



Town of Double Oak
Town Council –Public Meeting

Double Oak Town Hall
320 Waketon Road, Double Oak
TX 75077

Monday, August 2, 2021
7:00 p.m.

*OUT OF RESPECT FOR ALL THOSE IN ATTENDANCE, PLEASE REFRAIN FROM
TALKING TO OTHER MEMBERS OF THE AUDIENCE DURING THE MEETING*

- I. Opening: Call to Order
Roll Call
Invocation
Pledge of Allegiance – American Flag
Pledge of Allegiance – Texas Flag

*“Honor the Texas flag; I pledge allegiance to thee, Texas, one state under God, one
and indivisible.”*

II. Citizen Comments

- III. Consent Agenda - All consent agenda items listed are considered to be routine by the Town Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council Member so requests, in which event the item will be removed from the Consent Agenda and considered in its normal sequence on the agenda. Information concerning consent agenda items is available for public review.

1. Consideration, and action on minutes of July 19, 2021. *

Mayor, Council Members and Staff reports:

2. Mayor and Council
3. Public Works - Code Enforcement – Animal Control *
4. Administration
5. Public Safety
6. Road and Drainage Committee

V. New business agenda (consideration and action):

7. Discussion, consideration, and action on approving an invoice from Datamax in the amount of \$2,490.60 for a Sonicwall Total Secure TZ470 Firewall *

Presentation:

Administrative Town Clerk Brian Shults

8. Discussion, consideration, and action on an ordinance adopting the 2018 Edition International Residential, Energy Conservation, Mechanical, Plumbing, Private Sewage Disposal, Fuel Gas, Property Maintenance Code, and the 2017 Edition of the National Electrical Code, together with amendments to each of said codes; adopt the provisions of the 2018 edition of the International Fire Code, together with amendments to said code; adopt the provisions of the fifth edition (2017) of the Public Works Construction Standards North Central Texas promulgated by the North Central Texas Council of Governments; providing a repealing clause; providing a savings clause; providing a severability clause; providing for a penalty of fine not to exceed the sum of two thousand (\$2,000.00) dollars for each offense; and providing for an effective date. *

Presentation: Assistant Town Secretary Lynn Jones

9. Discussion, consideration, and action on a resolution for the appointment of one member as the Town's representative on the Upper Trinity Regional Water District (UTRWD) Board of Directors. *

Presentation: Mayor Von Beougher

10. Discussion on revisions to the Fee Schedule. *

Presentation: Council Member Casey Parsons

11. Discussion on 2021-2022 fiscal year budget and tax rate. *

Presentation: Town Treasurer Billie Garrett

12. Council – staff announcements and comments:

- Deborah Schmidt will have her 19-year anniversary with Double Oak on August 8th
- Lonnie Sneed will have his 5-year anniversary with Double Oak on August 8th
- Michael Wyman will have his 15-year anniversary with Double Oak on August 21st

13. Adjournment

As authorized by Section 551.071 of the Texas Government Code, this meeting may be convened into closed Executive Session for the purpose of seeking confidential legal advice from the Town Attorney, or on any other item covered under the code, on any agenda item listed herein.

The Town of Double Oak reserves the right to reconvene, recess or realign the Regular Session or called Executive Session or order of business at any time prior to adjournment.

I certify that the above notice of meeting was posted by Friday, July 30, 2021, by 4:00 p.m. on:

- 1) Bulletin boards located in the Town Hall Parking Lot at 320 Waketon Road, Double Oak, Texas
- 2) On the Town's website (<https://doubleoak.texas.gov>)

Lynn Jones

Assistant Town Secretary

PUBLIC PARTICIPATION If you wish to address the Council, please sign the "CITIZENS WHO WISH TO SPEAK TO THE TOWN COUNCIL" sheet before the meeting begins. Pursuant to Section 551.007 of the Texas Government Code, citizens wishing to address the Council for items listed as public hearings will be recognized when the public hearing is opened. For citizens wishing to speak on a non-public hearing item, they may either address the Council during the Citizen Comments portion of the meeting or when the item is considered by the Town Council.

