RICHARDSON CITY COUNCIL
MONDAY, APRIL 17, 2023
WORK SESSION AT 6:00 PM
RICHARDSON POLICE DEPARTMENT, 200 N. GREENVILLE AVE., RICHARDSON, TX 75081

As authorized by Section 551.071 (2) of the Texas Government Code, this meeting may be convened into closed Executive Session for the purpose of seeking confidential legal advice from the City Attorney on any agenda item listed herein.

Attention: Meeting Attendance/Viewing

City Council meetings are available for viewing via live stream on-line and on-demand at www.cor.net/citv. Cablecast viewing of City Council meetings for U-verse and Spectrum customers is temporarily unavailable due to a fire which damaged Richardson City Hall. Cablecast services will be restored as soon as possible. Videos of past Council meetings are also available to view on-demand at www.cor.net/citv.

Anyone wishing to address the City Council can submit comments on any topic or agenda item electronically by utilizing the Public Comment Card found here: www.cor.net/PublicCommentForm, or in-person during the Visitors section or the Public Hearing item. Comments submitted online must be received by 5 p.m. on the date of the meeting to be included in the public record.

WORK SESSION – 6:00 PM, MULTIPURPOSE ROOM #1103

- **CALL TO ORDER**

A. VISITORS/ACKNOWLEDGEMENT OF PUBLIC COMMENT CARDS
Visitors may address the Council on any topic that is not already scheduled for Public Hearing. Speakers should complete a Public Comment Card and present it to the City Secretary before the meeting. Speakers are limited to 3 minutes. Comments should be directed to the Mayor and City Council. The Texas Open Meetings Act prohibits the City Council from discussing or taking action on items that are not posted on the agenda. The Mayor or City Manager may provide specific factual information, recite an existing policy, or schedule the item for discussion on a future agenda in response to the public comments.

B. REVIEW AND DISCUSS THE COUNSELING PLACE

C. REVIEW AND DISCUSS ADOPTION OF THE 2021 INTERNATIONAL CODES

D. REVIEW AND DISCUSS THE SPRING 2023 COTTONWOOD ART FESTIVAL

E. CONSIDER AWARD OF THE FOLLOWING BIDS:

1. BID #68-23 – WE REQUEST AUTHORIZATION TO ISSUE A PURCHASE ORDER TO INSIGHT PUBLIC SECTOR, INC. FOR THE PURCHASE OF NETWORK REPLACEMENT EQUIPMENT FOR TEMPORARY CITY HALL THROUGH THE STATE OF TEXAS DEPARTMENT OF INFORMATION RESOURCES (“DIR”) CONTRACT #DIR-TSO-4167 IN THE AMOUNT OF $114,170.

2. BID #69-23 – WE RECOMMEND THE AWARD TO GRANITE TELECOMMUNICATIONS, LLC FOR THE PURCHASE OF SESSION INITIATION PROTOCOL (SIP) PROJECT PURSUANT TO OMNIA PARTNERS CONTRACT #R200901 IN THE AMOUNT OF $197,305.56.

3. BID #70-23 – WE RECOMMEND THE AWARD TO SPECTRUM ENTERPRISE FOR THE PURCHASE OF SPECTRUM NETWORK SERVICE PURSUANT TO MICHIGAN COLLEGIATE TELECOMMUNICATIONS ASSOCIATION (“MICTA”) CONTRACT #HQ-MTG-75081-01 IN THE AMOUNT OF $91,800.

F. REPORT ON ITEMS OF COMMUNITY INTEREST

The City Council will have an opportunity to address items of community interest, including: expressions of thanks, congratulations, or condolence; information regarding holiday schedules; an honorary or salutary recognition of a public official, public employee, or other citizen; a reminder about an upcoming event organized or sponsored by the City of Richardson; information regarding a social, ceremonial, or community event organized or sponsored by an entity other than the City of Richardson that was attended or is scheduled to be attended by a member of the City Council or an official or employee of the City of Richardson; and announcements involving an imminent threat to the public health and safety of people in the City of Richardson that has arisen after posting the agenda.

- **ADJOURN**

I CERTIFY THE ABOVE AGENDA WAS POSTED ON THE BULLETIN BOARD AT THE CIVIC CENTER/CITY HALL AND RICHARDSON POLICE DEPARTMENT ON FRIDAY, APRIL 14, 2023, BY 5:00 P.M.

_____
AIMEE NEMER, CITY SECRETARY

ACCOMMODATION REQUESTS FOR PERSONS WITH DISABILITIES SHOULD BE MADE AT LEAST 48 HOURS PRIOR TO THE MEETING BY CONTACTING THE ADA COORDINATOR, VIA PHONE AT (972) 744-4168, VIA EMAIL AT ADACOORDINATOR@COR.GOV, OR BY APPOINTMENT AT 2003 E. RENNER RD., RICHARDSON, TEXAS 75082.

PURSUANT TO SECTION 46.03, PENAL CODE (PLACES WEAPONS PROHIBITED), A PERSON MAY NOT CARRY A FIREARM OR OTHER WEAPON ON THIS PROPERTY. *

FOR THE PURPOSE OF THIS NOTICE “PROPERTY” SHALL MEAN THE RICHARDSON POLICE DEPARTMENT, MULTIPURPOSE ROOM OR ANY OTHER ROOM WHERE A MEETING SUBJECT TO AN OPEN MEETING UNDER GOVERNMENT CODE CHAPTER 551 OF THE RICHARDSON CITY COUNCIL IS HELD.

**This does not apply to licensed carriers.*

RICHARDSON TEXAS

City Council Worksession
Agenda Item Summary

Worksession Meeting Date:	Monday, April 17, 2023
Agenda Item:	Review and Discuss The Counseling Place
Staff Resource:	Don Magner, City Manager
Summary:	Deborah Dobbs, Executive Director of The Counseling Place, will provide a status report on the organization's mission, activity, and future programs and services. Specific topics covered will include a history of the partnership between The Counseling Place and City, current leadership roles and responsibilities, service levels and impacts, and targeted future initiatives.
City Council Strategic Goals:	This agenda helps further the following City Council Strategic Goals: • Enhance the quality of life of our stakeholders • Protect and strengthen stakeholder investments in the City • Manage city finances effectively and efficiently
Board/Commission Action:	N/A
Action Proposed:	N/A

RICHARDSON
TEXAS

City Council Worksession
Agenda Item Summary

Worksession Meeting Date: Monday, April 17, 2023

Agenda Item: Review and Discuss Adoption of the 2021 International Codes

Staff Resource: Brent Tignor, Building Official

Summary: Staff will present background related to the International Code Council as well as an overview of the proposed adoption of the 2021 edition of the I-Codes and the 2020 National Electrical Code, including a summary of the various codes and minor amendments included within.

City Council Strategic Goals: This agenda item helps further the following City Council Strategic Goals:

- Value, protect, and create a positive return on City, resident, and other stakeholder investments in the City

Background Information: The City currently operates under the 2018 I-Codes and the 2017 National Electrical Code. These codes regulate commercial and residential structures including elements pertaining to fire protection, plumbing, mechanical and electrical building elements. New versions of these codes are released every three years to account for issues that arise between code cycles, new construction methods, and to clarify existing regulations. Draft ordinance will be placed on the April 24, 2023 Agenda for Public Hearing and Council consideration.

Financial Implications: N/A

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF RICHARDSON, TEXAS, AMENDING THE CODE OF ORDINANCES OF THE CITY OF RICHARDSON, BY AMENDING CHAPTER 8, ARTICLE II, SECTION 8-27 AND SECTION 8-28 ADOPTING THE 2021 EDITION OF THE INTERNATIONAL FIRE CODE, INCLUDING APPENDICES B,D,H,I, AND N, AND AMENDMENTS THERETO; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED TWO THOUSAND DOLLARS ($2,000.00) FOR EACH OFFENSE; AND PROVIDING FOR AN EFFECTIVE DATE.

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

SECTION 1. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 8, Article II, Sections 8-27 and 8-28, in part, to read as follows:

"Sec. 8-27. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Fire Code, 2021 Edition, together with Appendices B, D, H, I, L, and N and amendments, a copy of which is on file in the City Secretary's Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended."

"Sec. 8-28. - Amendments.

The following sections of the International Fire Code, 2021 Edition, together with Appendices B, D, H, I, L, and N, and amendments, are hereby amended to read as follows:

Section 101.1. of the International Fire Code is amended to read as follows:

[A] 101.1 Title. These regulations shall be known as the Fire Code of the City of Richardson, hereinafter referred to as "this code."

Section 102.1 of the International Fire Code is amended change to read as follows:

[A] 102.1 Construction and design provisions. The construction and design provisions of this code shall apply to:

1. Structures, facilities and conditions arising after the adoption of this code.
2. Existing structures, facilities and conditions not legally in existence at the time of adoption of this code.
3. Existing structures, facilities, and conditions when required in Chapter 11 or in specific sections of this code.

4. Existing structures, facilities and conditions that, in the opinion of the *fire code official*, constitute a distinct hazard to life or property.

Section 102.7 of the International Fire Code is amened to read as follows:

102.7 Referenced codes and standards. The codes and standards referenced in this code shall be the current effective editions of those listed in Chapter 80, including Tentative Interim Amendments (TIAs) and Errata, except that the 2020 edition of NFPA 70 shall apply. These references shall supersede all previous editions and shall be part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.7.1 and 102.7.2.

Section 103.1 of the International Fire Code is amended to read as follows:

[A] 103.1 Creation of agency. The Fire Marshal's Office 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 105.3.3 of the International Fire Code is amended to read as follows:

105.3.3 Occupancy Prohibited before *Approval*. The building or structure shall not be occupied prior to the *fire code official* issuing a permit when required and/or conducting associated inspections indicating the applicable provisions of this code have been met.

Section 105.6 of the International Fire Code is amended to delete 105.6.20.

Section 105.6 of the International Fire Code is amended to add 105.6.25 to read as follows:

105.6.25 Aisle Containment Systems. A construction permit is required to install or modify a*isle containment systems*.

Section 106.1 of the International Fire Code is amended to read as follows:

[A] 106.1 Submittals. Construction documents and supporting data shall be submitted in such form and detail as required by the fire code official. The construction documents shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

Exception: The fire code official is authorized to waive the submission of construction documents and supporting data not required to be prepared by a registered design professional if it is found that the nature of the work applied for is such that review of construction documents is not necessary to obtain compliance with this code.

Section 112.4 of the International Fire Code is amended to read as follows:

[A] 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 guilty of a misdemeanor, punishable by a fine of not more than two thousand dollars [$2,000.00]. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Section 113.4 of the International Fire Code is amended to read as follows:

[A] 113.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not more than two thousand dollars [$2,000.00].

Section 202 of the International Fire Code is amended to add definitions to read as follows:

AISLE CONTAINMENT SYSTEM. A system of physical barriers and doors that separates cold supply airflow from hot exhaust airflow. Such systems are typically used to cool data center electronic equipment. There are two types of aisle containment systems, *hot* and *cold*.

[B] **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.

[BG] A**TRIUM.** A vertical space that is closed at the top, connecting two or more stories in Group I-2 and I-3 occupancies or three or more stories in all other occupancies.

[B] **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.

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.

[B] FIREPLACE. A hearth and fire chamber or similar prepared place in which a fire may be made and which is built in conjunction with a chimney.

FIREWORKS. Any composition or device for the purpose of producing a visible or an audible effect for entertainment purposes by combustion, deflagration, detonation, and/or activated by ignition with a match or other heat producing device that meets the definition of 1.3G fireworks, 1.4G fireworks, or sparklers. … {Remainder of text unchanged} …

HIGH-PILED COMBUSTIBLE STORAGE: add a second paragraph to read as follows:

Any building classified as a group S Occupancy or Speculative Building exceeding 6,000 sq. ft. that has a clear height in excess of 14 feet, making it possible to be used for storage in excess of 12 feet, shall be considered to be high-piled storage. When a specific product cannot be identified, a fire protection system and life safety features shall be installed as for Class IV commodities, to the maximum pile height.

INFORMATION TECHNOLOGY EQUIPMENT (ITE). Equipment and systems rated 1000 volts or less, normally found in offices or other business establishments and similar environments classified as ordinary locations, that are used for creation and manipulation of data, voice, video, and similar signals that are not communications equipment as defined in NFPA 70 Article 100 and do not process communications circuits as defined in NFPA 70 Article 800.

OCCUPANCY CLASSIFICATION. Residential Group R-3; Change to read as follows:

Residential Group R-3. Residential Group R-3 occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4, or I, including:

Buildings that do not contain more than two *dwelling units*
Care facilities that provide accommodations for five or fewer persons receiving care
Congregate living facilities (nontransient) with 16 or fewer occupants
Boarding houses (nontransient)
Convents
Dormitories
Fraternities and sororities
Monasteries
Congregate living facilities (transient) with 10 or fewer occupants
Boarding houses (transient)
Lodging houses (transient) with five or fewer *guestrooms* and 10 or fewer occupants

Exception: Detached one- and two-family dwellings and multiple (three or more) single-family dwellings (townhouses) that are three or less stories in height are regulated by the IRC (see 102.5 for the provisions of this code).

REPAIR GARAGE. A building, structure or portion thereof used for servicing or repairing motor vehicles.

SELF-SERVICE STORAGE FACILITY. Real property designed and used for the purpose of renting or leasing individual storage spaces to customers for the purpose of storing and removing personal property on a self-service basis.

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.

WORK AREA. That portion or portions of a building consisting of all reconfigured spaces as indicated on the construction documents. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed and portions of the building where work not initially intended by the owner is specifically required by this code.

Section 307.1.1 of the International Fire Code is amendedto read as follows:

307.1.1 Prohibited Open Burning. Open burning is prohibited.

Section 307 of the International Fire Code is amended to add section 307.1.2 as follows:

307.1.2 Burn Ban. When the County Commissioner's Court of either Collin or Dallas County adopts a burn ban order to prohibit outdoor burning in the unincorporated areas of the county, the ordered burn ban shall extend to include the incorporated areas of the City of

Richardson within the respective county. This includes any burning addressed in Sections 307 and 308 unless otherwise approved by the Fire Code Official.

Section 307.2 of the International Fire Code is amended to Section 307.2.

Section 307.3 of the International Fire Code is amended to read as follows:

307.3 Extinguishment Authority. The fire code official is authorized to order the extinguishment by the property owner, another person responsible, or the fire department of any open burning.

Section 307.4 of the International Fire Code is amended to read as follows:

307.4 Location. Recreational fires and outdoor fireplaces shall comply with 307.4.1 through 307.4.4.

Section 307.4.1 of the International Fire Code is amended to read as follows:

307.4.1 Prohibited Bonfires. Bonfires are prohibited.

Section 307 of the International Fire Code is amended to add section 307.4.4 to read as follows:

307.4.4 Permanent Outdoor Firepit. Permanently installed outdoor firepits for recreational fire purposes shall not be installed within 10 feet of a structure or combustible material.

Exception: Permanently installed outdoor fireplaces constructed in accordance with the *International Residential Code* or *International Building Code*.

Section 307.5 of the International Fire Code is amended to read as follows:

307.5 Attendance. *Recreational fires*, and use of outdoor fireplaces shall be constantly attended until the fire is extinguished. Not fewer than one portable fire extinguisher complying with Section 906 with a minimum 4-A rating or other approved on-site fire-extinguishing equipment, such as dirt, sand, water barrel, garden hose or water truck, shall be available for immediate utilization.

Section 308.1.4 of the International Fire Code is amended to read as follows:

308.1.4 Open-flame Cooking Devices. Open-flame cooking devices, charcoal grills and other similar devices used for cooking shall not be located or used on combustible balconies, decks, or within 10 feet (3048 mm) of combustible construction.

Exceptions:

1. One- and two-family dwellings, not including *townhouses*.
2. Where buildings, balconies and decks are protected by an *approved* automatic sprinkler system.
3. {Exception 3 deleted}

Section 308.1.6.2 of the International Fire Code is amended to read as follows:

308.1.6.2 Portable fueled open-flame devices. Portable open-flame devices fueled by flammable or combustible gases or liquids shall be enclosed or installed in such a manner as to prevent the flame from contacting combustible material.

Exceptions:

1. LP-gas-fueled devices used for sweating pipe joints or removing paint in accordance with Chapter 61.
2. Cutting and welding operations in accordance with Chapter 35.
3. Torches or flame-producing devices in accordance with Section 308.1.3.
4. Candles and open-flame decorative devices in accordance with Section 308.3.

Section 308.1.6.3 of the International Fire Code is amended to read as follows:

308.1.6.3 Sky Lanterns. A person shall not release or cause to be released an unmanned floating device containing an open flame or other heat source, such as but not limited to a sky lantern.

Section 311.5 of the International Fire Code is amended to read as follows:

311.5 Placards. The fire code official is authorized to require marking of any vacant or abandoned buildings or structures determined to be unsafe pursuant to Section 114 of this code relating to structural or interior hazards, as required by section 311.5.1 through 311.5.5.

Section [403.5] 403.4 of the International Fire Code is amended to read as follows:

403.4 Group E Occupancies. An *approved* fire safety and evacuation plan in accordance with Section 404 shall be prepared and maintained for Group E occupancies and for buildings containing both a Group E occupancy and an atrium. A diagram depicting two evacuation routes shall be posted in a conspicuous location in each classroom. Group E occupancies shall also comply with Sections 403.5.1 through 403.5.3.

Section 404.2.2 of the International Fire Code is amended to read as follows:

404.2.2 Fire safety plans. Fire safety plans shall include the following:

1. The procedure for reporting a fire or other emergency.
2. The life safety strategy including the following:
    2.1. Procedures for notifying occupants, including areas with a private mode alarm system.
    2.2. Procedures for occupants under a defend-in-place response.
    2.3. Procedures for evacuating occupants, including those who need evacuation assistance.
3. Site plans indicating the following:
    3.1. The occupancy assembly point.
    3.2. The locations of fire hydrants.
    3.3. The normal routes of fire department vehicle access.
4. Floor plans identifying the locations of the following:
    4.1. Exits.
    4.2. Primary evacuation routes.
    4.3. Secondary evacuation routes.

4.4. Accessible egress routes.

4.4.1. Areas of refuge.

4.4.2. Exterior areas for assisted rescue.

4.5. Refuge areas associated with smoke barriers and horizontal exits.

4.6. Manual fire alarm boxes.

4.7. Portable fire extinguishers.

4.8. Occupant-use hose stations.

4.9. Fire alarm annunciators and controls.

4.10. Fire extinguishing system controls.

5. A list of major fire hazards associated with the normal use and occupancy of the premises, including maintenance and housekeeping procedures.
6. Identification and assignment of personnel responsible for maintenance of systems and equipment installed to prevent or control fires.
7. Identification and assignment of personnel responsible for maintenance, housekeeping and controlling fuel hazard sources.

Section 405.5 of the International Fire Code is amended to read as follows:

405.5 Time. The *fire code official* may require an evacuation drill at any time. Drills shall be held at unexpected times and under varying conditions to simulate the unusual conditions that occur in case of fire.

Exceptions:

1. In severe climates, the fire code official shall have the authority to modify the emergency evacuation drill termination points and frequency.
2. In Groups I-1, I-2, I-3 and R-4, where staff-only emergency evacuation drills are conducted after visiting hours or where care recipients are expected to be asleep, a coded announcement shall be an acceptable alternative to audible alarms.
3. Notification of teachers/staff having supervision of light- or sound-sensitive students/occupants, such as those on the autism spectrum, for the protection of those students/occupants, shall be allowed prior to conducting a drill.

Section 501.4 of the International Fire Code is amended to read as follows:

501.4 Timing of Installation. When fire apparatus access roads or a water supply for 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 503.1.1 of the International Fire Code is amended e to read as follows:

503.1.1 Buildings and facilities. *Approved* fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall, unless otherwise approved, comply with the requirements of this section and shall extend to within 150 feet (45 720

mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an *approved* route around the exterior of the building or facility. Except for one- or two-family dwellings [not including *townhouses*], the path of measurement shall be along a minimum ten foot (10') wide unobstructed pathway, with no greater than 1:4 grade, around the external walls of the structure, unless otherwise approved.

Exceptions:

1. The *fire code official* is authorized to increase the dimension of 150 feet (45 720 mm) to 200 feet (60 960 mm) where any of the following conditions occur:
    1.1. The building is equipped throughout with an *approved* automatic sprinkler system installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.
    1.2. Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an *approved* alternative means of fire protection is provided.
    1.3. There are not more than two Group R-3 or Group U occupancies.
2. Where *approved* by the *fire code official*, fire apparatus access roads shall be permitted to be exempted or modified for solar photovoltaic power generation facilities.

