in section 507.5.2.2 shall be liable for a penalty of two hundred dollars (\$200) per day for each day of non-compliance with the said notice. This ordinance is deemed to be an environmental ordinance and shall be enforced in courts having appropriate jurisdiction over such subject matter.

Chapter 5 shall be amended by adding the following new section:

Section 511 Electric security fence installations

511.1 Electric security fence installations. All new and existing electric security fence installations shall be equipped with the following features:

1. An approved manual disconnect shall be provided that will interrupt the power supply to the fence. The manual disconnect means shall be located at an approved and accessible location. It shall be secured by an approved locking device that is keyed to the Memphis Fire Department's specifications.
2. The manual disconnect means shall clearly indicate the fence power status.
3. Signage shall be provided at the manual disconnect that indicates "Fence Power Emergency Bypass" in red letters at least 1" high on a white background. Based on the installation, additional signs may be required at additional points to clearly indicate the location of the manual disconnect means.

Chapter 8
Interior Finish, Decorative Material and Furnishings

806.1.1 Restricted occupancies is amended to add the letter “B,” following the letter “A”. This section is further amended to delete the first exception and substitute in lieu thereof the following:

1. Where protected in a manner approved by the *fire code official*.

Section 806 Decorative vegetation in new and existing buildings is amended to add the following new sub-section:

806.5 Restricted occupancies. Combustible decorative materials such as, but not limited to, cotton batting, vegetation, moss, straw, hay, vines, split bamboo, leaves and similar material shall not be used in Group A, B, E, I-1, I-2, I-3, I-4, M, R-1, R-2, R-4 occupancies.

Chapter 9 Fire Protection Systems

901.2 Construction documents is amended to add the following new sub-sections:

901.2.2 Fire sprinkler plans submittal. Plans for the installation of sprinkler systems shall be submitted to the Fire Prevention Bureau and approved prior to installation of any new system and on all existing systems where 10 or more sprinkler heads are added or when calculations for the system must be revised.

901.2.3 Fire alarm plans submittal. Plans for the installation of fire alarm systems shall be submitted to the Fire Prevention Bureau and approved prior to installation of any new system and for any alterations to existing systems where devices are added or removed.

901.2.4 All other fire protection system plans. Any plans for the installation of fire protection systems shall be submitted to the Fire Prevention Bureau and approved prior to installation.

903.3.5 Water supplies is amended to add the following words at the end of the second sentence following the word “*Code*”:

“and Memphis Light, Gas, and Water requirements.”

903.4 Sprinkler system supervision and alarms is amended to add the following sentence at the end of the section following the word “unit”:

“These valves shall also be mechanically locked in the normal position.”

Section 903.4 is further amended to add Exceptions 9 and 10 at the end of the section:

9. Existing systems that have not been extended, modified or previously electrically supervised may be mechanically locked in the normal position.
10. In private fire service mains, underground control or section valves with roadway boxes accessible with a special wrench shall not be required to be electrically supervised or locked in the normal position.

903.4.1 Monitoring is amended to add the following new sub-section:

903.4.1.1 Where monitoring of an automatic sprinkler system is required in this jurisdiction, it shall be by an approved central station and shall be in accordance with the requirements of Fire Alarm Systems for Central Station Service as described in NFPA 72. The method of retransmission of signals shall be approved by the Fire Communications Bureau.

903.4.3 is amended to delete the words “high-rise buildings” at the end of the section and replace therewith the following words: “all buildings two (2) or more stories in height.” This section is further amended to add the following exceptions at the end of the section:

- Exceptions:
1. Buildings equipped with an approved 13R sprinkler system that are not equipped with a standpipe system.
 2. Buildings equipped with an approved 13D sprinkler system.

904.13 Commercial cooking systems is amended to insert the following sentences before the first sentence of this section following the section title word “systems”:

“Commercial cooking systems shall include all cooking operations except those conducted in one- and two-family dwelling units. One- and two-family dwellings being used as group homes shall be required to install a suppression system unless otherwise approved by the fire official. Domestic cooking equipment and related exhaust systems/hoods regulated by this section may be protected by an automatic fire extinguishing system of a type recognized for their protection.”

