CITY OF HEATH

ORDINANCE NO. 240924E

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF HEATH, TEXAS, AMENDING TITLE XV, "LAND USAGE", CHAPTER 153, "CODES ADOPTED", OF THE CITY OF HEATH CODE OF ORDINANCES; PROVIDING FOR THE ADOPTION OF THE 2021 INTERNATIONAL BUILDING CODE, THE 2023 NATIONAL ELECTRICAL CODE, THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE, THE 2021 INTERNATIONAL FIRE CODE, THE 2021 INTERNATIONAL FUEL GAS CODE, THE 2021 INTERNATIONAL RESIDENTIAL CODE, THE 2021 INTERNATIONAL MECHANICAL CODE, THE 2021 INTERNATIONAL PLUMBING CODE, THE 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE, THE 2021 INTERNATIONAL SWIMMING POOL AND SPA CODE, AND THE 2021 INTERNATIONAL EXISTING BUILDING CODE; WITH THE 2021 NCTCOG LOCAL AMENDMENTS, CITY AMENDMENTS, AND APPENDICES THERETO; AND PROVIDING FOR THE REPEAL AND REPLACEMENT OF THE 2018 BUILDING CODES, THE 2017 NATIONAL ELECTRIC CODE AND THE NCTCOG LOCAL AMENDMENTS; AND SAID PROVISIONS BEING ALSO EXTENDED TO THE CITY OF HEATH'S EXTRA TERRITORIAL JURISDICTION (ETJ) PROVIDING FOR THE INCORPORATION OF PREMISES ; PROVIDING FOR AMENDMENTS RELATED TO CONFLICTS; PROVIDING FOR A PENALTY NOT TO EXCEED THE SUM OF $2000.00 FOR EACH VIOLATION UPON CONVICTION; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A REPEALER CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Heath, Texas (the "City") is a home rule municipality operating pursuant to the laws of the State of Texas and its Charter by and through its duly elected City Council ("Council") and empowered to do all acts and make all regulations which may be necessary or expedient for the promotion of the public health, safety, and general welfare; and

WHEREAS, the Building Official has reviewed the 2021 International Building Code, 2023 National Electric Code, 2021 International Energy Conservation Code, 2021 International Fire Code, 2021 International Fuel Gas Code, 2021 International Residential Code, 2021 International Mechanical Code, 2021 International Plumbing Code, the 2021 International Property Maintenance Code, the 2021 International Swimming Pool and Spa Code and the 2021 International Existing Building Code with additional NCTCOG local amendments thereto and has determined that it is in the best interest of the City of Heath to adopt the foregoing Codes and local amendments thereto as reflected in this Ordinance; and

WHEREAS, the City Council of the City of Heath, Texas finds and determines it necessary and beneficial to adopt the Codes and local amendments as specified in this Ordinance to safeguard the health, property, safety and general welfare of the citizens of the City of Heath by regulating the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance, of fuel gas systems and inspection of fuel gas systems.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF HEATH, TEXAS:

Section 1. Incorporation of Premises. That all the above premises are true and correct and are hereby incorporated in the body of this Ordinance as if fully set forth herein.

Section 2. Title XV, "Land Usage," Chapter 153, "Codes Adopted," of the City of Heath Code of Ordinances is hereby amended to repeal §153.001 and §153.002 the **2018 International Building Code** with NCTCOG amendments to adopt a new §153.001 and §153.002 to adopt the **2021 International Building Code** with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that §153.001 and§153.002 shall be and read in their entirety as follows:

INTERNATIONAL BUILDING CODE
§153.001- International Building Code Adopted (Option B)

The 2021 International Building Code, which is on file in the office of the Building Official, is hereby adopted and designated as the Building Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance in Exhibit A attached hereto and incorporated herein.

§153.002 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Building Code (Option B)

The 2021 International Building Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 3. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.010 and §153.011 the 2017 National Electric Code with NCTCOG amendments, and to adopt a new §153.010 and §153.011 to adopt the **2023 National Electric Code** with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that §153.010 and §153.011 shall be and read in their entirety as follows:

NATIONAL ELECTRIC CODE
§153.010 - National Electric Code Adopted

The 2023 National Electric Code, which is on file in the office of the Building Official, is hereby adopted and designated as the Electric Code of the City of Heath, to the same extent as if such code were copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance reflected in Exhibit B attached hereto and incorporated herein.

§153.011 - Adoption of the NCTCOG Recommended Amendments to the 2023 National Electric Code

The 2023 National Electric Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 4. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.025 and §153.026 the **2018 International Energy Conservation Code** with NCTCOG amendments, and to adopt a new §153.025 and §153.026 to adopt the 2021 International Energy Conservation Code with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that§153.025 and§153.026 shall be and read in their entirety as follows:

INTERNATIONAL ENERGY CONSERVATION CODE
§153.025 - International Energy Conservation Code Adopted

The 2021 International Energy Conservation Code, which is on file in the office of the Building Official, is hereby adopted and designated as the Energy Conservation Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance in Exhibit C attached hereto and incorporated herein.

§153.026 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Energy Conservation Code

The 2021 International Energy Conservation Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 5. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.035, §153.036, and §153.037 the **2018 International Fire Code** with NCTCOG and local amendments, and to adopt a new §153.035,§153.036 and §153.037 to adopt the 2018 International Fire Code with NCTCOG and local amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that §153.035 and §153.036 shall be and read in their entirety as follows:

INTERNATIONAL FIRE CODE (Option B)
§153.035- International Fire Code Adopted

The 2021 International Fire Code including Appendices B, C, D, and H which is on file in the office of the Building Official is hereby adopted and designated as the Fire Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments and additions prescribed by this subchapter.

§153.036 ADOPTION OF LOCAL AMENDMENTS TO THE 2021 INTERNATIONAL FIRE CODE

The sections, paragraphs, and sentences of the 2021 International Fire Code are hereby amended as reflected in Exhibit D attached hereto and incorporated herein, with the below revisions.

§153.037 Local Amendments *(ordinance # 080506B)* – added per below:

Automatic sprinklers are required in all structures having more than 6,000 square feet of habitable/occupiable space. Sprinklers may be omitted in bathrooms, toilet rooms, closets, halls, storage, halls, storage, or utility spaces. All square footage under roof is used for sprinkler requirements calculations. Smaller commercial buildings may be required to be sprinkled based on occupancy class, type and hazard level.

Proposed ordinance to repeal above:

Section 903.2.11.9 added/repealing ordinance #080506B to read as follows:

903.2.11.9 Buildings over 6,000 sq. ft. Approved automatic fire sprinkler systems shall be installed in all new buildings, structures, and additions with a fire flow calculation area of 6,000 square feet or greater and in all existing buildings, not including R-3, that are enlarged to have a fire flow calculation of 6,000 square feet or greater. The fire code official may modify the requirement to sprinkler existing buildings pursuant to section 104.9.

** Will add 903.2.11.9 to International Building Code and International Fire Code to local City of Heath amendments.*

Definitions *(International Fire Code)*
R-3: One- and two- family dwellings
Fire flow calculation area: the area shall be the total floor area of all floor levels within the exterior walls, and under the horizontal projections of the roof of a building.

445.18(A) Disconnecting Means. *Generators other than cord-and-plug-connected portable generators shall have one or more disconnecting means. Each disconnecting means shall simultaneously open all associated ungrounded conductors. Each disconnecting means shall be lockable open in accordance with 110.25.*
The disconnecting means shall be permitted to be located within the generator behind a hinged cover, door, or enclosure panel. Where the generator disconnecting means is located within the generator, a field applied label meeting the requirements of 110.21(B) shall be provided indicating the location of the generator disconnecting means.

N 445.19(A) General. *Generators shall have provisions to shut down the prime mover. The means of shutdown shall comply with all of the following:*

(1) Be equipped with provisions to disable all prime mover start control circuits to render the prime mover incapable of starting

(2) Initiate a shutdown mechanism that requires a mechanical reset

The provisions to shut down the prime mover shall be permitted to satisfy the requirements of 445.18(A) where it is capable of being locked in the open position in accordance with 110.25.

N 445.19(B) Remote Emergency Shutdown. *For other than one- and two-family dwelling units, generators with greater than 15 kW rating shall be provided with a remote emergency stop switch to shut down the prime mover. The remote emergency stop switch shall be located outside the equipment room or generator enclosure at a readily accessible location and shall also meet the requirements of 445.19(A)(1) and (A)(2).*

The remote emergency stop switch shall be permitted to be mounted on the exterior of the generator enclosure. The remote emergency stop switch shall be labeled ***Generator Emergency Shutdown****, and the label shall meet the requirements of 110.21(B)...*

**** Remote Emergency Shutdown of Prime Mover is required if the generator is more than 25ft AWAY or if NOT in LINE of SITE from the electrical service first means of disconnect/Electrical meter servicing the home, building, or structure. The Emergency Shutdown Disconnect Switch, Emergency Stop Button, or Equivalent shall be located at the electrical service first means of disconnect/electrical meter, which shall be installed per Nec 225.41 (A), (B), (C)*** The location of the disconnect is at the Building Official's discretion.*

445.19(C) Emergency Shutdown in One- and Two-Family Dwelling Units. *For other than cord-and-plug-connected portable generators, an emergency shutdown device shall be located outside the dwelling unit at a readily accessible location and shall also meet the requirements of 445.19(A)(1) and (A)(2).*

An emergency shutdown device mounted on the exterior of the generator enclosure shall be permitted to satisfy the requirements of this section. The shutdown device shall be marked as the ***Generator Emergency Shutdown****, and the label shall meet the requirements of 110.21(B).*

225.41 Emergency Disconnects. *For one-and two-family dwelling units, an emergency disconnecting means shall be installed.*

(A) General.

(1) Location. *The disconnecting means shall be installed in a readily accessible outdoor location on or within sight of the dwelling unit.*

(2) Rating. *The disconnecting means shall have a short-circuit current rating equal to or greater than the available fault current.*

(3) Grouping. *If more than one disconnecting means is provided, they shall be grouped.*

(B) Identification of Other Isolation Disconnects. *Where equipment for isolation of other energy source systems is not located adjacent to the emergency disconnect required by this section, a plaque or directory identifying the location of all equipment for isolation of other energy sources shall be located adjacent to the disconnecting means required by this section.*

(C) Marking. *The disconnecting means shall be marked as EMERGENCY DISCONNECT.*

Markings shall comply with 110.21(B) and all of the following:

(1) The marking or labels shall be located on the outside front of the disconnect enclosure with red background and white text.

(2) The letters shall be least ½ inch high.

Section 6. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.050 and §153.051 the 2018 International Fuel Gas Code with NCTCOG amendments, and to adopt a new §153.050 and §153.051 to adopt the **2021 International Fuel Gas Code** with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that §153.050 and §153.051 shall be and read in their entirety as follows:

INTERNATIONAL FUEL GAS CODE
§153.050- International Fuel Gas Code Adopted

The 2021 International Fuel Gas Code, which is on file in the office of the Building Official, is hereby adopted and designated as the Fuel Gas Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance as reflected in Exhibit E attached hereto and incorporated herein.

§153.051 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Fuel Gas Code

The 2021 International Fuel Gas Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 7. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.080 and §153.081 the **2018 International Residential Code** with NCTCOG amendments and city amendments, and to adopt a new §153.080 and §153.081 to adopt the 2021 International Residential Code with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that §153.080 and §153.081 shall be and read in their entirety as follows:

INTERNATIONAL RESIDENTIAL CODE
§153.080- International Residential Code Adopted

The 2021 International Residential Code, which is on file in the office of the Building Official, is hereby adopted and designated as the Residential Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance as reflected in Exhibit F attached hereto and incorporated herein.

§153.081 - Adoption of the NCTCOG Recommended Amendments and the city amendments to the 2021 International Residential Code

The 2018 International Residential Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG") and city amendments, which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 8. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.095 and §153.096 the **2018 International Mechanical Code** with NCTCOG amendments, and to adopt a new §153.095 and §153.096 to adopt the 2021 International Mechanical Code with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto, so that §153.095 and §153.096 shall be and read in their entirety as follows:

INTERNATIONAL MECHANICAL CODE
§153.095 - International Mechanical Code Adopted

The 2021 International Mechanical Code, which is on file in the office of the Building Official is hereby adopted and designated as the Mechanical Code of the City of Heath, to the same extent as if such code were copied verbatim, subject to the deletions, amendments and additions prescribed by this Ordinance as reflected in Exhibit G attached hereto and incorporated herein.

§153.096 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Mechanical Code

The 2021 International Mechanical Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 9. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.120 and §153.121 the 2018 International Plumbing Code with NCTCOG amendments, and to adopt a new §153.120 and §153.121 to adopt the **2021 International Plumbing Code** with NCTCOG amendments as set forth below and incorporated into this Ordinance by reference, along with all Exhibits thereto so that §153.120 and §153.121 shall be and read in their entirety as follows:

INTERNATIONAL PLUMBING CODE
§153.120- International Plumbing Code Adopted

The 2021 International Plumbing Code, which is on file in the office of the Building Official, is hereby adopted and designated as the Plumbing Code of the City of Heath, to the same extent as if such code were copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance as reflect on Exhibit H attached hereto and incorporated herein.

§153.121 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Plumbing Code

The 2021 International Plumbing Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 10. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.125 the **2018 International Property Maintenance Code**, and adopting the 2021 International Property Maintenance Code as set forth below and incorporated into this Ordinance by reference, and such shall be and read in its entirety as follows:

INTERNATIONAL PROPERTY MAINTENANCE CODE
§153.125- International Property Maintenance Code Adopted

The 2021 International Property Maintenance Code, which is on file in the office of the Building Official of the City of Heath, is hereby adopted and designated as the Property Maintenance Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance as reflected in Exhibit I attached hereto and incorporated herein

Section 11. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal§153.130 entitled International Swimming Pool and Spa Code" adopting the 2021 International Swimming to add a new §153.130 entitled International Swimming Pool and Spa Code, adopting the **2021 International Swimming Pool and Spa Code** as set forth below and incorporated into this Ordinance by reference, and such new section shall be and read in its entirety as follows:

INTERNATIONAL SWIMMING POOL AND SPA CODE
§153.130- International Swimming Pool and Spa Code Adopted

The 2021 International Swimming Pool and Spa Code, which is on file in the office of the Building Official of the City of Heath, is hereby adopted and designated as the 2021 International Swimming Pool and Spa Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance as reflected on Exhibit J attached hereto and incorporated herein.

§153.135 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Swimming Pool and Spa Code

The 2021 International Swimming Pool and Spa Code is here by amended as recommended the North Central Texas Council of Governments (“NCTCOG”), which amendments are incorporated herein y reference and on title in the office of the Building Official of the City of Heath.

Section 12. Title XV, Land Usage, Chapter 153, Codes Adopted, of the City of Heath Code of Ordinances is hereby amended to repeal §153.135 entitled "International Existing Building Code to add a new §153.135 entitled International Existing Building Code adopting the **2021 International Existing Building Code** as set forth below and incorporated into this Ordinance by reference, and such new section shall be and read in its entirety as follows:

INTERNATIONAL EXISTING BUILDING CODE
§153.140- International Existing Building Code Adopted

The 2021 International Existing Building Code, which is on file in the office of the Building Official of the City of Heath, is hereby adopted and designated as the Existing Building Code of the City of Heath, to the same extent as if such code was copied verbatim, subject to the deletions, amendments, and additions prescribed by this Ordinance as reflected on Exhibit K attached hereto and incorporated herein.

§153.140 - Adoption of the NCTCOG Recommended Amendments to the 2021 International Existing Building Code

The 2021 International Existing Building Code is hereby amended as recommended by the North Central Texas Council of Governments ("NCTCOG"), which amendments are incorporated herein by reference and on file in the office of the Building Official of the City of Heath.

Section 13. Penalty Clause

It shall be unlawful for any person to violate any provision of this Ordinance, and any person violating or failing to comply with any provision of this Ordinance shall be fined, upon conviction, not less than One Dollar ($1.00) nor more than Two Thousand Dollars ($2,000.00) or as otherwise provided by law, and a separate offense shall be deemed committed each day during or on which a violation occurs or continues.

Section 14. Severability Clause

If any section or provision of this Ordinance or the application of that section or provision to any person, firm, corporation, situation, or circumstance is for reason judged invalid, the adjudication shall not affect any other section or provision of this Ordinance or the application of any other section or provision to any other person, firm, corporation, situation, or circumstance, and the City Council declares that it would have adopted the valid portions and applications of the Ordinance without the invalid parts and to this end the provisions of this Ordinance shall remain in full force and effect.

Section 15. Repealer Clause

That this Ordinance shall be cumulative of all other Ordinances of the City of Heath and shall not repeal any of the provisions of such Ordinances except for those instances where there are direct conflicts with the provisions of this Ordinance or parts thereof in force at the time this Ordinance shall take effect, and that are inconsistent with this Ordinance, are hereby repealed to the extent that they are inconsistent with this Ordinance, provided, however, that any complaint, action, claim, or lawsuit which has been initiated or has arisen under or pursuant to such Ordinance on the date of adoption of this Ordinance shall continue to be governed by the provisions of that Ordinance and for that purpose, the Ordinance shall remain in full force and effect.

Section 17. Savings Clause

That all rights and remedies of the City of Heath are expressly saved to any and all violations of the provisions of any Ordinance affecting the codes amended hereby, which have accrued at the time of the effective date of this Ordinance; and, as to such accrued violations and all pending litigation, both civil and criminal, whether pending in court or not, under such Ordinances, same shall not be affected by this Ordinance but may be prosecuted until final disposition by the courts.

Section 18. Publication Clause.

The City Secretary of the City of Heath is hereby directed to publish the Caption, Penalty, and Effective Date of this Ordinance as required by Section 52.011 of the Texas Local Government Code.

Section 19. Effective Date

This Ordinance shall become effective after adoption and publication in accordance with the law, and it is so ordained.

Passed and Approved by the City Council of the City of Heath, Texas, the 24th day of September 2024, and amended the 22nd day of October 2024.