Section 503.2.1 of the International Fire Code is amended to read as follows:

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 24 feet (7315 mm), 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 (4267 mm).

Section 503.2.2 of the International Fire Code is amended to read as follows:

503.2.2 Authority. The *fire code official* shall have the authority to require an increase in the minimum access widths and vertical clearances where they are inadequate for fire or rescue operations.

Section 503.2.3 of the International Fire Code is amended to read as follows:

503.2.3 Surface. Fire apparatus access roads shall be designed and maintained to support loads of 80,000 Lbs. for fire apparatus and shall be surfaced so as to provide all-weather driving capabilities.

Section 503.2.7 Grade of the International Fire Code is amendede to read as follows:

503.2.7 Grade. The grade of the fire apparatus access road shall be maximum 10% with a 3% cross slope.

Section 503.3 of the International Fire Code is amended to read as follows:

503.3 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 – Signs shall read "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" and shall be 12" wide and 18" high. Signs shall be painted on a white background with letters and borders in red, 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 along both sides of the fire lane. Signs may be installed on permanent buildings or walls or as *approved* by the Fire Chief.

Section 503.4 of the International Fire Code is amended to read as follows:

503.4 Obstruction of Fire Apparatus Access 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 503.2.1 and any area marked as a fire lane as described in Section 503.3 shall be maintained at all times.

Section 503.6of the International Fire Code is amended to read as follows:

503.6 Security gates. The installation of security gates across fire apparatus access roads or parking garage driveways 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.

Section 504.1of the International Fire Code is amended to read as follows:

504.1 Required access. Exterior doors and openings required by this code or the International Building Code shall be maintained readily accessible for emergency access by the fire department. An *approved* access walkway leading from *fire apparatus access roads* to exterior openings shall be provided where required by the *fire code official*. At least one such walkway leading to each interior courtyard shall provide a straight path where required by the fire code official.

Section 505.1of the International Fire Code is 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 6 inches (152.4 mm) high with a minimum stroke width of 1/2 inch (12.7 mm). 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* 6 inch (152.4 mm) height building numerals or addresses and 4 inch (101.6 mm) 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.

Exception: R-3 Single Family occupancies shall have *approved* numerals of a minimum 3½ inches (88.9 mm) in height and a color contrasting with the background clearly visible and legible from the street fronting the property and rear alleyway where such alleyway exists.

(Ord. No. 3492, § 2, 11-8-04)

Section 506.1.2of the International Fire Code is amended to read as follows:

506.1.2 Key boxes for elevator keys. Key boxes shall be provided for new and existing elevators. Key boxes provided for elevator keys shall comply with Section 506.1 and all the following:

1. The key box shall be compatible with an existing rapid entry key box system in use in the jurisdiction and approved by the fire code official.

2. The front cover shall be permanently labeled with the words "Fire Department Use Only—Elevator Keys."

3. The key box shall be mounted at each elevator bank at the lobby nearest to the lowest level of fire department access.

4. The key box shall be mounted 5 feet 6 inches (1676 mm) above the finished floor to the right side of the elevator bank.

5. Contents of the key box are limited to elevator keys. Additional elevator access tools, keys, and information pertinent to emergency planning or elevator access shall be permitted where authorized by the fire code official.

6. In buildings with two or more elevator banks, a single key box shall be permitted to be used where such elevator banks are separated by not more than 30 feet (9144 mm). Additional key boxes shall be provided for each individual elevator or elevator bank separated by more than 30 feet (9144 mm).

Exception: A single key box shall be permitted to be located adjacent to a fire command center.

Section 507.4of the International Fire Code is 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 exact location of the static/residual hydrant and the flow hydrant shall be indicated on the design drawings. On new systems, or whenever hydraulic calculations are necessary, plan submittals shall be accompanied by a copy of the original City of Richardson 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. Reference Section 903.3.5 for additional design requirements.

Section 507.5.4of the International Fire Code is amended to read as follows:

507.5.4 Obstruction. A minimum five foot (1524 mm) wide unobstructed access to fire hydrants shall be maintained. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.

Section 507.5.5of the International Fire Code is amended to read as follows:

507.5.5 Clear space around hydrants. A minimum five foot (1524 mm) wide clear space shall be maintained around the circumference of fire hydrants, except as otherwise required or *approved*. Posts, fences, vehicles, growth, trash, storage and other materials or objects shall not be placed or kept near fire hydrants, fire department connections or fire protection system control valves in a manner that would prevent such equipment or fire hydrants from being immediately discernible.

Section 509. of the International Fire Code is amended tochange add section 509.1.2 to read as follows:

509.1.2 Sign Requirements. Signs shall comply with local written policies as established by the *fire code official*.

Section 605.4.1 through 605.4.2.2of the International Fire Code are amended to read as follows:

605.4 Fuel oil storage systems. Fuel oil storage systems for building heating 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.

605.4.1.1 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 807.5.2.2 and 807.5.2.3of the International Fire Code are amended to read as follows:

807.5.2.2 Artwork in Corridors. Artwork and teaching materials shall be limited on the walls of corridors to not more than 20 percent of the wall area. Such materials shall not be continuous from floor to ceiling or wall to wall. Curtains, draperies, wall hangings, and other decorative material suspended from the walls or ceilings shall meet the flame propagation performance criteria of *NFPA 701* in accordance with Section 807 or be noncombustible.

Exception: Corridors protected by an *approved* automatic sprinkler system installed in accordance with Section 903.3.1.1 shall be limited to 50 percent of the wall area.

807.5.2.3 Artwork in Classrooms. Artwork and teaching materials shall be limited on walls of classrooms to not more than 50 percent of the specific wall area to which they are attached. Curtains, draperies, wall hangings and other decorative material suspended from the walls or ceilings shall meet the flame propagation performance criteria of *NFPA 701* in accordance with Section 807 or be noncombustible.

Section 807.5.5.2 and 807.5.5.3of the International Fire Code are amended to read as follows:

807.5.5.2 Artwork in Corridors. Artwork and teaching materials shall be limited on the walls of corridors to not more than 20 percent of the wall area. Such materials shall not be continuous from floor to ceiling or wall to wall. Curtains, draperies, wall hangings and other decorative material suspended from the walls or ceilings shall meet the flame propagation performance criteria of *NFPA 701* in accordance with Section 807 or be noncombustible.

Exception: Corridors protected by an *approved* automatic sprinkler system installed in accordance with Section 903.3.1.1 shall be limited to 50 percent of the wall area.

807.5.5.3 Artwork in Classrooms. Artwork and teaching materials shall be limited on walls of classrooms to not more than 50 percent of the specific wall area to which they are attached. Curtains, draperies, wall hangings and other decorative material suspended from the walls or ceilings shall meet the flame propagation performance criteria of *NFPA 701* in accordance with Section 807 or be noncombustible.

Section 901.4.7of the International Fire Code is amended to read as follows:

901.4.7 Pump and riser room requirements. A dedicated fire sprinkler riser room, or a room dedicated only to building systems, shall be provided for the main fire sprinkler riser and the fire alarm control panel that supervises the fire sprinkler system. Where provided, fire pump rooms and automatic sprinkler system riser rooms shall be designed with adequate space for all equipment necessary for the installation, as defined by the manufacturer, with sufficient working space around the stationary equipment. Clearances around equipment to

elements of permanent construction, including other installed equipment and appliances, shall be sufficient to allow firefighting operation, inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly. Fire pump and automatic sprinkler system riser rooms shall be provided with doors and unobstructed passageways large enough to allow removal of the largest piece of equipment.

901.4.7.1 Access. Rooms containing the main automatic sprinkler system riser(s), and/or fire pumps and controllers, shall be provided with an exterior access door. The door shall be locked, and a key shall be always available in an *approved* key box at the exterior of the door.

Section 901.4.7.2of the International Fire Code is amended to read as follows:

901.4.7.2 Marking access doors. Access doors for automatic sprinkler system riser rooms and fire pump rooms shall be labeled with *approved* signs.

Section 901.6.1 of the International Fire Code is amended to add section 901.6.1 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 night time 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 901.6.3 of the International Fire Code is amended to add Section 901.6.3.2 to read as follows:

901.6.3.2 Existing fire alarm systems shall include the following documentation contained in an *approved* fire alarm system document cabinet complying with *NFPA 72* Section 7.7.2:

A floor plan indicating location of all:

1. Fire sprinkler and standpipe system control valves.
2. Fire sprinkler risers, including pre-action systems.
3. Fire pumps.
4. All fire alarm system initiating devices.

Section 901.6.4 of the International Fire Code is amended to read as follows:

901.6.4 False Alarms and Nuisance Alarms. False alarms and nuisance alarms shall not be given, signaled or transmitted or caused or permitted to be given, signaled or transmitted in any manner. In the event of an excessive number of activations, the fire department may request that the business or property owner take the system out of service and comply with 901.7.

Section 901.7of the International Fire Code is 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.

901.7.1 through 901.7.6 remain unchanged.

Section 903.2of the International Fire Code is amended to read as follows:

903.2 Where required. An automatic sprinkler system shall be installed:

1. In new buildings: Throughout new buildings with an area of 5,000 square feet or greater. For the purpose of this provision, *fire areas* shall not define separate buildings.

2. In existing buildings:

    a. Throughout new areas of 5,000 square feet or more when fire wall(s) or fire barrier(s) separate the existing from the new construction, or, throughout the entire building when such fire separation is not present. For the purposes of this provision, *fire areas* shall not define separate buildings within the new construction, OR

    b. If the cumulative area of the building with a new addition exceeds the areas indicated in 903.2.1 through 903.2.12, regardless of separation, those sections apply, OR

    c. Change of use / occupancy classification, sprinklers shall comply with 903.2.1 through 903.2.12.

3. In locations described in Sections 903.2.1 through 903.2.12.

Exceptions:

1. *Open parking garages* in compliance with Section 406.5 of the *International Building Code*;

2. Patios complying with all the following:

    a. Non-combustible construction; and,

    b. No combustible materials, including furnishings, are stored or used on the patio; and,

    c. Openings on at least two opposite sides of the patio. The openings shall be minimum 20% of the area of the patio perimeter walls on each of the opposite sides.

3. 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 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 903.2.11. of the International Fire Code is amended to add section 903.2.11.7to read as follows:

903.2.11.7 High-Piled Combustible Storage. For any building with a clear height exceeding 12 feet (4572 mm), see Chapter 32 to determine if those provisions apply.

Section 903.2.11. of the International Fire Code is amended to add section 903.2.11.8 to read as follows:

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

Section 903.3.1.1.1of the International Fire Code is amended to read as follows:

903.3.1.1.1 Exempt Locations. **When *approved* by the *fire code official*, automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an *approved* automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.**

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official.
3. Generator and transformer rooms, under the direct control of a public utility, separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.
4. Elevator machine rooms, and machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances.

Section 903.3.1.2.2of the International Fire Code is 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.

{Delete the rest of this section.}

Section 903.3.1.2.3 of the International Fire Code is amended to delete read asfollows:

903.3.1.2.3 Attics and Attached Garages. Sprinkler protection is required in attic spaces of buildings two or more stories in height, in accordance with NFPA 13 and/or NFPA 13R requirements, and in attached garages or in accordance with state law."

Section 903.3.1.3of the International Fire Code is 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 of the International Fire Code is amendedto 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, pre-action, 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, 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 903.3.5of the International Fire Code is 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 9033.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section, TCEQ Rules, 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 supplies for such systems shall be provided in conformance with the supply requirements of the respective NFPA standards; however, every water-based fire protection system shall be designed with a minimum 5 psi safety factor, unless otherwise *approved*. See Section 507.4 for additional design requirements.

Section 903.3.5. of the International Fire Code is amended to add section 903.5.3 to read as follows:

903.3.5.3 Backflow Prevention Valve Location. Backflow prevention valves shall be in a fire sprinkler riser room, fire pump room, or other approved indoor location.

Section 903.4of the International Fire Code is amended to read as follows:

903.4 Sprinkler system supervision and alarms. Valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and waterflow switches on all sprinkler systems shall be electrically supervised by a listed fire alarm control unit.

Exceptions:

1. Automatic sprinkler systems protecting one- and two-family dwellings;
2. Limited area sprinkler systems in accordance with Section 903.3.8;
3. Automatic sprinkler systems installed in accordance with *NFPA 13R* where a common supply main is used to supply both domestic water and the automatic sprinkler system, and a separate shutoff valve for the automatic sprinkler system is not provided;
4. Jockey pump control valves that are sealed or locked in the open position;

5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position;
6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position;
7. Trim valves to pressure switches in dry, pre-action and deluge sprinkler systems that are sealed or locked in the open position.

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 constant water flow between 45-60 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 903.4.2of the International Fire Code is 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 waterflow 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. The device shall be located on the exterior of the building, in an *approved* location, to identify the primary emergency access to the fire sprinkler riser room, or as otherwise *approved*.

Section 904.2.1 is deleted.

Section 903.4.4 of the International Fire Code is amendedto read as follows:

903.4.4 Group R-2 Riser Security. Fire sprinkler riser room access doors of group R-2 buildings shall be secured to prevent unauthorized access.

Section 903.4.5of the International Fire Code is amended to read as follows:

903.4.5 Dedicated Function Fire Alarm System ["Sprinkler Waterflow and Supervisory System"] Control Panel Location. In fire sprinklered buildings, the dedicated function fire alarm system ["sprinkler waterflow and supervisory system"] control panel shall be located at the main fire sprinkler riser room, unless otherwise *approved*. A remote annunciator may also be required to facilitate Fire Department response.

Section 903.4.6 of the International Fire Code is amended to read as follows:

903.4.6 Riser Room Access. Main fire sprinkler riser rooms shall have an exterior fire department access door not less than 3 ft. in width and 6 ft. – 8 in. in height, regardless of any interior doors that are provided.

Section 904.3.5of the International Fire Code is amended to read as follows:

904.3.5 Monitoring. Where a building fire alarm system, or a "sprinkler waterflow and supervisory system", is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system, or "sprinkler waterflow and supervisory system".

Section 904.13.1of the International Fire Code is amended to read as follows:

904.13.1 Manual system operation. A manual actuation device shall be located at or near a means of egress from the cooking area not less than 10 feet (3048 mm) and not more than 20 feet (6096 mm) from the kitchen exhaust system, unless otherwise approved. The manual actuation device shall be installed not more than 48 inches (1200 mm) nor less than 42 inches (1067 mm) above the floor and shall clearly identify the hazard protected. The manual actuation shall require a maximum force of 40 pounds (178 N) and a maximum movement of 14 inches (356 mm) to actuate the fire suppression system.

Exception: Automatic sprinkler systems shall not be required to be equipped with manual actuation means.

Section 905.2of the International Fire Code is 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.

Section 905.3.1 of the International Fire Code is amended to read as follows:

905.3.1 Height. Class III standpipe systems shall be installed throughout buildings where any of the following conditions exist:

1. Four or more stories are above or below grade plane.
2. The floor level of the highest story is located more than 30 feet (9144 mm) above the lowest level of the fire department vehicle access.
3. The floor level of the lowest story is located more than 30 feet (9144 mm) below the highest level of fire department vehicle access.

Exceptions:

1. Class I standpipes are allowed in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2.
2. Class I standpipes are allowed in Group B and E occupancies.
3. Class I manual standpipes are allowed in open parking garages where the highest floor is located not more than 150 feet (45 720 mm) above the lowest level of fire department vehicle access.
4. Class I manual dry standpipes are allowed in open parking garages that are subject to freezing temperatures, provided that the hose connections are located as required for Class II standpipes in accordance with Section 905.5.
5. Class I standpipes are allowed in basements equipped throughout with an automatic sprinkler system.
6. Class I standpipes are allowed in buildings where occupant-use hose lines will not be utilized by trained personnel or the fire department.
7. In determining the lowest level of fire department vehicle access, it shall not be required to consider either of the following:
    7.1. Recessed loading docks for four vehicles or less.

7.2. Conditions where topography makes access from the fire department vehicle to the building impractical or impossible.

Section 905.3 of the International Fire Code is amended to add Section 905.3.9 and 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. For the purpose of this provision, fire areas shall not define separate buildings.

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 905.4of the International Fire Code is amended to read as follows:

905.4 Location of Class I standpipe hose connections. Class I standpipe hose connections shall be provided in all of the following locations:

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 deleted.

2. On each side of the wall adjacent to the exit opening of a horizontal exit.

   Exception: Where floor areas adjacent to a horizontal exit are reachable from an interior exit stairway hose connection by a 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the horizontal exit.

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 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the entrance from the exit passageway to other areas of the building.

4. In covered mall buildings, adjacent to each exterior public entrance to the mall and adjacent to each entrance from an exit passageway or exit corridor to the mall. In open mall buildings, adjacent to each public entrance to the mall at the perimeter line and adjacent to each entrance from an exit passageway or exit corridor to the mall.

5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3-percent slope), each standpipe shall be provided with a hose connection, except that the most demanding standpipe shall be provided with a two-way hose connection, located to serve the roof or at the highest landing of an interior exit

stairway with stair access to the roof provided in accordance with Section 1011.12, or as otherwise *approved* by the *fire code official*.

6. Where the most remote portion of a non-sprinklered floor or story is more than 150 feet (45 720 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60 960 mm) from a hose connection, the *fire code official* is authorized to require that additional hose connections be provided in *approved* locations.
7. When required by this Chapter, standpipe connections shall be placed adjacent to all required exits to the structure and at maximum two hundred feet (200') intervals along major corridors thereafter, or as otherwise *approved* by the *fire code official.*

Section 905.4.3 of the International Fire Code is amended to read as follows:

905.4.3 Identification and clearance. Standpipe hose valve connection locations shall be clearly identified in the following manner:

1. In parking garages, a blue reflective driveway marker shall be placed in the center of the driveway in line with the center of the standpipe connection.
2. When the connection is on a wall the pipe shall be painted red from floor to ceiling, or minimum 10-feet high, whichever is less.
3. The *fire code official* may require additional signs and/or markings to clearly identify standpipe locations.

In garages and driveways, a minimum 36-inch wide, permanently marked, clear path shall be provided in front of standpipe hose connections and shall extend from the center of the connection to the aisle or driveway from which it can be accessed. Vehicle impact protection complying with Section 312 shall be provided where damage from a vehicle can occur.

Section 905.8of the International Fire Code is 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 905.9of the International Fire Code is amended to read as follows:

905.9 Valve supervision. Valves controlling water supplies shall be supervised in the open position so that a change in the normal position of the valve will generate a supervisory signal at the supervising station required by Section 903.4. Where a fire alarm system is provided, a signal shall be transmitted to the control unit.

Exceptions:

1. Valves to underground key or hub valves in roadway boxes provided by the municipality or public utility do not require supervision.
2. Valves locked in the normal position and inspected as provided in this code in buildings not equipped with a fire alarm system.

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 45-60 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 of the International Fire Code is amended to delete Exception 3 to read as follows:

906.1 Where required. Portable fire extinguishers shall be installed in all of the following locations:

1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

   Exceptions:

   1. In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.
   2. In Group E occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each classroom is provided with a portable fire extinguisher having a minimum rating of 2-A:20-B:C.

2. Within 30 feet (9144 mm) distance of travel from commercial cooking equipment and from domestic cooking equipment in Group I-1; l-2, Condition 1; and R-2 college dormitory occupancies.
3. In areas where flammable or combustible liquids are stored, used or dispensed.
4. On each floor of structures under construction, except Group R-3 occupancies, in accordance with Section 3316.1.
5. Where required by the sections indicated in Table 906.1.
6. Special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms, where required by the *fire code official*.

Exception: Portable fire extinguishers are not required at normally unmanned Group U occupancy buildings or structures where a portable fire extinguisher suitable to the hazard of the location is provided on the vehicle of visiting personnel.

Section 907.1 of the International Fire Code is amended toadd 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 907.1.5 of the International Fire Code is amended to read as follows:

907.1.5 Fire Alarm Control Panel Location. In fire sprinklered buildings, the fire alarm control panel shall be located at the main fire sprinkler riser room, unless otherwise *approved*. A remote annunciator may also be required to facilitate Fire Department response.

Section 907.2.1of the International Fire Code is 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: Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

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 907.2.3of the International Fire Code is 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 occupancies. Where automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

Exceptions:

1. A manual fire alarm system is not required in Group E educational and day care occupancies with an occupant load of 50 or less.
2. Emergency voice/alarm communication systems meeting the requirements of Section 907.5.2.2 and installed in accordance with Section 907.6 shall not be required in Group E occupancies with occupant loads of 100 or less provided that activation of the manual fire alarm system initiates an *approved* occupant notification signal in accordance with Section 907.5.
3. Manual fire alarm boxes shall not be required in Group E occupancies where all the following apply:
    3.1. Interior *corridors* are protected by smoke detectors.
    3.2. Auditoriums, cafeterias, gymnasiums and similar areas are protected by *heat detectors* or other *approved* detection devices.
    3.3. Shops and laboratories involving dusts or vapors are protected by *heat detectors* or other *approved* detection devices.
    3.4. Manual activation is provided from a normally occupied location.
4. Manual fire alarm boxes shall not be required in Group E occupancies where all the following apply:
    4.1. The building is equipped throughout with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1.