904.13.5.3 Fusible link and sprinkler head replacement is amended to insert the following words in the first sentence following the words “Fusible links”:

“shall be replaced semi-annually”

905.2 Installation standard is amended to add the following sentence at the end of the section following the words “Section 912”:

“Where required, standpipe systems shall be of the wet, automatic dry, or semiautomatic dry types, unless specifically allowed elsewhere in this code.”

905.3 Required installations is amended to delete the number “905.3.8” in the first sentence and substitute in lieu thereof the number “905.3.9.”

Section 905.3 is further amended to add the following new sub-section:

905.3.9 Other buildings. Buildings 50 feet or more in height, except those with a roof slope greater than 4:12 that do not require a wet standpipe shall be provided with a dry standpipe. The standpipe shall provide coverage for all areas of the building including the roof. The standpipe need not have an automatic water supply and shall be located so that hose lays do not exceed 250 feet. Access to the roof and the standpipe shall be provided. Each standpipe shall be capable of providing 500 gallons per minute at the top most outlet when supplied by fire department equipment. Signage shall be provided on each standpipe indicating that it is a dry standpipe with no automatic water supply.

905.3.1 Height is amended to add the following sentence after the words “parking garages” in Exception 3:

“Class I manual standpipes are allowed in open parking garages that are subject to freezing temperatures, provided that the hose connections are located as required for Class II standpipes in accordance with Section 905.5.”

905.3.2 Group A is amended to delete the second exception in its entirety without substitution.

905.3.5 Underground buildings is amended to delete the words “or manual wet” in the first sentence without substitution.

907.2.5 Group H is amended to delete the letter and number “H-5” in the first sentence and replace with the letter “H.”

907.5.2.3 Visible alarms is amended to delete the first exception in its entirety without substitution.

907.6 Installation and monitoring is amended to delete the number “907.6.6.3” in the first sentence and substitute in lieu thereof the number “907.6.6.5.”

907.6.6 Monitoring is amended to add the following new sub-sections:

907.6.6.4 Monitoring requirements. Where monitoring of a fire alarm system is required in this jurisdiction, it shall be by an approved central station and shall be in accordance with the requirements of Fire Alarm Systems for Central Station Service as described in NFPA 72. The method of retransmission of signals shall be approved by the Fire Communications Bureau.

907.6.6.5 Runner service. A runner or technician, as defined by NFPA 72, must be dispatched to the protected premises to arrive within 1 hour after receipt of a signal, when required to respond.

910.4 Mechanical smoke removal systems is amended to delete the number “910.4.7” in the first sentence and substitute in lieu thereof the number “910.4.8.”

910.4 Mechanical smoke removal systems is further amended to add the following new sub-section:

910.4.8 Mechanical smoke removal systems plans submittal. Plans for the installation of all mechanical smoke exhaust systems shall be submitted to the Fire Prevention Bureau and approved prior to installation of any new system and for any alterations to existing systems where components are added or removed.

910.4.3 System design criteria is amended to add the following sentence at the end of the section following the word, “minute”:

“Exhaust fans shall be uniformly spaced within the building and the maximum distance between fans shall not be greater than 100 feet (30,480 mm), unless approved by the *fire code official*.”

910.4.3.1 Makeup air is amended to add the following sentence at the end of the section following the word, “exhaust”:

“Overhead doors shall not be used as required makeup air inlets.”

910.4.5 Manual control location is amended to add the following sentences at the end of the section following the word, “both”:

“The mechanical smoke removal system fire department control panel shall be in an approved location. The control panel may be located at an exterior location approved by the *fire code official*. The location and the control panel shall be clearly identified. Automatic sprinkler protection shall be provided in the control panel room.”

910.4.7 Controls is amended to add the following sentence at the end of the section following the word, “system”:

“Controls shall be designed for selective control of no more than 3 smoke removal units. Fans grouped on a single switch shall be in the same fire area.”

Section 912.2 Location is amended to add the following new sub-section:

912.2.3 Proximity to fire hydrants. Fire department connections shall be located not more than 100 feet from an approved fire hydrant.