_____
Jeremiah McClure, Mayor

ATTEST:

_____
Norma Duncan, City Secretary

APPROVED AS TO FORM:

_____
Amy Stanphill, City Attorney

EXHIBITS

A. Amendments to 2021 International Building Code
B. Amendments to 2023 National Electric Code
C. Amendments to 2021 International Energy Conservation Code
D. Amendments to 2021 International Fire Code
E. Amendments to 2021 International Fuel Gas Code
F. Amendments to 2021 International Residential Code
G. Amendments to 2021 International Mechanical Code
H. Amendments to 2021 International Plumbing Code
I. Amendments to 2021 International Property Maintenance Code
J. Amendments to 2021 International Swimming Pool and Spa Code
K. Amendments to 2021 International Existing Building Code

EXHIBIT A
AMENDMENTS
2021 International Building Code

Section 101.4 amended to read as follows and 101.4.8 is added to read as follows:

101.4 Referenced codes. The other codes listed in Sections 101.4.1 through 101.4.8 and referenced elsewhere in this code, when specifically adopted, shall be considered part of the requirements of this code to the prescribed extent of each such reference. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the Electrical Code shall mean the Electrical Code as adopted.

Section 101.4.8 is added to read as follow:

101.4.8 Electrical. The provisions of the Electrical Code shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

Section 103.1; amended to read as follows:

103.1 Creation of enforcement agency. The City of Heath Building Department is hereby created and the official in charge thereof shall be known as the Building Official.
[Remainder Unchanged]

Section 105.2 amended to read as follows:

105.2 Work exempt from permit; under sub-title entitled “Building” delete original items 1, 2, 10 and 11 and re-number as follows:

Building:

1. Oil Derricks.
2. Retaining walls that are not over 4 feet in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or IIIA liquids.
3. Water tanks supported directly on grade if the capacity is not greater than 3,000 gallons and the ratio of height to diameter or width is not greater than 2:1.
4. ~~.~~ Sidewalks and driveways not more than 30 inches above adjacent grade, and not over any basement or story below and are not part of an accessible route.
5. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
6. Temporary motion picture television and theater stage sets and scenery.
7. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 24 inches deep, are not greater than 5000 gallons and are installed entirely above ground.
8. Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.
9. Swings and other playground equipment accessory to detached one and two family dwellings.
10. Window awnings in Group R-3 and U occupancies, supported by an exterior wall that does not project more than 54 inches from the exterior wall and do not require additional support.
11. Nonfixed and movable fixtures, cases, racks, counters and partitions not over 5 feet 9 inches in height.

Section 109 amended to read as follows by adding Section 109.7:

109.7 Re-inspection Fee. A fee as established by city council resolution may be charged when:

1. The inspection called for is not ready when the inspector arrives;

2. No building address or permit card is clearly posted;

3. City approved plans are not on the job site available to the inspector;

4. The building is locked or work otherwise not available for inspection when called;

5. The job site is red-tagged twice for the same item;

6. The original red tag has been removed from the job site.

7. Failure to maintain erosion control, trash control or tree protection.

Any re-inspection fees assessed shall be paid before any more inspections are made on that job site.

Section 110.3.6 is amended to read as follows:

110.3.6; Lath, gypsum board and gypsum panel product inspection; Delete exception

Section 202 is amended to read as follows:

AMBULATORY CARE FACILITY. Buildings or portions thereof used to provide medical, surgical, psychiatric, nursing or similar care on a less than 24-hour basis to persons who are rendered incapable of self-preservation by the services provided. This group may include but not be limited to the following:

- Dialysis centers
- Sedation dentistry
- Surgery centers
- Colonic centers
- Psychiatric centers

ASSISTED LIVING FACILITIES. *A building or part thereof housing persons, on a 24-hour basis, who because of age, mental disability or other reasons, live in a supervised residential environment which provides personal care services. The occupants are capable of responding to an emergency situation without physical assistance from staff.*

HIGH-RISE BUILDING. A building with an occupied floor located more than 55 feet above the lowest level of fire department vehicle access.

REPAIR GARAGE. A building, structure or portion thereof used for servicing or repairing motor vehicles.This occupancy shall also include garages involved in minor repair, modification and servicing of motor vehicles for items such as lube changes, inspections, windshield repair or replacement, shocks, minor part replacement and other such minor repairs.

SPECIAL INSPECTOR. A qualified person employed or retained by an approved agency who shall prove to the satisfaction of the registered design professional in responsible charge and the Building Official as having the competence necessary to inspect a particular type of construction requiring special inspection.

Section 303.1.3 iamended to read as follows:

Section 303.1.3

Section 303.1.3 Associated with Group E occupancies. A room or space used for assembly purposes that is associated with a Group E occupancy is not considered a separate occupancy, when applying the assembly requirements of Chapters 10 and 11.

Section 304.1 is amended to add the following to the list of occupancies:

Fire stations
Police stations with detention facilities for 5 or less

Section 307.1.1 is amended to add the following sentence to *Exception 4:*

4. Cleaning establishments… See also IFC Chapter 21, Dry Cleaning Plant provisions.

Section 403.1 Exception 3, 403.3 and 403.3.2 is amended to read as follows:

Section 403.1 exception

3. The open-air portion of a building containing a Group A-5 occupancy in accordance with Section 303.6.

Section 403.3, Automatic Sprinkler System. Delete exception;

Section 403.3.2; amended to read as follows:

to r[F] 403.3.2 Water supply **r**equired fire pumps**.** In buildings that are more than 120 feet (36.5 m) in building height, required fire pumps shall be supplied by connections to no fewer than two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.

No exchange to exceptions.

Section 404.10 amended to read as follows:

Section 404.10 Exit Stairways in an atrium. Where an atrium contains an exit access stairway all the following shall be met:

Remainder unchanged.

Section 406.3.3.1 is amended to read as follows:

Section 406.3.3.1 Carport separation is amended by adding a sentence to read as follows:

A fire separation is not required between a Group R-2 and U carport provided that the carport is entirely open on all sides and that the distance between the two is at least 10 feet (3048 mm).

Section 423.5.1; amended to read as follows:

423.5.1 Required occupant capacity. The required occupant capacity of the storm shelter shall include all of the buildings on the site and shall be the total occupant load of the classrooms, vocational rooms and offices in the Group E occupancy.

Exceptions:
1. Where a new building is being added on an existing Group E site, and where the new building is not of sufficient size to accommodate the required occupant capacity of the storm shelter for all of the buildings on the site, the storm shelter shall at a minimum accommodate the required occupant capacity for the new building.

2. Where approved by the building official, the required occupant capacity of the shelter shall be permitted to be reduced by the occupant capacity of any existing storm shelters on the site.
3. Where approved by the building official, the actual number of occupants for whom each occupied space, floor or building is designed, although less than those determined by occupant load calculation, shall be permitted to be used in the determination of the required design occupant capacity for the storm shelter.

Section 503.1.to be amended by adding a sentence to read as follows:

503.1. General.

Where a building contains more than one distinct type of construction, the building shall comply with the most restrictive area, height, and stories, for the lesser type of construction or be separated by fire walls, except as allowed in Section 510.

Section 506.2 to be amended as follows by removing footnote I from table named Allowable Area Factor.

Table 506.2; delete footnote i from table

Section 506.2.3 to be amended by adding sentence to existing text.

506.3.1 Minimum percentage of perimeter.

In order to be considered as accessible, if not in direct contact with a street or fire lane, a minimum 10-foot-wide pathway meeting fire department access from the street or approved fire lane shall be provided.

Section 708.4.2; is amended by adding a sentence to read as follows to Exception 1:

708.4.2 Exception:

1. *Buildings equipped with an automatic sprinkler system installed throughout in accordance with Section 903.3.1.1, or in accordance with Section 903.3.1.2 provided that sprinkler protection is provided in the space between the top of the fire partition and the underside of the floor or roof sheathing, deck or slab above as required for systems complying with Section 903.3.1.1. Portions of buildings containing concealed spaces filled with noncombustible insulation as permitted for sprinkler omission shall not apply to this exception for draft stopping.*

Remainder unchanged

Section 718.3 and 718.4 is amended by adding a sentence to the exceptions as follows:

718.3 Draft stopping in floors.

Exceptions: Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. and provided that in combustible construction, sprinkler protection is provided in the floor space.

Remainder unchanged

Section 718.4; change sentence to read as follows:

718.4 Draftstopping in attics.

Exceptions: Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and provided that in combustible construction, sprinkler protection is provided in the attic space.

Body of text unchanged

Section 901.6.1.1 amended to read as follows:

901.6.1.1 Standpipe Testing. Building owners/managers must maintain and test standpipe systems as per NFPA 25 requirements. The following additional requirements shall be applied to the testing that is required every 5 years:

1. The piping between the Fire Department Connection (FDC) and the standpipe shall be backflushed or inspected by approved camera when foreign material is present or when caps are missing, and also hydrostatically tested for all FDC's on any type of standpipe system. Hydrostatic testing shall also be conducted in accordance with NFPA 25 requirements for the different types of standpipe systems.

2. For any manual (dry or wet) standpipe system not having an automatic water supply capable of flowing water through the standpipe, the tester shall connect hose from a fire hydrant or portable pumping system (as approved by the fire code official) to each FDC, and flow water through the standpipe system to the roof outlet to verify that each inlet connection functions properly. Confirm that there are no open hose valves prior to introducing water into a dry standpipe. There is no required pressure criteria at the outlet. Verify that check valves function properly and that there are no closed control valves on the system.

3. Any pressure relief, reducing, or control valves shall be tested in accordance with the requirements of NFPA 25. All hose valves shall be exercised.

4. If the FDC is not already provided with approved caps, the contractor shall install such caps for all FDC's as required by the fire code official.

5. Upon successful completion of standpipe test, place a blue tag (as per Texas Administrative Code, Fire Sprinkler Rules for Inspection, Test and Maintenance Service (ITM) Tag) at the bottom of each standpipe riser in the building. The tag shall be check-marked as "Fifth Year" for Type of ITM, and the note on the back of the tag shall read "5 Year Standpipe Test" at a minimum.

6. The procedures required by Texas Administrative Code Fire Sprinkler Rules with regard to Yellow Tags and Red Tags or any deficiencies noted during the testing, including the required notification of the local Authority Having Jurisdiction (fire code official) shall be followed.

7. Additionally, records of the testing shall be maintained by the owner and contractor, if applicable, as required by the State Rules mentioned above and NFPA 25.

8. Standpipe system tests where water will be flowed external to the building shall not be conducted during freezing conditions or during the day prior to expected nighttime freezing conditions.

9. Contact the fire code official for requests to remove existing fire hose from Class II and III standpipe systems where employees are not trained in the utilization of this firefighting equipment. All standpipe hose valves must remain in place and be provided with an approved cap and chain when approval is given to remove hose by the fire code official

Section 903.1.1 – 903.4.4 amended or added to read as follows:

903.1.1 Alternative protection**.** Alternative automatic fire-extinguishing systems complying with section 904 shall be permitted in addition to automatic sprinkler protection where recognized by the applicable standard, or as approved by the fire code official.

903.2 Where required**.** Approved automatic sprinkler systems in new and existing buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.3.12.

Automatic sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances. Storage shall not be allowed within the elevator machine room. Signage shall be provided at the entry doors to the elevator machine room indicating “ELEVATOR MACHINERY-NO STORAGE ALLOWED.”

903.2.1.1Group A-1. An automatic sprinkler system shall be provided for fire areas containing Group A-1 occupancies and throughout all stories from the Group A-1 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions apply:

1. The fire area exceeds 6,000 square feet.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge.
4. The fire area contains a multi-theater complex.

903.2.1 Group A-3. An automatic sprinkler system shall be provided throughout stories containing Group A-3 occupancies and throughout all stories from the Group A-3 occupancy to and including the levels of exit discharge serving that occupancy:

1. The fire exceeds 6,000 square feet.
2. The fire area has an occupant load of 300 or more..
3. The fire area is located on a floor other than a level of exit discharge.

903.2.2 Group A-4. An automatic sprinkler system shall be provided throughout stories containing Group A-4 occupancies and throughout all stories from the Group A-4 occupancy to and including the levels of exit discharge serving that occupancy:

1. The fire exceeds 6,000 square feet.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge.

903.2 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E fire areas greater than 6,000 square feet in area.
2. The group E fire area is located on a floor other than a level of exit discharge.
3. Exception: (Deleted)
4. The Group E fire has an occupant load of 300 or

more.

903.3 Group F1. An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy where one of the following exists:

1. A Group F-1 fire area exceeds 6,000 square feet.
2. A Group F-2 fire area is located more than three stories above grade plane.
3. The combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 6,000 square feet.

903.2 Group M. An automatic sprinkler system shall be provided throughout all buildings containing a Group M occupancy where one of the following exists:

1. A Group M fire area exceeds 6,000 square feet.
2. A Group M fire area is located more than two stories above grade plane.
3. The combined area of all Group M fire areas on floors, including any mezzanines, exceeds 6,000 square feet.

903.2 Group S-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following exists:

1. A Group S-1 fire area exceeds 6,000 square feet.
2. A Group S-1 fire area is located more than three stories above grade plane.
3. The combine area of all Group S-1 fire areas on all floors, including *any* mezzanines, exceeds 6,000 square feet.
4. AGroup S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet.

903.2.9 ***Repair Garages.*** *An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406.8 of the International Building Code, as shown:*

1. Buildings having two or more stories above grade plane, including basements, with a fire area containing a repair garage exceeding 6,000 square feet.
2. Building not more than one story above grade plane, with a fire area containing a repair garage exceeding 6,000 square feet.
3. Buildings with repair garages servicing vehicles parked in basements.
4. AGroup S-1 fire area used for the repair of commercial motor vehicles where the fire area exceeds 5,000 square feet.

903.2.9 ***Self-service storage facility.*** *An automatic sprinkler system shall be installed throughout all self-service storage facilities.*

Exception:

1. Self-service storage facilities not greater than one story above grade plane that have no interior corridors and are less than 6,000 square feet.

903.2.10 Group S-2 parking garages**.** An automatic sprinkler system shall be provided throughout buildings classified as parking garages where any of the following conditions exist:

1. Where the fire area of the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, exceeds 6,000 square feet or greater.

2. Where the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, is located beneath other groups.

3. Exception: Enclosed parking garages located beneath buildings that do not contain more than two dwelling units Group R-3 occupancies.

4. Where the fire area of the open parking garage, in accordance with Section 406.5 of the International Building Code, exceeds 48,000 square feet (4460 m2).

903.2.11 **Buildings 35 feet or more in height.** An automatic sprinkler system shall be installed throughout buildings that have one or more stories with an occupant load of 30 or more located 35 feet or more above the lowest level of fire department vehicle access, measured to the finished floor.

Exception:

1. Occupancies in group

F-2

903.2.11 High-piled storage combustible storage. For any building with a clear height exceeding 12 feet, see Chapter 32 to determine if those provisions apply.

903.2.12 Spray Booths and Rooms. New spray booths and spraying rooms shall be protected by an approved automatic fire-extinguishing system.

Section 903.2.11.9 added and amending ordinance #080506B to read as follows:

903.2.13 Buildings over 6,000 sq. ft. All new buildings and structures exceeding 6,000 square feet, shall require automatic sprinkler systems. All existing buildings and structures that exceed 6,000 square feet that have a change of occupancy use/group or undergo substantial remodel of 50% of the aggregate of the floor space shall be required to conform to current adopted codes.

For the purpose of this provision, fire walls shall not define separate buildings. The fire code official may modify the requirement to sprinkler existing buildings pursuant to section 104.9. For purposes of this section, any attachment, awning, cover, or porch is considered fire area and is calculated in total building area.

903.3.1.2.2 Corridors and balconies**.** Sprinkler protection shall be provided in all corridors and for all balconies.

903.3.1 NFPA 13D sprinkler systems**.** Automatic sprinkler systems installed in one- and two- family dwellings; Group R-3; Group R-4, Condition 1; and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D or in accordance with state law.

903.3.2 Freeze Protection**.** Freeze protection systems for automatic fire sprinkler systems shall be in accordance with the requirements of the applicable referenced NFPA standard and this section.

903.3.2.3.1 Attics. Only dry-pipe, preaction, or listed antifreeze automatic fire sprinkler systems shall be allowed to protect attic spaces.

Exception: Wet-pipe fire sprinkler systems shall be allowed to protect non-ventilated attic spaces where:

1. The attic sprinklers are supplied by a separate floor control valve

assembly to allow ease of draining the attic system without impairing sprinklers throughout the rest of the building unless otherwise approved by the fire code official, and

2. Adequate heat shall be provided for freeze protection as per the applicable referenced NFPA standard, and

3. The attic space is a part of the building's thermal, or heat, envelope, such that insulation is provided at the roof deck, rather than at the ceiling level.

903.3.2.4 *Heat/trace insulation*. Heat trace/insulation shall only be allowed where approved by the fire code official for small sections of large diameter water-filled pipe.

903.3.5 Water supplies***.*** *Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code. For connections to public waterworks systems, the water supply test used for design of fire protection systems shall be adjusted to account for seasonal and daily pressure fluctuations based on information from the water supply authority and as approved by the fire code official.*

Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every water-based fire protection system shall be designed with a 5psi safety factor. Reference Section 507.4 for additional design requirements.

903.3.7 Fire department connections**.** Fire department connections for automatic sprinkler systems shall be installed in accordance with Section 912. Locking Knox Box caps will be installed on all new systems and existing systems when caps are missing or damaged.

903.3.9 Sprinkler riser room access**.** Sprinkler system riser rooms providing protection for buildings must be located in a ground floor directly accessible from the exterior. The door must be labeled as the riser room, fire alarm control panel, and address when applicable. No items can be stored in this area that are not related to the fire protection system.

903.4.2 Alarms. An approved audible device, located on the exterior of the building in an approved location, shall be connected to each automatic sprinkler system. Such sprinkler waterflow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

The alarm device required on the exterior of the building shall be a weatherproof horn/strobe notification appliance with a minimum 75 candela strobe rating, installed as close as practicable to the fire department connection.

903.4.3 Floor control valves**.** Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor.Control valves for multi-tenant buildings. Approved supervised indicating control valves shall be provided for each suite connection in a multi-tenant building.

Section 905.2 amended to read as follows:

905.2 Installation Standard**.** Standpipe systems shall be installed in accordance with this section and NFPA 14. Manual dry standpipe systems shall be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low alarm.

add Section 905.3.9 with exception to read as follows**:**

905.3.9 Buildings Exceeding 10,000 sq. ft. In buildings exceeding 10,000 square feet in area per story and where any portion of the building's interior area is more than 200 feet (60960 mm) of travel, vertically and horizontally, from the nearest point of fire department vehicle access, Class I automatic wet or manual wet standpipes shall be provided.