4.2. The emergency voice/alarm communication system will activate on sprinkler water flow.

4.3. Manual activation is provided from a normally occupied location.

5. Residential in-home day care with not more than 12 children shall have interconnected single station smoke alarms in all habitable rooms. (For care of more than five children 2-1/2 or less years of age, see Section 907.2.6.)

Section 907.4.2; add Section 907.4.2.7 of the International Fire Code are amended to read as follows:

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

Section 907.5.2.2.3of the International Fire Code is amended to read as follows:

907.5.2.2.3 Alternative uses. The emergency voice/ alarm communication system shall be allowed to be used for other announcements, provided that the manual fire alarm use takes precedence over any other use, unless approved by the fire code official.

Section 907.5.2.3of the International Fire Code is amended by amending exception 1 to read as follows:

907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided in accordance with Sections 907.5.2.3.1 through 907.5.2.3.3.

Exceptions:

1. When *approved* by the *fire code official*, visible alarm notification appliances are not required in alterations, except where an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.
2. Visible alarm notification appliances shall not be required in exits as defined in Chapter 2.
3. Visible alarm notification appliances shall not be required in elevator cars.
4. Visual alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that comply with Section 907.2.6, Exception 2.
5. A visible alarm notification appliance installed in a nurses' control station or other continuously attended staff location in a Group I-2, Condition 2 suite shall be an acceptable alternative to the installation of visible alarm notification appliances throughout the suite or unit in Group I-2, Condition 2 occupancies that are in compliance with Section 907.2.6, Exception 2.

Section 907.6.1 of the International Fire Code is amended toadd 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 of the International Fire Code is amended to delete exceptions 1 through 3 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.

EXCEPTION: Fire alarm devices that are replacing existing equipment.

Section 907.6.6of the International Fire Code is amended to read as follows:

907.6.6 Monitoring. Fire alarm systems required by this chapter or by the *International Building Code* shall be monitored by an *approved* supervising station in accordance with *NFPA 72*. See 907.6.3 for the required information transmitted to the supervising station.

Exception: Monitoring by a supervising station is not required for:

1. Single- and multiple-station smoke alarms required by Section 907.2.10.
2. Smoke detectors in Group 1-3 occupancies.
3. *Automatic sprinkler systems* in one- and two-family dwellings.

Section 910.2of the International Fire Code is amended by amending Exceptions 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 and 910.2.2.

Exceptions:

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an approved automatic sprinkler system.
2. Only manual smoke and heat removal shall 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 be required in areas of buildings equipped with control mode special application sprinklers with a response time index of $50(m \times S)^{1/2}$ 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 910.3 of the International Fire Code is amended to add section 910.3.4 to read as follows:

910.3.4 Vent Operation. Smoke and heat vents shall be capable of being operated by *approved* automatic and manual means. Automatic operation of smoke and heat vents shall conform to the provisions of Sections 910.3.4.1 through 910.3.4.2.

910.3.4.1 Sprinklered buildings. Where installed in buildings equipped with an *approved* automatic sprinkler system, smoke and heat vents shall be designed to operate automatically. The automatic operating mechanism of the smoke and heat vents shall operate at a temperature rating at least 100 degrees F (approximately 38 degrees Celsius) greater than the temperature rating of the sprinklers installed.

Exception: Manual only systems per Section 910.2.

910.3.4.2 Non-sprinklered Buildings. Where installed in buildings not equipped with an *approved* automatic sprinkler system, smoke and heat vents shall operate automatically

by actuation of a heat-responsive device rated at between 100°F (56°C) and 220°F (122°C) above ambient.

Exception: Listed gravity-operated drop out vents.

Section 910.4.3.1of the International Fire Code is 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 m^2 per 0.4719 m^3/s) of smoke exhaust.

Section 912.2of the International Fire Code is amended to read as follows:

912.2 Location. With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus unless approved. The location of fire department connections shall be approved by the fire code official.

Section 912.2 of the International Fire Code is amended to add Section 912.2.3 to read as follows:

912.2.3 Hydrant Distance. An *approved* fire hydrant shall be located between 35 and 135 feet of the fire department connection, measured along an *approved* route [as the fire hose is laid] along an unobstructed path.

Section 912.2.2 of the International Fire Code is amended to add second paragraph to read as follows:

912.2.2 Existing buildings. On existing buildings, wherever the fire department connection is not visible to approaching fire apparatus, the fire department connection shall be indicated by an approved sign mounted on the street front or on the side of the building. Such sign shall have the letters "FDC" not less than 6 inches (152 mm) high and words in letters not less than 2 inches (51 mm) high or an arrow to indicate the location. Such signs shall be subject to the approval of the fire code official.

On existing buildings, the fire department connection may be wall-mounted.

Section 912.7.1 of the International Fire Code is amended to add to read as follows:

912.7.1 Missing Caps. 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 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; 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.

Section 913.2.1of the International Fire Code is amended to read as follows:

913.2.1 Protection of fire pump rooms. Rooms where fire pumps are located shall be separated from all other areas of the building in accordance with Section 913.2.1 of the *International Building Code*.

The fire pump room shall have an exterior fire department access door 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 Section 506.1. Access keys shall be provided in the key box as required by Section 506.1.

Section 913.6 of the International Fire Code is amended to add to read as follows:

913.6 Minimum Suction Pressure. Where fire pumps are employed, the minimum suction pressure shall not be less than 20 psi at 150% of rated pump capacity.

Section 914.3.1.2of the International Fire Code is amended to read as follows:

914.3.1.2 Water Supply to required 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.

Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections.

Section 1009.8.1of the International Fire Code is amended to read as follows:

1009.8.1 System requirements. Two-way communication systems shall provide two-way communication between each required location and an approved constantly attended central control point or other approved location. A connection shall occur within 60 seconds of activation. The address and location shall be automatically identified. The two-way communication system shall include both audible and visible signals.

Section 1020.2 of the International Fire Code is amended to add exception 6 to read as follows:

1020.2 Construction. Corridors shall be fire-resistance rated in accordance with Table 1020.2. The corridor walls required to be fire-resistance rated shall comply with Section 708 of the International Building Code for fire partitions.

Exceptions:

1. A fire-resistance rating is not required for corridors in an occupancy in Group E where each room that is used for instruction has not less than one door opening directly to the exterior and rooms for assembly purposes have not less that one-half of the required means of egress doors opening directly to the exterior. Exterior doors specified in the exception are required to be at ground level.
2. A fire-resistance rating is not required for corridors contained within a dwelling unit or sleeping unit in an occupancy in Groups I-1 and R.
3. A fire-resistance rating is not required for corridors in open parking garages.
4. A fire-resistance rating is not required for corridors in an occupancy in Group B that is a space requiring only a single means of egress complying with Section 1006.2.
5. Corridors adjacent to the exterior walls of buildings shall be permitted to have unprotected openings on unrated exterior walls where unrated walls are permitted by Table 705.5 of the International Building Code and unprotected openings are permitted by Table 705.8 of the International Building Code.
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 1103.3of the International Fire Code is amended to read as follows:

1103.3 Elevators, escalators and moving walks. Existing elevators, escalators and moving walks shall comply with the requirements of Sections 1103.3.1 and 1103.3.2. Signs shall be provided as required by Section 604.4.

Section 1103.5of the International Fire Code is amended Section 1103.5 to read as follows:

1103.5 Sprinkler systems. An automatic sprinkler system shall be provided in existing buildings in accordance with Sections 1103.5.1 through 1103.5.6. 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 1103.5.1 of the International Fire Code is amended to read as follows:

1103.5.1 Group A-2. Where alcoholic beverages are consumed in a Group A-2 occupancy having an occupant load of 300 or more, the fire area containing the Group A-2 occupancy shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1. Fire sprinkler system installation shall be completed within 24 months from date of notification by the *fire code official*.

Section 1103.5of the International Fire Code is amended to add Section 1103.5.6 to read as follows:

1103.5.6 Spray Booths and Rooms. Existing spray booths and spray rooms shall be protected by an *approved* automatic fire-extinguishing system in accordance with Section 2404.

Section 1103.5.3 of the International Fire Code is amended to read as follows:

1103.5.3 Group I-2, Condition 2. In addition to the requirements of Section 1103.5.2, existing buildings of Group I-2, Condition 2 occupancy shall be equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. The automatic sprinkler system shall be installed as established by the adopting ordinance. The automatic sprinkler system shall be installed within 5-years from date of notification by the fire code official.

Section 1103.5.4of the International Fire Code is amended to read as follows:

1103.5.4 High-rise buildings. Where Appendix M has not been adopted, existing high-rise buildings that do not have a previously approved fire sprinkler system shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1 where any of the following conditions apply:

1. The high-rise building has an occupied floor located more than 120 feet (36 576 mm) above the lowest level of fire department vehicle access.

2. The high-rise building has occupied floors located more than 75 feet (22 860 mm) and not more than 120 feet (36 576 mm) above the lowest level of fire department vehicle access, and the building does not have at least two interior exit stairways complying with Section 1104.10 that are separated from the building interior by fire assemblies having a fire-resistance rating of not less than 2 hours with opening protection in accordance with Table 716.1(2) of the International Building Code.

3. The high-rise building has occupied floors located more than 75 feet (22 860 mm) and not more than 120 feet (36 576 mm) above the lowest level of fire department vehicle access, and the building does not have a fire alarm system that includes smoke detection in mechanical equipment, electrical, transformer, telephone equipment and similar rooms; corridors; elevator lobbies; and at doors penetrating interior exit stairway enclosures.

Building owners shall file a compliance schedule with the fire code official not later than 365 days after receipt of a written notice. The compliance schedule shall not exceed 12 years for completion of the automatic sprinkler system retrofit.

Section 1103.7of the International Fire Code is amended to read as follows:

1103.7 Fire alarm systems. An *approved* fire alarm system shall be installed in existing buildings and structures in accordance with Sections 1103.7.1 through 1103.7.7, shall provide occupant notification in accordance with Section 907.5 unless other requirements are provided by other sections of this code, and shall be monitored as described in Section 907.6.6.

Exception: Occupancies with an existing, previously *approved* fire alarm system.

Section 1103.7 of the International Fire Code is amended to add Sections 1103.7.7 and 1103.7.7.1 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.

Exception: Existing systems need not comply unless the total building, or fire alarm system, remodel or expansion exceeds 30% of the building. 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.

1103.7.7.1 Communication requirements. Refer to Section 907.6.6 for applicable requirements.

Section 2304.1of the International Fire Code is amended to read as follows:

2304.1 Supervision of Dispensing. The dispensing of fuel at motor fuel-dispensing facilities shall be in accordance with the following:

1. Conducted by a qualified attendant; and/or,
2. Shall be under the supervision of a qualified attendant; and/or
3. Shall be an unattended self-service facility in accordance with Section 2304.3.

At any time the qualified attendant of item Number 1 or 2 above is not present, such operations shall be considered as an unattended self-service facility and shall also comply with Section 2304.3.

Table 3206.2, footnote h of the International Fire Code is amended by amending footnote h to read as follows:

h. Where storage areas are protected by either early suppression fast response (ESFR) sprinkler systems or 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 the stored commodities with 12 or fewer sprinklers, installed in accordance with *NFPA 13*, manual smoke and heat vents or manually activated engineered mechanical smoke exhaust systems shall be required within these areas.

Section 5601.1.3of the International Fire Code is amended to read as follows:

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

Exception: The use of fireworks for *approved* outdoor fireworks displays, use of pyrotechnics before a proximate audience, and pyrotechnic special effects in motion picture, television, theatrical, and group entertainment productions complying with Section 5608.

{Delete remainder of text.}

Section 5601.1.4 of the International Fire Code is amended to read as follows:

5601.1.4 Rocketry. The use of model and high-power rockets is prohibited. The storage and handling of model and high-power rockets shall comply with the requirements of *NFPA 1122*, *NFPA 1125* and *NFPA 1127*.

Section 5703.6of the International Fire Code is amended to read as follows:

5703.6 Piping Systems. Piping systems, and their component parts, for flammable and combustible liquids shall be in 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.

Section 5704.2.9.5 of the International Fire Code is amended to add Section 5704.2.9.5.3 to read as follows:

5704.2.9.5.3 Combustible Liquid Storage Tanks Inside of Buildings. The maximum aggregate allowable quantity limit shall be 3,000 gallons (11 356 L) of Class II or III combustible liquid for storage in protected aboveground tanks complying with Section 5704.2.9.7 when all the following conditions are met:

1. The entire 3,000-gallon (11 356 L) quantity shall be stored in protected aboveground tanks;
2. The 3,000-gallon (11 356 L) capacity shall be permitted to be stored in a single tank or multiple smaller tanks;
3. The tanks shall be in a room protected by an automatic sprinkler system complying with Section 903.311; and

4. Tanks shall be connected to fuel-burning equipment, including generators, utilizing an *approved* closed piping system.

The quantity of combustible liquid stored in tanks complying with this section shall not be counted towards the maximum allowable quantity set forth in Table 5003.1.1(1), and such tanks shall not be required to be in a control area. Such tanks shall not be located more than two stories below grade.

Section 5704.2.11.4of the International Fire Code is amended to read as follows:

5704.2.11.4 Leak Prevention. Leak prevention for underground tanks shall comply with Sections 5704.2.11.4.1 through 5704.2.11.4.3. An *approved* method of secondary containment shall be provided for underground tank and piping systems.

Section 5704.2.11.4.2of the International Fire Code is amended to read as follows:

5704.2.11.4.2 Leak Detection. Underground storage tank systems shall be provided with an *approved* method of leak detection from any component of the system that is designed and installed in accordance with *NFPA 30* and as specified in Section 5704.2.11.4.3.

Section 5704.2.11.4.3 of the International Fire Code is amended toadd section 5704.2.11.4.3 to read as follows:

5704.2.11.4.3 Observation Wells. *Approved* sampling tubes of a minimum 4 inches in diameter shall be installed in the backfill material of each underground flammable or combustible liquid storage tank. The tubes shall extend from a point 12 inches below the average grade of the excavation to ground level and shall be provided with suitable surface access caps. Each tank site shall provide a sampling tube at the corners of the excavation with a minimum of 4 tubes. Sampling tubes shall be placed in the product line excavation within 10 feet of the tank excavation and one every 50 feet routed along product lines towards the dispensers, a minimum of two are required.

Section 5707.4of the International Fire Code is amended to read as follows:

5707.4 Mobile fueling areas. During fueling, the mobile fueling vehicle and point of connection to the vehicle shall not be located on public streets, public ways or inside buildings. Fueling on the roof level of parking structures or other buildings is prohibited.

Mobile fueling sites shall be restricted to commercial, industrial, governmental, or manufacturing, where the parking area having such operations is primarily intended for employee vehicles. Mobile fueling shall be conducted for fleet fueling or employee vehicles only, not the general public. Commercial sites shall be restricted to office-type or similar occupancies that are not primarily intended for use by the public.

Section 6103.2.1 of the International Fire Code is amended toadd Section 6103.2.1.8 to read as follows:

6103.2.1.8 Jewelry Repair, Dental Labs and Similar Occupancies. Where natural gas service is not available, portable LP-Gas containers are allowed to be used to supply *approved* torch assemblies or similar appliances. Such containers shall not exceed 20-pound (9.0 kg) water capacity. Aggregate capacity shall not exceed 60-pound (27.2 kg) water capacity. Each device shall be separated from other containers by a distance of not less than 20 feet.

Section 6104.2 of the International Fire Code is amended is deleted

Chapter 80 is amended by amending the NFPA references section to read as follows:

NFPA National Fire Protection Association

1 Batterymarch Park

Quincy, MA 02169-7471

For construction/operational permits, the edition of applicable NFPA standards effective at the time of initial permit application shall apply. Where the following referenced section numbers have changed, the updated, applicable section number shall apply.

Exception: 2020 edition NFPA 70 applies.

[All references remain]

Chapter 80 is amended to add the following NFPA referenced standard:

NFPA 75 Standard for the Fire Protection of Information Technology Equipment

Appendix D Section D103.4 is 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. Dead-end fire apparatus access roads in multi-family residential developments shall not exceed 500 feet in length.

Streets shall comply with City of Richardson Comprehensive Zoning Ordinance, including, "No street may be designed as a dead end without the installation of a cul-de-sac having at least a 50-foot right-of-way radius and a 40-foot paved radius. No cul-de-sac street may exceed 500 feet in length as measured along the street centerline from the projected curb intersection to the farthest curb location."

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.

Appendix D Section D103.5 is amended by amending Item 1 to read as follows:

D103.5 Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria:

1. Where a single gate is provided, the gate width shall be not less than 20 feet (7315.2 mm). Where a fire apparatus road consists of a divided roadway, the gate width shall be not less than 12 feet (3658 mm).
2. Gates shall be of the horizontal swing, horizontal slide, vertical lift or vertical pivot type.
3. Construction of gates shall be of materials that allow manual operation by one person.
4. Gate components shall be maintained in an operative condition at all times and replaced or repaired when defective.
5. Electric gates shall be equipped with a means of opening the gate by fire department personnel for emergency access. Emergency opening devices shall be approved by the fire code official.
6. Methods of locking shall be submitted for approval by the fire code official.
7. Electric gate operators, where provided, shall be listed in accordance with UL 325.
8. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F2200.

Appendix D Section103.6 Marking is 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 – Signs shall read "NO PARKING FIRE LANE" or "FIRE LANE NO PARKING" and shall be 12" wide and 18" high. Signs shall be painted on a white background with letters and borders in red, 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 along both sides of the fire lane. Signs may be installed on permanent buildings or walls or as *approved* by the *fire code official.*

Appendix D Section D103.6.1 is deleted.

Appendix D Section D103.6.2 is deleted.

Appendix D Section D104.3 is 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.

Appendix D Section D105.3 is 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 (4572 mm) and not greater than 30 feet (9144 mm) 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.

Appendix D Section D106.1is amended to read as follows:

D106.1 Multi-family residential projects. Multiple-family residential projects shall be equipped throughout with two separate and approved fire apparatus access roads.

{Delete exception}

Appendix D Section D106.3 is 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.

Appendix D Section D107.2 is 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.

Appendix L Section L101.1 is amended to read as follows:

Section L101.1 Scope. Fire fighter air replenishment systems (FARS) shall be provided in accordance with this appendix in new buildings when any of the following conditions occur:

1. Any new building 5 or more stories in height.
2. Any new building with 2 or more floors below grade.
3. Any new building 500,000 square feet or more in size.

Each stairwell shall have a supply riser. SCBA fill panels shall be located on odd numbered floors commencing at the first level in the primary stairwell and on even numbered floors commencing at level 2 in the remaining stairwells. Fill panels in buildings over 500,000 square feet shall be located adjacent to each standpipe connection.

Appendix L Section L104.13.1 is deleted.

Appendix L Section L104.14 is amended to add paragraph to read as follows:

Section L 104.14 External mobile air connection. CDP. An external mobile air connection shall be provided for fire department mobile air apparatus where required by Section L104.5 to supply the system with breathing air.

The external mobile air connection shall be located with approved separation from the Fire Department Connection (FDC) to allow functionality of both devices by first responders; shall be visible from and within 50 ft. of a fire apparatus access road along an unobstructed path; and shall be located in an approved signed, secured cabinet."

SECTION 2. That all provisions of the ordinances of the City of Richardson, Texas, in conflict with the provisions of this Ordinance be, and the same are hereby repealed, and all other provisions of the ordinances of the City of Richardson, Texas, not in conflict with the provisions of this Ordinance shall remain in full force and effect.

SECTION 3. That should any sentence, paragraph, subdivision, clause, phrase or section of this Ordinance be adjudicated or held to be unconstitutional, illegal or invalid, the same shall not affect the validity of this Ordinance as a whole, or any part or provision thereof other than the part so decided to be invalid, illegal or unconstitutional, and shall not affect the validity of the Code of Ordinances as a whole.

SECTION 4. That any offense committed before the effective date of this Ordinance is governed by the prior law and provisions of the Code of Ordinances, as amended, in effect when the offense was committed, and the former laws continued in effect for this purpose.

SECTION 5. That any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances of the City of Richardson, as heretofore amended, and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000) for each offense; and each and every day such violation shall continue shall be deemed to constitute a separate offense.