913.4 Valve supervision is amended to delete the entire section and substitute in lieu thereof the following:

913.4 Valve supervision. Where provided, all valves which effect the proper operation of the fire pump, shall be supervised by approved central-station signaling service and be locked in the normal position.

Exception: In private fire service mains, underground control or section valves with roadway boxes accessible with a special wrench shall not be required to be electrically supervised or locked in the normal position.

914.3.2 Secondary water supplies is amended to add the following words to the end of the last sentence following “NFPA 13”:

“; however, this supply need not exceed 10,000 gallons in capacity unless required by the *fire code official*.”

Chapter 10 Means of Egress

1001.1 General is amended to add the following new sub-section:

1001.3 Other standards. When this code does not contain requirements relative to a specific means of egress system, NFPA 101 may be used as an accepted engineering practice standard as approved by the *fire code official*.

1008.2 Illumination required is amended to add the following at the end of Exception 2 following the letter "A":

“and Group S (Sprinklered).”

1032 Maintenance of the means of egress is amended to add the following new sub-section:

1032.11 Overcrowding. The number of occupants of any building or portion thereof shall not be permitted to exceed the allowed or posted capacity, determined in accordance with the building code.

Chapter 29
Manufacture of Organic Coatings

2909.4.2 Spills is amended by deleting the words “or by burning in the open at an approved detached location” without substitution.

Chapter 31 Tents and Other Membrane Structures

3103.2 Approval required is amended to delete the second exception and substitute in lieu thereof the following:

2. Funeral tents and curtains or extensions attached thereto, when used for funeral services.

3104.2 Flame propagation performance treatment is amended to add the following sentence at the end of the section following the word, “permit”:

“The flame propagation performance treatment requirements shall also apply to tents or air-supported structures that do not require permits and are used for public gatherings.”

3107.12.5 Cooking tents is amended to add the words “unless approved by the *fire code official*” at the end of the section following the numbers and letters “20 feet (6096 mm).”

3107.12.6 Outdoor cooking is amended to add the words “unless approved by the *fire code official*” at the end of the section following the word “structure.”

Chapter 32
High-Piled Combustible Storage

3206.7.6 Door size and type is amended to add the following exception:

Exception: Roll up doors shall be allowed to be considered for use as fire fighter access doors provided provisions are made for the doors to unlock upon activation of the water flow alarm.

Chapter 33
Fire Safety During Construction and Demolition

3314.3 Detailed requirements is amended to add the following sentence at the end of the exception following the word “materials”:

“The type of standpipe permitted shall be approved by the *fire code official*.”

Chapter 57
Flammable and Combustible Liquids

5704.1 General is amended to add the following new sub-section:

5704.1.1 Unauthorized storage. It shall be illegal to store or keep gasoline powered equipment such as motor vehicles, motorcycles, scooters, lawn equipment, generators, power washers, or equipment associated with the construction trades in any structure, facility, building, suite, or room unless the structure, facility, building, suite, or room is approved for such use. This restriction does not apply to items displayed for sale with no gasoline in the attached tank.

5703.5 Labeling and signage is amended to add the words “or combustible” following the word “flammable” in the first sentence.

5704.2.9.6.1 Locations where above-ground tanks are prohibited is amended to delete the words “limits established by law as the limits of districts in which such storage is prohibited [jurisdiction to specify]” in the first sentence and substitute in lieu thereof the words “fire district.”

5704.3.3 Indoor storage is amended to add the following exception:

3. The storage of flammable and combustible liquids in plastic containers shall comply with this chapter as well as applicable sections of NFPA 30. Secondary containment for the storage of flammable and combustible liquids in plastic containers shall comply with Factory Mutual Data sheet 7-29.

5706.2.4.4 Locations where above-ground tanks are prohibited is amended to delete the words “limits established by law as the limits of districts in which such storage is prohibited [JURISDICTION TO SPECIFY]” in the first sentence and substitute in lieu thereof the words “fire district”.

Chapter 58
Flammable Gases and Flammable Cryogenic Fluids

5806.2 Limitations is amended to delete the words “limits established by law as the limits of districts in which such storage is prohibited [JURISDICTION TO SPECIFY]” in the first sentence and substitute in lieu thereof the words “fire district.”