Exceptions:

1. Automatic dry, semi-automatic dry, and manual dry standpipes are allowed as provided for in NFPA 14 where approved by the fire code official.
2. R-2 occupancies of four stories or less in height having no interior corridors.

Section 905.4 amend Items 1, 3, and 5, and add Item 7 to read as follows:

1. In every required exit stairway, a hose connection shall be provided for each story above and below grade plane. Hose connections shall be located at an intermediate landing between stories, unless otherwise approved by the fire code official.
   Exception: No Change
2. No change.
3. In every exit passageway, at the entrance from the exit passageway to other areas of a building.
   Exception: Where floor areas adjacent to an exit passageway are reachable from an exit stairway hose connection by a {remainder of text unchanged}
4. No change.
5. Where the roof has a slope less than 4 units vertical in 12 units horizontal (33.3-percent slope), each standpipe shall be provided with a two-way hose connection located to serve the roof or at the highest landing of an exit stairway with stair access to the roof provided in accordance with Section 1011.12.
6. No change.
7. When required by this Chapter, standpipe connections shall be placed adjacent to all required exits to the structure and at two hundred feet (200') intervals along major corridors thereafter, or as otherwise approved by the fire code official.

Section 905.8; amended to read as follows:

905.8 Dry standpipes**.** Dry standpipes shall not be installed.
Exception: Where subject to freezing and in accordance with NFPA 14. Additionally, manual dry standpipe systems shall be supervised with a minimum of 10 psig and a maximum of 40 psig air pressure with a high/low Supervisory alarm.

Section 905.9; add a second paragraph after the exceptions to read as follows:

Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system and shall cause an alarm upon detection of water flow for more than 45 seconds. All control valves in the sprinkler and standpipe systems except for fire department hose connection valves shall be electrically supervised to initiate a supervisory signal at the central station upon tampering.

Section 906.1(1); amended by deleting Exception #3 as follows:

Section 907.1; add Section 907.1.4 to read as follows:

907.1.4 Design Standards**.** Where a new fire alarm system is installed, the devices shall be addressable. Fire alarm systems utilizing more than 20 smoke detectors shall have analog initiating devices.

Section 907.2.1; amended to read as follows:

907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies having an occupant load of 300 or more persons, or where the occupant load is more than 100 persons above or below the lowest level of

exit discharge. Group A occupancies not separated from one another in accordance with Section 707.3.10 of the International Building Code shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

Exception: *{No change.}*

Activation of fire alarm notification appliances shall:

1. Cause illumination of the means of egress with light of not less than 1 foot-candle (11 lux) at the walking surface level, and
2. Stop any conflicting or confusing sounds and visual distractions.

Section 907.2.3; amended to read as follows:

907.2.3 Group E. A manual fire alarm system that initiates the occupant notification signal utilizing an emergency voice/alarm communication system meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall be installed in Group E educational occupancies. When automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system. An approved smoke detection system shall be installed in Group E day care occupancies. Unless separated by a minimum of 100' open space, all buildings, whether portable buildings or the main building, will be considered one building for alarm occupant load consideration and interconnection of alarm systems.

Exceptions:

1. {No change.}
   1.1. Residential In-Home day care with not more than 12 children may use interconnected single station detectors in all habitable rooms. (For care of more than five children 2 1/2 or less years of age, see Section 907.2.6.) {No change to remainder of exceptions.}

Section 907.2.10 amended to read as follows:

907.2.10 Group S**.** A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group S public- and self-storage occupancies for interior corridors and interior common areas. Visible notification appliances are not required within storage units.

Exception: {No change.}

Section 907.2.13, amended Exception 3 to read as follows:

3. Open air portions of buildings with an occupancy in Group A-5 in accordance with Section 303.1 of the International Building Code; however, this exception does not apply to accessory uses including but not limited to sky boxes, restaurants, and similarly enclosed areas.

Section 907.4.2; amended by adding Section 907.4.2.7 to read as follows:

907.4.2.7 Type**.** Manual alarm initiating devices shall be an approved double action type.

Section 907.6.1; amended by adding Section 907.6.1.1 to read as follows:

907.6.1.1 Wiring Installation. All fire alarm systems shall be installed in such a manner that a failure of any single initiating device or single open in an initiating circuit conductor will not interfere with the normal operation of other such devices. All signaling line circuits (SLC) shall be installed in such a way that a single open will not interfere with the operation of any addressable devices (Class A). Outgoing and return SLC conductors shall be installed in accordance with NFPA 72 requirements for Class A circuits and shall have a minimum of four feet separation horizontal and one foot vertical between supply and

return circuit conductors. The initiating device circuit (IDC) from a signaling line circuit interface device may be wired Class B, provided the distance from the interface device to the initiating device is ten feet or less.

Section 907.6.3; amended by deleting all four exceptions and adding a sentence to the end of the paragraph as follows:

See 907.6.3 for the required information transmitted to the supervising station.

Section 910.2; amend to read as follows and change Exception 2 and 3 to read as follows:

910.2 Where required. Smoke and heat vents or a mechanical smoke removal system shall be installed as required by Sections 910.2.1, 910.2.2, and 910.3.2.

2. Only manual smoke and heat removal shall ~~not~~ be required in areas of buildings equipped with early suppression fast-response (ESFR) sprinklers. Automatic smoke and heat removal is prohibited.
3. Only manual smoke and heat removal shall ~~not~~ be required in areas of buildings equipped with control mode special application sprinklers with a response time index of $50(m*S)^{1/2}$ or less that are listed to control a fire in stored commodities with 12 or fewer sprinklers. Automatic smoke and heat removal is prohibited.

Section 910.2.3; amended to read as follows:

910.2.3 Group H. Buildings and portions thereof used as a Group H occupancy as follows:

1. In occupancies classified as Group H-2 or H-3, any of which are more than 15,000 square feet (1394 m^2) in single floor area.

   Exception: Buildings of noncombustible construction containing only noncombustible materials.

2. In areas of buildings in Group H used for storing Class 2, 3, and 4 liquid and solid oxidizers, Class 1 and unclassified detonable organic peroxides, Class 3 and 4 unstable (reactive) materials, or Class 2 or 3 water-reactive materials as required for a high-hazard commodity classification.

   Exception: Buildings of noncombustible construction containing only noncombustible materials.

Section 910.4.3.1; amended to read as follows:

910.4.3.1 Makeup Air. Makeup air openings shall be provided within 6 feet (1829 mm) of the floor level. Operation of makeup air openings shall be automatic. The minimum gross area of makeup air inlets shall be 8 square feet per 1,000 cubic feet per minute (0.74 m2 per 0.4719 m3/s) of smoke exhaust.

Section 912.2; amended by adding Section 912.2.3 to read as follows:

912.2.3 Hydrant Distance. An approved fire hydrant shall be located within 100 feet of the fire department connection as the fire hose lays along an unobstructed path.

Section 913.2.1; amended by adding Section 913.2.1.1 and exception to read as follows:

913.2.1.1 Fire Pump Room Access. When located on the ground level at an exterior wall, the fire pump room shall be provided with an exterior fire department access door that is not less than 3 ft. in width and

6 ft. – 8 in. in height, regardless of any interior doors that are provided. A key box shall be provided at this door, as required by IFC Section 506.1.

> **Exception:** When it is necessary to locate the fire pump room on other levels or not at an exterior wall, the corridor leading to the fire pump room access from the exterior of the building shall be provided with equivalent fire resistance as that required for the pump room, or as approved by the fire code official. Access keys shall be provided in the key box as required by IFC Section 506.1.

Section 1006.2.1 amended by changing exception 3 to read as follows;

Section 1006.2.1 Egress based on occupant load and common path of egress travel distance.

3. Unoccupied rooftop mechanical rooms and penthouses are not required to comply with the common path of egress travel distance measurement.

Section 1009.8 Two Way Communication; amended by add the following Exception 7:

Exceptions:
7. Buildings regulated under State Law and built in accordance with State registered plans, including variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1009 and Chapter 11.

Section 1010.2.5 Bolt Locks; amended exceptions 3 and 4 as follows:

Exceptions:
3. Where a pair of doors serves an occupant load of less than 50 persons in a Group B, F, M or S occupancy, manually operated edge or surface-mounted bolts are permitted on the inactive leaf. The inactive leaf shall not contain doorknobs, panic bars or similar operating hardware.
4. Where a pair of doors serves a Group A, B, F, M or S occupancy, manually operated edge or surface-mounted bolts are permitted on the inactive leaf provided that such inactive leaf is not needed to meet egress capacity requirements and the building is equipped throughout with and automatic sprinkler system in accordance with Section 903.3.1.1. The inactive leaf shall not contain doorknobs, panic bars or similar operating hardware.

Section 1020.2 Construction; amended by adding new exception 6 as follows**:**

6. In unsprinklered group B occupancies, corridor walls and ceilings need not be of fire-resistive construction within a single tenant space when the space is equipped with approved automatic smoke-detection within the corridor. The actuation of any detector must activate self-annunciating alarms audible in all areas within the corridor. Smoke detectors must be connected to an approved automatic fire alarm system where such system is provided.

Section 1030.1.1.1 Spaces under grandstands and bleachers; amended by deleting this section.

Section 1101.1 Scope; add an exception to Section 1101.1 as follows:

Exception: Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this chapter.

Section 1809.5.1 Frost Protection at required exits; amended by deleting this section

Section 2702.5; amended by adding section 2702.5 to read as follows:

Section 2702.5 Designated Critical Operations Areas (DCOA**):** In areas within a facility or site requiring continuous operation for the purpose of public safety, emergency management, national security or business continuity, the power systems shall comply with NFPA 70 Article 708.

Section 2901.1; amended by adding a sentence to end of paragraph to read as follows:

[P] 2901.1 Scope**.** The provisions of this Chapter are meant to work in coordination with the provisions of Chapter 4 of the International Plumbing Code. Should any conflicts arise between the two chapters, the Building Official shall determine which provision applies.

Section 2902.1; amended by adding a second paragraph to read as follows:

In other than E Occupancies, the minimum number of fixtures in Table 2902.1 may be lowered, if requested in writing, by the applicant stating reasons for a reduced number and approved by the Building Official.

Table 2902.1; amended by adding footnote g and adding a new section 2902.1.4:

g. Drinking fountains are not required in M Occupancies with an occupant load of 100 or less, B Occupancies with an occupant load of 25 or less, and for dining and/or drinking establishments.

2902.1.4 Additional fixtures for food preparation facilities. In addition to the fixtures required in this Chapter, all food service facilities shall be provided with additional fixtures set out in this section.

2902.1.4.1 Hand washing lavatory. At least one hand washing lavatory shall be provided for use by employees that is accessible from food preparation, food dispensing and ware washing areas. Additional hand washing lavatories may be required based on convenience of use by employees.

2902.1.4.2 Service sink. In new or remodeled food service establishments, at least one service sink or one floor sink shall be provided so that it is conveniently located for the cleaning of mops or similar wet floor cleaning tool and for the disposal of mop water and similar liquid waste. The location of the service sink(s) and/or mop sink(s) shall be approved by the **<Jurisdiction's>** health department.
****Section 3002.1 Hoistway Enclosure Protection required. Add exceptions as follows:**

Exceptions:

1. Elevators completely located within atriums shall not require hoistway enclosure protection.
2. Elevators in open or enclosed parking garages that serve only the parking garage, shall not require hoistway enclosure protection.

Section 3005.4 amended by deleting exceptions and adding two new exceptions as follows:

Section 3005.4 Machine rooms, control rooms, machinery spaces and control spaces; Delete four exceptions and add two new exceptions to as follows:

Exceptions:

1. Elevator machine rooms, control rooms, machinery spaces and control spaces completely located within atriums shall not require enclosure protection.

2. Elevator machine rooms, control rooms, machinery spaces and control spaces in open or enclosed parking garages that serve only the parking garage, shall not require enclosure protection.

Section 3005.5: amended by adding a new subsection to Section 3005.5.1 as follows:

3005.5.1 Fire Protection in Machine rooms, control rooms, machinery spaces and control spaces.

3005.5.1.1 Automatic sprinkler system. The building shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, except as otherwise permitted by Section 903.3.1.1.1 and as prohibited by Section 3005.5.1.1.1.

3005.5.1.1.1 Prohibited locations. Automatic sprinklers shall not be installed in machine rooms, elevator machinery spaces, control rooms, control spaces and elevator hoistways.

3005.5.1.1.2 Sprinkler system monitoring. The sprinkler system shall have a sprinkler control valve supervisory switch and water-flow initiating device provided for each floor that is monitored by the building's fire alarm system.

3005.5.1.2 Water protection. An approved method to prevent water from infiltrating into the hoistway enclosure from the operation of the automatic sprinkler system outside the elevator lobby shall be provided.

3005.5.1.3 Omission of Shunt trip. Means for elevator shutdown in accordance with Section 3005.5 shall not be installed.

Section 3005.8; amending by adding a new section 3005.8 as follows:

3005.8 Storage. Storage shall not be allowed within the elevator machine room, control room, machinery spaces and or control spaces. Provide approved signage at each entry to the above listed locations stating: "No Storage Allowed.

Section 3006.2, Hoistway opening protection required; amended by revising #5 as follows:

5. The building is a high rise and the elevator hoistway is more than 55 feet (16 764 mm) in height. The height of the hoistway shall be measured from the lowest floor at or above grade to the highest floors served by the hoistway.

Section 3007.3 and Section 3008.3: amending the section as follows:

3007.3 Water Protection. Water from the operation of an automatic sprinkler system outside the lobby shall be prevent from infiltrating into the hoistway enclosure in accordance with an approved method.

3008.3 Water Protection. Water from the operation of an automatic sprinkler system outside the lobby shall be prevent from infiltrating into the hoistway enclosure in accordance with an approved method.

EXHIBIT B
AMENDMENTS
2023 National Electrical Code

Article 100; add the following to definitions:

Engineering Supervision. Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations **as referenced by TBPELS 137.59 (a)(b) as acceptable by the AHJ**

Article 110.2; change the following to read as follows:

110.2 Approval. The conductors and equipment required or permitted by this *Code* shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third party inspection agency or a field evaluation by a Field Evaluation Body accredited by either the International Code Council International Accreditation Service AC354 or ANSI National Accreditation Board programs and approved by the AHJ.

Exception: Unlisted equipment that is relocated to another location within a jurisdiction or is field modified is subject to the approval by the AHJ. This approval may be by a field evaluation by a NRTL or qualified third-party inspection agency or a field evaluation by a Field Evaluation Body accredited by either the ICC IAS AC354 or ANAB programs *and approved by the AHJ*

Informational Note No. 1: See 90.7, Examination of Equipment for Safety, and 110.3, Examination, Identification, Installation, and Use of Equipment. See definitions of *Approved*, *Identified*, *Labeled*, and *Listed*.

Informational Note No. 2: Manufacturer's self-certification of equipment may not necessarily comply with U.S. product safety standards as certified by an NRTL.

Informational Note No. 3: National Fire Protection Association (NFPA) 790 and 791 provide an example of an approved method for qualifying a third-party inspection agency.

Article110.12 B; add the following to:

(B) Integrity of Electrical Equipment and Connections.
Internal parts of electrical equipment, including busbars, wiring terminals, insulators, and other surfaces, shall not be damaged or contaminated by foreign materials such as paint, plaster, cleaners, abrasives, corrosive residues *or influences, fire, products of combustion, or water*. There shall be no damaged parts that may adversely affect safe operation or mechanical strength of the equipment such as parts that are broken; bent, cut; or deteriorated by corrosion, chemical action, or overheating. E*xcept where prohibited elsewhere in this Code, equipment shall be specifically evaluated by its manufacturer or a qualified testing laboratory prior to being returned to service .*

Article 210.8 A 1 Bathrooms Exception; change the following to read as follows:

(A) Dwelling Units.

All 125-volt through 250-volt receptacles installed in the following locations and supplied by single-phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel:

(1) Bathrooms

Exception No. 4: Factory-installed receptacles that are not readily accessible and are mounted internally to exhaust fan assemblies shall not require GFCI protection unless required by the installation instructions or listing.

Article 210.52 C 1 Countertop and Work Surfaces Exception; change the following to read as follows:

C) Countertops and Work Surfaces.

In kitchens, pantries, breakfast rooms, dining rooms, and similar areas of dwelling units, receptacle outlets for countertop and work surfaces that are 300 mm (12 in.) or wider shall be installed in accordance with 210.52(C)(1) through (C)(3) and shall not be considered as the receptacle outlets required by **210.52(A)**.

For the purposes of this section, where using multioutlet assemblies, each 300 mm (12 in.) of multioutlet assembly containing two or more receptacles installed in individual or continuous lengths shall be considered to be one receptacle outlet.

(1) Wall Spaces.
Receptacle outlets shall be installed so that no point along the wall line is more than 600 mm (24 in.) measured horizontally from a receptacle outlet in that space. The location of the receptacles shall be in accordance with **210.52(C)(3)**.

*Exception: Receptacle outlets shall not be required directly behind a range, counter-mounted cooking unit, or sink in the installation described in **Figure 210.52(C)(1)**.*

Article 210.52 C 2 Island and Peninsular Countertops and Work Surfaces: Change the following to read as follows:

Receptacle outlets, if installed to serve an island or peninsular countertop or work surface, shall be installed in accordance with **210.52(C)(3)**. If a receptacle outlet is not provided to serve an island or peninsular countertop or work surface, a chapter 3 wiring method shall be installed and supplied from a Small Appliance Branch Circuit to a Listed Outlet Box in the Peninsular or Island Cabinet at an Accessible Location, for future addition of a receptacle outlet to serve the island or peninsular countertop or work surface.

Article 210.63 B 1 Equipment Requiring Servicing.; change the following to read as follows:

(B) Other Electrical Equipment.
In other than one- and two-family dwellings, a receptacle outlet shall be located as specified in **210.63(B)(1)** and (B)(2).

(1) Indoor Service Equipment.
The required receptacle outlet shall be located within the same room or area as the service equipment.