This facility is wheelchair accessible and accessible parking spaces are available. Requests for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact the Town Secretary's office at 972.539.9464, fax 972.539.9613 or email to eileen.kennedy@doubleoak.texas.gov for additional information.

* Backup attached

UNAPPROVED-NOT FOR PUBLICATION

STATE OF TEXAS
COUNTY OF DENTON
TOWN OF DOUBLE OAK

The Double Oak Town Council met in a regular session at 7:00 p.m. July 19, 2021, with the following members present to-wit:

Von Beougher	Mayor
Billie Garrett	Mayor Pro-Tem
Anita Nelson	Deputy Mayor Pro-Tem
Scott Whisenhunt	Council Member
Joe Dent	Council Member
Casey Parsons	Council Member

Town Secretary Eileen Kennedy, Administrative Clerk Brian Shults, Police Chief Ruben Rivas, and Assistant Police Chief Cassandra Gaines were also in attendance.

The Mayor called the meeting to order at 7:00 p.m.

Council Member Dent gave the invocation and Council Member Whisenhunt led the Pledge of Allegiance to the American and Texas flags.

II. Citizens comments

Phyllis Meyerson, 133 East View Court, thanked the DOPD for giving assistance when she had a flat tire.

Carl White, 108 Royal Oaks Dr., voiced his complaints regarding parking and trash behind his house.

III. Consent Agenda - All consent agenda items listed are considered to be routine by the Town Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council Member so requests, in which event the item will be removed from the Consent Agenda and considered in its normal sequence on the agenda. Information concerning consent agenda items is available for public review.

1. Consideration on minutes of July 6, 2021.
2. Consideration, and action on an Interlocal Cooperation Agreement for Property Tax Assessment and Collection with Denton County.

Motion Nelson, second Garrett to approve the Consent Agenda as presented.

AYE: Garrett, Dent, Nelson, Parsons, Whisenhunt
NAY: None
ABSTAIN: None

Motion carried

IV. Mayor, Council Members and Staff reports:

3. Mayor and Council - None

4. Public Works - Code Enforcement – Animal Control – None

5. Administration

Town Secretary Eileen Kennedy reported the CLFRF funds application is due to the State by August 2nd.

6. Public Safety

DOVFD Fire Chief Whisenhunt reported the DOVFD received a 2 ISO rating.

DOPD Police Chief Rivas reported Officer Eric Tolliver resigned and actively seeking a replacement.

7. Road and Drainage Committee

Mayor Beougher commented streets for crack sealing is still to be determined.

V. New business agenda (consideration and action):

8. Discussion, consideration, and action on fiscal year 2019-2020 health insurance plan.

Rodney Dryden, Wellspring Insurance Agency, gave an overview of the options for health, dental, vision, LTD/STD, and life insurance plans for the town's employees.

Motion Whisenhunt, second Dent to approve Mr. Dryden's recommendation to renew the medical insurance with TML, Alternate plan 1, TML EyeMed for vision, and MetLife for dental, life, and LTD/STD.

AYE: Parsons, Garrett, Dent, Whisenhunt, Nelson,
NAY: None
ABSTAIN: None

Motion carried

9. Discussion, consideration, and action on replacement of guardrail on Kings Road west of Lake Trail Drive.

Motion Dent, second Whisenhunt to approve Comen Enterprise to replace the guardrail on Kings Road west of Lake Trail Drive in an amount not to exceed \$3,000.

AYE: Dent, Whisenhunt, Nelson, Garrett, Parsons,
NAY: None
ABSTAIN: None

Motion carried

10. Discussion, consideration, and action on Work Order Authorization Agreement with Halff Associates for Double Oaks Drive Paving Project.

Motion Whisenhunt, second Nelson to approve the Work Order Authorization Agreement with Halff Associates for Double Oaks Drive Paving Project in the amount of \$24,500.