SECTION 6. That this ordinance shall take effect immediately from and after its passage, as the law and charter in such cases provide.

DULY PASSED AND APPROVED by the City Council of the City of Richardson, Texas, on the _____ day of _____ 2023.

APPROVED:

_____

MAYOR

CORRECTLY ENROLLED:

_____
CITY SECRETARY

APPROVED AS TO FORM:

_____
CITY ATTORNEY
(PGS:3-27-23:TM 134224)

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF RICHARDSON, TEXAS, AMENDING THE CODE OF ORDINANCES OF THE CITY OF RICHARDSON, TEXAS, BY AMENDING CHAPTER 6, ARTICLE III, RICHARDSON ELECTRICAL CODE, BY AMENDING SECTIONS 6.111(a) AND 6-132(1) ADOPTING THE NATIONAL ELECTRICAL CODE, 2020 EDITION, NFPA 70, RELATING TO ELECTRICAL CONTRACTOR REQUIREMENTS AND STANDARDS FOR ELECTRICAL INSTALLATIONS; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A PENALTY OF A FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS ($2,000.000) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF RICHARDSON, TEXAS:

SECTION 1. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article III, Section 6-111(a), in part, to read as follows:

"Sec. 6-111. Required.

(a) It shall be unlawful for any person to engage in the business of being an electrical contractor or electrical sign contractor without being registered with the city in the manner set forth in this subdivision, licensed by the State of Texas as an electrical contractor or electrical sign contractor, and without indicating the name by which the business shall be known.

(b) ….."

SECTION 2. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article III, Section 6-132(1), in part, to read as follows:

"Sec. 6-132. Standards for electrical installations.

Conformity of electrical installations with the following standards shall be prima facie evidence that such installations are reasonably safe to persons and property:

(1) The National Electrical Code, 2020 edition, NFPA 70 is hereby adopted and incorporated herein by reference and made a part of this article for all purposes, the same as if copied in full herein.

(2) ….."

SECTION 3. That all provisions of the Code of Ordinances of the City of Richardson, Texas, in conflict with the provisions of this Ordinance be, and the same are hereby, repealed and all other provisions not in conflict with the provisions of this Ordinance shall remain in full force and effect.

SECTION 4. That an offense committed before the effective date of this Ordinance is governed by the prior law and provisions of the Code of Ordinances, as amended, in effect when the offense was committed, and the former law is continued in effect for this purpose.

SECTION 5. That should any word, phrase, section, or portion of this Ordinance or of the Code of Ordinances, as amended hereby, be held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said Ordinance or the Code of Ordinances, as amended hereby, which shall remain in full force and effect.

SECTION 6. That any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances of the City of Richardson, as heretofore amended, and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000.00) for each offense; and each and every day such violation shall continue shall be deemed to constitute a separate offense.

SECTION 7. That this Ordinance shall become effective from and after its passage and the publication of the caption, as the law and charter in such cases provide.

DULY PASSED by the City Council of the City of Richardson, Texas, on the _____ day of March 2023.

APPROVED:

MAYOR

CORRECTLY ENROLLED:

CITY SECRETARY

APPROVED AS TO FORM:

CITY ATTORNEY
(PGS:3-13-23:TM 134021)

ORDINANCE NO._____

AN ORDINANCE OF THE CITY OF RICHARDSON, TEXAS, AMENDING THE CODE OF ORDINANCES OF THE CITY OF RICHARDSON, TEXAS, BY AMENDING CHAPTER 6, ARTICLE II, BY AMENDING SECTIONS 6-27 AND 6-28, TO ADOPT THE INTERNATIONAL BUILDING CODE, 2021 EDITION, TOGETHER WITH APPENDIX D AND AMENDMENTS THERETO; BY AMENDING SECTIONS 6-30 AND 6-31, TO ADOPT THE INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS, 2021 EDITION AND AMENDMENTS THERETO; BY AMENDING SECTIONS 6-33 AND 6-34, TO ADOPT THE INTERNATIONAL ENERGY CONSERVATION CODE, 2021 EDITION, AND AMENDMENTS THERETO; BY AMENDING ARTICLE V, SECTIONS 6-237 AND 6-238, TO ADOPT THE INTERNATIONAL FUEL GAS CODE, 2021 EDITION, WITH APPENDIX A AND AMENDMENTS THERETO; BY AMENDING ARTICLE VI, SECTIONS 6-262 AND 6-263, TO ADOPT THE INTERNATIONAL MECHANICAL CODE, 2021 EDITION AND AMENDMENTS THERETO; BY AMENDING ARTICLE VII, SECTIONS 6-287 AND 6-288, TO ADOPT THE INTERNATIONAL PLUMBING CODE, 2021 EDITION, TOGETHER WITH APPENDICES C AND E AND AMENDMENTS THERETO; BY AMENDING ARTICLE II-A, SECTIONS 6-45 AND 6-46 TO ADOPT THE INTERNATIONAL EXISTING BUILDING CODE, 2021 EDITION, AND AMENDMENTS THERETO; BY AMENDING ARTICLE II-B, SECTIONS 6-46 AND 6-47 TO ADOPT THE INTERNATIONAL SWIMMING POOL AND SPA CODE, 2021 EDITION AND AMENDMENTS THERETO; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A PENALTY OF A FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS ($2,000.000) FOR EACH OFFENSE; AND PROVIDING AN EFFECTIVE DATE.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF RICHARDSON, TEXAS:

SECTION 1. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article II, Sections 6-27 and 6-28, in part, to read as follows:

"Sec. 6-27. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Building Code, 2021 Edition, together with Appendix D and amendments, a copy of which is on file in the City Secretary's Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended."

"Sec. 6-28. - Amendments.

The following sections of the International Building Code, 2021 Edition, together with Appendix D and amendments, are hereby amended to read as follows:

Section [A] 101.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[A] 101.1 Title. These regulations shall be known as the Building Code of Richardson, Texas, hereinafter referred to as "this code."

Section [A] 101.4 of the International Building Code, 2021 Edition, is amended to read as follows:

"[A] 101.4 Referenced codes. The other codes listed in Subsections [A] 101.4.1 through [A] 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 [A] 101.4.4 of the International Building Code, 2021 Edition, is amended to read as follows:

"**[A] 101.4.4 Property maintenance.** The provisions of the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance, shall apply to existing structures and premises; equipment and facilities; light, ventilation, space heating, sanitation, life and fire safety, hazards; responsibilities of owners, operators and occupants; and occupancy of existing premises and structures. All references to the International Property Maintenance Code shall hereafter read the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance."

Section [A] 101.4 of the International Building Code, 2021 Edition, is amended by adding Subsection [A] 101.4.8 to read as follows:

"**[A] 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 [A] 103.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"Section [A] 103.1 – Creation of enforcement agency. The City of Richardson Building Inspection Department {remainder of text unchanged}."

Section [A] 104.2.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 104.10.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 105.2 of the International Building Code, 2021 Edition, is amended by amending Building, item 1 to read as follows, and deleting Building, items 2 through 6, 10 and 13.

"**[A] 105.2 Work exempt from permit.**

1. Building: One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the roof area does not exceed 40 square feet (3.71 m^2)."

Section [A] 110.3.6 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 110.6 of the International Building Code, 2021 Edition, is amended by adding Subsections [A] 110.6.1 and [A] 110.6.2 to read as follows:

"**[A] 110.6.1 Reinspection.** Where any work or installation does not pass any initial inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for reinspection."

"**[A] 110.6.2 Subsequent reinspection.** Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section [A] 113.1 of the International Building Code, 2021 Edition, is hereby amended to read as follows:

"[A] 113.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with the City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section [A] 116 of the International Building Code, 2021 Edition, is amended by deleting Subsections [A] 116.2 through [A] 116.5 and by amending Subsection [A] 116.1 to read as follows:

"[A] 116.1 Unsafe conditions. Structures or existing equipment which are or hereafter become unsafe, unsanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or which constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or which involve illegal or improper occupancy or inadequate maintenance, or which are an urban nuisance, shall be deemed an unsafe condition. Unsafe structures are hereby declared illegal and shall be abated in accordance with the provisions of the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance, as amended."

Section 202 of the International Building Code, 2021 Edition, is amended by adding or amending the following definitions to read as follows:

"AISLE CONTAINMENT SYSTEM. A system of physical barriers and doors that separates cold supply airflow from hot exhaust airflow. Such systems are typically used to cool data center electronic equipment. There are two types of aisle containment systems, hot and cold."

"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."

"[F] FIREWORKS. Any composition or device for the purpose of producing a visible or an audible effect for entertainment purposes by combustion, deflagration, detonation, and/or activated by ignition with a match or other heat producing device that meets the definition of 1.3G fireworks, 1.4G fireworks, or sparklers. {remainder of text unchanged}."

"[F] HIGH-PILED COMBUSTIBLE STORAGE: Storage of combustible materials in closely packed piles or combustible materials on pallets, in racks or on shelves where the top of storage is greater than 12 feet (3658 mm) in height. Where required by the fire code official, high-piled combustible storage also includes certain high-hazard commodities, such as rubber tires, Group A plastics, flammable liquids, idle pallets, and similar commodities, where the top of storage is greater than 6 feet (1829 mm) in height.

Any building classified as a group S Occupancy or Speculative Building exceeding 6,000 sq. ft. that has a clear height in excess of 14 feet, making it possible to be used for storage in excess of 12 feet, shall be considered to be high-piled storage. When a specific product cannot be identified, a fire protection system and life safety features shall be installed as for Class IV commodities, to the maximum pile height."

"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 [F] 403.3 of the International Building Code, 2021 Edition is amended to read as follows:

"[F] 403.3 Automatic sprinkler system. {remainder of text unchanged}.

Exception: When approved by the fire code official, automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with Section [F] 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.

2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official.

3. Generator and transformer rooms, under the direct control of a public utility, separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.

4. Elevator machine rooms, and machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances."

Section [F] 403.3.2 of the International Building Code, 2021 Edition is amended to read as follows:

"[F] 403.3.2 Water supply to required 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.

Exception: Two connections to the same main shall be permitted provided that the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through not fewer than one of the connections."

Section 404.10 of the International Building Code, 2021 Edition, is amended to read as follows:

"404.10 Exit stairways in an atrium. Where an atrium contains an exit access stairway all the following shall be met {remainder of text unchanged}."

Section [F] 502.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 502.1 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 6 inches (152.4 mm) high with a minimum stroke width of 1/2 inch (12.7 mm). 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 6 inch (152.4 mm) height building numerals or addresses and 4 inch (101.6 mm) 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.

Exception: R-3 Single Family occupancies shall have approved numerals of a minimum 3½ inches (88.9 mm) in height and a color contrasting with the background-clearly visible and legible from the street fronting the property and rear alleyway where such alleyway exists."

Table 506.2; footnote i of the International Building Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section 708.4.2, Exception 1 of the International Building Code, 2021 Edition, is amended to read as follows:

"708.4.2 Fireblocks and draftstops in combustible construction. {remainder of text unchanged}.

Exceptions:

1. Buildings equipped with an automatic sprinkler system installed throughout in accordance with Section [F] 903.3.1.1, or in accordance with Section [F] 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 [F] 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 draftstopping.

2. Through 5. {remainder of text unchanged}."

Section 718.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"718.3 Draftstopping in floors. {remainder of text unchanged}.

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

Section 718.4 of the International Building Code, 2021 Edition, is amended to read as follows:

"718.4 Draftstopping in attics. {remainder of text unchanged}.

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

Section [F] 902.1 of the International Building Code, 2021 Edition is amended to read as follows:

"[F] 902.1 Pump and riser room requirements. A dedicated fire sprinkler riser room, or a room dedicated only to building systems, shall be provided for the main fire sprinkler riser and the fire alarm control panel that supervises the fire sprinkler system. {remainder of text unchanged}."

Section [F] 902.1.1 of the International Building Code, 2021 Edition is amended to read as follows:

"[F] 902.1.1 Access. Rooms containing the main automatic sprinkler system riser(s), and/or fire pumps and controllers, shall be provided with an exterior access door. The door shall be locked, and access keys shall be placed in an approved key box at the exterior access door, as required by the International Fire Code, Section 506."

Section [F] 902.1.2 of the International Building Code, 2021 Edition is amended to read as follows:

"[F] 902.1.2 Marking access doors. Access doors for automatic sprinkler system riser rooms and fire pump rooms shall be labeled with approved signs."

Section [F] 903.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 903.2 Where required. An automatic sprinkler system shall be installed:

1. In new buildings: Throughout new buildings with an area of 5,000 square feet or greater. For the purpose of this provision, fire areas shall not define separate buildings.

2. In existing buildings:

    a. Throughout new areas of 5,000 square feet or more when fire wall(s) or fire barrier(s) separate the existing from the new construction, or, throughout the entire building when such fire separation is not present. For the purposes of this provision, fire areas shall not define separate buildings within the new construction, OR

    b. If the cumulative area of the building with a new addition exceeds the areas indicated in [F] 903.2.1 through [F] 903.2.12, regardless of separation, those sections apply, OR

    c. Change of use / occupancy classification, sprinklers shall comply with [F] 903.2.1 through [F] 903.2.12.

3. In locations described in Sections [F] 903.2.1 through [F] 903.2.12.

Exceptions:

1. Open parking garages in compliance with Section 406.5 of the International Building Code;

2. Patios complying with all the following:

    a. Non-combustible construction; and,

    b. No combustible materials, including furnishings, are stored or used on the patio; and,

    c. Openings on at least two opposite sides of the patio. The openings shall be minimum 20% of the area of the patio perimeter walls on each of the opposite sides.

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 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 [F] 903.2.11 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 903.2.11.7 and [F] 903.2.11.8 to read as follows:

"**[F] 903.2.11.7 High-Piled Combustible Storage.** For any building with a clear height exceeding 12 feet (4572 mm). Reference Chapter 32 of the International Fire Code to determine applicable provisions."

"**[F] 903.2.11.8 Spray Booths and Rooms.** New and existing spray booths and spraying rooms shall be protected by an approved automatic fire-extinguishing system."

Section [F] 903.3.1.1.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 903.3.1.1.1 Exempt Locations. When approved by the fire code official, automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with Section [F] 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a room merely because it is damp, of fire-resistance-rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.

2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official.

3. Generator and transformer rooms, under the direct control of a public utility, separated from the remainder of the building by walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not less than 2 hours.

4. Elevator machine rooms, and machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances."

Section [F] 903.3.1.2.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 903.3.1.2.2 Corridors and balconies. Sprinkler protection shall be provided in all corridors and for all balconies."

Section [F] 903.3.1.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 903.3.1.2.3 Attics and Attached Garages. Sprinkler protection is required in attic spaces of buildings two or more stories in height, in accordance with NFPA 13 and/or NFPA 13R requirements, and in attached garages or in accordance with state law."

Section [F] 903.3.1.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 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 [F] 903.3.1 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 903.3.1.4, [F] 903.3.1.4.1 and [F] 903.3.1.4.2 to read as follows:

"[F] 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."

"[F] 903.3.1.4.1 Attics. Only dry-pipe, pre-action, 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, 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."

"[F] 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 [F] 903.3.5 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 903.3.5 Water Supplies. Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section [F] 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section, TCEQ Rules, 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 supplies for such systems shall be provided in conformance with the supply requirements of the respective NFPA standards; however, every water-based fire protection system shall be designed with a minimum 5 psi safety factor, unless otherwise approved. Reference the International Fire Code, Section [F] 507.4 for additional design requirements."

Section [F] 903.3.5 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 903.3.5.3 to read as follows:

"[F] 903.3.5.3. Backflow prevention valve location. Backflow prevention valves shall be in a fire sprinkler riser room, fire pump room, or other approved indoor location."

Section [F] 903.4 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 903.4 Sprinkler system supervision and alarms. Valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures and waterflow switches on all sprinkler systems shall be electrically supervised by a listed fire alarm control unit.

Exceptions:

1. Automatic sprinkler systems protecting one- and two-family dwellings;

2. Limited area sprinkler systems in accordance with Section [F] 903.3.8;

3. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the automatic sprinkler system, and a separate shutoff valve for the automatic sprinkler system is not provided;

4. Jockey pump control valves that are sealed or locked in the open position;

5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position;

6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position;

7. Trim valves to pressure switches in dry, pre-action and deluge sprinkler systems that are sealed or locked in the open position.

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 constant water flow between 45-60 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 [F] 903.4.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 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 waterflow 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. The device shall be located on the exterior of the building, in an approved location, to identify the primary emergency access to the fire sprinkler riser room, or as otherwise approved."

Section [F] 904.2.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section [F] 903.4 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 903.4.4, [F] 903.4.5 and [F] 903.4.6 to read as follows:

"**[F] 903.4.4 Group R-2 riser security.** Fire sprinkler riser room access doors of group R-2 buildings shall be secured to prevent unauthorized access."

"**[F] 903.4.5 Dedicated function fire alarm system ["sprinkler waterflow and supervisory system"] control panel location.** In fire sprinklered buildings, the dedicated function fire alarm system ["sprinkler waterflow and supervisory system"] control panel shall be located at the main fire sprinkler riser room, unless otherwise approved. A remote annunciator may also be required to facilitate Fire Department response."

"[F]903.4.6 Riser room access. Main fire sprinkler riser rooms shall have an exterior fire department access door not less than 3 ft. in width and 6 ft. – 8 in. in height, regardless of any interior doors that are provided."

Section [F] 904.3.5 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 904.3.5 Monitoring. Where a building fire alarm system, or a "sprinkler waterflow and supervisory system", is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system, or "sprinkler waterflow and supervisory system."

Section [F] 904.13.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 904.13.1 Manual system operation. A manual actuation device shall be located at or near a means of egress from the cooking area not less than 10 feet (3048 mm) and not more than 20 feet (6096 mm) from the kitchen exhaust system, unless otherwise approved. The manual actuation device shall be installed not more than 48 inches (1200 mm) nor less than 42 inches (1067 mm) above the floor and shall clearly identify the hazard protected. The manual actuation shall require a maximum force of 40 pounds (178 N) and a maximum movement of 14 inches (356 mm) to actuate the fire suppression system.

Exception: Automatic sprinkler systems shall not be required to be equipped with manual actuation means."

Section [F] 905.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"**[F] 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."

Section [F] 905.3.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 905.3.1 Height. Class III standpipe systems shall be installed throughout buildings where any of the following conditions exist:

1. Four or more stories are above or below grade plane.

2. The floor level of the highest story is located more than 30 feet (9144 mm) above the lowest level of the fire department vehicle access.

3. The floor level of the lowest story is located more than 30 feet (9144 mm) below the highest level of fire department vehicle access.

Exceptions:

1. Class I standpipes are allowed in buildings equipped throughout with an automatic sprinkler system in accordance with Section [F] 903.3.1.1 or [F] 903.3.1.2.

2. Class I standpipes are allowed in Group B and E occupancies.

3. Class I manual standpipes are allowed in open parking garages where the highest floor is located not more than 150 feet (45 720 mm) above the lowest level of fire department vehicle access.

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

5. Class I standpipes are allowed in basements equipped throughout with an automatic sprinkler system.

6. Class I standpipes are allowed in buildings where occupant-use hose lines will not be utilized by trained personnel or the fire department.

7. In determining the lowest level of fire department vehicle access, it shall not be required to consider either of the following:

    a. Recessed loading docks for four vehicles or less.

    b. Conditions where topography makes access from the fire department vehicle to the building impractical or impossible."

Section [F] 905.3 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 905.3.9 to read as follows:

"[F] 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. For the purpose of this provision, fire areas shall not define separate buildings.

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 [F] 905.4 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 905.4 Location of Class I standpipe hose connections. Class I standpipe hose connections shall be provided in all of the following locations:

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: {deleted}.

2. On each side of the wall adjacent to the exit opening of a horizontal exit.

   Exception: Where floor areas adjacent to a horizontal exit are reachable from an interior exit stairway hose connection by a 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the horizontal exit.

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 30-foot (9144 mm) hose stream from a nozzle attached to 100 feet (30 480 mm) of hose, a hose connection shall not be required at the entrance from the exit passageway to other areas of the building.

4. In covered mall buildings, adjacent to each exterior public entrance to the mall and adjacent to each entrance from an exit passageway or exit corridor to the mall. In open mall buildings, adjacent to each public entrance to the mall at the perimeter line and adjacent to each entrance from an exit passageway or exit corridor to the mall.

5. Where the roof has a slope less than four units vertical in 12 units horizontal (33.3-percent slope), each standpipe shall be provided with a hose connection, except that the most demanding standpipe shall be provided with a two-way hose connection, located to serve the roof or at the highest landing of an interior exit stairway with stair access to the roof provided in accordance with Section 1011.12, or as otherwise approved by the fire code official.