(2) Indoor Equipment Requiring Dedicated Equipment Spaces.
Where equipment, other than service equipment, requires dedicated equipment space as specified in **110.26(E)**, the required receptacle outlet shall be located within the same room or area as the electrical equipment

New Article 220.7 Load Calculation; add the following:

A load calculation shall be provided upon request when modifications to the electrical installation occur.

Article 230.85 C Emergency Disconnects: Change the following to read as follows:

For one- and two-family dwelling units, an emergency disconnecting means shall be installed.

(C) Replacement.
Where service equipment is replaced, all of the requirements of this section shall apply.

Exception: Where a pre-existing installation is Code Compliant with 230.70 A, only meter sockets, service entrance conductors, or related raceways and fittings are replaced, the requirements of this section shall not apply.

Article 408.4 Descriptions ~~Field Identification~~ Required: Change the following to read as follows

(A) Circuit Directory or Circuit Description.
Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable:

(1) Located at each switch or circuit breaker in a switchboard or switchgear

(2) Included in a circuit directory that is located on the face of, inside of, or in an approved location adjacent and permanently affixed to the panel door in the case of a panelboard

(3) Clear, evident, and specific to the purpose or use of each circuit including spare positions with an unused overcurrent device

(4) Described with a degree of detail and clarity that is unlikely to result in confusion between circuits

(5) Not dependent on transient conditions of occupancy

(6) Clear in explaining abbreviations and symbols when used

Article 410.118: Change the following to read as follows

410.118 Access to other boxes.
Luminaires recessed in the ceilings, floors, or walls shall not be used to access outlet, pull, or junction boxes or conduit bodies, unless the box or conduit body is an integral part of the listed luminaire.

Article 422.31 B: Change the following to read as follows

422.31 B Appliances Rated over 300 Volt-Amperes

(B) Appliances Rated over 300 Volt-Amperes. For permanently connected appliances rated over 300 volt-amperes, the branch-circuit switch or circuit breaker shall be permitted to serve as the disconnecting means where the switch or circuit breaker is within sight from and is readily accessible to the appliance it serves or is capable of being locked in the open position in accordance with 110.25 and is readily accessible to the appliance it serves.

Informational Note No. *1*: For appliances employing unit switches, see 422.34.

Informational Note No 2: The following means of access are considered to constitute readily accessible for this code change when conforming to the additional access requirements of the I Codes:
(1) A permanent stair.
(2) A pull-down stair with a minimum 300 lb. (136 kg) capacity.
(3) An access door from an upper floor level.

***Article 500.8 (A) (3); change to read as follows:**

500.8 Equipment.
Articles 500 through 504 require equipment construction and installation that ensure safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance.

Informational Note No. 2: Since there is no consistent relationship between explosion properties and ignition temperature, the two are independent requirements.

Informational Note No. 3: Low ambient conditions require special consideration. Explosion proof or dust-ignition proof equipment may not be suitable for use at temperatures lower than -25°C (-13°F) unless they are identified for low-temperature service. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified as Class I, Division 1 at normal ambient temperature.

(A) Suitability. Suitability of identified equipment shall be determined by one of the following:

(1) Equipment listing or labeling;
(2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation; or,
(3) By Special Permission Only, Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation *accompanied by* or an owner's engineering judgment an engineering judgment signed and sealed Under Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations as referenced by TBPELS 137.59 (a)(b) as acceptable by the AHJ.

Informational Note: Additional documentation for equipment may include certificates demonstrating compliance with applicable equipment standards, indicating special conditions of use, and other pertinent information.

******Article 505.7 and 505.7 (A); change to read as follows:***

505.7 Special Precaution.
~~Article 505~~ This article requires equipment construction and installation that ensures safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care regarding the installation and maintenance of electrical equipment in hazardous (classified) locations.

Informational Note No. 2: Electrical equipment that is dependent on the protection technique permitted by 505.8(A) may not be suitable for use at temperatures lower than -20°C (-4°F) unless they are identified for use at lower temperatures. Low ambient conditions require special consideration. At low ambient temperatures, flammable concentrations of vapors might not exist in a location classified Class I, Zones 0, 1, or 2 at normal ambient temperature.

(A) Implementation of Zone Classification System. Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations as referenced by TBPELS 137.59 (a)(b) as acceptable by the AHJ.

(B) GO TO TBPE LAW FOR THE DEFINITION OF AN ENGINEER
https://pels.texas.gov/
https://pels.texas.gov/downloads/lawrules.pdf

Article 695.6 A 1: Change the following to read as follows:

695.6 (A) Supply Conductors.

(1) Services and On-Site Power Production Facilities.
Service conductors and conductors supplied by on-site power production facilities shall be physically routed outside a building(s) and shall be installed as service-entrance conductors in accordance with 230.6, 230.9, and Parts III and IV of Article 230. Where supply conductors cannot be physically routed outside of buildings, the conductors shall be permitted to be routed through the building(s) where installed in accordance with
230.6(1) or (2).

Article 690.9 D: Change the following to read as follows:

690.9(D) Transformers. Overcurrent protection for power transformers shall be installed in accordance with 705.30(F).

Article 705.8 System Installation: Change the following to read as follows:

705.8 System Installation. Installation of one or more electrical power production sources operating in parallel with a primary source(s) of electricity shall be performed only by qualified persons. During the installation there shall be on site one of the following:

(1) A person holding a Master Electrician License issued by the Texas Department of Licensing and Regulation.

(2)A person holding a Journeyman Electrician License issued by the Texas Department of Licensing and Regulation.

705.80 Power Source Capacity.

For interconnected power production sources that operate in island mode, capacity shall be calculated using the sum of all power source output maximum currents for the connected power production source. Solar photovoltaic (PV) and wind systems shall not be included in the sum capacity.

EXHIBIT C
AMENDMENTS
2021 International Energy Conservation Code
And the energy provisions of the
2021 International Residential Code

2021 IECC (Energy Provisions of the 2021 IRC)

Section 105.2 Required Inspections; Changed numbering and to read as follows:

R105.2.1 Footing and foundation inspection.
Inspections associated with footings and foundations shall verify compliance with the code as to R-value, location, thickness, depth of burial and protection of insulation as required by the code and approved plans and specifications.

R105.2.2 Framing and Air Barrier rough-in inspection.
Inspections at framing and rough-in shall be made before application of insulation and shall verify compliance with the code as to:~~,~~ air leakage controls as required by the code; and approved plans and specifications.

R105.2.3 Insulation and Fenestration rough-in inspection.
Inspections at framing and rough-in shall be made before application of interior finish and shall verify compliance with the code as to: types of insulation and corresponding R-values and their correct location and proper installation; fenestration properties such as U-factor and SHGC and proper installation.

R105.2.3~~4~~ Plumbing rough-in inspection.
Inspections at plumbing rough-in shall verify compliance as required by the code and approved plans and specifications as to types of insulation and corresponding R-values and protection and required controls.

R105.2.4~~5~~ Mechanical rough-in inspection.
Inspections at mechanical rough-in shall verify compliance as required by the code and approved plans and specifications as to installed HVAC equipment type and size, required controls, system insulation and corresponding R-value, system air leakage control, programmable thermostats, dampers, whole-house ventilation, and minimum fan efficiency.

Exception: Systems serving multiple dwelling units shall be inspected in accordance with Section C105.2.4.

R105.2.5~~6~~ Final inspection.
The building shall have a final inspection and shall not be occupied until approved. The final inspection shall include verification of the installation of all required building systems, equipment and controls and their proper operation and the required number of high-efficacy lamps and fixtures.

Section C102/R102 General; add Section C102.1.2 and R102.1.2 (N1101.4.1) amended to read as follows:

C102.1.2 Alternative compliance. A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance.

R102.1.2 (N1101.4.1) Alternative compliance. A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official,

be considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance. Regardless of the program or the path to compliance, each 1- and 2-family dwelling shall be tested for air and duct leakage as prescribed in Section R402.4.1.2 (N1102.4.1.2) and R403.3.3 (N1103.3.3) respectively.

Section R202 (N1101.6) Definitions; ***add the following definition:***

PROJECTION FACTOR. The ratio of the horizontal depth of the overhang, eave or permanently attached shading device, divided by the distance measured vertically from the bottom of the fenestration glazing to the underside of the overhang, eave or permanently attached shading device.

Section R202 (N1101.6) Definitions; ***add the following definition:***

DYNAMIC GLAZING. Any fenestration product that has the fully reversible ability to change it performance properties, including *U*-factor, solar heat gain coefficient (SHGC), or visible transmittance (VT).

Table 402.1.2 Maximum Assembly/Climate Zone items: amend table as follows.

Climate Zone	*Fenestration U-Factor[f]*	*Ceiling U-Factor*
2	*.40*	*~~0.26~~ 0.29*
3	*~~0.30~~ 0.32*	*~~0.26~~ 0.29*

Table 402.1.3 Insulation/Climate Zone items: amend table as follows.

Climate Zone	*Fenestration U-Factor[b,i]*	*Ceiling R-Value*	*Wood Frame Wall R-Value*	*Slab R-Value & Depth*
2	*.40*	*~~49~~ 42*	*13 or 0 + 10*	*0*
3	*~~0.30~~ 0.32*	*~~49~~ 42*	*19 or 13+~~5~~3ci, 0+15*	*~~10ci, 2 ft~~ 0*

Section C402.5.2 Dwelling and sleeping unit enclosure testing. Amended to read as follows

C402.5.2 Dwelling and sleeping unit enclosure testing. The building thermal envelope shall be tested in accordance with ASTM E779. ANSI/RESNET/ICC 380, ASTM E1827 or an equivalent method approved the code official. The measured air leakage shall not exceed 0.30 cfm/ft2 (1.5 Us m2) of the testing unit enclosure area at a pressure differential of 0.2 inch water gauge (50 Pa). Where multiple dwelling units or sleeping units or other occupiable conditioned spaces are contained within one building thermal envelope, each unit shall be considered an individual testing unit, and the building air leakage shall be the weighted average of all testing unit results, weighted by each testing unit's enclosure area. Units shall be tested separately with an unguarded blower door test as follows:

1. Where buildings have fewer than eight testing units, each testing unit shall be tested.
2. For buildings with eight or more testing units, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit enclosure area. For each tested unit that exceeds the maximum air leakage rate, an additional two three units shall be tested, including a mixture of testing unit types and locations.

Section R402.4.1 Building thermal envelope; add section R402.4.1.4 amended to read as follows

R402.4.1.4 Sampling options for R2 multifamily dwelling units. For buildings with eight or more testing units that must be tested as required by R402.4.1.2 or R402.4.1.3, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit enclosure area. For each tested unit that exceeds the maximum air leakage rate, an additional three units shall be tested, including a mixture of testing unit types and locations. Where buildings have fewer than eight testing units, each testing unit shall be tested.

Section R403.3 Ducts; add section R403.3.8 amended to read as follows

R403.3.8 Sampling options for R2 multifamily dwelling units. For buildings with eight or more testing units that must be tested as required by R403.3.5, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit floor area. For each tested unit that exceeds the maximum duct leakage rate, an additional three units shall be tested, including a mixture of testing unit types and locations. Where buildings have fewer than eight testing units, each testing unit shall be tested.

Section R403.6 Mechanical Ventilation; add section R403.6.4 amended to read as follows

R403.6.4 Sampling options for R2 multifamily dwelling units. For buildings with eight or more testing units that must be tested as required by R403.6.3, the greater of seven units or 20 percent of the testing units in the building shall be tested, including a top floor unit, a ground floor unit, a middle floor unit, and a unit with the largest testing unit floor area. For each tested unit that does not meet the minimum ventilation rate, an additional three units shall be tested, including a mixture of testing unit types and locations. Where buildings have fewer than eight testing units, each testing unit shall be tested.

R405.2 Performance-based compliance. Amended to read as follows.

R405.2 Performance-based compliance. Compliance based on total building performance requires that a *proposed design* meets all of the following:

1. The requirements of the sections indicated within Table R405.2.
2. The building thermal envelope greater than or equal to levels of efficiency and solar heat gain coefficients in Table R402.1.1 or R402.1.3 of the 2009 *International Energy Conservation Code.*
3. An annual energy cost that is less than or equal to the annual energy cost of the 2021 *standard reference design* or 8% less than the annual energy cost of the 2018 *standard reference design.* Energy prices shall be taken from a source *approved* by the *code official,* such as the Department of Energy, Energy Information Administration's State Energy Data System Prices and Expenditures reports. Code officials shall be permitted to require time-of-use pricing in energy cost calculations.

   Exception: The energy use based on source energy expressed in Btu or Btu per square foot of *conditioned floor area* shall be permitted to be substituted for the energy cost. The source energy multiplier for electricity shall be 3.16. The source energy multiplier for fuels other than electricity shall be 1.1.

Section R401.2.5 Additional Energy efficiency; *deleted in its entirety.*

Section R408 ADDITIONAL EFFICIENCY PACKAGE OPTIONS; *deleted in its entirety.*

Section R402.4.6 Electrical and Communication outlet boxes. Delete after the first sentence to read as follows.

R402.4.6 Electrical and communication outlet boxes (air-sealed boxes). Electrical and communication outlet boxes installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces

Section R404.2 Interior Lighting Controls; deleted in its entirety.

TABLE R406.4 (N1106.4) MAXIMUM ENERGY RATING INDEX; **amend to read as follows**:

TABLE R406.4 *(N1106.4)* [1]
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	~~52~~ 63
3	~~52~~ 63

[1] This table is effective until August 31, 2022.

TABLE R406.4 *(N1106.4)* [2]
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	~~52~~ 59
3	~~52~~ 59

[2] The table is effective from September 1, 2022 to August 31, 2025.

TABLE R406.4 *(N1106.4)* [3]
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	~~52~~ 57
3	~~52~~ 57

[3] The table is effective from September 1, 2025 to August 31, 2028.

TABLE R406.4 *(N1106.4)* [3]
MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	~~52~~ 55
3	~~52~~ 55

[4] This table is effective on or after September 1, 2028.

NOTE : HB 3215 was signed into law by the Governor on June 14, 2021 as part of the *87th Regular Session* *Codified in Chapter 388 Texas Building Energy Performance Standards: §388.003 (i), (j), and (k).* HB 3215 now allows a **Home Energy Rating System Index (ex. HERS Index)** utilizing ANSI/RESNET/ICC Standard 301 (as it existed on January 1, 2021) shall be considered in compliance with State law provided that:

- *The home includes compliance with the Mandatory requirements of 2018 IECC Section R406.2.*
- *The home includes compliance with Building thermal envelope provisions of Table R402.1.2 or Table R402.1.4 of the 2018 IECC*

City of Heath, Texas

Amendments to the 2021 International Fire Code

The following sections, paragraphs, and sentences of the 2021 International Fire Code (IFC) are hereby amended as follows:

Section 101.1 is amended to read as follows:

> **101.1 Title.** These regulations shall be known as the Fire Code of the City of Heath, hereinafter referred to as "this code."

Section 103.1 is amended to read as follows:

> **103.1 Creation of Agency.** The Heath Department of Public Safety, Fire Marshal Division is hereby created and the official in charge thereof shall be known as the fire code official. The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.

Section 105.5.31 is amended to read as follows:

> **105.5.31 Mobile food preparation vehicles.** A permit is required for mobile food preparation vehicles equipped with appliances that produce smoke or grease-laden vapors and/or uses an electric or gas/fuel to heat food or beverages.

Section 105.6 is amended to read as follows:

> **105.6 Required construction permits.** The fire code official is authorized to issue construction permits for work as set forth in Sections 105.6.1 through 105.6.25.

Section 105.6.25 is added to read as follows:

> **105.6.25 Electronic access control systems.** Construction permits are required to install or modify an electronic access control system, as specified in Chapter 10. A separate construction permit is required to install or modify a fire alarm system that may be connected to the access control system. Maintenance performed in accordance with this code is not considered to be a modification and does not require a permit.

Section 111.3 is deleted in its entirety:

Section 112.4 is amended to read as follows:

> **112.4 Violation penalties.** Persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or of a permit or certificate used under provisions of this code, shall be subject to penalties as prescribe by law.

Section 202 the following definitions are added to read as follows:

> **DEFEND IN PLACE.** A method of emergency response that engages building components and trained staff to provide occupant safety during an emergency. Emergency response involves remaining in place, relocating within the building, or both, without evacuating the building.

Standby Personnel. Qualified fire service personnel, approved by the fire chief. When utilized the number required shall be as directed by the fire chief. Charges for utilization shall be as normally calculated by the jurisdiction.

Upgraded or Replaced Fire Alarm System. A fire alarm system that is upgraded or replaced includes, but is not limited to the following:

1. Replacing one single board or fire alarm control unit component with a newer model.
2. Installing a new fire alarm control unit in addition to or in place of an existing one.
3. Conversion from a horn system to an emergency voice/alarm communication system.
4. Conversion from a conventional system to one that utilizes addressable or analog devices.

The following are not considered an upgrade or replacement:

1. Firmware updates
2. Software updates
3. Replacing boards of the same model with chips utilizing the same or newer firmware.

Section 202 the following definitions are amended to read as follows:

AMBULATORY CARE FACILITY. Buildings or portions thereof used to provide medical, surgical, psychiatric, nursing, or similar care on a less than 24-hour basis to persons who are rendered incapable of self-preservation by the services provided or staff has accepted responsibility for care recipients already incapable. This group may include but not be limited to the following:

1. Dialysis centers
2. Procedures involving sedation
3. Sedation dentistry
4. Surgery centers
5. Colonic centers
6. Psychiatric centers

Fire Watch. A temporary measure intended to ensure continuous and systematic surveillance of a building or portion thereof by one or more qualified individuals or standby personnel when required by the fire code official, for the purposes of identifying and controlling fire hazards, detecting early signs of unwanted fire, raising an alarm of fire and notifying the fire department.

High Rise Building. A building with an occupied floor located more than 55 feet above the lowest level of fire department vehicle access.

Repair Garage. A building, structure or portion thereof used for servicing or repairing motor vehicles. This occupancy shall also include garage involved in modification and servicing of motor vehicles and lube changes.

Section 307.2 amended to read as follows:

307.2 Permit required. A permit shall be obtained from the fire code official in accordance with Section 105.6 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention or control of disease or pests, or open burning. Application for such approval shall only be presented by and permits issued to the owner of the land upon which the fire is to be kindled.