AYE: Whisenhunt, Nelson, Garrett, Parsons, Dent
NAY: None
ABSTAIN: None

Motion carried

11. Discussion, consideration, and action on Social Media Archiving.

Administrative Town Clerk Brian Shults reviewed the information included in the agenda packet and explained the importance of a social media archiving.

Motion Nelson, second Dent to approve the Social Media Archiving system, including the Double Oak Volunteer Department, upon approval of the town's attorney.

AYE: Nelson, Dent, Whisenhunt, Garrett, Parsons,
NAY: None
ABSTAIN: None

Motion carried

12. Discussion, consideration, and action on participating in the Texas SmartBuy Program.

Police Chief Ruben Rivas asked the Council to approve the town's participation in the Texas SmartBuy Program.

Motion Nelson, second Garrett to approve participating in Texas SmartBuy Program at an annual membership fee of \$100.

AYE: Garrett, Nelson, Parsons, Whisenhunt, Dent
NAY: None
ABSTAIN: None

Motion carried

13. Discussion on 2021-2022 fiscal year budget and tax rate.

Town Treasurer Billie Garrett showed graphs of a 5-year budget comparison * and reviewed line by line the proposed budget figures. More work to continue on the 2021-2022 budget.

With no further business to come before the Council, motion Whisenhunt, Dent second, the meeting was adjourned at 9:35 p.m.

Eileen Kennedy, Town Secretary

Von Beougher, Mayor

MONTHLY REPORT JUNE 2021

06/01/21: Patrol from 14:30 until 16:30. No activity.

06/02/21: Patrol from 10:00 until 12:00.
Injured wildlife @ 120 Maple Leaf Drive. Impounded.

06/04/21: Patrol from 10:00 until 12:00.
Injured wildlife @ 103 Chappel Hill Drive. CSO.

06/09/21: Patrol from 15:00 until 17:00.
Nuisance wildlife reported at 130 Whistling Duck Lane. UTL.

06/10/21: Nuisance wildlife reported at 130 Whistling Duck Lane. Relocated.

06/11/21: Patrol from 08:20 until 10:20.
Nuisance wildlife reported at 225 Double Oaks Drive. Trap set.

06/12/21: Patrol from 07:45 until 09:45.
Stray dog confined Carruth Estates. Impounded.
PR Contact 204 S. Carruth Lane for impound return. V/W.

06/14/21: Patrol from 15:05 until 17:05. No activity.

06/16/21: Patrol from 08:30 until 10:30.
Nuisance wildlife reported at 575 Whispering Oaks. Trap set.

06/17/21: Patrol from 10:50 until 12:50. No activity.

06/18/21: Patrol from 10:45 until 12:45.
Animal in trap at 575 Whispering Oaks. Relocated.

06/19/21: Nuisance wildlife reported at 150 Trailing Oaks. CSO.

06/21/21: Patrol from 15:00 until 17:00. No activity.

06/23/21: Patrol from 13:30 until 15:30. No activity.

06/25/21: Patrol from 13:30 until 15:30. No activity.

06/26/21: Animal in trap at 575 Whispering Oaks. Relocated.

06/28/21: Patrol from 15:30 until 17:30. No activity.

06/29/21: Nuisance wildlife reported at 715 Simmons Road. Trap set.

06/29/21: Dog bite reported at 260 Simmons Road. Report taken.

SUMMARY

Total calls received: 13 By Double Oak residents: 13 Initiated by NTACA: 0
Animals impounded: Dogs: 1 Puppies: 0 Cats: 0 Kittens: 2 Other: 1 Deceased: 0
Verbal Warnings issued: 1 Written Warnings issued: 0 Citations: 0



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Town of Double Oak July 16, 2021
320 Waketon Rd. Brian Shults
Double Oak TX 72529 972-355-5995

Your Contact
Lee Wise

ITEM #	DESCRIPTION	UNIT PRICE	QTY	QUOTE
1	Sonicwall Total Secure TZ470 Firewall <ul style="list-style-type: none">• Includes 3 Years Advanced Gateway Security Suite• Gateway AntiVirus • Anti -Spyware• Intrusion Prevention Cybersecurity Features• Standard Content Filtering		1	2490.60
2	Professional Services - Installation and Configuration		1	660.00
3	Professional Services - Discounted per Lee Wise		-1	-660.00

Datamax is a technology management company. We provide information technology solutions utilizing the best and most proven implementations in the industry.