6. Where the most remote portion of a non-sprinklered floor or story is more than 150 feet (45 720 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60 960 mm) from a hose connection, the fire code official is authorized to require that additional hose connections be provided in approved locations.

7. When required by this Chapter, standpipe connections shall be placed adjacent to all required exits to the structure and at maximum two hundred feet (200') intervals along major corridors thereafter, or as otherwise approved by the fire code official."

Section [F] 905.4 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 905.4.3 to read as follows:

"[F] 905.4.3 Identification and clearance. Standpipe hose valve connection locations shall be clearly identified in the following manner:

1. In parking garages, a blue reflective driveway marker shall be placed in the center of the driveway in line with the center of the standpipe connection.

2. When the connection is on a wall the pipe shall be painted red from floor to ceiling, or minimum 10-feet high, whichever is less.

3. The fire code official may require additional signs and/or markings to clearly identify standpipe locations.

4. In garages and driveways, a minimum 36-inch wide, permanently marked, clear path shall be provided in front of standpipe hose connections and shall extend from the center of the connection to the aisle or driveway from which it can be accessed. Vehicle impact protection complying with the International Fire Code, Section 312 shall be provided where damage from a vehicle can occur."

Section [F] 905.8 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 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 [F] 905.9 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 905.9 Valve supervision. Valves controlling water supplies shall be supervised in the open position so that a change in the normal position of the valve will generate a supervisory signal at the supervising station required by Section [F] 903.4. Where a fire alarm system is provided, a signal shall be transmitted to the control unit.

Exceptions:

1. Valves to underground key or hub valves in roadway boxes provided by the municipality or public utility do not require supervision.

2. Valves locked in the normal position and inspected as provided in this code in buildings not equipped with a fire alarm system.

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 45-60 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 [F] 906.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 906.1 Where required. Portable fire extinguishers shall be installed in all of the following locations:

1. In new and existing Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

Exceptions:

1. In Group R-2 occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-B:C.

2. In Group E occupancies, portable fire extinguishers shall be required only in locations specified in Items 2 through 6 where each classroom is provided with a portable fire extinguisher having a minimum rating of 2-A:20-B:C.

2. Within 30 feet (9144 mm) distance of travel from commercial cooking equipment and from domestic cooking equipment in Group I-1; l-2, Condition 1; and R-2 college dormitory occupancies.

3. In areas where flammable or combustible liquids are stored, used or dispensed.

4. On each floor of structures under construction, except Group R-3 occupancies, in accordance with the International Fire Code, Section 3316.1.

5. Where required by the sections indicated in Table [F] 906.1.

6. Special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms, where required by the fire code official.

   Exception: Portable fire extinguishers are not required at normally unmanned Group U occupancy buildings or structures where a portable fire extinguisher suitable to the hazard of the location is provided on the vehicle of visiting personnel."

Section [F] 907.1 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.1.4 to read as follows:

"[F] 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 [F] 907.1 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.1.5 to read as follows:

"[F] 907.1.5 Fire alarm control panel location. In fire sprinklered buildings, the fire alarm control panel shall be located at the main fire sprinkler riser room, unless otherwise approved. A remote annunciator may also be required to facilitate Fire Department response."

Section [F] 907.2.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with Section [F] 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 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:** Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section [F] 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler water flow.

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 [F] 907.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 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 [F] 907.5.2.2 and installed in accordance with Section [F] 907.6 shall be installed in Group E occupancies. Where automatic sprinkler systems or smoke detectors are installed, such systems or detectors shall be connected to the building fire alarm system.

Exceptions:

1. A manual fire alarm system is not required in Group E educational and day care occupancies with an occupant load of 50 or less.

2. Emergency voice/alarm communication systems meeting the requirements of Section [F] 907.5.2.2 and installed in accordance with Section [F] 907.6 shall not be required in Group E occupancies with occupant loads of 100 or less provided that activation of the manual fire alarm system initiates an approved occupant notification signal in accordance with Section [F] 907.5.

3. Manual fire alarm boxes shall not be required in Group E occupancies where all the following apply:

    1. Interior corridors are protected by smoke detectors.

    2. Auditoriums, cafeterias, gymnasiums and similar areas are protected by heat detectors or other approved detection devices.

    3. Shops and laboratories involving dusts or vapors are protected by heat detectors or other approved detection devices.

4. Manual activation is provided from a normally occupied location.

4. Manual fire alarm boxes shall not be required in Group E occupancies where all the following apply:

    1. The building is equipped throughout with an approved automatic sprinkler system installed in accordance with Section [F] 903.3.1.1.

    2. The emergency voice/alarm communication system will activate on sprinkler water flow.

    3. Manual activation is provided from a normally occupied location.

    4. Residential in-home day care with not more than 12 children shall have interconnected single station smoke alarms in all habitable rooms. (For care of more than five children 2-1/2 or less years of age, see Section [F] 907.2.6.)"

Section [F] 907.4.2 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.4.2.7 to read as follows:

"[F] 907.4.2.7 Type. Manual alarm initiating devices shall be an approved double action type."

Section [F] 907.5.2.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 907.5.2.2.3 Alternative uses. The emergency voice/ alarm communication system shall be allowed to be used for other announcements, provided that the manual fire alarm use takes precedence over any other use, unless approved by the fire code official."

Section [F] 907.5.2.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided in accordance with Sections [F] 907.5.2.3.1 through [F] 907.5.2.3.3.

Exceptions:

1. When approved by the fire code official, visible alarm notification appliances are not required in alterations, except where an existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.

2. Visible alarm notification appliances shall not be required in exits as defined in Chapter 2.

3. Visible alarm notification appliances shall not be required in elevator cars.

4. Visual alarm notification appliances are not required in critical care areas of Group I-2 Condition 2 occupancies that comply with Section [F] 907.2.6, Exception 2.

5. A visible alarm notification appliance installed in a nurse's control station or other continuously attended staff location in a Group I-2, Condition 2 suite shall be an acceptable alternative to the installation of visible alarm notification appliances throughout the suite or unit in Group I-2, Condition 2 occupancies that are in compliance with Section [F] 907.2.6, Exception 2."

Section [F] 907.6.1 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 907.6.1.1 to read as follows:

"**[F] 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 [F] 907.6.3 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 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.

Exception: Fire alarm devices that are replacing existing equipment."

Section [F] 907.6.6 of the International Building Code, 2021 Edition, is amended to read as follows:

"**[F] 907.6.6 Monitoring.** Fire alarm systems required by this chapter or by the International Fire Code shall be monitored by an approved supervising station in accordance with NFPA 72. Reference [F] 907.6.3 for the required information transmitted to the supervising station.

Exception: Monitoring by a supervising station is not required for:

1. Single- and multiple-station smoke alarms required by Section [F] 907.2.10.

2. Smoke detectors in Group 1-3 occupancies.

3. Automatic sprinkler systems in one- and two-family dwellings."

Section [F] 910.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 910.2 Where Required. Smoke and heat vents or a mechanical smoke removal system shall be installed as required by Sections [F] 910.2.1 and [F] 910.2.2.

Exceptions:

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an approved automatic sprinkler system.

2. Only manual smoke and heat removal shall 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 be required in areas of buildings equipped with control mode special application sprinklers with a response time index of 50 (m x 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 [F] 910.3.4 of the International Building Code, 2021 Edition, is amended to read as follows:

"**[F] 910.3.4 Vent operation.** Smoke and heat vents shall be capable of being operated by approved automatic and manual means. Automatic operation of smoke and heat vents shall conform to the provisions of Sections [F] 910.3.4.1 through [F] 910.3.4.2."

Section [F] 910.3.4 of the International Building Code, 2021 Edition, is amended to add Subsections [F] 910.3.4.1 and [F] 910.3.4.2 to read as follows:

"[F] 910.3.4.1 Sprinklered buildings. Where installed in buildings equipped with an approved automatic sprinkler system, smoke and heat vents shall be designed to operate automatically. The automatic operating" mechanism of the smoke and heat vents shall operate at a temperature rating at least 100 degrees F (approximately 38 degrees Celsius) greater than the temperature rating of the sprinklers installed.

Exception: Manual only systems per Section [F] 910.2."

"[F] 910.3.4.2 Non-sprinklered Buildings. Where installed in buildings not equipped with an approved automatic sprinkler system, smoke and heat vents shall operate automatically by actuation of a heat-responsive device rated at between 100°F (56°C) and 220°F (122°C) above ambient.

Exception: Listed gravity-operated drop out vents."

Section [F] 910.4.3.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 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 [F] 912.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 912.2 Location. With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus unless approved. The location of fire department connections shall be approved by the fire code official."

Section [F] 912.2.2 of the International Building Code, 2021 Edition, is amended to read as follows:

"[F] 912.2.2 Existing buildings. On existing buildings, wherever the fire department connection is not visible to approaching fire apparatus, the fire department connection shall be indicated by an approved sign mounted on the street front or on the side of the building. Such sign shall have the letters "FDC" not less than 6 inches (152 mm) high and words in letters not less than 2 inches (51 mm) high or an arrow to indicate the location. Such signs shall be subject to the approval of the fire code official.

On existing buildings, the fire department connection may be wall-mounted."

Section [F] 912.2 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 912.2.3 to read as follows:

"**[F] 912.2.3 Hydrant distance.** An approved fire hydrant shall be located between 35 and 135 feet of the fire department connection, measured along an approved route [as the fire hose is laid] along an unobstructed path."

Section [F] 912 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 912.7 to read as follows:

"[F] 912.7 Missing caps. 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 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; 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."

Section [F] 913.2.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"**[F] 913.2.1 Protection of fire pump rooms**. [remainder of text unchanged}.

The fire pump room shall have an exterior fire department access door not less than 3 ft. in width and 6 ft.-8 in. in height, regardless of any interior doors that are provided. Access keys shall be placed in an approved key box at the exterior access door, as required by the International Fire Code, Section 506."

Exceptions: {remainder of text unchanged}."

Section [F] 913 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 913.6 to read as follows:

"[F] 913.6 Minimum suction pressure. Where fire pumps are employed, the minimum suction pressure shall not be less than 20 psi at 150% of rated pump capacity."

Section 1009.1 of the International Building Code, 2021 Edition, is amended to add Exception 3 to read as follows:

"1009.1 Accessible means of egress. {remainder of section unchanged}.

Exceptions:

1. through 2. {remainder of text unchanged}.

3. Buildings regulated under State Law and built in accordance with State registered plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1009."

Section 1009.8 of the International Building Code, 2021 Edition, is amended to add Exception 7 to read as follows:

"1009.8 Two-way communication. {remainder of section unchanged}.

Exceptions:

1. through 6. {remainder of text unchanged}.

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 1009.8.1 of the International Building Code, 2021 Edition, is amended to read as follows:

"1009.8.1 System requirements. Two-way communication systems shall provide two-way communication between each required location and an approved constantly attended central control point or other approved location. A connection shall occur within 60 seconds of activation. The address and location shall be automatically identified. The two-way communication system shall include both audible and visible signals."

Section 1020.2 of the International Building Code, 2021 Edition, is amended to add Exception 6 to read as follows:

"**Exceptions**:

1. through 5. {remainder of text unchanged}.

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 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1101.1 of the International Building Code, 2021 Edition, is amended to add an Exception to read as follows:

"1101.1 Scope. {remainder of text unchanged}.

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."

Table 1505.1 of the International Building Code, 2021 Edition, is amended by deleting footnotes b and c.

Section [BF] 1505.7 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1809.5.1 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1907.1 of the International Building Code, 2021 Edition, is amended by amending the first sentence to read as follows:

"**1907.1 General.** The thickness of concrete floor slabs supported directly on the ground shall not be less than 4 inches unless designed by a registered professional engineer. {remainder of text unchanged}."

Section [F] 2702 of the International Building Code, 2021 Edition, is amended to add Subsection [F] 2702.5 to read as follows:

"**[F] 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 [P] 2901.1 of the International Building Code, 2021 Edition, is amended by adding a final sentence to read as follows:

"[P] 2901.1 Scope. {remainder of text unchanged}. 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 [P] 2902.1 of the International Building Code, 2021 Edition, is amended by adding a second paragraph to read as follows:

"[P] 2902.1 Minimum plumbing fixtures. {remainder of text unchanged}.

In other than E Occupancies, the minimum number of fixtures in [P] 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."

Section 3002.1 of the International Building Code, 2021 Edition, is amended by adding Exceptions 1 and 2 to read as follows:

"3002.1 Hoistway enclosure protection. {remainder of text unchanged}.

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 of the International Building Code, 2021 Edition, is amended to read as follows:

"**3005.4 Machine rooms, control rooms, machinery spaces and control spaces.** Elevator machine rooms, control rooms, control spaces and machinery spaces shall be enclosed with fire barriers constructed in accordance with Section 707 or horizontal assemblies constructed in accordance with Section 711, or both.

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 of the International Building Code, 2021 Edition, is amended to read as follows:

"3005.5 Shunt trip. Shunt trips shall not be installed in elevator machine rooms, machinery spaces and hoistways unless approved by the fire code official."

Section 3007.3 of the International Building Code, 2021 Edition, is amended to read as follows:

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

Section 3008.3 of the International Building Code, 2021 Edition, is amended to read as follows:

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

Section 3106 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 3107 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 3109 of the International Building Code, 2021 Edition, is hereby deleted and is of no force and effect."‘

SECTION 2. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article II, Sections 6-30 and 6-31, in part, to read as follows:

"**Sec. 6-30. - Adopted.**

There is hereby adopted by the City of Richardson, Texas, the International Residential Code for One- and Two-Family Dwellings, 2021 Edition and amendments, a copy of which is on file in the City Secretary's Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended."

"**Sec. 6-31. - Amendments.**

The following sections of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition and amendments, are hereby amended to read as follows:

Section R101.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"**R101.1 Title.** These regulations shall be known as the One- and TwoFamily Dwelling Building Code of Richardson, Texas, hereinafter referred to as "this code."

Section R102.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended 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 R102.7 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"**R102.7 Existing structures.** The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as in specifically covered in this code, the City of Richardson Code of Ordinances, Chapter 6, Article VIII Property Maintenance, or the International Fire Code, or as deemed necessary by the building official for the general safety and welfare of the occupants and the public."

Section R104.10.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R105.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"**R105.1 Required.** Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure; or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system; the installation of which is regulated by this code, or to install concrete pavement, or to cause any such work to be done, shall first make application to the building official for a permit, shall comply with applicable state and local rules and regulations concerning licensing and registration, and obtain the required permit."

Section R105.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by amending Building, items 1 and 10, and deleting Building, items 2 through 5, to read as follows:

"**Building:**

1. One-story detached accessory structures used as tool and storage sheds, playhouses, and similar uses, provided the floor area does not exceed 40 square feet (3.71 m^2).

10. Decks not more than 30 inches above grade."

Section R105.3.1.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R105.5 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"**R105.5 Expiration.** Every permit issued shall become invalid unless the work authorized by such permit is commenced within 90 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 90 days after the time the work is commenced. For work commenced under a building permit for fire repair and reconstruction, natural disaster repair and reconstruction, including catastrophic weather event; repair and reconstruction may include a remodel, a renovation, an addition and any type of new construction which involves the potential for a building being left open to the elements, the exterior building envelope shall be completed within 90 days of the start of construction. The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than 60 days each. The extension shall be requested in writing and justifiable cause demonstrated."

Section R105.5 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsection R105.5.1 to read as follows:

"**R105.5.1 New permits required.** A new permit must be obtained for any construction which is not completed in the allowable time period or extended as provided above. A new fee shall be required in connection with issuance of a new permit. The new fee shall be one-half the amount required for the original permit for such work, provided no changes have been made or will be made in the original plans and specifications for such work. A new permit must be obtained for any construction which has been suspended or abandoned for a period of more than 60 days. The permittee shall make a new application, resubmit plans for review, and pay a new full permit fee to resume work."

Section R106.1.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R109.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsections R109.4.1 and R109.4.2 to read as follows:

"**R109.4.1 Reinspection.** Where any work or installation does not pass any initial inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for reinspection."

"**R109.4.2 Subsequent reinspection**. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section R110 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R112.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"R112.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section R301; Table R301.2(1) of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by deleting the Manual J Design Criteria and footnote n to read 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]					
5lb/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

Section R302.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition is amended by adding Exception 6.

"**R302.1 Exterior walls.** {remainder of text unchanged}.

Exceptions:

1. through 5. {remainder of text unchanged}

6. Open, unenclosed structures when approved within adopted ordinances."

Section R302.2.6 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition is amended by deleting Exception 6 and is of no force and effect.

Section R302.5.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended 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 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to revise the Exception to read as follows:

> **"Exception:** {remainder of 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."

Section R309.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby amended by deleting the Exception and is of no force and effect.

Section R313 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force or effect.

Section R322 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and is of no force and effect.

Section R327.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"R327.1 General. The design and construction of pools and spas shall comply with the International Swimming Pool and Spa Code as amended and adopted. 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 R327.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to add Subsection R327.1.1 to read as follows:

"R327.1.1 Adjacency to structural foundations. Depth of the swimming pool and spa shall maintain a ratio of 1:1 measured from the nearest building foundation or footing of a retaining wall.

> **Exception**: An engineered design by a Texas-registered engineer shall be submitted for approval."

Section R401.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"R401.2 Requirements. {remainder of 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."

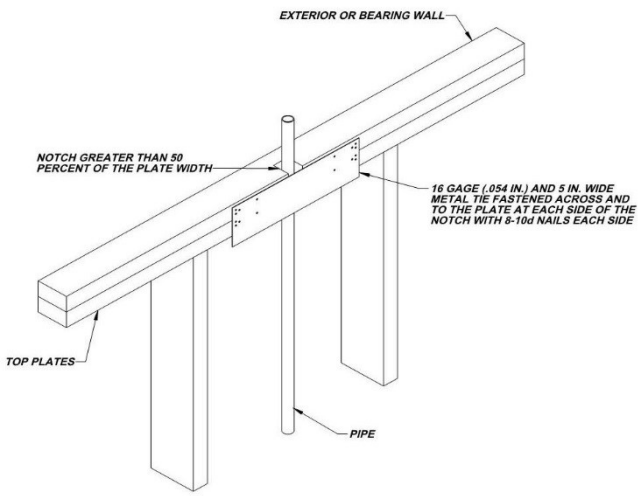
Section R403.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding an Exception to read as follows:

"**Exception**: Support of one story detached accessory structures on pressure preservatively treated wood shall be permitted, provided the floor area does not exceed 150 square feet (13.9 m^2) and the structure is properly anchored to accommodate all loads according to Section R301."

Section R602.6.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by replacing figure R602.6.1 and by amending the text to read as follows:

"**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 of text unchanged}."

Figure 602.6.1



Section R703.8.4.1 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsection R703.8.4.1.2 to read as follows:

"**R703.8.4.1.2 Veneer ties for wall studs.** In stud framed exterior walls, all ties shall 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 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended 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. Class A, B and C roofing required by this section to be listed shall be tested in accordance with UL 790 or ASTM E 108. {remainder of text unchanged}."

Section R904 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended by adding Subsection R904.5 to read as follows:

"**R904.5 Fire classification.** The minimum roof coverings installed on buildings shall be Class C. Unclassified wood shingles or shakes shall be permitted for repairs on existing unclassified wood shingle or shake roof coverings, if not more than 25 percent of the roof covering is replaced in any 12-month period."

Chapter 11 – Energy Efficiency of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is hereby deleted and replaced with the following:

"**N1101.1 Scope.** This chapter regulates the energy efficiency for the design and construction of buildings regulated by this code."

"N1101.2 Compliance. Compliance shall be demonstrated by meeting the requirements of the residential provisions of 2021 International Energy Conservation Code and referenced standards as amended and adopted. 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 G2415.2 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to add a second paragraph to read as follows:

"**G2415.2 CSST.** {remainder of text unchanged}.

Both ends of each end 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: ½ to 5 psi gas pressure – DO NOT REMOVE."

Section G2417.4 of the International Residential Code for One- and Two-Family Dwellings, 2021 Edition, is amended to read as follows:

"**G2417.4 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."**"**

SECTION 3. That Chapter 6, Article II of the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended in part by amending Sections 6-33 and 6-34 to read as follows:

"Sec. 6-33. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Energy Conservation Code, 2021 Edition and amendments, a copy of which is on file in the City Secretary's Office and made a part of this article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended."

"Sec. 6-34. - Amendments.

The following sections of the International Energy Conservation Code, 2021 Edition and amendments, are hereby amended to read as follows:

Section C101.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

"**C101.1 Title.** These provisions shall be known as the Richardson Energy Conservation Code, and shall be cited as such and will be referred to herein as "this code."