Section 307.4 and 307.4.1 amended to read as follows:

307.4 Location. The location of open burning shall not be less than 300 feet from any structure, and provisions shall be made to prevent the fire from spreading to within 300 feet of any structure.

Exceptions:

1. Fires in approved containers that are not less than 15 feet from a structure.
2. The minimum required distance from a structure shall be 25 feet where the pile size is 3 feet or less in diameter and 2 feet or less in height.

Section 308.1.6 amended to read as follows:

308.1.6 Open flame devices. Torches and other devices, machines or processes liable to start or cause fire shall not be operated or used, except by a permit in accordance with Section 105.5 secured from the fire code official.

Exception:

1. Use within inhabited premises or designated campsites that are not less than 30 feet from grass, grain, brush, or forest-covered areas.

Section 308.1.6.2 amended to read as follows:

Exception:

(3) Torches or flame-producing devices in accordance with Section 308.1.3.

Section 308.2 amended to read as follows:

308.2 Permits required. Permits shall be obtained from the fire code official in accordance with Section 105.5 prior to engaging in the following activities involving open flame, fire and burning:

1. Use of a torch or flame-producing device to remove paint from a structure.
2. Use of open flame, fire or burning in connection with Group A or E occupancies.
3. Use or operation of torches and other devices, machines or processes liable to start or cause a fire.

Section 501.4 amended to read as follows:

501.4 Timing of installation. When fire apparatus access roads or a water supply fire protection is required to be installed for any structure or development, they shall be installed, tested, and approved prior to the time of which construction has progressed beyond completion of the foundation of any structure.

Section 503.2.1 amended to read as follows:

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet exclusive of shoulders, except for approved security gates in accordance with Section 503.6 and an unobstructed vertical clearance of not less than 14 feet.

Section 503.2.3 amended to read as follows:

503.2.3 Surface. Fire apparatus access roads shall be designed and maintained to support the imposed loads of a 2-axle, 85,000 Lbs. for fire apparatus and shall be surfaced so as to provide all-weather driving capabilities in accordance with the City of Heath Engineering Standards. All fire lanes shall be maintained and kept in good state of repair at all times by the owner. It shall further be the responsibility of the owner to ensure that all fire lane markings required by Section 503.3 be kept so that they are easily distinguishable by the public.

Section 503.4 amended to reach as follows:

503.4 Obstruction of fire apparatus roads. Fire apparatus access roads shall not be obstructed in any manner, including the parking of vehicles. The minimum widths and clearances established in Section 503.2 and any area marked as a fire lane as described in Section 503.3 shall be maintained at all times.

Section 503.6 amended to read as follows:

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. The security gates and the emergency operation shall be maintained operational at all times. Electric gate operators, where provided, shall be listed in accordance with UL 325. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F2200. Security gates shall be equipped with:

1. Electronic gates shall have a Opticom® Emergency Vehicle Preemption Device and Knox® Gate Key Switch. There shall be a fail-safe manual back-up or automatic release in the event of a failure of the electrical or mechanical system. All manual gates shall open by means of a Knox® padlock.

Section 504.11 added to read as follows:

504.1.1 Master Key System. Any new structure designed to accommodate multiple tenants shall incorporate a “Master Key System” for all door openings.

Section 505.1 amended to read as follows:

505.1 Address Identification. New and existing buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 12 inches high with a minimum stroke width of 1/2 inch.

Where required by the fire code official, address numbers shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road, buildings do

not immediately front a street, and/or the building cannot be viewed from the public way, a monument, pole or other sign with approved 12 inch height building numerals or addresses and 6 inch height suite/apartment numerals of a color contrasting with the background of the building or other approved means shall be used to identify the structure. Numerals or addresses shall be posted on a minimum 20-inch (508 mm) by 30-inch (762 mm) background on border. Address identification shall be maintained by the owner.

Section 506.1.3 added to read as follows:

506.1.3 Knox box locations. A key box shall be provided at the main building entrance, entrance near riser room, and fire pump room. Additional key boxes may be required at the discretion of the fire code official. The Knox Box shall be a recessed type with a hinge.

Section 507.1 amended to read as follows:

507.1 Required water supply. An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises on which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction. Existing fire hydrants on adjacent properties shall not be considered available unless fire apparatus access roads extend between properties and easements are established to prevent obstruction of such roads. Existing fire hydrants on public streets are allowed to be considered as available where streets are not provided with median dividers which cannot be crossed by fire fighters pulling hose lines.

Section 507.4 amended to read as follows:

507.4 Water supply test date and information. The water supply test used for hydraulic calculation of fire protection systems shall be conducted in accordance with NFPA 291 "Recommended Practice for Fire Flow Testing and Marking of Hydrants" and within one year of sprinkler plan submittal. The fire code official shall be notified prior to the water supply test. Water supply tests shall be witnessed by the fire code official. The exact location of the static/residual hydrant and the flow hydrant shall be indicated on the design drawings.

All fire protection plan submittals shall be accompanied by a hard copy of the waterflow test report, or as approved by the fire code official. The report must indicate the dominant water tank level at the time of the test and the maximum and minimum operating levels of the tank, as well, or identify applicable water supply fluctuation. The licensed contractor must then design the fire protection system based on this fluctuation information, as per the applicable referenced NFPA standard.

Section 507.5.7 added to read as follows:

507.5.7 Markings. The location of all fire hydrants shall be identified with a blue reflective road dot placed near the center of the roadway or fire apparatus road.

Section 509.1.2 added to read as follows:

509.1.2 Sign Requirements. Unless more stringent requirements apply, lettering for signs required by this section shall have a minimum height of 2 inches when located inside a building and 4 inches when located outside, or as approved by the fire code official. The letters shall be of a color that contrasts with the background.

Section 509.3 added to read as follows:

509.3 Sign specifications. Where signage is required by this section, other provisions of this code, or where required by the fire code official, the construction and design shall comply with the Fire Marshal Division Signage Requirements Guide.

Section 605.4 through 605.4.2.2 amended to read as follows:

605.4 Fuel oil storage systems. Fuel oil storage systems shall be installed and maintained in accordance with this code. Tanks and fuel-oil piping systems shall be installed in accordance with Chapter 13 of the *International Mechanical Code* and Chapter 57.

605.4.1 Fuel oil storage in outside, above-ground tanks. Where connected to a fuel-oil piping system, the maximum amount of fuel oil storage allowed outside above ground without additional protection shall be 660 gallons (2498 L). The storage of fuel oil above ground in quantities exceeding 660 gallons (2498 L) shall comply with NFPA 31 and Chapter 57.

605.4.1 Approval. Outdoor fuel oil storage tanks shall be in accordance with UL 142 or UL 2085, and also listed as double-wall/secondary containment tanks.

605.4.2 Fuel oil storage inside buildings. Fuel oil storage inside buildings shall comply with Sections 605.4.2.2 through 605.4.2.8 and Chapter 57.

605.4.2.1 Approval. Indoor fuel oil storage tanks shall be in accordance with UL 80, UL 142 or UL 2085.

605.4.2.2 Quantity limits. One or more fuel oil storage tanks containing Class II or III *combustible liquid* shall be permitted in a building. The aggregate capacity of all tanks shall not exceed the following:

1. 660 gallons (2498 L) in unsprinklered buildings, where stored in a tank complying with UL 80, UL 142 or UL 2085, and also listed as a double-wall/secondary containment tank for Class II liquids.
2. 1,320 gallons (4996 L) in buildings equipped with an automatic sprinkler system in accordance with Section 903.3.1.1, where stored in a tank complying with UL 142 or UL 2085. The tank shall be listed as a secondary containment tank, and the secondary containment shall be monitored visually or automatically.
3. 3,000 gallons (11 356 L) in buildings equipped with an automatic sprinkler system in accordance with Section 903.3.1.1, where stored in protected above-ground tanks complying with UL 2085 and Section 5704.2.9.7. The tank shall be listed as a secondary containment tank, as required by UL 2085, and the secondary containment shall be monitored visually or automatically.

Section 901.7 amended to read as follows:

901.7 Systems out of service. Where a required fire protection system is out of service or in the event of an excessive number of activations, the fire department and the fire code official shall be

notified immediately and, where required by the fire code official, the building shall either be evacuated or an approved fire watch shall be provided for all occupants left unprotected by the shut down until the fire protection system has been returned to service.

Where utilized, fire watches shall be provided with not less than one approved means for notification of the fire department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires.

Exception:

1. Facilities with an approved notification and impairment management program. The notification and impairment program for water-based fire protection systems shall comply with NFPA 25.

Section 903.1.1 added to read as follows:

903.1.1 Alternative protection. Alternative automatic fire-extinguishing systems complying with section 904 shall be permitted in addition to automatic sprinkler protection where recognized by the applicable standard, or as approved by the fire code official.

Section 903.2 amended to read as follows:

903.2 Where required. Approved automatic sprinkler systems in new and existing buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.3.12.

Automatic sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances. Storage shall not be allowed within the elevator machine room. Signage shall be provided at the entry doors to the elevator machine room indicating "ELEVATOR MACHINERY-NO STORAGE ALLOWED."

Section 903.2.1, 2.1.3 and 2.1.4 amended as follows:

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided for fire areas containing Group A-1 occupancies and throughout all stories from the Group A-1 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions apply:

1. The fire area exceeds 6,000 square feet.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge.
4. The fire area contains a multi-theater complex.

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided throughout stories containing Group A-3 occupancies and throughout all stories from the Group A-3 occupancy to and including the levels of exit discharge serving that occupancy:

1. The fire exceeds 6,000 square feet.
2. The fire area has an occupant load of 300 or more..
3. The fire area is located on a floor other than a level of exit discharge.

903.2.1.4 Group A-4. An automatic sprinkler system shall be provided throughout stories containing Group A-4 occupancies and throughout all stories from the Group A-4 occupancy to and including the levels of exit discharge serving that occupancy:

1. The fire exceeds 6,000 square feet.
2. The fire area has an occupant load of 300 or more.
3. The fire area is located on a floor other than a level of exit discharge.

Section 903.2.3 amended to read as follows:

903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E fire areas greater than 6,000 square feet in area.
2. The group E fire area is located on a floor other than a level of exit discharge.
3. Exception: *(Deleted)*
4. The Group E fire has an occupant load of 300 or more.

Section 903.2.4 amended to read as follows:

903.2.4 Group F1. An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy where one of the following exists:

1. A Group F-1 fire area exceeds 6,000 square feet.
2. A Group F-2 fire area is located more than three stories above grade plane.
3. The combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 6,000 square feet.

Section 903.2.7 amended to read as follows:

903.2.7 Group M. An automatic sprinkler system shall be provided throughout all buildings containing a Group M occupancy where one of the following exists:

1. A Group M fire area exceeds 6,000 square feet.
2. A Group M fire area is located more than two stories above grade plane.
3. The combined area of all Group M fire areas on floors, including any mezzanines, exceeds 6,000 square feet.

Section 903.2.9 amended to read as follows:

903.2.9 Group S-1. An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following exists:

1. A Group S-1 fire area exceeds 6,000 square feet.
2. A Group S-1 fire area is located more than three stories above grade plane.
3. The combine area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 6,000 square feet.
4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet.

Section 903.2.9.1 amended to read as follows:

903.2.9.1 Repair Garages. An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406.8 of the International Building Code, as shown:

1. Buildings having two or more stories above grade plane, including basements, with a fire area containing a repair garage exceeding 6,000 square feet.
2. Building not more than one story above grade plane, with a fire area containing a repair garage exceeding 6,000 square feet.
3. Buildings with repair garages servicing vehicles parked in basements.
4. A Group S-1 fire area used for the repair of commercial motor vehicles where the fire area exceeds 5,000 square feet.

Section 903.2.9.5 added to read as follows:

903.2.9.5 Self-service storage facility. An automatic sprinkler system shall be installed throughout all self-service storage facilities.

Exception:

1. Self-service storage facilities not greater than one story above grade plane that have no interior corridors and are less than 6,000 square feet.

Section 903.2.10 amended to read as follows:

903.2.10 Group S-2 parking garages. An automatic sprinkler system shall be provided throughout buildings classified as parking garages where any of the following conditions exist:

1. Where the fire area of the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, exceeds 6,000 square feet or greater.
2. Where the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, is located beneath other groups.
3. **Exception:** Enclosed parking garages located beneath buildings that do not contain more than two dwelling units Group R-3 occupancies.
4. Where the fire area of the open parking garage, in accordance with Section 406.5 of the International Building Code, exceeds 48,000 square feet (4460 m2).

Section 903.2.11.3 amended to read as follows:

903.2.11.3 Buildings 35 feet or more in height. An automatic sprinkler system shall be installed throughout buildings that have one or more stories with an occupant load of 30 or more located 35 feet or more above the lowest level of fire department vehicle access, measured to the finished floor.

Exception:

1. Occupancies in Group F-2

Section 903.2.11.7 added to read as follows:

903.2.11.7 High-piled storage combustible storage. For any building with a clear height exceeding 12 feet, see Chapter 32 to determine if those provisions apply.

Section 903.2.11.8 added to read as follows:

903.2.11.8 Spray Booths and Rooms. New spray booths and spraying rooms shall be protected by an approved automatic fire-extinguishing system.

Section 903.2.11.9 added/amending ordinance #080506B to read as follows:

903.2.11.9 Buildings over 6,000 sq. ft. All new buildings and structures exceeding 6,000 square feet, shall require automatic sprinkler systems. All existing buildings and structures that exceed 6,000 square feet that have a change of occupancy use/group or undergo substantial remodel of 50% of the aggregate of the floor space shall be required to conform to current adopted codes.

For the purpose of this provision, fire walls shall not define separate buildings. The fire code official may modify the requirement to sprinkler existing buildings pursuant to section 104.9. For purposes of this section, any attachment, awning, cover, or porch is considered fire area and is calculated in total building area.

Section 903.3.1.2.2 amended to read as follows:

903.3.1.2.2 Corridors and balconies. Sprinkler protection shall be provided in all corridors and for all balconies.

Section 903.3.1.3 amended to read as follows:

903.3.1.3 NFPA 13D sprinkler systems. Automatic sprinkler systems installed in one- and two-family *dwellings*; Group R-3; Group R-4, Condition 1; and *townhouses* shall be permitted to be installed throughout in accordance with NFPA 13D or in accordance with state law.

Section 903.3.1.4 added to read as follows:

903.3.1.4 Freeze Protection. Freeze protection systems for automatic fire sprinkler systems shall be in accordance with the requirements of the applicable referenced NFPA standard and this section.

903.3.1.4.1 Attics. Only dry-pipe, preaction, or listed antifreeze automatic fire sprinkler systems shall be allowed to protect attic spaces.

Exception: Wet-pipe fire sprinkler systems shall be allowed to protect non-ventilated attic spaces where:

1. The attic sprinklers are supplied by a separate floor control valve assembly to allow ease of draining the attic system without impairing sprinklers throughout the rest of the building unless otherwise approved by the fire code official, and
2. Adequate heat shall be provided for freeze protection as per the applicable referenced NFPA standard, and
3. The attic space is a part of the building's thermal, or heat, envelope, such that insulation is provided at the roof deck, rather than at the ceiling level.

903.3.1.4.2 Heat/trace insulation. Heat trace/insulation shall only be allowed where approved by the fire code official for small sections of large diameter water-filled pipe.

Section 903.3.5 amended to read as follows:

903.3.5 Water supplies. Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code. For connections to public waterworks systems, the water supply test used for design of fire protection systems shall be adjusted to account for seasonal and daily pressure fluctuations based on information from the water supply authority and as approved by the fire code official.

Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every water-based fire protection system shall be designed with a 5psi safety factor. Reference Section 507.4 for additional design requirements.

Section 903.3.7 amended to read as follows:

903.3.7 Fire department connections. Fire department connections for automatic sprinkler systems shall be installed in accordance with Section 912. Locking Knox Box caps will be installed on all new systems and existing systems when caps are missing or damaged.

Section 903.3.9 added to read as follows:

903.3.9 Sprinkler riser room access. Sprinkler system riser rooms providing protection for buildings must be located in a ground floor directly accessible from the exterior. The door must be labeled as the riser room, fire alarm control panel, and address when applicable. No items can be stored in this area that are not related to the fire protection system.

Section 903.4.2 amended to read as follows:

903.4.2 Alarms. An approved audible device, located on the exterior of the building in an approved location, shall be connected to each automatic sprinkler system. Such sprinkler waterflow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm system.

The alarm device required on the exterior of the building shall be a weatherproof horn/strobe notification appliance with a minimum 75 candela strobe rating, installed as close as practicable to the fire department connection.

Section 903.4.3 amended to read as follows:

903.4.3 Floor control valves. Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor.

Section 903.4.4 added to read as follows:

903.4.4 Control valves for multi-tenant buildings. Approved supervised indicating control valves shall be provided for each suite connection in a multi-tenant building.

Section 905.3 amended to read as follows:

905.3 Required installations. Standpipe systems shall be installed where required by Sections 905.3.1 through 905.3.9. Standpipe systems are allowed to be combined with automatic sprinkler systems.

Exception:

1. Standpipe systems are not required in Group R-3 occupancies.

Section 905.3.9 added to read as follows:

905.3.9 Buildings exceeding 10,000 sq. ft. In buildings exceeding 10,000 square feet in area per story and having any portion of the building's interior area more than 200 feet (60960 mm) of travel, vertically or horizontally, from the nearest point of fire department vehicle access, Class I standpipes shall be provided.

Section 907.1.4 added to read as follows:

907.1.4 Design standards. Where a new fire alarm system is installed, the devices shall be addressable. Fire alarm systems utilizing more than 20 smoke detectors shall have analog initiating

devices. Riser rooms shall be equipped with an annunciator panel if the main fire alarm panel is not located in the riser room. An Annunciator panel shall be provided at the main entrance to all single occupant buildings.

Section 907.6.1.1 added to read as follows:

907.6.11 Wiring installation. All fire alarm systems shall be installed in such a manner that a failure of any single initiating device or single open in an initiating circuit conductor will not interfere with the normal operation of other such devices. All signaling line circuits (SLC) shall be installed in such a way that a single open will not interfere with the operation of any addressable devices (Class A). Outgoing and return SLC conductors shall be installed in accordance with NFPA 72 requirements for Class A circuits and shall have a minimum of four feet separation horizontal and one foot vertical between supply and return circuit conductors. The initiating device circuit (IDC) from a signaling line circuit interface device may be wired Class B, provided the distance from the interface device to the initiating device is ten feet or less.