Chapter 61

Liquefied Petroleum Gases

6103.2.1 Portable containers is amended to add the following new sub-section:

6103.2.1.8 Flame effects before a proximate audience. The use of LP gas as part of a flame effect before a proximate audience shall comply with this chapter and NFPA 160 and shall be approved by the *fire code official*.

6104.2 Maximum capacity within established limits is amended to delete the words “limits established by law restricting” in the first sentence and substitute in lieu thereof the words “fire district.”

6104.2 is further amended to delete the words “[JURISDICTION TO SPECIFY]” in the first sentence without replacement.

6107 Safety Precautions and Devices is amended to add the following new sub-section:

6107.5 Storage and Transport. Portable LP-gas containers shall be maintained in the upright position relative to the relief valve during storage and transport.

Chapter 80 Referenced Standards

Chapter 80 Referenced Standards is amended by deleting and adding the following corresponding standards and publications:

DELETE

NFPA Standards

02—19 Hydrogen Technologies Code	1206.3, 1206.4, 2309.1, 2309.3.1.1, 2309.3.1.2, 2309.4, 2309.6, 2311.8, 2311.8.2, 2311.8.10, 2311.8.11, 5301.1, 5801.1
10—21 Portable Fire Extinguishers	Table 901.6.1, 906.2, Table 906.3(1), Table 906.3(2), 906.3.2, 906.3.4, 3006.3
11—16 Low-, Medium- and High-expansion Foam	904.7, 5704.2.9.2.2
17—20 Dry Chemical Extinguishing Systems	Table 901.6.1, 904.6, 904.13
17A—20 Wet Chemical Extinguishing Systems	Table 901.6.1, 904.5, 904.13
32—16 Drycleaning Facilities	2107.1, 2107.3
33—18 Spray Application Using Flammable or Combustible Materials	2403.3.3
34—18 Dipping, Coating and Printing Processes Using Flammable or Combustible Liquids	2405.3, 2405.4.1.1
35—16 Manufacture of Organic Coatings	2901.3, 2905.4
55—19 Compressed Gases and Cryogenic Fluids Code	3508.1, 5301.1, 5307.4.2, 5501.1, 5801.1, 6301.1
68—13 Explosion Protection by Deflagration Venting	911.1, 911.4, Table 2205.1
76—16 Fire Protection of Telecommunications Facilities	1207.1.2.1, 1207.2.1, 1207.3.1, 1207.3.7.1, 1207.4.1, 1207.5.1, 1207.5.2, 1207.5.3, 1207.5.5, Table 1207.6, 1207.6.2.3, Table 1207.7
77—14 Static Electricity	Table 2205.1
92—18 Smoke Control Systems	909.7, 909.8
96—20 Ventilation Control and Fire Protection of Commercial Cooking Operations ...	606.2, 904.13
170—18 Standard for Fire Safety and Emergency Symbols	1025.2.6.1
204—18 Smoke and Heat Venting	Table 901.6.1, 910.5.1, 910.5.2
704—17 Standard System for Identification of the Hazards of Materials for Emergency Response	202, 608.8, 5003.2.2.2, 5003.5, 5003.10.2, 5005.1.10, 5005.1.12, 5005.2.1.1, 5005.4.4, 5503.4.1, 5704.2.3.2
780—17 Installation of Lightning Protection Systems	4003.4

ADD

NFPA Standards

02—20 Hydrogen Technologies Code	1206.3, 1206.4, 2309.1, 2309.3.1.1, 2309.3.1.2, 2309.4, 2309.6, 2311.8, 2311.8.2, 2311.8.10, 2311.8.11, 5301.1, 5801.1
10—18 Portable Fire Extinguishers	Table 901.6.1, 906.2, Table 906.3(1), Table 906.3(2), 906.3.2, 906.3.4, 3006.3
11—21 Low-, Medium- and High-expansion Foam	904.7, 5704.2.9.2.2
17—21 Dry Chemical Extinguishing Systems	Table 901.6.1, 904.6, 904.13
17A—21 Wet Chemical Extinguishing Systems	Table 901.6.1, 904.5, 904.13
32—21 Drycleaning Facilities	2107.1, 2107.3
33—21 Spray Application Using Flammable or Combustible Materials	2403.3.3