Section R101.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

"**R101.1 Title.** These provisions shall be known as the Richardson Energy Conservation Code, and shall be cited as such and will be referred to herein as "this code."

Section C102.1 of the International Energy Conservation Code, 2021 Edition, is amended by adding Subsection C102.1.2 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."

Section R102.1 of the International Energy Conservation Code, 2021 Edition, is amended by adding Subsection R102.1.2 to read as follows:

"**R102.1.2 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. 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 and R403.3.3 respectively."

Section C105.3 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection C105.3.1 read as follows:

"**C105.3.1 Subsequent reinspection**. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section C105.6 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection C105.6.1 read as follows:

"C105.6.1 Subsequent reinspection and testing. Where any work, installation or testing does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection and testing. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection and testing."

Section R105.3 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R105.3.1 read as follows:

"**R105.3.1 Subsequent reinspection**. Where any work or installation does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section R105.6 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R105.6.1 read as follows:

"R105.6.1 Subsequent reinspection and testing. Where any work, installation or testing does not pass a reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code officer for a subsequent reinspection and testing. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection and testing."

Section C110.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

"C110.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section R110.1 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

"R110.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section C202 of the International Energy Conservation Code, 2021 Edition, is amended by adding 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 of the International Energy Conservation Code, 2021 Edition, is amended by adding 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 of the International Energy Conservation Code, 2021 Edition, is amended by adding 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 C402.1.3 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

Table C402.1.3 Insulation/Climate Zone 2 & 3

Climate Zone	Fenestration U-Factor[b,i]	Ceiling R-Value	Wood Frame Wall R-Value	Slab R-Value & Depth
2	0.40	42	13 or 0 + 10ci	0
3	0.32	42	19 or 13+3ci, 0+15ci	0

Table C402.1.4 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

Table C402.1.4 Maximum Opaque Assembly/Climate Zone 2 & 3

Climate Zone	Fenestration U-Factor[f]	Ceiling U-Factor
2	0.40	0.29
3	0.32	0.29

Section C402.5.2, item 2 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

"**Section C402.5.2 Dwelling and sleeping unit enclosure testing.** {remainder of text unchanged}.

1. {remainder of text unchanged}.

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 three units shall be tested, including a mixture of testing unit types and locations."

Section R402.4.1 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R402.4.1.4 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 403.3 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R403.3.8 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 of the International Energy Conservation Code, 2021 Edition, is amended to add Subsection R403.6.4 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."

Section R405.2, item 3 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

"**R405.2 Performance-based compliance.** {remainder of text unchanged}

1. {remainder of text unchanged}.

2. {remainder of text unchanged}.

3. An annual energy cost that is less than or equal to the annual energy cost of the <u>2021</u> standard reference design <u>or 8% less than the annual energy cost of the 2018</u> 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 of the International Energy Conservation Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section R402.4.6 of the International Energy Conservation Code, 2021 Edition, is amended 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 of the International Energy Conservation Code, 2021 Edition, is hereby deleted and is of no force or effect.

Section R408 of the International Energy Conservation Code, 2021 Edition, is hereby deleted and is of no force or effect.

Table R406.4 of the International Energy Conservation Code, 2021 Edition, is amended to read as follows:

TABLE R406.4 [1]

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	63
3	63

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

TABLE R406.4 [2]

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	59
3	59

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

TABLE R406.4 [3]

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	57
3	57

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

TABLE R406.4 [4]

MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
2	55
3	55

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

SECTION 4. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article V, Sections 6-237 and 6-238 in part to read as follows:

"**Sec. 6-237. - Adopted.**

There is hereby adopted by the City of Richardson, Texas, the International Fuel Gas Code, 2021 Edition, together with Appendix A, and amendments, a copy of which is on file in the City Secretary's Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended."

"**Sec. 6-238. - Amendments.**

The following sections of the International Fuel Gas Code, 2021 Edition, are hereby amended to read as follows:

Section [A] 102.5 of the International Fuel Gas Code, 2021 Edition, is amended by adding Subsection [A] 102.5.1 to read as follows:

"**[A] 102.5.1 Change in tenancy or ownership.** It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy."

Section [A] 102.8 of the International Fuel Gas Code, 2021 Edition, is amended to read as follows:

"[A] 102.8 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 Subsections [A] 102.8.1 and [A] 102.8.2. 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 [A] 112.2.3 of the International Fuel Gas Code, 2021 Edition, is amended by adding Subsection [A] 112.2.3.1 to read as follows:

"**[A] 112.2.3.1 Subsequent reinspection and testing.** Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section [A] 113.1 of the International Fuel Gas Code, 2021 Edition, is amended to read as follows:

"[A] 113.1 Application for appeal. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section [A] 114 of the International Fuel Gas Code, 2021 Edition, is deleted and is of no force and effect.

Section 404.2 of the International Fuel Gas Code, 2021 Edition, is amended to add a second paragraph to read as follows:

"**404.2 CSST.** {remainder of text unchanged}.

Both ends of each end 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: ½ to 5 psi gas pressure – DO NOT REMOVE.""

Section 406.4 of the International Fuel Gas Code, 2021 Edition, is 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.**"**"

SECTION 5. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article VI, Sections 6-262 and 6-263 in part to read as follows:

"**Sec. 6-262. - Adopted.**

There is hereby adopted by the City of Richardson, Texas, the International Mechanical Code, 2021 Edition, a copy of which is on file in the City Secretary's Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended."

"**Sec. 6-263. - Amendments.**

The following sections of the International Mechanical Code, 2021 Edition, are hereby amended to read as follows:

Section [A] 102.5 of the International Mechanical Code, 2021 Edition, is amended by adding Subsection [A] 102.5.1 to read as follows:

"**[A] 102.5.1 Change in tenancy or ownership.** It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy."

Section [A] 102.8 of the International Mechanical Code, 2021 Edition, is amended to read as follows:

"[A] 102.8 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 [A] 102.8.1 and [A] 102.8.2. 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 [A] 112.3 of the International Mechanical Code, 2021 Edition, is amended by adding Subsection [A] 112.3.4 to read as follows:

"**[A] 112.3.4 Subsequent reinspection and testing.** Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section [A] 113.1 of the International Mechanical Code, 2021 Edition, is amended to read as follows:

"[A] 113.1 Application for appeal. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

"Section [A]114 of the International Mechanical Code, 2021 Edition, is hereby deleted and is of no force and effect.""

SECTION 6. That the Code of Ordinances of the City of Richardson, Texas, be, and the same is hereby amended by amending Chapter 6, Article VII, Sections 6-287 and 6-288 in part to read as follows:

"**Sec. 6-287. - Adopted.**

There is hereby adopted by the City of Richardson, Texas, the International Plumbing Code, 2021 Edition, together with Appendices C and E and amendments, a copy of which is on file in the City Secretary's Office and made a part of this Article for all purposes, the same as if copied in full herein, with the exception of such sections thereof, as are hereinafter deleted, modified or amended."

"**Sec. 6-288. - Amendments.**

The following sections of the International Plumbing Code, 2021 Edition, together with Appendices C and E, and amendments, are hereby amended to read as follows:

Section [A] 102.5 of the International Plumbing Code, 2021 Edition, is amended by adding Subsection [A] 102.5.1 to read as follows:

"[A] **102.5.1 Change in tenancy or ownership**. It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy."

Section [A] 102.8 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"**[A] 102.8 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 [A] 102.8.1 and [A] 102.8.2. 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 [A] 112.4 of the International Plumbing Code, 2021 Edition, is amended by adding Subsection [A] 112.4.4 to read as follows:

"**[A] 112.4.4 Subsequent reinspection and testing.** Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section [A]113 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"[A]113.1 Application for appeal. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with the City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section [A] 114 of the International Plumbing Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 305.4.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"**305.4.1 Sewer depth.** Building sewers shall be a minimum of 12 inches (305 mm) below grade."

Section 312.10 of the International Plumbing Code, 2021 Edition, is amended by deleting Subsections 312.10.1 and 312.10.2 and amending 312.10 to read as follows:

"**312.10 Inspection and testing of backflow prevention assemblies.** Inspection and testing shall comply with the requirements set forth by the Texas Commission on Environmental Quality."

Section 502 of the International Plumbing Code, 2021 Edition, is amended by adding Subsection 502.6 to read as follows:

"**502.6 Water heaters above ground or floor.** When the attic, roof, mezzanine or platform in which a water heater is installed is more than eight (8) feet (2438 mm) above the ground or floor level, access shall be provided by a stairway or permanent ladder fastened to the building."

Section 608.17.5 of the International Plumbing Code, 2021 Edition, is 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 713 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"**SECTION 713**

ENGINEERED DRAINAGE DESIGN"

Section 713.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"713.1 Design of drainage system. The sizing requirements for plumbing drainage systems shall be determined by approved design methods."

Section 903.1.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"**903.1.1 Roof extension unprotected.** Open vent pipes that extend through a roof shall terminate not less than 6 inches (152 mm) above the roof (remainder of text unchanged)."

Section 1106.1 of the International Plumbing Code, 2021 Edition, is amended to read as follows:

"**1106.1 General.** The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on the 100-year hourly rainfall rate of 5 inches."

Section 1202.1 of the International Plumbing Code, 2021 Edition, is amended by deleting exceptions 1 and 2."

SECTION 7. That the Code of Ordinances of the City of Richardson, Texas, be and the same is hereby amended by amending Chapter 6, Article II-A, Sections 6-45 and 6-46, to read as follows:

"**ARTICLE II-A. – INTERNATIONAL EXISTING BUILDING CODE, 2021 EDITION**

Sec. 6-45. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Existing Building Code, 2021 Edition and amendments, a copy of which is on file in the City Secretary's

Office and made a part of this article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.

Sec. 6-46. - Amendments.

The following sections of the International Existing Building Code, 2021 Edition and amendments, are hereby amended to read as follows:

Section [A] 102.4 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

"**[A] 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 Subsections [A] 102.4.1 and [A] 102.4.2. 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."

Sections [A] 104.2.1, [A] 104.2.2 and [A] 104.2.2.1 of the International Existing Building Code, 2021 Edition, are hereby deleted and are of no force and effect.

Section [A] 104.10.1 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 105.2 of the International Existing Building Code, 2021 Edition, is amended by deleting Building, items 1,4 and 6.

Section [A] 109.5 of the International Existing Building Code, 2021 Edition, is amended to add Subsection [A] 109.5.1 and [A] 109.5.2 to read as follows:

"**[A] 109.5.1 Reinspection.** Where any work or installation does not pass any initial inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for reinspection."

"[A] 109.5.2 Subsequent reinspection and testing. Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the Building Inspection Department prior to each subsequent reinspection."

Section [A] 110.1 of the International Existing Building Code, 2021 Edition, is amended by adding Subsection [A] 110.1.1 to read as follows:

"**[A] 110.1.1 Change in tenancy or ownership.** It shall be unlawful to make a change in tenancy or ownership of any existing building or lease space without first making application for and obtaining approval for a certificate of occupancy."

Section [A] 112 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

"[A] 112.1 Application for appeal. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section 202 of the International Existing Building Code, 2021 Edition, is amended by revising the following definitions to read as follows:

"**[A] 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; or a change of occupancy."

"**[A] 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; or a change of occupancy."

Section 306.1 of the International Existing Building Code, 2021 Edition, is amended to add Exceptions 1 and 2 to read as follows:

"306.1 Scope. {remainder of text unchanged}.

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 incompliance with the requirements of this section.

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 306.5.1 of the International Existing Building Code, 2021 Edition, is 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.

8. 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 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 405.2.6 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 406.1 of the International Existing Building Code, 2021 Edition, is amended to read 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 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 503.2 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [BE] 504.1.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 506.1 of the International Existing Building Code, 2021 Edition, is amended by adding Subsection 506.1.1.2 to read as follows:

"**506.1.1.2 Change in tenancy or ownership.** It shall be unlawful to make a change in tenancy or ownership of an existing building or lease space without first making application for and obtaining approval for a certificate of occupancy."

Section 507.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 701.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 702.4 of the International Existing Building Code, 2021 Edition, is amended to add Exception 2 to read as follows:

"702.4 Window opening control devices on replacement windows. {remainder of text unchanged.

Exceptions:

1. {remainder of text unchanged}.

2. Operable windows with openings that are provided with window fall protections that comply with ASTM F2090."

Section 702.7 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

"**702.7 Materials and methods.** All new work shall comply with the materials and methods requirements as amended and adopted 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 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

"**802.5.1 Minimum requirement.** Every portion of open-sided walking surfaces, including mezzanines, equipment platforms, aisles, stairs, ramps and landings that are 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 803.3 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

"**803.3 Standpipes.** Refer to Section 1103.6 of the International Fire Code for retroactive standpipe requirements. {remainder of section deleted}."

Section 804.2; Exception 1 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 804.4.1.2 of the International Existing Building Code, 2021 Edition, is 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 constructed fire escape complying with Section 804.4.1.2.1 shall be accepted as providing one of the required means of egress."

Section 804.4.1.2.1 of the International Existing Building Code, 2021 Edition, Exceptions 2 and 5 are amended to read as follows, and Exception 3 is hereby deleted and is of no force and effect:

"804.4.1.2.1 Fire escape access and details.

1. {remainder of text unchanged}.

2. Access to a fire escape shall be through a door {remainder of section unchanged}.

3. [Deleted]

4. {remainder of text unchanged}.

5. In all building of Group E occupancy up to and including the 12th grade, building 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 of the International Existing Building Code, 2021 Edition is amended by 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 of text unchanged}."

Section 1001.2 of the International Existing Building Code, 2021 Edition is amended by adding Subsection 1001.2.3 to read as follows:

"**1001.2.3 Change in tenancy or ownership.** It shall be unlawful to make a change in tenancy or ownership of an existing building or lease space without first making application for and obtaining approval for a certificate of occupancy."

Section 1103.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1201.4 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1301.3.2 of the International Existing Building Code, 2021 Edition, is 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 and the provisions of the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance, shall apply to existing structures and premises; equipment and facilities; light, ventilation, space heating, sanitation, life

and fire safety, hazards; responsibilities of owners, operators and occupant; and occupancy of existing premises and structures. All references to the International Property Maintenance Code shall hereafter read the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance Code."

Section 1301.3.3 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section 1401.2 of the International Existing Building Code, 2021 Edition, is amended to read as follows:

"1401.2 Conformance. The building shall be safe for human occupancy as determined by the International Fire Code and the City of Richardson Code of Ordinances, Chapter 6, Article VIII, Property Maintenance Code.

Any repair, alteration or change of occupancy undertaken within the moved structure shall comply with the requirements of this code applicable to the work being performed. Any field-fabricated elements shall comply with the requirements of the International Building Code or the International Residential Code as applicable."

Section [BS] 1402.6 of the International Existing Building Code, 2021 Edition, is hereby deleted and is of no force and effect.""

SECTION 8. That the Code of Ordinances of the City of Richardson, Texas, be and the same is hereby amended by amending Chapter 6 in part to add Article II-B, Sections 6-47 and 6-48, to read as follows:

"ARTICLE II-B. – INTERNATIONAL SWIMMING POOL AND SPA CODE, 2021 EDITION

Sec. 6-46. - Adopted.

There is hereby adopted by the City of Richardson, Texas, the International Swimming Pool and Spa Code, 2021 Edition and amendments, a copy of which is on file in the City Secretary's Office and made a part of this article for all purposes, the same as if copied in full herein, with the exception of such sections thereof as are hereinafter deleted, modified or amended.

Sec. 6-47. - Amendments.

The following sections of the International Swimming Pool and Spa Code, 2021 Edition and amendments, are hereby amended to read as follows:

Section [A]101.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

"**[A] 101.1 Title.** These regulations shall be known as the Richardson Swimming Pool and Spa Code, and shall be cited as such and will be referred to herein as "this code".

Section [A] 102.9 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

"[A] 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.

   Exception: Private 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.

   Exceptions:

   1. Private pools serving one- and two-family dwellings or townhouses.

   2. 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 "[A]103.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

"[A] 103.1 Creation of enforcement agency. The City of Richardson Building Inspection Department is hereby created and the official in charge thereof shall be known as the building official in accordance this code, local and state law. The City of Richardson Health Department is hereby created and the official in charge thereof shall be known as the director of health or designated representative for operation and maintenance of any public swimming pool in accordance with this code, local and state law."

Section [A] 106.16 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add Subsection [A] 106.16.1 read as follows:

"[A] 106.16.1 Subsequent reinspection and testing. Where any work or installation does not pass a retest or reinspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the code official for a subsequent reinspection. A fee shall be paid to the official department thereof for each subsequent reinspection."

Section [A] 113.4 of the International Swimming Pool and Spa Code, 2021 Edition, is hereby deleted and is of no force and effect.

Section [A] 107.5 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

Section [A] 111.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

"[A] 111.1 Application for appeal. In order to hear and decide appeals of orders, decisions or determinations made by the code official relative to the application and interpretation of this code, there shall be and is hereby created a board of adjustment. The board of adjustment shall be appointed and shall hold office in accordance with City of Richardson Code of Ordinances, Appendix A – Comprehensive Zoning Ordinance of 1956, Article XXV. – Board of Adjustment. {all remaining sections deleted}."

Section 202 of the International Swimming Pool and Spa Code, 2021 Edition, is amended by adding or amending the following definitions to read as follows:

"**DIRECTOR OF HEALTH OR DESIGNATED REPRESENTATIVE** regulates the operation of public pools. Routine inspections on pools and spas open to the public are conducted to document compliance with the standards set forth in State law."

Section 303.1.3 of the International Swimming Pool and Spa Code, 2021 Edition, is deleted and of no force or effect.

Section 304 of the International Swimming Pool and Spa Code, 2021 Edition, is deleted and of no force or effect.

Section 305.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended 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. {remainder of text deleted.}"

Section 305.1.1 of the International Existing Building Code, 2021 Edition is deleted and is of no force and effect.

Section 305.2 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

"**305.2 Outdoor swimming pools and spas.** Outdoor pools and spas and indoor swimming pools shall be surrounded by a barrier that complies with this code as amended or adopted, the City of Richardson Code of Ordinances, Chapter 6, Article IV - Fences, Section 6-212 and in accordance with the Texas Administrative Code, Texas Health and Safety Code 757 for public pools."

Sections 305.2.1 through 305.2.6 of the International Swimming Pool and Spa Code, 2021 Edition, are deleted and of no force or effect.

Section 305.3.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended as follows:

"**305.3.1 Utility or service gates.** Gates not intended for pedestrian use, such as utility or service gates, shall remain locked and utilize a self-closing, latching device."

Section 305.4 of the International Swimming Pool and Spa Code, 2021 Edition, is amended by deleting item 5.

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

1. {existing text unchanged}.

2. {existing text unchanged}.

3. {existing text unchanged}.

4. {existing text unchanged}.

5. {deleted}."

Section 305.6 of the International Swimming Pool and Spa Code, 2021 Edition, is 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."

Sections 307.1.4 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add an exception as follows:

"307.1.4 Accessibility. {remainder of text unchanged}.

> **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 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add Subsection 307.2.2.2 to read as follows:

"307.2.2.2 Adjacency to structural foundations. Depth of the swimming pool and spa shall maintain a ratio of 1:1 measured from the nearest building foundation or footing of a retaining wall.

Exception: An engineered design by a Texas-registered engineer shall be submitted for approval."

Section 310.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

"310.1 General. Suction entrapment avoidance for pools and spas shall be provided in accordance with APSP 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."