Section 907.6.3 amended to read as follows:

907.6.3 Initiating device identification. The fire alarm system shall identify the specific initiating device address, location, device type, floor level where applicable and status including indication of normal, alarm, trouble and supervisory status, as appropriate.

Exceptions: *(Deleted)*

Section 912.2.1.1 added to read as follows:

912.2.1.1 Hydrant distance. An approved fire hydrant shall be located within 100 feet of the fire department connection as the fire hose lays along an unobstructed path.

Section 912.2.1.2 added to read as follows:

912.2.1.2 Fire apparatus access roadway distance. An approved fire apparatus access roadway shall be located within 50 feet of the fire department connection as the fire hose lays along an unobstructed path.

Section 1032.2 added to read as follows:

1032.2 Reliability. Required exit accesses, exits and exit discharges shall be continuously maintained free from obstructions or impediments to full instant use in the case of fire or other emergency. An exit or exit passageway shall not be used for any purpose that interferes with a means of egress.

Section 1103.7.7 added to read as follows:

1103.7.7 Fire alarm system design standards. Where an existing fire alarm system is upgraded or replaced, the devices shall be addressable. Fire alarm systems utilizing more than 20 smoke and/or heat detectors shall have analog initiating devices.

Exceptions:

1. Existing systems need not comply unless the total building, or fire alarm system, remodel or expansion exceeds 30% of the building.
2. When cumulative building, or fire alarm system, remodel or expansion initiated after the date of original fire alarm panel installation exceeds 50% of the building, or fire alarm system, the fire alarm system must comply within 18 months of permit application.

Section 5601.1.3 amended to read as follows:

5601.1.3 Fireworks. The possession, manufacture, storage, sale, handling and use of fireworks are prohibited.

Exceptions: *(Deleted)*

Section 5703.5 amended to read as follows:

5703.5 Piping systems. Piping systems and their component parts, for flammable and combustible liquids shall be accordance with Sections 5703.6.1 through 5703.6.11. An approved method of secondary containment shall be provided for underground tank and piping systems.

Appendix B

Appendix B Fire-Flow Requirements for Buildings

Table B105.2 amend footnote a. to read as follows:

a. The reduced fire-flow shall be not less than 1,500 gallons per minute.

Appendix C

Section C 103.2 amended to read as follows:

C103.2 Minimum number of hydrants. There shall be a minimum of two fire hydrants serving each property. At least two fire hydrants shall be situated within 400 feet of the structure being protected. A fire hydrant shall be placed every 300 feet along the fire lane.

Section C 104.2 added to read as follows:

C104.2 Hydrant Spacing. As properties develop, fire hydrants shall be located at all intersecting streets and the maximum spacing shall be every 300 feet for all developments, and facilities other than R-3. R-3 developments shall be every 500 feet. Distances between hydrants shall be measured along the route that a fire hose is laid by a fire vehicle from hydrant to hydrant.

Appendix D

Section D 102.1 amended to read as follows:

D102.1 Access and loading. Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an approved fire apparatus access road with an asphalt, concrete or other approved driving surface capable of supporting the imposed load of fire apparatus weighing up to 85,000 pounds.

Section D 103.2 amended to read as follows:

D103.2 Grade. Fire apparatus access roads shall not exceed 10 percent in grade and 5 percent in cross slope.

Exception:

1. Grades steeper than 10 percent as approved by the fire code official.

Section D 103.3 amended to read as follows:

D103.3 Turning radius. The minimum turning radius shall be determined by the fire code official in accordance with the following:

1. 20-feet (inside) for turns less than or equal to 90 degrees.
2. 25-feet (inside) for turns greater than 90 degrees.

Section D 103.4 amended to read as follows:

D103.4 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) shall be provided with width and turnaround provisions in accordance with Table D103.4.

TABLE D103.4
REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0–150	24	None required
151–500	24	120-foot Hammerhead, 60-foot “Y” or 96-foot diameter cul-de-sac in accordance with Figure D103.1
501–750	26	120-foot Hammerhead, 60-foot “Y” or 96-foot diameter cul-de-sac in accordance with Figure D103.1
Over 750	Special approval required	

For SI: 1 foot = 304.8 mm.

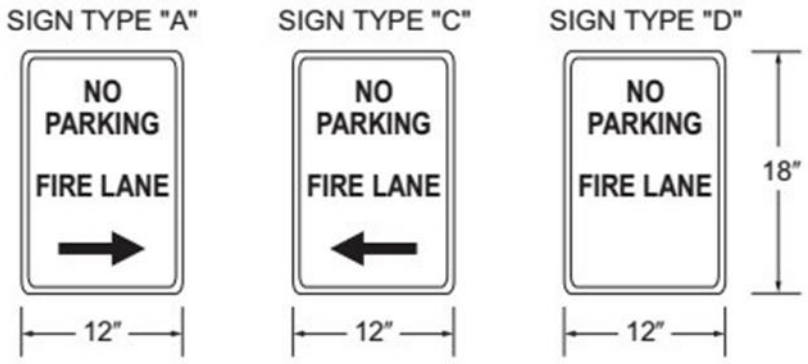
Section D 103.6 amended to read as follows:

D103.6 Marking. Striping, signs, or other markings, when approved by the *fire code official*, shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. Striping, signs and other markings shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.

1. Striping: Fire apparatus access roads shall be continuously marked by painted lines of red traffic paint six inches (6”) in width to show the boundaries of the lane. The words “NO PARKING FIRE LANE” or "FIRE LANE NO PARKING” shall appear in four inch (4”) white letters at 25 feet intervals on the red border markings along both sides of the fire lanes. Where a curb is available, the striping shall be on the vertical face of the curb.

2. Signs: Shall read “NO PARKING FIRE LANE” or "FIRE LANE NO PARKING” and shall be 12” wide and 18” high (See Figure D103.6). Signs shall have red letters on a white reflective background, using not less than 2” lettering. Signs shall be permanently affixed to a stationary post and the bottom of the sign shall be six feet, six inches (6’6”) above finished grade. Signs shall be spaced not more than fifty feet (50’) apart. Signs may be installed on permanent buildings or walls or as approved by the fire code official.

FIGURE D103.6
FIRE LANE SIGNS



Section D 103.6.1 and 103.6.2 deleted in its entirety:

Section D 104.3 amended to read as follows:

D104.3 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the lot or area to be served, measured in a straight line between accesses, or as approved by the fire code official.

Section D 105.2 amended to read as follows:

D105.2 Width. Aerial fire apparatus access roads shall have a minimum unobstructed width of 24 feet, exclusive of shoulders, in the immediate vicinity of the building or portion thereof.

Section D 105.3 amended to read as follows:

D105.3 Proximity to building. Unless otherwise approved by the fire code official, one or more of the required access routes meeting this condition shall be located not less than 15 feet and not greater than 30 feet from the building and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial fire apparatus access road is positioned shall be approved by the fire code official.

Section D 106.3 amended to read as follows:

D106.3 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses, or as approved by the fire code official.

Section D 107.2 amended to read as follows:

D107.2 Remoteness. Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses, or as approved by the fire code official.

EXHIBIT E
AMENDMENTS
2021 International Fuel Gas Code

Section 102.2 amended to read as follows:

Exception: Existing dwelling units shall comply with Section 621.2.

Secion 102.8; amended to read as follows:

102.8 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 8 and such codes, when specifically adopted, and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the National Electrical Code shall mean the Electrical Code as adopted.

Section 306.5; amended to read as follows:

[M] 306.5 Equipment and Appliances on Roofs or Elevated Structures. Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access, an interior or exterior means of access shall be provided. Exterior ladders providing roof access need not extend closer than 12 feet (2438 mm) to the finish grade or floor level below and shall extend to the equipment and appliances' level service space. Such access shall . . . {bulk of section to read the same} . . . on roofs having a slope greater than four units vertical in 12 units horizontal (33-percent slope). ... {remainder of text unchanged}.

Section 306.5.1; amended to read as follows:

[M] 306.5.1 Sloped roofs. Where appliances, equipment, fans or other components that require service are installed on a roof having a slope of 3 units vertical in 12 units horizontal (25-percent slope) or greater and having an edge more than 30 inches (762 mm) above grade at such edge, a catwalk at least 16 inches in width with substantial cleats spaced not more than 16 inches apart shall be provided from the roof access to a level platform at the appliance. The level platform shall be provided on each side of the appliance to which access is required for service, repair or maintenance. The platform shall be not less than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards shall extend not less than 42 inches (1067 mm) above the platform, shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the loading requirements for guards specified in the International Building Code.

Section 401.5; amended by adding a paragraph to read as follows:

Both ends of each section of medium pressure gas piping shall identify its operating gas pressure with an approved tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag:

"WARNING
1/2 to 5 psi gas pressure
Do Not Remove"

Section 404.12; amended to read as follows:

404.12 Minimum burial depth. Underground piping systems shall be installed a minimum depth of ~~12~~ 18 inches (~~305~~ 458 mm) top of pipe below grade,
404.12.1 Delete in its entirety.

Section 406.4; amended to read as follows:

406.4 Test pressure measurement. Test pressure shall be measured with a monometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure. Spring type gauges do not meet the requirement of a calibrated gauge.

Section 406.4.1; amended to read as follows:

406.4.1 Test pressure. The test pressure to be used shall be no less than 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge, For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 ½"), a set hand, 1/10 pound incrementation and pressure range not to exceed 15 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 50 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Diaphragm gauges used for testing must display a current calibration and be in good working condition. The appropriate test must be applied to the diaphragm gauge used for testing.

Section 409.1; amended by adding a Section 409.1.4 to read as follows:

409.1.4 Valves in CSST installations. Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the valves, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the valve. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's piping, fittings, and valves between anchors. All valves and supports shall be designed and installed so they will not be disengaged by movement of the supporting piping.

Section 410.1; amended by adding paragraph and exception to read as follows:

Access to regulators shall comply with the requirements for access to appliances as specified in Section 306.

> Exception: A passageway or level service space is not required when the regulator is capable of being serviced and removed through the required attic opening.

Section 621.2; amending by adding an exception as follows:

621.2 Prohibited use. One or more unvented room heaters shall not be used as the sole source of comfort heating in a dwelling unit.

Exception: Existing approved unvented heaters may continue to be used in dwelling units, in accordance with the code provisions in effect when installed, when approved by the Code Official unless an unsafe condition is determined to exist as described in Section 108.7.

EXHIBIT F
AMENDMENTS
2021 International Residential Code

In 2009, **the State Legislature enacted SB 1410 prohibiting cities from enacting fire sprinkler mandates in residential dwellings.** However, jurisdictions with ordinances that required sprinklers for residential dwellings prior to and enforced before January 1, 2009, may remain in place. Reference; Section R313 Automatic Fire Sprinkler Systems.

The energy provisions in IRC Chapter 11 is deleted in its entirety.
Reference the 2021 IECC for energy code provisions and recommended amendments.
*****Section R102.4; change to read as follows:***

R102.4 Referenced codes and standards. The *codes*, when specifically adopted, and standards referenced in this *code* shall be considered part of the requirements of this *code* to the prescribed extent of each such reference and as further regulated in Sections R102.4.1 and R102.4.2. Whenever amendments have been adopted to the referenced *codes* and standards, each reference to said *code* and standard shall be considered to reference the amendments as well. Any reference made to NFPA 70 or the *Electrical Code* shall mean the *Electrical Code* as adopted.

Section R103 and R103.1 amend to insert the Department Name
The City of Heath Building Department

R103.1 Creation of enforcement agency. **The City of Heath Building Department** is hereby created and the the official in charge thereof shall be known as The B*uilding Official*.

Section R104.10.1 Flood Hazard areas; delete this section.

Section R105.3.1.1& R106.1.4; delete these sections.

Section R110 (R110.1 through R110.5); delete the section.

Section R202; change definition of "Townhouse Unit" to read as follows:

TOWNHOUSE UNIT. A single-family dwelling unit separated by property lines in a townhouse that extends from foundation to roof and that has a yard or public way on not less than two sides.

******Table R301.2 (1); fill in as follows:***

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY[f]	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP[e]	ICE BARRIER UNDER-LAYMENT[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
	SPEED[d] (MPH)	Topographic Effects[k]	Special Wind Region[L]	Windborne Debris Zone[m]		Weathering[a]	Frost Line Depth[b]	Termite[c]					
5 lb/ft	115 (3 sec-gust)/ 76 fastest mile	No	No	No	A	Moderate	6"	Very Heavy	22^0 F	No	Local Code	150	64.9^0 F

Delete remainder of table Manual J Design Criteria and footnote N

****Section R302.1; add exception #6 to read as follows:***

Exceptions: *{previous exceptions unchanged}*

6. Open non-combustible carport structures may be constructed when also approved within adopted ordinances.

Section R302.3; add Exception #3 to read as follows:

Exceptions:

1. *{existing text unchanged}*
2. *{existing text unchanged}*
3. Two-family dwelling units that are also divided by a property line through the structure shall be separated as required for townhouses.

Section R302.2.6; delete exception #6:

Exceptions: {previous exceptions unchanged}

Section R302.5.1; change to read as follows:

R302.5.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

*****Section R303.3, Exception; amend to read as follows:***

Exception: {existing text unchanged**}** Spaces containing only a water closet or water closet and a lavatory may be ventilated with an approved mechanical recirculating fan or similar device designed to remove odors from the air.

R307.3 Blocking. Required at one toilet at grade level. Blocking per Sec. R307.4 and Figure 307.4, shall be installed at rear wall and one wall adjacent to toilet at the lowest living level where a toilet is provided.

R307.4 Blocking. Blocking may be ½" plywood or equivalent or 2 x solid wood blocking flush with wall.

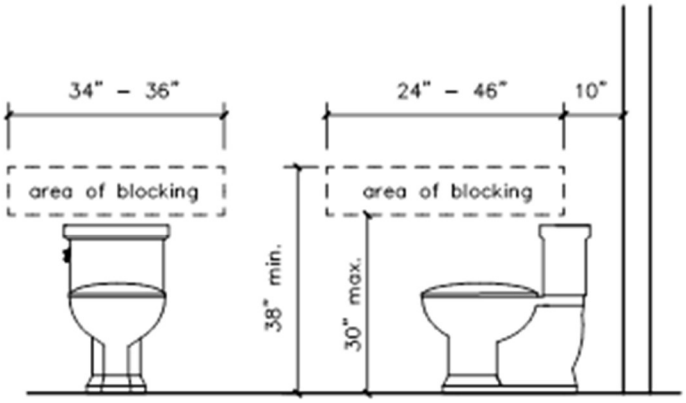


Figure 307.4

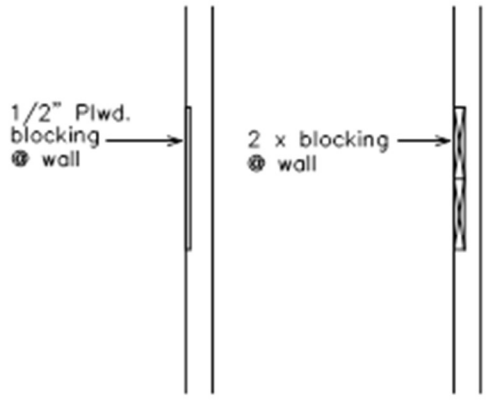


Figure 307.4

Section R315.2.2 Alterations, repairs and additions; amend to read as follows:

Exception:
1. [existing text remains]
2. Installation, alteration or repairs of all electrically powered mechanical systems or plumbing appliances.

Section R322 Flood Resistant Construction; deleted section.

Section 327.1.1; add to read as follows:

Section 327.1.1 Adjacency to Structural Foundation. Depth of the swimming pool and spa shall maintain a ratio of 1:1 from the nearest building foundation or footing of a retaining wall.

Exception:
A sealed engineered design drawing of the proposed new structure shall be submitted for approval.

Section R401.2; amended by adding a new paragraph following the existing paragraph to read as follows.

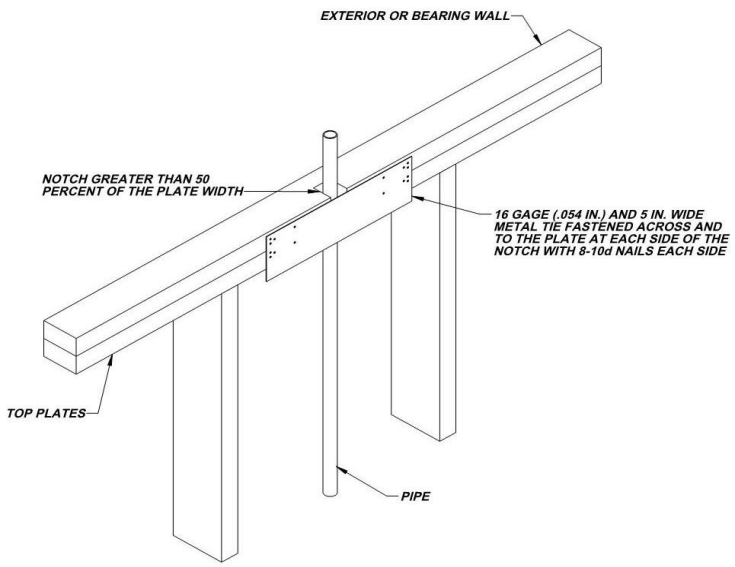
Section R401.2. Requirements. *{existing text unchanged} …*

Every foundation and/or footing, or any size addition to an existing post-tension foundation, regulated by this code shall be designed and sealed by a Texas-registered engineer.

Section R602.6.1; amend the following:

R602.6.1 Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50 percent of its width, a galvanized metal tie not less than 0.054 inch thick (1.37 mm) (16 Ga) and 5 inches (127 mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d (0.148 inch diameter) having a minimum length of 1 ½ inches (38 mm) at each side or equivalent. Fasteners will be offset to prevent splitting of the top plate material. The metal tie must extend a minimum of 6 inches past the opening. See figure R602.6.1. {remainder unchanged}

Figure R602.6.1; delete the figure and insert the following figure:



Add section R703.8.4.1.2 Veneer Ties for Wall Studs; to read as follows:

R703.8.4.1.2 Veneer Ties for Wall Studs. In stud framed exterior walls, all ties may be anchored to studs as follows:

1. When studs are 16 in (407 mm) o.c., stud ties shall be spaced no further apart than 24 in (737 mm) vertically starting approximately 12 in (381 mm) from the foundation; or

2. When studs are 24 in (610 mm) o.c., stud ties shall be spaced no further apart than 16 in (483 mm) vertically starting approximately 8 in (254 mm) from the foundation.