34—21 Dipping, Coating and Printing Processes Using Flammable or Combustible Liquids	2405.3, 2405.4.1.1
35—21 Manufacture of Organic Coatings	2901.3, 2905.4
55—20 Compressed Gases and Cryogenic Fluids Code	3508.1, 5301.1, 5307.4.2, 5501.1, 5801.1, 6301.1
68—18 Explosion Protection by Deflagration Venting	911.1, 911.4, Table 2205.1
76—20 Fire Protection of Telecommunications Facilities	1207.1.2.1, 1207.2.1, 1207.3.1, 1207.3.7.1, 1207.4.1, 1207.5.1, 1207.5.2, 1207.5.3, 1207.5.5, Table 1207.6, 1207.6.2.3, Table 1207.7
77—19 Static Electricity	Table 2205.1
92—21 Smoke Control Systems	909.7, 909.8
96—21 Ventilation Control and Fire Protection of Commercial Cooking Operations ..	319.8.2, 606.2, 904.13
170—21 Standard for Fire Safety and Emergency Symbols	1025.2.6.1
204—21 Smoke and Heat Venting	Table 901.6.1, 910.5.1, 910.5.2
704—22 Standard System for Identification of the Hazards of Materials for Emergency Response	202, 608.8, 5003.2.2.2, 5003.5, 5003.10.2, 5005.1.10, 5005.1.12, 5005.2.1.1, 5005.4.4, 5503.4.1, 5704.2.3.2
780—20 Installation of Lightning Protection Systems	4003.4

FM Global Data Sheets

7-29 Ignitable Liquid Storage in Portable Containers, (current edition) – Sections that relate to requirements for flammable and combustible liquids in plastic containers only.

American Petroleum Institute

API Recommended Practice 2201, Safe Hot Tapping Practices in the Petroleum and Petrochemical Industries (current edition)

Appendix B Fire-Flow Requirements for Buildings

B103.2 Increases is amended to insert the following words at the end of the first sentence following the word “conflagrations”:

“, present a special hazard use, or include the protection of a special hazard commodity.”

Section B105 Fire-flow Requirements for Buildings is amended to delete sub-sections B105.1, B105.2, Table B105.1(1) and Table B105.2 and substitute in lieu thereof the following new sub-sections:

B105.1 One- and two-family dwellings, Group R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration requirements for one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses shall be as specified in Table B105.1(2).

B105.2 Buildings other than one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses shall be as specified in Table B105.1(2).

- Exceptions:**
1. A reduction in required fire-flow of up to 30 percent is allowed when the building is provided with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2. A reduction in required fire-flow of up to 40 percent is allowed when the building is provided with an *approved ESFR sprinkler system* installed in accordance with this code and NFPA 13. A reduction in required fire-flow which exceeds the percentages listed above must be specifically approved by the *fire code official*. No reductions in required fire-flows are allowed for occupancies located within congested valve districts (including the fire district as defined in the International Building Code) or Group H occupancies unless specifically approved by the *fire code official*.
 2. Buildings subjected to the plan of services relative to Annexation Area #01-50, which are provided with an *approved ESFR sprinkler system* installed in accordance with this code and NFPA 13, may have limited fire-flow requirements commensurate to that available from the public water supply. Limitations are not applicable for occupancies located within congested valve districts (including the fire district as defined in the International Building Code) or Group H occupancies unless specifically approved by the *fire code official*.

(c) BE IT FURTHER ORDAINED, That the provisions of this ordinance are hereby severable. If any of these sections, provisions, sentences, clauses, phrases or parts are held unconstitutional or void by a court of competent jurisdiction the remainder of this ordinance shall continue in full force and effect.

d) BE IT FURTHER ORDAINED, That this Ordinance shall take effect on December 31, 2021, after the date it shall have been passed by the Council, signed by the Chairman of the Council, certified and delivered to the Office of Mayor in writing by the comptroller and become effective as otherwise provided by law.

*City Council third reading completed on 11/16/2021.