Section 402.12 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

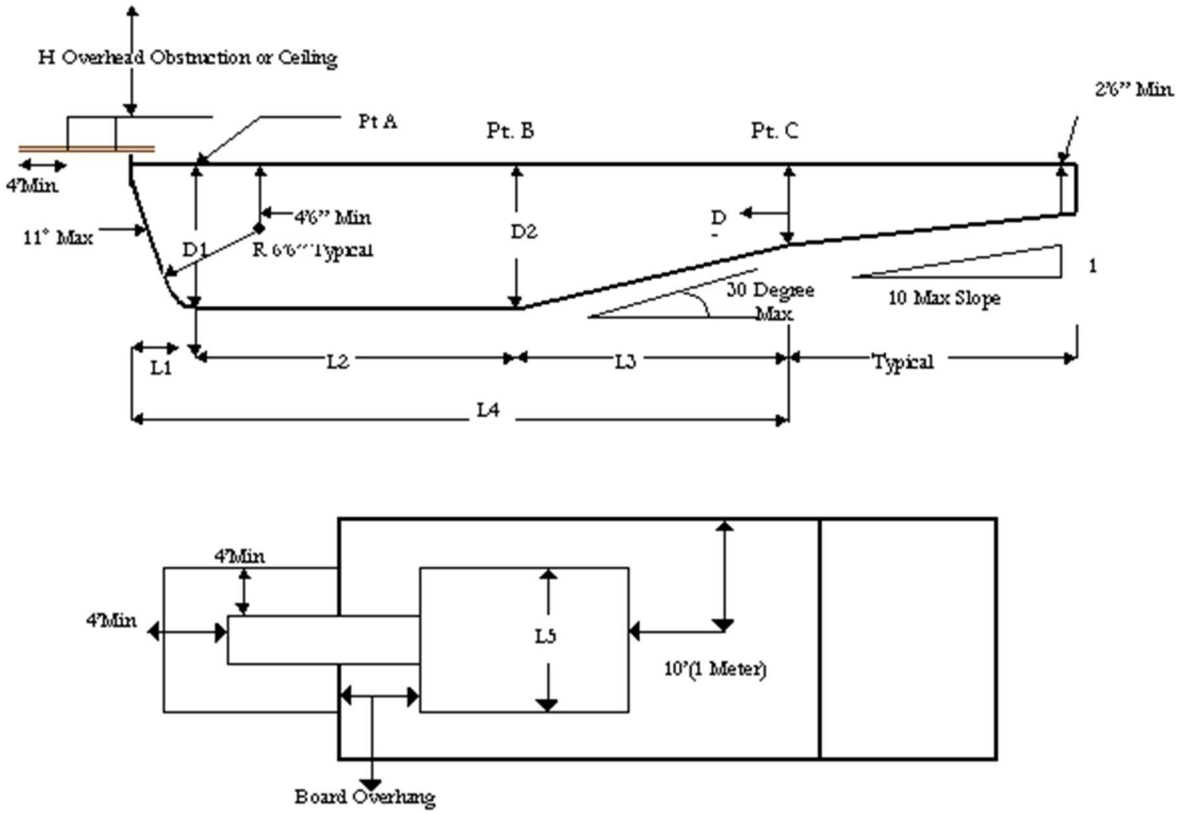
"**402.12 Water envelopes.** The minimum diving water envelopes shall be in accordance with Texas Department of State Health Services, Administrative Code Title 25, Chapter 265, Section 186 (e) and Figure: 25 TAC 256.186 (e) (6)."

Section 402.12 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to add Figure: 25 TAC §265.186 (e) (6) to read as follows:

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.



Sections 411.2.1 & 411.2.2 of the International Swimming Pool and Spa Code, 2021 Edition, are amended to read as follows:

"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."

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

Sections 411.5.1 & 411.5.2 of the International Swimming Pool and Spa Code, 2021 Edition, are amended to read as follows:

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

1. {existing text unchanged}.

2. {existing text unchanged}.

3. {existing text 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. {existing text unchanged}.

2. {existing text unchanged}.

3. {existing text unchanged}.

4. {existing text 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. {existing text unchanged}.

7. {existing text unchanged}."

Section 610.5.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended 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 804.1 of the International Swimming Pool and Spa Code, 2021 Edition, is amended to read as follows:

"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."‟

SECTION 9. That all provisions of the Code of Ordinances of the City of Richardson, Texas, in conflict with the provisions of this Ordinance be, and the same are hereby, repealed and

all other provisions not in conflict with the provisions of this Ordinance shall remain in full force and effect.

SECTION 10. That an offense committed before the effective date of this Ordinance is governed by the prior law and provisions of the Code of Ordinances, as amended, in effect when the offense was committed, and the former law is continued in effect for this purpose.

SECTION 11. That should any word, phrase, section, or portion of this Ordinance or of the Code of Ordinances, as amended hereby, be held to be void or unconstitutional, the same shall not affect the validity of the remaining portions of said Ordinance or the Code of Ordinances, as amended hereby, which shall remain in full force and effect.

SECTION 12. That any person, firm or corporation violating any of the provisions or terms of this Ordinance shall be subject to the same penalty as provided for in the Code of Ordinances of the City of Richardson, as heretofore amended, and upon conviction shall be punished by a fine not to exceed the sum of Two Thousand Dollars ($2,000.00) for each offense; and each and every day such violation shall continue shall be deemed to constitute a separate offense.

SECTION 13. That this Ordinance shall become effective from and after its passage and the publication of the caption, as the law and charter in such cases provide.

DULY PASSED by the City Council of the City of Richardson, Texas, on the _____ day of March 2023.

APPROVED:

_____
MAYOR

APPROVED AS TO FORM:

_____
CITY ATTORNEY
(PGS:4-13-23:TM 134020)

CORRECTLY ENROLLED:

_____
CITY SECRETARY

RICHARDSON TEXAS

City Council Worksession
Agenda Item Summary

Worksession Meeting Date:	Monday, April 17, 2023
Agenda Item:	Review and Discuss the 2023 Spring Cottonwood Art Festival
Staff Resource:	Lori Smeby, Director of Parks and Recreation Yvonne Falgout, Assistant Director of Recreation, Athletics, Aquatics and Events Dianna Lawrence, Superintendent of Community Events
Summary:	City staff will provide an overview of the 2023 Spring Cottonwood Art Festival
City Council Strategic Goals:	This agenda item helps further the following City Council Strategic Goals: • Value, protect, and create a positive return on City, resident, and other stakeholder investments in the City
Background Information:	Held twice per year in the spring and fall, the award-winning Cottonwood Art Festival will celebrate its 54th anniversary May 6 – 7, 2023. Staff will brief City Council on the festival's featured artist, activities, entertainment, and programs that make Cottonwood one of the top fine arts festivals in the country.
Financial Implications:	Expenditures for the Cottonwood Art Festival are included in the FY2022-2023 General Fund Budget.

RICHARDSON
TEXAS

MEMO

DATE: **April 10, 2023**

TO: **Todd Gastorf – Assistant Director of Finance**

FROM: **Lisa TerMorshuizen – Purchasing Supervisor**

SUBJECT: **Award of Bid #68-23 for Purchase of Network Replacement Equipment for Temporary City Hall to Insight Public Sector, Inc. in the amount of $114,170 pursuant to State of Texas Department of Information Resources ("DIR") Contract # DIR-TSO-4167**

Proposed Date of Award: April 17, 2023

I concur with the recommendation of Ed Snavely – Information Technology Deputy Chief Information Officer and Dan Steege – Information Technology Chief Information Officer, and request permission to issue a purchase order for Network Replacement Equipment for Temporary City Hall to Insight Public Sector, Inc. in the amount of $114,170, as provided in the attached quote.

The above referenced equipment has been competitively bid through DIR Contract #DIR-TSO-4167. The City of Richardson is a member of DIR through its existing interlocal agreement for cooperative purchasing pursuant to Texas Government Code Section 791.025 and Texas Local Government Code Section 271.102.

Funding is provided from the General Special Projects Fund.

Concur:

Todd Gastorf

ATTACHMENTS

RICHARDSON
TEXAS

MEMO

DATE: April 10, 2023

TO: Lisa TerMorshuizen, Purchasing Supervisor

FROM: Ed Snavely, IT Deputy CIO EES
CC: Dan Steege, IT Chief Information Officer DSS

SUBJECT: Network Replacement Equipment for Temporary City Hall

Information Technology (IT) is recommending that City Council award a contract to Insight Public Sector, Inc. for the purchase of 10 Cisco Catalyst 9300 network switches, and associated components with 3-year warranty. We are also recommending the purchase of 20 Catalyst 9130AXI, which are wireless access points used to provide Wi-Fi to City staff.

These switches and Wi-Fi units are needed to provide data connectivity to City Hall and Library staff, that will be relocated to the new temporary City Hall, located at 2360 Campbell Creek Blvd.

The total purchase price is $114,170.

The funding for this effort is provided as follows:

Fire account funds provided for insurance purposes.

Project Name: Network Replacement Equipment for Temporary City Hall
Account Number: 3130-03-10-700-000-604399
Project Number: 313523

It is my recommendation that City Council approve the network equipment through Insight Public Sector, Inc. utilizing the State of Texas DIR contract (DIR-TSO-4167) at a purchase price of $114,170.

INSIGHT PUBLIC SECTOR SLED
2701 E INSIGHT WAY
CHANDLER AZ 85286-1930
Tel: 800-467-4448

SOLD-TO PARTY___10543197
CITY OF RICHARDSON
411 W ARAPAHO RD STE 106
RICHARDSON TX 75080-4544

SHIP-TO
CITY OF RICHARDSON
411 W ARAPAHO RD STE 106
RICHARDSON TX 75080-4544

Quotation	
Quotation Number:	0226111230
Document Date:	04-April-2023
PO Number:	
PO release::	
Sales Rep:	Nelly Cipriano
Email:	NELLY.CIPRIANO@INSIGHT.COM
Telephone:	+15143738513
Sales Rep 2:	Lisa Deangelo
Email:	LISA.DEANGELO@INSIGHT.COM
Telephone:	+15126912034

We deliver according to the following terms:

Payment Terms: Net 30 days
Ship Via: Federal Express/Ground
Terms of Delivery:: FOB DESTINATION
Currency: USD

Material	Material Description	Quantity	Unit Price	Extended Price
C9300-48U-E-RF	Cisco Catalyst 9300 - Network Essentials - switch - 48 ports - managed - rack-mountable CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 10039.95 Discount %: 50.000%	10	5,020.00	50,200.00
C9300-NW-E-48	Cisco Network Essentials - Term License - 48 ports Coverage Dates: 27-MAR-2023 - 27-MAR-2024 Lead time (days): 14 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	10	0.00	0.00
CAB-TA-NA	Cisco - power cable - IEC 60320 C15 to NEMA 5-15 - 8 ft Lead time (days): 14	10	0.00	0.00

	CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%			
C9300-DNA-E-48	Cisco Digital Network Architecture Essentials - Term License - 48 ports Coverage Dates: 27-MAR-2023 - 27-MAR-2024 Lead time (days): 14 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	10	0.00	0.00
C9300-DNA-E-48-3Y	Cisco Digital Network Architecture Essentials - Term License (3 years) - 48 ports Coverage Dates: 27-MAR-2023 - 27-MAR-2026 Duration (months) 36.00 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 1324.83 Discount %: 49.050%	10	675.00	6,750.00
CON-SNT-C93004UE	Cisco SMARTnet extended service agreement Duration (months) 36.00 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 2835.57 Discount %: 27.246%	10	2,063.00	20,630.00
C9130AXI-B-RF	Cisco Catalyst 9130AXI - wireless access point - Bluetooth, Wi-Fi 6 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 2138.64 Discount %: 49.173%	20	1,087.00	21,740.00
AIR-DNA-E	Cisco Aironet DNA Essentials - Term License - 1 license Coverage Dates: 27-MAR-2023 - 27-MAR-2024 Lead time (days): 3 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	20	0.00	0.00
AIR-DNA-E-3Y	Cisco Digital Network Architecture Essentials - Term License (3 years) - 1 license Coverage Dates: 27-MAR-2023 - 27-MAR-2026 Duration (months) 36.00 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167)	20	130.00	2,600.00

	MSRP: 266.15 Discount %: 51.155%			
PI-LFAS-AP-T	Cisco Prime Infrastructure Lifecycle and Assurance - Term License - 1 access point Coverage Dates: 27-MAR-2023 - 27-MAR-2024 Lead time (days): 6 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	20	0.00	0.00
PI-LFAS-AP-T-3Y	Cisco Prime Infrastructure Lifecycle and Assurance - Term License (3 years) - 1 device Coverage Dates: 27-MAR-2023 - 27-MAR-2026 Duration (months) 36.00 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	20	0.00	0.00
AIR-DNA-E-T	Cisco Aironet DNA Essentials - Term License - 1 access point Coverage Dates: 27-MAR-2023 - 27-MAR-2024 Lead time (days): 6 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	20	0.00	0.00
AIR-DNA-E-T-3Y	Cisco Digital Network Architecture Essentials - On-Premise Term License (3 years) - 1 tracker Coverage Dates: 27-MAR-2023 - 27-MAR-2026 Duration (months) 36.00 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	20	0.00	0.00
AIR-DNA-NWSTACK-E	Cisco Digital Network Architecture Perpetual Network Stack - Term License - 1 license Coverage Dates: 27-MAR-2023 - 27-MAR-2024 Lead time (days): 28 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167) MSRP: 0.00 Discount %: 0.000%	20	0.00	0.00
C9300-NM-8X-RF	Cisco Catalyst 9300 Series Network Module - expansion module - 10 Gigabit SFP+ x 8 CISCO AGENT - STATE OF TEXAS DIR PRODUCTS AND SERVICES(# DIR-TSO-4167)	10	1,225.00	12,250.00

	MSRP: 2413.01 Discount %: 49.234%			

Product Subtotal	93,540.00
Services Subtotal	20,630.00
TAX	0.00
Total	114,170.00

Thank you for choosing Insight. Please contact us with any questions or for additional information about Insight's complete IT solution offering. Sincerely,

Nelly Cipriano
+15143738513
NELLY.CIPRIANO@INSIGHT.COM
Lisa Deangelo
+15126912034
LISA.DEANGELO@INSIGHT.COM
Fax 7372473728

Insight Global Finance has a wide variety of flexible financing options and technology refresh solutions. Contact your Insight representative for an innovative approach to maximizing your technology and developing a strategy to manage your financial options.

This purchase is subject to Insight's online Terms of Sale unless you have a separate purchase agreement signed by you and Insight, in which case, that separate agreement will govern. Insight's online Terms of Sale can be found at the "terms-and-policies" link below. SOFTWARE AND CLOUD SERVICES PURCHASES: If your purchase contains any software or cloud computing offerings ("Software and Cloud Offerings"), each offering will be subject to the applicable supplier's end user license and use terms ("Supplier Terms") made available by the supplier or which can be found at the "terms-and-policies" link below. By ordering, paying for, receiving or using Software and Cloud Offerings, you agree to be bound by and accept the Supplier Terms unless you and the applicable supplier have a separate agreement which governs. https://www.insight.com/terms-and-policies

Insight PUBLIC SECTOR

Quotation
Sales Doc : 0226111230
Document Date : 04-April -2023

RICHARDSON
TEXAS

MEMO

DATE: **April 10, 2023**

TO: **Todd Gastorf – Assistant Director of Finance**

FROM: **Lisa TerMorshuizen – Purchasing Supervisor**

SUBJECT: **Award of Bid #69-23 for Purchase of Session Initiation Protocol (SIP) Project to Granite Telecommunications, LLC in the amount of $197,305.56 pursuant to OMNIA Partners Contract #R200901**

Proposed Date of Award: April 17, 2023

I concur with the recommendation of Ed Snavely – Information Technology Deputy Chief Information Officer and Dan Steege – Information Technology Chief Information Officer, and request permission to issue a contract for the Session Initiation Protocol (SIP) Project to Granite Telecommunications, LLC in the amount of $197,305.56, as provided in the attached quote.

The above referenced service has been competitively bid through OMNIA Contract #R200901. The City of Richardson is a member of OMNIA Partners through its existing interlocal agreement for cooperative purchasing pursuant to Texas Government Code Section 791.025 and Texas Local Government Code Section 271.102.

Funding is provided from the General Fund.

Concur:

Todd Gastorf

ATTACHMENTS

RICHARDSON
TEXAS

MEMO

DATE: April 10, 2023

TO: Lisa TerMorshuizen, Purchasing Supervisor

FROM: Ed Snavely, IT Deputy CIO ECS
CC: Dan Steege, IT Chief Information Officer DJS

SUBJECT: Session Initiation Protocol (SIP) Project

Information Technology (IT) is recommending that City Council award a contract to Granite Telecommunications, LLC to replace phone circuits approaching end-of-life at the Police Department (PD) and City Hall as part of a SIP project. Phone services had been provided directly by AT&T, however due to the City Hall fire, the circuit and hardware at this location is currently non-functional. This puts the City at half capacity for phone service and lack of redundancy for Internet. This was discussed via the Information Technology presentation to City Council on March 20 and now we are seeking permission to proceed with purchase.

This service has the potential of saving the City of Richardson considerably on its monthly phone bill while expanding services and increasing Internet speed from 1 Gigabit to 5 Gigabit.

The installation will be done at two locations, PD and the Emergency Operation Center (replacing the City Hall location) providing greater redundancy and reliability.

The total purchase price for 3 years is $197,305.56.

Funds provided:

Project Name: SIP Project
Account Number: 0110-03-10-700-000-675301

It is my recommendation that City Council approve the purchase of the phone service replacement through Granite Telecommunications, LLC utilizing the Omnia Contract #R200901 at a purchase price of $197,305.56.

Summary of Charges for SIP Project

Product	Monthly	Annually	3 Yr Term	
PIP - 200 N. Greenville	$ 630.00	$ 7,560.00	$ 22,680.00	Number of concurrent calls that can be placed
PIP - 1621 E Lookout	$ 630.00	$ 7,560.00	$ 22,680.00	Number of concurrent calls that can be placed
5GB DIA - 1621 E Lookout	$ 2,056.00	$ 24,672.00	$ 74,016.00	Internet Pipe
10G-8C32R - 1621 E Lookout	$ 123.99	$ 1,487.88	$ 4,463.64	Hardware for internet
Voice - 200 N Greenville	$ 770.36	$ 9,244.32	$ 27,732.96	SIP Trunk lines for voice
Voice - 1621 E Lookout	$ 770.36	$ 9,244.32	$ 27,732.96	SIP Trunk lines for voice
Long Distance - Pooled	$ 500.00	$ 6,000.00	$ 18,000.00	Long Distance 40,000 minutes per month @ $500
Total	$ 5,480.71	$ 65,768.52	$ 197,305.56	

EXHIBIT "A"

Granite

Path to Partnership

WO: 219311

City of Richardson

Quote Expires:
7/10/2023

Granite

Granite is the nation's largest CLEC. Since our founding in 2002, Granite has experienced industry-leading growth while specializing in dedicated business-to-business customer support and the consolidation of communications services. Our customers trust us with 1.4 million voice and data lines servicing their critical locations in retail, finance, real estate, hospitality, and more. We count over 85 of the Fortune 100 among our customers, including eight of the Top Ten US Retailers in the Forbes Global 2000.

Access Services

From small business to enterprise networks, Granite offers access solutions tailored to your business needs. Our nationwide network offers bandwidth from 1.5Mb to 10GB for Dedicated Internet Access, MPLS and Granite Switched Ethernet. With over 35 vendor partnerships Granite is able to meet virtual and physical diversity requirements, covering the entire US and Canada, while keeping all services on one bill with one contact.

Consolidated Billing

Never sort through multiple phone bills again. Simplify payment with Granite's consolidated billing. All of your business' locations can be on a single invoice.

Service Providers

Granite is bonded to service providers across North America, including Verizon, AT&T, CenturyLink, Frontier, FairPoint, Windstream, Cincinnati Bell, Telus, and Bell Canada. We are e-bonded with all the major carriers, allowing us to place orders and manage any moves, adds, and changes for your business.

DIA (T1, Ethernet, EoC)

All services are subject to the Terms and Conditions of Service set forth on Granite's website. This Quote contains confidential and proprietary information.

Hosted PBX

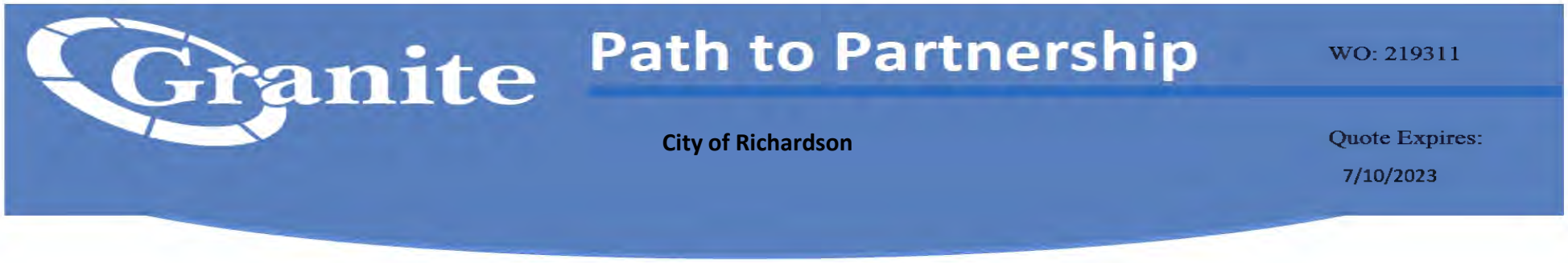
1. For each Hosted PBX seat, the MRC per seat includes local and long distance usage.
2. Includes cost of all hardware and phones
3. See attached disclosure form for additional details.
4. All services are subject to the Terms and Conditions of Service set forth on Granite's website. This Quote contains confidential and proprietary information.