Section R902.1; amend and add exception #5 to read as follows:

R902.1 Roofing covering materials. Roofs shall be covered with materials as set forth in Sections R904 and R905. Class A, B, or C roofing shall be installed*{remainder unchanged}*

Exceptions:

1. *{text unchanged}*
2. *{text unchanged}*
3. *{text unchanged}*
4. *{text unchanged}*
5. Non-classified roof coverings shall be permitted on one-story detached *accessory structures* used as tool and storage sheds, playhouses, and similar uses, provided the floor area does not exceed (area defined by jurisdiction).

Chapter 11 [RE] – Energy Efficiency is deleted in its entirety; Reference the 2021 IECC for energy code provisions and recommended amendments.

Section M1305.1.2; change to read as follows:

M1305.1.2 Appliances in attics. Attics containing appliances shall be provided . . . {bulk of paragraph unchanged} . . . side of the appliance. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), and large enough to allow removal of the largest appliance. As a minimum, for access to the attic space, provide one of the following:

1. A permanent stair.
2. A pull down stair with a minimum 300 lb (136 kg) capacity.
3. An *access* door from an upper floor level.

Exceptions**:** [remaining text unchanged]

Section M1411.3; change to read as follows:

M1411.3 Condensate disposal. Condensate from all cooling coils or evaporators shall be conveyed from the drain pan outlet to ~~an *approved* place of disposal~~ a sanitary sewer through a trap, by means of a direct or indirect drain. *{remaining text unchanged}*

Section M1411.3.1, Items 3 and 4; add text to read as follows:

M1411.3.1 Auxiliary and secondary drain systems. *{bulk of paragraph unchanged}*

1. *{text unchanged}*
2. *{text unchanged}*
3. An auxiliary drain pan… *{bulk of text unchanged}…* with Item 1 of this section. A water level detection device may be installed only with prior approval of the *building official*.
4. A water level detection device… *{bulk of text unchanged}…* overflow rim of such pan. A water level detection device may be installed only with prior approval of the *building official*.

Section M1411.3.1.1; add text to read as follows:

M1411.3.1.1 Water-level monitoring devices. On down-flow units …*{bulk of text unchanged}*… installed in the drain line. A water level detection device may be installed only with prior approval of the *building official.*

M1503.6 Makeup Air Required; amend and add exception as follows:

M1503.6 Makeup air required. Where one or more gas, liquid or solid fuel-burning appliance that is neither direct-vent nor uses a mechanical draft venting system is located within a dwelling unit's air barrier, each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m^3/s) shall be mechanically or passively provided with makeup air at a rate approximate~~ly equal~~ to the difference between exhaust air rate and 400 cubic feet per minute. Such makeup air systems shall be equipped with not fewer than one damper complying with Section M1503.6.2.

Exception*:* Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open**.** Where all appliances

in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m3/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m3/s) shall be provided with a makeup air at a rate approximately to the difference between the exhaust air rate and 600 cubic feet per minute.

Section M2005.2; change to read as follows:

M2005.2 Prohibited locations. Fuel-fired water heaters shall not be installed in a room used as a storage closet. Water heaters located in a bedroom or bathroom shall be installed in a sealed enclosure so that *combustion air* will not be taken from the living space. Access to such enclosure may be from the bedroom or bathroom when through a solid door, weather-stripped in accordance with the exterior door air leakage requirements of the *International Energy Conservation Code* and equipped with an *approved* self-closing device. Installation of direct-vent water heaters within an enclosure is not required.

Section G2408.3 (305.5)Private Garages; delete this section in its entirety.
****Section G2415.2 (404.2) CSST; add a second paragraph to read as follows:***

Both ends of each section of medium pressure gas piping shall identify its operating gas pressure with an *approved* tag. The tags are to be composed of aluminum or stainless steel and the following wording shall be stamped into the tag:

"WARNING: 1/2 to 5 psi gas pressure - Do Not Remove"

Section G2415.12 (404.12) and G2415.12.1 (404.12.1); change to read as follows:

G2415.12 (404.12) Minimum burial depth. Underground *piping systems* shall be installed a minimum depth of 18 inches (457 mm) below grade

G2415.12.1 (404.12.1) Individual Outdoor Appliances; Delete in its entirety

Section G2417.1 (406.1); change to read as follows:

G2417.1 (406.1) General. Prior to acceptance and initial operation, all *piping* installations shall be inspected and *pressure tested* to determine that the materials, design, fabrication, and installation practices comply with the requirements of this *code*. The *permit* holder shall make the applicable tests prescribed in Sections 2417.1.1 through 2417.1.5 to determine compliance with the provisions of this *code*. The *permit* holder shall give reasonable advance notice to the *building official* when the *piping system* is ready for testing. The e*quipment*, material, power and labor necessary for the inspections and test shall be furnished by the *permit* holder and the *permit* holder shall be responsible for determining that the work will withstand the test pressure prescribed in the following tests.

Section G2417.4; change to read as follows:

G2417.4 (406.4) Test pressure measurement. Test pressure shall be measured with a monometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the pressure tests are made. ~~Mechanical gauges used to measure test pressures shall have a range such that the highest end of the scale is not greater than five times the test pressure.~~

Section G2417.4.1; change to read as follows:

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall be no less than 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge,~~.~~ For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 ½"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than

200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Diaphragm gauges used for testing must display a current calibration and be in good working condition. The appropriate test must be applied to the diaphragm gauge used for testing.

Section G2417.4.2; change to read as follows:

G2417.4.2 (406.4.2) Test duration. The test duration shall be held for a length of time satisfactory to the *Building Official*, but in no case for ~~be not~~ less than ~~10~~ fifteen (15) minutes. For welded *piping*, and for *piping* carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the *Building Official*, but in no case for less than thirty (30) minutes.

Section G2420.1 (406.1); add Section G2420.1.4 to read as follows:

G2420.1.4 Valves in CSST installations. Shutoff *valves* installed with corrugated stainless steel (CSST) *piping systems* shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the *valves*, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the *valve*. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's *piping*, fittings, and *valves* between anchors. All *valves* and supports shall be designed and installed so they will not be disengaged by movement of the supporting *piping*.

Section G2420.5.1 (409.5.1); add text to read as follows:

G2420.5.1 (409.5.1) Located within the same room. The shutoff valve…*{bulk of paragraph unchanged}…* in accordance with the appliance manufacturer's instructions. A secondary shutoff valve must be installed within 3 feet (914 mm) of the firebox if appliance shutoff is located in the firebox.

Section G2421.1 (410.1); add text and Exception to read as follows:

G2421.1 (410.1) Pressure regulators. A line *pressure regulator* shall be *… {bulk of paragraph unchanged}… approved* for outdoor installation. Access to *regulators* shall comply with the requirements for access to *appliances* as specified in Section M1305.

> **Exception:** A passageway or level service space is not required when the *regulator* is capable of being serviced and removed through the required *attic* opening.

Section G2422.1.2.3 (411.1.3.3) Prohibited locations and penetrations; delete Exception 1 and Exception 4.

Section G2445.2 (621.2); add Exception to read as follows:

G2445.2 (621.2) Prohibited use. One or more *unvented room heaters* shall not be used as the sole source of comfort heating in a *dwelling unit*.

> **Exception:** Existing *approved unvented room heaters* may continue to be used in *dwelling units*, in accordance with the *code* provisions in effect when installed, when *approved* by the *Building Official* unless an unsafe condition is determined to exist as described in *International Fuel Gas Code* Section 108.7 of the Fuel Gas Code.

Section G2448.1.1 (624.1.1); change to read as follows:

G2448.1.1 (624.1.1) Installation requirements. The requirements for *water heaters* relative to access, sizing, *relief valves*, drain pans and scald protection shall be in accordance with this *code.*

Section P2603; add to read as follows:

P2603.3 Protection against corrosion. Metallic piping, except for cast iron, ductile iron and galvanized steel, shall not be placed in direct contact with steel framing members, concrete or cinder walls and floors or other masonry. Metallic piping shall not be placed in direct contact with corrosive soil. Where sheathing is used to prevent direct contact, the sheathing shall have a thickness of not less than 0.008 inch (8 mil) (0.203 mm) and the sheathing shall be made of approved material. Where sheathing protects piping that penetrates concrete or masonry walls or floors, the sheathing shall be installed in a manner that allows movement of the piping within the sheathing.

Section P2603.5.1 Sewer Depth; change to read as follows:

P2603.5.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of [number] inches (mm) below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 12 inches (304 mm) below grade.

Section P2604; add to read as follows:

P2604.2.1 Plastic sewer and DWV piping installation. Plastic sewer and DWV piping installed underground shall be installed in accordance with the manufacturer's installation instructions. Trench width shall be controlled to not exceed the outside the pipe diameter plus 16 inches or in a trench which has a controlled width equal to the nominal diameter of the piping multiplied by 1.25 plus 12 inches. The piping shall be bedded in 4 inches of granular fill and then backfilled compacting the side fill in 6-inch layers on each side of the piping. The compaction shall be to minimum of 85 percent standard proctor density and extend to a minimum of 6 inches above the top of the pipe.

Section P2801; change to read as follows:

P2801.6 Required pan.
Where a storage tank-type water heater or a hot water storage tank is installed in a location where water leakage from the tank will cause damage, the tank shall be installed in a pan constructed of one of the following:

1. Galvanized steel or aluminum of not less than 0.0236 inch (0.6010 mm) in thickness.
2. Plastic not less than 0.036 inch (0.9 mm) in thickness.
3. Other *approved* materials.

Section P2801.6.1; change to read as follows:

Section P2801.6.1 Pan size and drain. The pan shall be not less than 11/2 inches (38 mm) in depth and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a diameter of not less than 3/4 inch (19 mm). Piping for safety pan drains shall be of those materials listed in Table P2906.5.
Multiple pan drains may terminate to a single discharge piping system when *approved* by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions.
{*existing text unchanged}*

Section P2804.6.1; change to read as follows:

Section P2804.6.1 Requirements for discharge piping. The discharge piping serving a pressure relief valve, temperature relief valve or combination thereof shall:

1. Not be directly connected to the drainage system.
2. Discharge through an air gap
3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air gap.
4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.

Exception: Multiple relief devices may be installed to a single T & P discharge piping system when approved by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions.

5. Discharge to an approved location or to the outdoors.

[remainder unchanged]

Section P2902.5.3; change to read as follows:

P2902.5.3 Lawn irrigation systems. The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker, a double-check assembly or a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

Section P3003.9; change to read as follows:

P3003.9.2 Solvent cementing. Joint surfaces shall be clean and free from moisture. A purple primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564, CSA B137.3, CSA B181.2 or CSA B182.1 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent cement joints shall be permitted above or below ground.

Section P3111Combination waste and vent systems; delete this section in its entirety.

Section P3112.2 Vent Connection; delete and replace with the following:

P3112.2 Installation. Traps for island sinks and similar equipment shall be roughed in above the floor and may be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye-branch immediately below the floor and extending to the nearest partition and then through the roof to the open air or may be connected to other vents at a point not less than six (6) inches (152 mm) above the flood level rim of the fixtures served. Drainage fittings shall be used on all parts of the vent below the floor level and a minimum slope of one-quarter (1/4) inch per foot (20.9 mm/m) back to the drain shall be maintained. The return bend used under the drain-board shall be a one (1) piece fitting or an assembly of a forty-five (45) degree (0.79 radius), a ninety (90) degree (1.6 radius) and a forty-five (45) degree (0.79 radius) elbow in the order named. Pipe sizing shall be as elsewhere required in this Code. The island sink drain, upstream of the return vent, shall serve no other fixtures. An accessible cleanout shall be installed in the vertical portion of the foot vent.

END

EXHIBIT G
AMENDMENTS
2021 International Mechanical Code

Section 102.8 is amended to read as follows:

102.8 Referenced Codes and Standards.
The codes and standards referenced herein shall be those that are listed in Chapter 15 and such codes, when specifically adopted, and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the adopted amendments. Any reference to NFPA 70 shall mean the National Electrical Code as adopted.

Section 306.5 is amended to read as follows:

306.5 Equipment and Appliances on Roofs or Elevated Structures.
Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access, an interior or exterior means of access shall be provided. Exterior ladders providing roof access need not extend closer than 12 feet (2438 mm) to the finish grade or floor level below and shall extend to the equipment and appliances' level service space. Such access shall . . . {bulk of section to read the same} . . . on roofs having a slope greater than four units vertical in 12 units horizontal (33-percent slope). ... {remainder of text unchanged}.

Section 306.5.1; change to read as follows:

306.5.1 Sloped Roofs. Where appliances, equipment, fans or other components that require service are installed on a roof having a slope of three units vertical in 12 units horizontal (25-percent slope) or greater and having an edge more than 30 inches (762 mm) above grade at such edge, a catwalk at least 16 inches in width with substantial cleats spaced not more than 16 inches apart shall be provided from the roof access to a level platform at the appliance. The level platform shall be provided on each side of the appliance to which access is required for service, repair or maintenance. The platform shall be not less than 30 inches (762 mm) in any dimension and shall be provided with guards. The guards shall extend not less than 42 inches (1067 mm) above the platform, shall be constructed so as to prevent the passage of a 21-inch-diameter (533 mm) sphere and shall comply with the loading requirements for guards specified in the International Building Code…{remainder of text unchanged}.

Section 501.3; add an exception to read as follows:

501.3 Exhaust Discharge. The air removed by every mechanical exhaust system shall be discharged outdoors at a point where it will not cause a public nuisance and not less than the distances specified in Section 501.3.1. The air shall be discharged to a location from which it cannot again be readily drawn in by a ventilating system. Air shall not be exhausted into an attic, crawl space, or be directed onto walkways.

Exceptions:

1. Whole-house ventilation-type attic fans shall be permitted to discharge into the attic space of dwelling units having private attics.

2. Commercial cooking recirculating systems.

3. Where installed in accordance with the manufacturer's instructions and where mechanical or natural ventilation is otherwise provided in accordance with Chapter 4, listed and labeled domestic ductless range hoods shall not be required to discharge to the outdoors.

4. Toilet room exhaust ducts may terminate in a warehouse or shop area when infiltration of outside air is present.

EXHIBIT H
AMENDMENTS
2021 International Plumbing Code

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Table of Contents, Chapter 7, Section 713is amended to read as follows:

713 Engineered Drainage Design 7-12

Section 102.8 amended to read as follows:

102.8 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 15 and such codes, when specifically adopted, and standards shall be considered as part of the requirements of this code to the prescribed extent of each such reference. Where the differences occur between provisions of this code and the referenced standards, the provisions of this code shall be the minimum requirements. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the adopted amendments. Any reference to NFPA 70 shall mean the National Electrical Code as adopted.

Section 305 amended to read as follows:

305.1 Protection against contact. Metallic piping, except for cast iron, ductile iron and galvanized steel, shall not be placed in direct contact with steel framing members, concrete or cinder walls and floors or other masonry. Metallic piping shall not be placed in direct contact with corrosive soil. Where sheathing is used to prevent direct contact, the sheathing shall have a thickness of not less than 0.008 inch (8 mil) (0.203 mm) and the sheathing shall be made of approved material. Where sheathing protects piping that penetrates concrete or masonry walls or floors, the sheathing shall be installed in a manner that allows movement of the piping within the sheathing.

Section 305.4.1 amended to read as follows:

305.4.1 Sewer depth Building sewers shall be a minimum of 12 inches (304 mm) below grade.

Section 306.2.4 amended to read as follows:

306.2.4 Plastic sewer and DWV piping installation. Plastic sewer and DWV piping installed underground shall be installed in accordance with the manufacturer's installation instructions. Trench width shall be controlled to not exceed the outside the pipe diameter plus 16 inches or in a trench which has a controlled width equal to the nominal diameter of the diameter of the piping multiplied by 1.25 plus 12 inches. The piping shall be bedded in 4 inches of granular fill and then backfilled compacting the side fill in 6-inch layers on each side of the piping. The compaction shall be to minimum of 85 percent standard proctor density and extend to a minimum of 6 inches above the top of the pipe.

Section 413.4; amended to read as follows:

413.4 Required location for floor drains Floor drains shall be installed in the following areas:

1. In public laundries and in the central washing facilities of multiple family dwellings, the rooms containing automatic clothes washers shall be provided with floor drains located to readily drain the entire floor area. Such drains shall have a minimum outlet of not less than 3 inches (76 mm) in diameter.

2. Commercial kitchens. In lieu of floor drains in commercial kitchens, the Code Official may accept floor sinks.

3. Public restrooms.

Section 608.17.5; amended to read as follows:

608.17.5 Connections to lawn irrigation systems.
The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum breaker, a pressure-type vacuum breaker, a double-check assembly or a reduced pressure principal backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principal backflow preventer.

Section 703.6; Delete

Section 704.5; amended by adding a section to read as follows:

704.5 Single stack fittings. Single stack fittings with internal baffle, PVC schedule 40 or cast-iron single stack shall be designed by a registered engineer and comply to a national recognized standard.

Section 712.4.3; amended by adding a section to read as follows:

712.4.3 Dual Pump System. All sumps shall be automatically discharged and, when in any "public use" occupancy where the sump serves more than 10 fixture units, shall be provided with dual pumps or ejectors arranged to function independently in case of overload or mechanical failure. For storm drainage sumps and pumping systems, see Section 1113.

Section 713 amended to read as follows:

SECTION 713
ENGINEERED DRAINAGE DESIGN

Section 713.1 amended to read as follows:

713.1 Design of drainage system. The sizing, design and layout of the drainage system shall be designed by a registered engineer using approved design methods.

Section 903.1.1; amended to read as follows:

903.1.1 Roof extension unprotected. Open vent pipes that extend through a roof shall terminate not less than six (6) inches (152 mm) above the roof.

Section 1109; delete this section.

Section 1202.1; delete Exceptions 1 and 2.

EXHIBIT I
AMENDMENTS
2021 International Property Maintenance Code

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EXHIBIT J
AMENDMENTS

Amendments to the 2021 International Swimming Pool and Spa Code

Section 102.9 amended to read as follows:

Section 102.9 Other laws. The provisions of this code shall not be deemed to nullify any provisions of local, state or federal law, to include but not limited to:

1. Texas Department of State Health Services (TDSHS); Standards for Public Pools and Spas; §285.181 through §285.208, (TDSHS rules do not apply to pools serving one- and two-family dwellings or townhouses).
2. Texas Department of Licensing and Regulation (TDLR); 2012 Texas Accessibility Standards (TAS), TAS provide the scoping and technical requirements for accessibility for Swimming Pool, wading pools and spas and shall comply with 2012 TAS, Section 242. (TAS rules do not apply to pools serving one- and two-family dwellings or townhouses).

Exception: Elements regulated under Texas Department of Licensing and Regulation (TDLR) and built in accordance with TDLR approved plans, including any variances or waivers granted by the TDLR, shall be deemed to be in compliance with the requirements of this Chapter.

Section 113.4 Violation penalties is amended to read as follows:

113.4 Violation penalties. Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair a pool or spa in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code may be punishable for each day of the violation set forth by the authority having jurisdiction.

Section 305 amended to read as follows:

305.1 **General**.
The provisions of this section shall apply to the design of barriers for restricting entry into areas having pools and spas. In only one-and two-family dwellings and townhouses,-where spas or hot tubs are equipped with a lockable safety cover complying with ASTM F1346 and swimming pools are equipped with a powered safety cover that complies with ASTM F1346, the areas where those spas, hot tubs or pools are located shall not be required to comply with Sections 305.2 through 305.7.

Add subsection 305.2.7.1 amended to read as follows:

305.2.7.1 Chain link fencing prohibited. Chain link fencing is not permitted as a barrier in public pools built after January 1, 1994.

Section 305.4 structure wall as a barrier is amended to read as follows:

305.4 Structure wall as a barrier. Where a wall of a dwelling or structure of a one- and two-family dwelling or townhouse or its accessory structure serves as part of a barrier and where doors or windows provide direct access to the pool or spa through that wall, one of the following shall be required:

1. Remainder Unchanged
2. Remainder Unchanged
3. Remainder Unchanged

4. Remainder unchanged
5. Remainder unchanged
6. Remainder unchanged

Section 305.6 amended to read as follows:

305.6 Natural barriers used in a one- and two-family dwelling or townhouse. In the case where the pool or spa area abuts the edge of a lake or other natural body of water, public access is not permitted or allowed along the shoreline, and required barriers extend to and beyond the water's edge a minimum of eighteen (18) inches, a barrier is not required between the natural body of water shoreline and the pool or spa.

Section 307.1.4 Accessibility amended to read as follows:

Add exception to Section to 307.1.4 as follows:

Exception: Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this chapter.

Section 307.2.2.2 is amended to read as follows:

Section 307.2.2.2. Adjacency to Structural Foundation. Depth of the swimming pool and spa shall maintain a ratio of 1:1 from the nearest building foundation or footing of a retaining wall.

Add Exception to 307.2.2.2

A sealed engineered design drawing of the proposed new structure shall be submitted for approval.

Section 310 amended to read as follows:

310.1 General. Suction entrapment avoidance for pools and spas shall be provided in accordance with APSP 7 (ANSI/PHTA/ICC 7) or for public swimming pools in accordance with State of Texas Rules for Public Swimming Pools and Spas, Title 25 TAC Chapter 265 Subchapter L, Rule §265.190.

[Remainder unchanged]

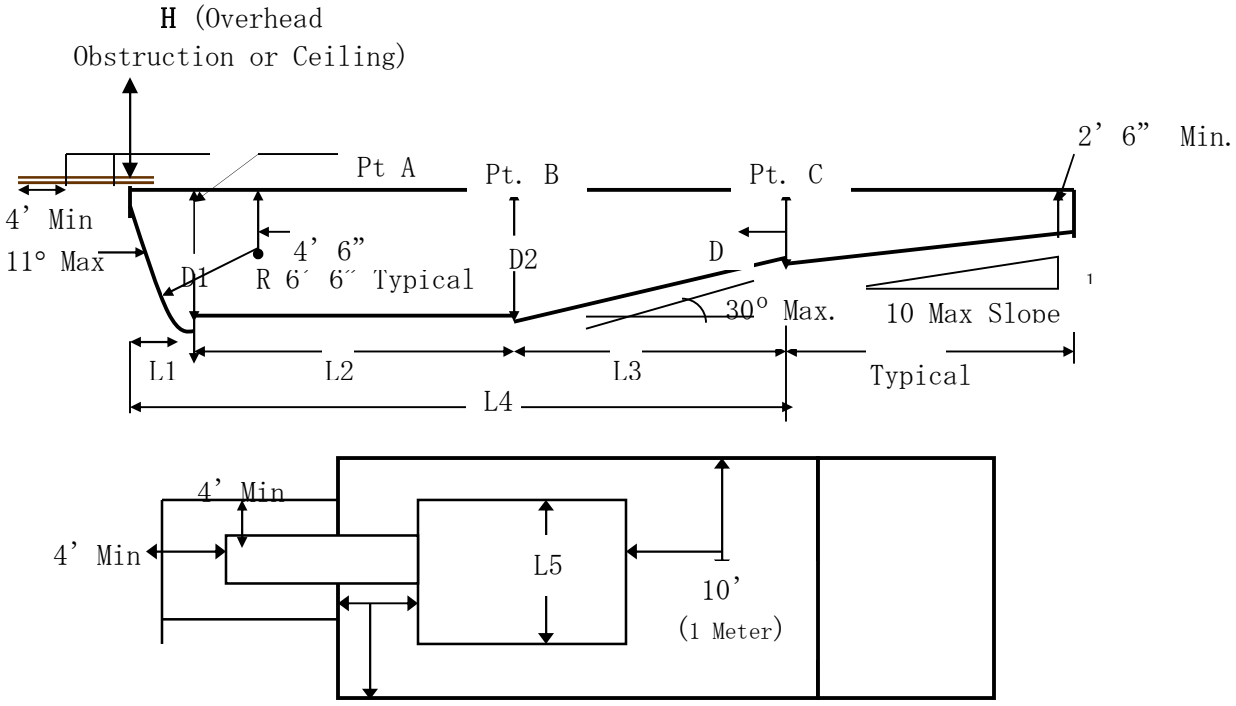
Section 402.12 amended to read as follows:

402.12 Water envelopes. The minimum diving water envelopes shall be in accordance with Texas department of State Health services, Administrative Code Title 25, Chapter 265, Section 186 (e) and Figure: 25 TAC 256.186 (e) (6). (Delete Table 402.12 and Figure 402.12)

ADD: Figure: 25 TAC §265.186 (e) (6)

Maximum Diving Board Height Over Water	¾ Meter	1 Meter	3 Meters
Max. Diving Board Length	12 ft.	16 ft.	16 ft.
Minimum Diving Board Overhang	2 ft. 6 in.	5 ft.	5 ft.
D1 Minimum	8 ft. 6 in.	11 ft. 2 in.	12 ft. 2 in.
D2 Minimum	9 ft.	10 ft. 10 in.	11 ft. 10 in.
D3 Minimum	4 ft.	6 ft.	6 ft.
L1 Minimum	4 ft.	5 ft.	5 ft.
L2 Minimum	12 ft.	16 ft. 5 in.	19 ft. 9 in.

L3 Minimum	14 ft. 10 in.	13 ft. 2 in.	13 ft. 11 in.
L4 Minimum	30 ft. 10 in.	34 ft. 7 in.	38 ft. 8 in.
L5 Minimum	8 ft.	10 ft.	13 ft.
H Minimum	16 ft.	16 ft.	16 ft.
From Plummet to Pool Wall at Side	9 ft.	10 ft.	11 ft. 6 in.
From Plummet to Adjacent Plummet	10 ft.	10 ft.	10 ft.



Section 411.2.1 & 411.2.2 is amended to read as follows:

Section 411.2.1 Tread dimensions and area. Treads shall have a minimum unobstructed horizontal depth (i.e., horizontal run) of 12 inches and a minimum width of 20 inches.

Section 411.2.2 Risers for steps shall have a maximum uniform height of 10 inches, with the bottom riser height allowed to taper to zero.

Section 411.5.1 & 411.5.2 amended to read as follows:

411.5.1 Swimouts. located in either the deep or shallow area of a pool, shall comply with all of the following:

1. Unchanged
2. Unchanged
3. Unchanged
4. The leading edge shall be visibly set apart and provided with a horizontal solid or broken stripe at least 1 inch wide on the top surface along the front leading edge of each step. This stripe shall be plainly visible to persons on the pool deck. The stripe shall be a contrasting color to the background on which it is applied, and the color shall be permanent in nature and shall be a slip-resistant surface.

411.5.2 Underwater seats and benches. Underwater seats and benches, whether used alone or in conjunction with pool stairs, shall comply with all of the following:

1. Unchanged
2. Unchanged
3. Unchanged
4. Unchanged
5. The leading edge shall be visually set apart and provided with a horizontal solid or broken stripe at least 1 inch wide on the top surface along the front leading edge of each step. This stripe shall be plainly visible to persons on the pool deck. The stripe shall be a contrasting color to the background on which it is applied, and the color shall be permanent in nature and shall be a slip-resistant surface.
6. Unchanged
7. Unchanged

Section 610.5.1 iamended to read as follows:

610.5.1 Uniform height of 10 inches. Except for the bottom riser, risers at the centerline shall have a maximum uniform height of 10 inches (254 mm). The bottom riser height shall be permitted to vary from the other risers.

Section 804 Diving Water Envelopes is amended to read as follows:

Section 804.1 General. The minimum diving water envelopes shall be in accordance with Table 804.1 and Figure 804.1, or the manufacturer's specifications, whichever is greater. Negative construction tolerances shall not be applied to the dimensions of the minimum diving water envelopes given in Table 804.1.

Exhibit K
Amendments
International Existing Building Code

102.4 Referenced codes and standards. The codes, when specifically adopted, and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.4.1 and 102.4.2. {No change to rest of section.}

Section 110.2; amended by deleting number 11 as follows:

~~11. Where an automatic sprinkler system is provided, and whether an automatic sprinkler system is required.~~

Section 202; amended the definition of Existing Building as follows:

Existing Building - A building, structure, or space with an approved final inspection issued under a code edition which is at least 2 published code editions preceding the currently adopted building code; a building, structure or space that is undergoing a change of occupancy or use

Section 202; amended the definition of Existing Structure as follows:

Existing Structure- A building, structure, or space, with an approved final inspection issued under a code edition which is at least 2 published code editions preceding the currently adopted building code; a building, structure or space that is undergoing a change of occupancy or use.

Section 306.1; amending the section by adding exceptions to read as follows:

Exceptions:

1. Components of projects regulated by and registered with Architectural Barriers Division of Texas Department of Licensing and Regulation shall be deemed to be in compliance with the requirements of this chapter.
2. If the cost of the project is less than $50K, it must comply with ICC A117.1, or it shall be reviewed and inspected to the Texas Accessibility Standards by a Registered Accessibility Specialist.

Section 306.2; amended by adding an exception to read as follows:

Exception: Projects subject to the Texas Accessibility Standards as adopted by the Texas Department of Licensing and Regulation are exempt from this section. Projects with a valuation of less than $50,000.00 (which are subject to the Texas Accessibility Standards) may be accepted as equivalent to this section where reviewed and inspected to the Texas Accessibility Standards by a Texas Department of Licensing and Regulation Registered Accessibility Specialist when a plan review report and a compliant inspection report are provided to the building code official.

Section 306.5.1; amended to read as follows:

306.5.1 Complete change of occupancy. Where an entire building undergoes a *change of occupancy*, it shall comply with Section 305.4.1 and shall have all of the following accessible features:

1. Not fewer than one accessible building entrance.
2. Not fewer than one accessible route from an accessible building entrance to *primary function* areas.
3. Signage complying with Section 1111 of the *International Building Code*.
4. Accessible parking, where parking is being provided.
5. Not fewer than one accessible passenger loading zone, where loading zones are provided.
6. Not fewer than one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.

7. At least one accessible family or assisted use toilet room shall be provided in accordance with Chapter 11 of the International Building Code.

Where it is *technically infeasible* to comply with the new construction standards for any of these requirements for a change of group or occupancy, Items 1 through 6 shall conform to the requirements to the maximum extent technically feasible.

Exception: The accessible features listed in Items 1 through 6 are not required for an accessible route to Type B units.

Section 401.3 Flood Hazard Areas; delete this section.

Section 405.2.6 Flood Hazard Areas; delete this section.

Section 406.1; amended to add a section as follows:

406.1 Material. Existing electrical wiring and equipment undergoing *repair* shall be allowed to be repaired or replaced with like material, in accordance with the requirements of NFPA 70.

Section 502.3 Flood Hazard Areas; delete this section.

Section 503.2 Flood hazard areas; delete this section.

Section 503.16; amended by adding an exception to read as follows:

Exception: Compliance with the Texas Accessibility Standards is not considered equivalent compliance for the purpose of enforcement of this code section.

Section 504.1.2; amended to read as follows:

504.1.2 Existing fire escapes. Existing fire escapes shall continue to be accepted as a component in the means of egress in existing buildings only. Existing fire escapes shall be permitted to be repaired or replaced.

Section* 504.1.3; *delete this section:

Section 507.3 Flood Hazard Areas; delete this section.

Section 701.3 Flood Hazard Areas; delete this section.

Section 702.4; amended by adding an exception to read as follows:

2. Operable windows with openings that are provided with window fall prevention devices that comply with ASTM F2090.

Section* 702.7*; amending to read as follows:

702.7 Materials and methods. All new work shall comply with the materials and methods requirements in the *International Building Code*, *International Energy Conservation Code*, *International Mechanical Code*, National Electrical Code, and *International Plumbing Code*, as applicable, that specify material standards, detail of installation and connection, joints, penetrations, and continuity of any element, component, or system in the building.

***Section 802.5.1;amended to* read as follows:**

802.5.1 Minimum requirement. Every portion of an open-sided walking surfaces, including *mezzanines*, *equipment platforms*, *aisles*, *stairs*, *ramps,* and landings that is more than 30 inches (762 mm) above the floor or grade below and is not provided with guards, or those in which the existing guards are judged to be in danger of collapsing, shall be provided with guards.

Section 803.1; amended to read as follows:

For the purpose of fire sprinkler protection and fire alarm requirements included in this section, the *work area* shall be extended to include at least the entire tenant space or spaces bounded by walls capable of

resisting the passage of smoke containing the subject *work area*, and if the *work area* includes a corridor, hallway, or other exit access, then such corridor, hallway, or other exit access shall be protected in its entirety on that particular floor level.

Section 803.2.6; amended to read as follows:

Exception: Supervision is not required where the Fire Code does not require such for new construction.

Section 803.3; amended to read as follows:

803.3 Standpipes. Refer to Section 1103.6 of the Fire Code for retroactive standpipe requirements. {Delete rest of Section 803.3.}

Section **804.2; amended by *deleting Exception #1 as follows:***

Exceptions:
~~2.~~ [Remain unchanged]

Section* 804.4.1.2*; amended to read as follows:

804.4.1.2 Fire Escapes required. For other than Group I-2, where more than one exit is required, an existing fire escape complying with section 805.3.1.2.1 shall be accepted as providing one of the required means of egress.

Section* 804.4.1.2.1*; amended to read as follows:

804.4.1.2.1 Fire Escape access and details - …

1. [Remain unchanged]
2. Access to a fire escape shall be through a door...
3. [Remain unchanged] #4 becomes #3
4. In all buildings of Group E occupancy up to and including the 12th grade, buildings of Group I occupancy, boarding houses, and childcare centers, ladders of any type are prohibited on fire escapes used as a required means of egress.

Section 804.6.2 Transoms; amended to read as follows:

804.6.2 Transoms. In all buildings of Group B, E, I-1, I-2, R-1 and R-2 occupancies, ….[Remainder unchanged]

Section 904.1; amended by adding a sentence to read as follows:

For the purpose of fire sprinkler protection and fire alarm requirements included in this section, the *work area* shall be extended to include at least the entire tenant space or spaces bounded by walls containing the subject *work area*, and if the *work area* includes a corridor, hallway, or other exit access, then such corridor, hallway, or other exit access shall be protected in its entirety on that particular floor level.

Section 904.1.1; amended to read as follows:

904.1.1 High-rise buildings. An automatic sprinkler system shall be provided in work areas of high-rise buildings.

Section 1011.2.1: amended to read as follows:

1011.2.1 Fire sprinkler system. Where a change in occupancy classification occurs or where there is a *change of occupancy* within a space where there is a different fire protection system threshold requirement in Chapter 9 of the *International Building Code* that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Chapter 9 of the *International Building Code*. The installation of the automatic sprinkler system shall be required within the area of the *change of occupancy* and areas of the building not separated horizontally and vertically from the *change of occupancy* by one of the following:

1. Fire barrier, as required by Section 707 of the IBC.

2. Fire wall, as required by Section 706 of the IBC.

Exceptions: [Remain unchanged.]

Section 1102.2.1; amended by adding new section to read as follows:

1102.2.1 Fire Separations. Where fire separations are utilized to allow additions without exceeding the allowable area provisions of Chapter 5 of the IBC for either the existing building or the new addition, the decreased clear space where the two buildings adjoin shall be accounted for in such calculation relative to the allowable frontage increase.

Section 1103.3 Flood Hazard Areas; delete this section.

Section 1201.4 Flood Hazard Areas; delete this section.

Section 1301.3.2; amended to read as follows:

1301.3.2 Compliance with other codes. Buildings that are evaluated in accordance with this section shall comply with the International Fire Code.

Section 1301.3.3 Compliance with Flood Hazard Provisions; delete this section.

Section 1402.6 Flood Hazard Areas; delete this section.

Section 1509; delete Section 1509.1 through 1509.5 and add Section 1509.1 to read as follows:

1509.1 When required. An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible material arrives on the site. The water supply design and the timing of the water supply installation relative to building construction shall comply with the adopted Fire Code.