GSE

Granite's privately owned and managed switched Ethernet network is the perfect business solution for small business to enterprise clientele. Built on a redundant nationwide backbone the Granite Switched

SIP

1. See attached disclosure form for additional details.
2. All services are subject to the Terms and Conditions of Service set forth on Granite's website. This Quote contains confidential and proprietary information.



Pricing Breakdown by Location

3 Years - PIP FE - 30Mbps

Address	Product	QTY	Term	Carrier	Activation Fee	Access MRC
200 N Greenville Ave Richardson, TX 75081	PIP FE - 30Mbps	1	3 Years	ATT	$0.00	$630.00
1621 E Lookout Dr Richardson, TX 75082	PIP FE - 30Mbps	1	3 Years	ATT	$0.00	$630.00
Access Total		**2**				**$1,260.00**

THIS QUOTE IS AN ESTIMATE. Pricing is subject to change and is intended to be used for analysis purposes only. All services are subject to the Terms and Conditions of Service set forth on Granite's website. This Quote contains confidential and proprietary information.

Granite

Path to Partnership

WO: 219311

City of Richardson

Quote Expires:
7/10/2023

Pricing Breakdown by Location

3 Years - DIA GE - 5Gbps

Address	Carrier	Product	QTY	Term	IP MRC	Activation Fee	Access MRC	Access NRC
1621 E Lookout Dr Richardson, TX 75082	ATT	DIA GE - 5Gbps	1	3 Years	$25.00	$0.00	$2,031.00	$0.00
Access Total			**1**				**$2,056.00**	**$0.00**

THIS QUOTE IS AN ESTIMATE. Pricing is subject to change and is intended to be used for analysis purposes only. All services are subject to the Terms and Conditions of Service set forth on Granite's website. This Quote contains confidential and proprietary information.

Granite

Path to Partnership

WO: 219311

City of Richardson

Quote Expires:
7/10/2023

Equipment Pricing

Pricing Breakdown by Location

Rental Equipment Pricing

Address	Product Services	Qty	Term	MRC	Total MRC
1621 E Loookout Dr Richardson, TX 75082	10G-8C32R	1	3 Year	$123.99	$123.99
Location Total					**$123.99**
Rental Equipment Total					**$123.99**

Granite

Path to Partnership

WO: 219311

City of Richardson

Quote Expires:
7/10/2023

Voice Pricing

Voice Pricing						
Address	Product Services	Qty		MRC	Total MRC	Total NRC
200 N Greenville Ave Richardson, TX 75081	SIP Trunk		48	$9.90	$475.20	$0.00
	Direct Trunk Failover		1	$34.42	$34.42	$0.00
	SIP Portal Requested		1	$3.93	$3.93	$0.00
	DIDs		750	$0.29	$217.50	$0.00
	Network Access Charge		48	$0.00	$0.00	$0.00
	E-911		6	$0.00	$0.00	$0.00
	Proactive Ticketing		1	$9.83	$9.83	$0.00
	Advanced Monitoring		1	$29.48	$29.48	$0.00
Location Total					**$770.36**	**$0.00**
1621 E Lookout Dr Richardson, TX 75082	SIP Trunk		48	$9.90	$475.20	$0.00
	Direct Trunk Failover		1	$34.42	$34.42	$0.00
	SIP Portal Requested		1	$3.93	$3.93	$0.00
	DIDs		750	$0.29	$217.50	$0.00
	Network Access Charge		48	$0.00	$0.00	$0.00
	E-911		6	$0.00	$0.00	$0.00
	Proactive Ticketing		1	$9.83	$9.83	$0.00
	Advanced Monitoring		1	$29.48	$29.48	$0.00
Location Total					**$770.36**	**$0.00**
Voice Total					**$1,540.72**	**$0.00**
LD Total Pooled	40,000 min LD Package		1	$500.00	**$500.00**	

SIP LD Packages													
Minutes	500	1,000	2,500	5,000	10,000	20,000	40,000	50,000	75,000	100,000	150,000	200,000	300,000
Customer Price	$10.00	$18.00	$43.00	$80.00	$150.00	$280.00	$500.00	$650.00	$900.00	$1,100.00	$1,500.00	$1,800.00	$2,600.00
Overage	$.023	$.022	$.020	$.019	$.018	$.017	$.017	$.016	$.014	$.013	$.012	$.011	$.011

Network access charge will be waived. LD Package is pooled between sites. Non-adherent to single location.
THIS QUOTE IS AN ESTIMATE. Pricing is subject to availability.
All Services are subject to the General Terms and Conditions of Service set forth at www.granitenet.com.
The information contained herein is confidential and proprietary.
Some taxes, surcharges, regulatory fees and non-recurring charges may be included, additional may apply.
E-911 charges will be waived for this quote. Additioanl E-911's may be charged differently.

EXHIBIT "A"

Granite GOVERNMENT SOLUTIONS	**GOVERNMENT ACCOUNT FORM AND LETTER OF AGENCY** **Multi-Services**	Sales Rep: Order Date:	John Flynn 4/11/2023

CUSTOMER INFORMATION

Government Entity Name ("Customer"):	City of Richardson
Billing Telephone Number:	
Designated Contact:	
Contact Phone Number:	
Service Address (Street/Suite): See **Appendix A-1**	
Mailing/Billing Address (Street/Suite):	
City:	
State/Zip Code:	
Additional Comments/Notes (if any):	OMNIA Contract #R200901

AGREEMENT AND AUTHORIZATION

By signing this Government Account Form and Letter of Agency ("LOA"), Customer hereby (a) engages Granite Telecommunications, LLC and/or its affiliates ("Granite") to provide Services as set forth in **Appendix A**, attached hereto and incorporated herein, and such other Services as Customer may order from time to time after the date hereof and (b) authorizes and appoints Granite to act as its agent solely for the purposes of handling all arrangements for establishing, converting, ordering, changing and/or maintaining such Services, and to take such other actions as are reasonably necessary to provide such Services and as Customer may request from time to time. Customer directs its current service provider(s), if any, to work with Granite to affect these changes.

Customer agrees to all of the Terms and Conditions of Service as set forth at www.granitenet.com/legal (as such may be modified from time to time, the "Terms of Service"), including, without limitation, the additional terms and conditions of service specifically applicable to a specific service.

Services under this Agreement shall be for 3 years. Customer may cancel services at any time given 30 (thirty) days written notice.

The Terms of Service set forth rights and responsibilities of Customer and Granite concerning Services to be provided and in regards to other important topics. If Customer does not agree to the Terms of Service, the authorized representative of Customer should not sign this LOA. All terms and conditions of the Terms of Service are incorporated herein by reference. ***The Customer Disclosures attached hereto are an integral part of this LOA. This LOA is confidential and may not be disclosed to third parties except as required by applicable law.***

SIGNATURE

The undersigned is authorized to sign on behalf of Customer and Customer agrees to be bound by the Terms of Service. This LOA is effective as of the date of execution below.

Customer:

By: _____

Print Name: _____

Title: _____

Date: _____

Signing this Government Account Form and Letter of Agency will result in a change of service provider(s).

CUSTOMER DISCLOSURES INTERNET BASED SERVICES

Customer acknowledges and agrees that certain Internet Based Services (which for purposes of this Customer Disclosure, includes, but is not limited to, Hosted PBX, SIP Trunking, SIP PRI, Hosted Voice, Virtual Auto Attendant and Virtual Voicemail Services), ordered through Granite may not operate in the same manner as traditional wireline phone service and that the following terms and conditions apply with respect to such Internet-Based Services: (a) such services are designed only for use with a compatible PBX or similar advanced telephone system; (b) such services only support Granite's local, intralata toll, interstate long distance and international voice services;

(c) such services DO NOT support auto dialers, predictive dialers, telemarketing applications, modems, credit card process, heavy faxing lines and elevator lines (only POTS lines should be used for these purposes); (d) a qualified vendor must install the equipment and service at Customer's sole expense and Granite will not process any order without a qualified vendor involved in the installation process; and (e) Granite requires that Customer provide a complete list of all phone numbers to be ported, any numbers omitted from the list may result in those numbers not being ported at the time of circuit turn-up. Granite will attempt to retrieve CSRs from the existing carrier(s), but cannot guarantee its ability to obtain such CSRs. Customer agrees to provide Granite with complete CSRs, if requested.

CUSTOMER ACKNOWLEDGES AND AGREES THAT SOME OF THE SERVICES PROVIDED BY GRANITE ARE INTERNET-BASED SERVICES AND THAT 911 SERVICES ON INTERNET-BASED SERVICES ARE DIFFERENT THAN THAT OF TRADITIONAL WIRELINE SERVICE. FOR BASIC 911 OR E911 TO BE ACCURATELY ROUTED TO THE APPROPRIATE EMERGENCY RESPONDER, CUSTOMER MUST PROVIDE GRANITE WITH THE TELEPHONE NUMBER(S) ASSOCIATED WITH SUCH INTERNET-BASED SERVICES FOR THE REGISTERED ADDRESS.

CUSTOMER ACKNOWLEDGES THAT INTERNET-BASED SERVICES PROVIDED BY GRANITE MAY NOT SUPPORT BASIC 911 OR E911 DIALING IN THE SAME MANNER AS TRADITIONAL WIRELINE PHONE SERVICE. CUSTOMER AGREES TO INFORM THIRD PARTIES OF THE POTENTIAL COMPLICATIONS ARISING FROM BASIC 911 OR E911 DIALING. SPECIFICALLY, CUSTOMER ACKNOWLEDGES AND AGREES TO INFORM ALL EMPLOYEES, GUESTS, AND OTHER THIRD PERSONS WHO MAY USE SUCH INTERNET-BASED SERVICES THAT BASIC 911 AND E911 SERVICES WILL NOT FUNCTION IN THE CASE OF A SERVICE FAILURE FOR ANY OF THE FOLLOWING REASONS: (A) POWER FAILURES; (B) SUSPENDED OR TERMINATED INTERNET ACCESS SERVICE; (C) SUSPENSION OF SERVICES DUE TO BILLING ISSUES; AND/OR (D) ANY OTHER SERVICE OUTAGES NOT DESCRIBED HEREIN. CUSTOMER FURTHER ACKNOWLEDGES AND AGREES THAT FAILURE TO PROVIDE A CORRECT PHYSICAL ADDRESS IN THE REQUISITE FORMAT MAY CAUSE ALL BASIC 911 OR E911 CALLS TO BE ROUTED TO THE INCORRECT LOCAL EMERGENCY SERVICE PROVIDER. FURTHERMORE, CUSTOMER RECOGNIZES THAT USE OF SUCH INTERNET-BASED SERVICES FROM A LOCATION OTHER THAN THE LOCATION TO WHICH SUCH SERVICE WAS ORDERED, I.E., THE "REGISTERED ADDRESS," MAY RESULT IN BASIC 911 OR E911 CALLS BEING ROUTED TO THE INCORRECT LOCAL EMERGENCY SERVICE PROVIDER. CUSTOMER IS REQUIRED TO REGISTER THE PHYSICAL LOCATION OF THEIR EQUIPMENT (I.E., IP PHONE, SOFTPHONE, DIGITAL TELEPHONE ADAPTER OR VIDEOPHONE, ETC.) WITH GRANITE AND AGREES TO UPDATE, AND PROVIDE PRIOR WRITTEN NOTICE TO, GRANITE OF THE LOCATION OF SUCH EQUIPMENT WHENEVER THE PHYSICAL LOCATION OF SERVICE FOR A PARTICULAR TELEPHONE NUMBER CHANGES.

TO THE EXTENT THAT GRANITE PROVIDES INTERNET-BASED SERVICES WHICH CUSTOMER UTILIZES FOR TRANSMISSION OF ALARM SYSTEM SIGNALS, CUSTOMER ACKNOWLEDGES THAT GRANITE IS NOT RESPONSIBLE FOR THE FUNCTIONALITY OF SUCH ALARM SYSTEMS AND SIGNALS. CUSTOMER UNDERSTANDS THAT INTERNET-BASED SERVICES ARE NOT INFALLIBLE. CUSTOMER SPECIFICALLY ACKNOWLEDGES THAT GRANITE DOES NOT REPRESENT OR WARRANT THAT THE TRANSMISSION OF ALARM SIGNALS WILL NOT BE INTERRUPTED, CIRCUMVENTED OR COMPROMISED. IF INTERNET BASED SERVICES ARE NOT OPERATIVE, NO ALARM SIGNALS CAN BE RECEIVED BY THE MONITORING STATION. CUSTOMER UNDERSTANDS THAT INTERNET-BASED SERVICES MAY BE IMPAIRED OR INTERRUPTED BY ATMOSPHERIC CONDITIONS, INCLUDING ELECTRICAL STORMS, POWER FAILURES OR OTHER CONDITIONS AND EVENTS BEYOND GRANITE'S CONTROL. THE USE OF INTERNET-BASED SERVICES MAY PREVENT FROM THE TRANSMISSION OF ALARM SIGNALS AT ANY TIME, AND/OR INTERFERE WITH THE TELEPHONE LINE-SEIZURE FEATURES OF CUSTOMER'S ALARM SYSTEM. IN THE EVENT CUSTOMER ELECTS TO USE INTERNET-BASED SERVICES FOR ALARM LINES; CUSTOMER IS RESPONSIBLE FOR HAVING THESE SERVICES TESTED BY AN AUTHORIZED ALARM INSPECTION COMPANY TO ENSURE SIGNAL TRANSMISSION FEATURES ARE OPERATIONAL. THESE FEATURES INCLUDE BUT ARE NOT LIMITED TO PROPER FUNCTIONING OF LINE SEIZURE AND THE SUCCESSFUL TRANSMISSION OF SIGNALS TO THE MONITORING STATION. CUSTOMER ACCEPTS FULL RESPONSIBILITY FOR ALARM SYSTEM COMPLIANCE WITH THE AUTHORITY HAVING JURISDICTION.

CUSTOMER ACKNOWLEDGES AND AGREES THAT CUSTOMER SHALL BEAR THE SOLE RESPONSIBILITY OF INFORMING THIRD-PARTIES OF POTENTIAL CALL RECORDING USING THE INTERNET-BASED SERVICES.

Initialed by Authorized Signer

_____

EXHIBIT "A"

Appendix A
Services Selected

☐ Voice Services (POTs, Long Distance, Local and LD T1 and PRI) (See Note 1)
☐ Broadband Services
☐ MPLS and/or Dedicated Internet Access Services
☐ VoIP Services (Hosted PBX, SIP Trunking, SIP PRI, Hosted Voice, Voice over Cable, Virtual Auto Attendant and Virtual Voicemail Services)
☐ Mobility Services (Mobility Data and Mobility Voice)
☐ Granite Grid Services
☐ Conferencing Services (Audio Conferencing and Web Conferencing)
☐ Managed Services
☐ Monitoring Services
☐ Other Services (List): _____

Note 1 : Unless otherwise noted herein, in addition to these rates and charges set forth in this LOA (a) certain other rates and charges may apply, as provided for by tariff, the FCC or other governmental entity, or other regulation or requirements and (b) Customer will pay to Granite all applicable taxes (including sales, use and excise taxes). In the event that Customer elects additional services, additional fees may apply. Customer acknowledges that it will be charged in accordance with the rates and plans listed on Appendix A-1, attached hereto and incorporated herein, plus any and all additional charges as may be set forth in the Terms of Service.

Note 2 : See quote and other documents attached hereto as Appendix A-1 for specific details related to Services ordered.

RICHARDSON
TEXAS

MEMO

DATE: **April 10, 2023**

TO: **Todd Gastorf – Assistant Director of Finance**

FROM: **Lisa TerMorshuizen – Purchasing Supervisor**

SUBJECT: **Award of Bid #70-23 for Purchase of Spectrum Network Service to Spectrum Enterprise in the amount of $91,800 pursuant to Michigan Collegiate Telecommunications Association ("MiCTA") Contract #HQ-MTG-75081-01**

Proposed Date of Award: April 17, 2023

I concur with the recommendation of Ed Snavely – Information Technology Deputy Chief Information Officer and Dan Steege – Information Technology Chief Information Officer, and request permission to issue a contract for Spectrum Network Service to Spectrum Enterprise in the amount of $91,800, as provided in the attached service order.

The above referenced service has been competitively bid through MiCTA Contract #HQ-MTG-75081-01. The City of Richardson is a member of MiCTA pursuant to Texas Local Government Code Section 271.102.

Funding is provided from the General Special Projects Fund.

Concur:

Todd Gastorf

ATTACHMENTS

RICHARDSON
TEXAS

MEMO

DATE: April 10, 2023

TO: Lisa TerMorshuizen, Purchasing Supervisor

FROM: Ed Snavely, IT Deputy CIO ECS
CC: Dan Steege, IT Chief Information Officer DS

SUBJECT: Spectrum Network Service

Information Technology (IT) is recommending that City Council award a contract to Spectrum Enterprise to extend network services between the Police Department (PD) and the new temporary City Hall due to the City Hall fire.

The installation will be done between two locations, the Police Department and the new temporary City Hall located at 2360 Campbell Creek Blvd.

The total purchase price for 3 years is $91,800.

The funding for this effort is provided as follows:

Fire account funds provided for insurance purposes.

Project Name: Spectrum Network Services
Account Number: 3130-03-10-700-000-604399
Project Number: 313523

It is my recommendation that City Council approve the purchase of the Spectrum Network Service through Spectrum utilizing the MiCTA Contract HQ-MTG-75081-01 at a purchase price of $91,800.

SERVICE ORDER

THIS SERVICE ORDER ("Service Order"), is executed and effective upon the date of the signature set forth in the signature block below ("Effective Date") and is by and between Charter Communications Operating, LLC on behalf of those operating subsidiaries providing the Service(s) hereunder ("Spectrum") and Customer (as shown below) and is governed by and subject to the Spectrum Enterprise Commercial Terms of Service posted to the Spectrum Enterprise website, https://enterprise.spectrum.com/ (or successor url) or, if applicable, an existing services agreement mutually executed by the parties (each, as appropriate, a "Service Agreement"). Except as specifically modified herein, all other terms and conditions of the Service Agreement shall remain unamended and in full force and effect.

Spectrum Enterprise Contact Information
Contact: Gary Carmichael Telephone: 2146624539 Email: gary.carmichael@charter.com

Customer Information		
Customer Name CITY OF RICHARDSON (HQ) - MTG_75081_01		Order # 13636255
Address 411 W ARAPAHO RD RICHARDSON TX 75080		
Telephone (972) 744-4052		Email: ed.snavely@cor.gov
Contact Name Ed Snavely	Telephone (972) 744-4052	Email: ed.snavely@cor.gov
Billing Address 411 W ARAPAHO RD RICHARDSON TX 75080		

NEW AND REVISED SERVICES AT 200 N Greenville Ave Unit PD, Richardson TX 75081				
Service Description	**Order Term**	**Quantity**	**Monthly Recurring Charge(s)**	**Total Monthly Recurring Charge(s)**
EPL 5Gbps	36 Months	1	$1,275.00	$1,275.00
Hub - ELINE Master	36 Months	1	$ 0.00	$ 0.00
TOTAL*				**$1,275.00**

NEW AND REVISED SERVICES AT 2360 Campbell Creek Blvd Unit STE 525, Richardson TX 75082				
Service Description	**Order Term**	**Quantity**	**Monthly Recurring Charge(s)**	**Total Monthly Recurring Charge(s)**
EPL 5Gbps	36 Months	1	$1,275.00	$1,275.00
Spoke	36 Months	1	$ 0.00	$ 0.00
TOTAL*				**$1,275.00**

ONE TIME CHARGE(S) AT 200 N Greenville Ave Unit PD, Richardson TX 75081			
Service Description	**Quantity**	**One Time Charge(s)**	**Total One Time Charge(s)**
Ethernet Fiber Install	1	$0.00	$ 0.00
TOTAL*			**$0.00**

ONE TIME CHARGE(S) AT 2360 Campbell Creek Blvd Unit STE 525, Richardson TX 75082			
Service Description	**Quantity**	**One Time Charge(s)**	**Total One Time Charge(s)**
Ethernet Fiber Install	1	$0.00	$ 0.00
TOTAL*			**$0.00**

1. **TOTAL CHARGE(S). Total Monthly Recurring Charges and Total One-Time Charges are due in accordance with the monthly invoice.**
2. **TAXES**. Plus applicable taxes, fees, and surcharges as presented on the respective invoice(s).
3. **SPECIAL TERMS**.

By signing below, the signatory represents they are duly authorized to execute this Service Order.

CUSTOMER SIGNATURE

Signature:_____

Printed Name:_____

Title:_____

Date:_____