Our own **TechCare** IT Management support provides onsite and remote services to comfort our customer as they utilize today's technology to better their organization. The staff of Datamax has provided an unyielding level of support to our customers for over 35 years.

We appreciate the opportunity you give us and we hope to build a long term relationship and create a raving fan experience for your organization.

Total **\$2490.60**

Total Does Not Include Tax

Prices quoted above are good for 5 Days unless otherwise stated. An authorized signature is required on this form before order will be placed. Warranty information varies from manufacturer to manufacturer. Special warranty agreements must be outlined in this quote to otherwise supersede the manufacturer's warranty. Software issues do not carry labor warranty.

In the event that you do not accept product on delivery, a restocking fee may apply.

I/We accept this quote and realize that by signing this we are committed to the purchase of the above equipment and/or services.

Approved By _____

Date _____

Purchase Order# _____

Thank you for this opportunity to serve you.

ORDINANCE NO. _____

AN ORDINANCE OF THE TOWN OF DOUBLE OAK, TEXAS, AMENDING THE CODE OF ORDINANCES, TOWN OF DOUBLE OAK, TEXAS, BY AMENDING SUBSECTIONS (a) AND (b) OF SECTION 3.201 OF ARTICLE 3.200 ("BUILDING CODES") OF CHAPTER 3 ("BUILDING REGULATIONS") TO ADOPT THE PROVISIONS OF THE 2018 EDITIONS OF THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL RESIDENTIAL CODE, THE INTERNATIONAL ENERGY CONSERVATION CODE, THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL PLUMBING CODE, THE INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE AND THE INTERNATIONAL FUEL GAS CODE, THE 2018 EDITION OF THE INTERNATIONAL PROPERTY MAINTENANCE CODE, AND THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, TOGETHER WITH AMENDMENTS TO EACH OF SAID CODES; BY AMENDING ARTICLE 5.300 ("INTERNATIONAL FIRE CODE") OF CHAPTER 5 ("FIRE PREVENTION AND PROTECTION") TO ADOPT THE PROVISIONS OF THE 2018 EDITION OF THE INTERNATIONAL FIRE CODE, TOGETHER WITH AMENDMENTS TO SAID CODE; BY AMENDING SECTION 3.901 OF ARTICLE 3.900 ("STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS") OF CHAPTER 3 ("BUILDING REGULATIONS"), TO ADOPT THE PROVISIONS OF THE FIFTH EDITION (2017) OF THE PUBLIC WORKS CONSTRUCTION STANDARDS NORTH CENTRAL TEXAS PROMULGATED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND (\$2,000.00) DOLLARS FOR EACH OFFENSE; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town Council of the Town of Double Oak, Texas, finds and determines that the Council has previously adopted the provisions of various international codes to serve as the building codes and fire code applicable in the Town, as well as certain amendments to the codes recommended by the North Central Texas Council of Governments; and

WHEREAS, the building codes and fire code currently in effect in the Town are the 2006 editions of each of the international codes and the 2005 edition of the National Electrical Code; and

WHEREAS, the International Code Council has recommended more recent editions of the building codes and fire code, and the adoption of these more recent editions will provide greater uniformity in the enforcement of and compliance with the codes, will provide more effective safety and structural integrity for habitable structures and related equipment and systems, and will protect and preserve the Town's ISO rating, and;

WHEREAS, the Town Council further finds that it has previously adopted the 2004 edition of the Standard Specifications for Public Works Projects promulgated by the North Central Texas Council of Governments, which has been revised and updated to the 2017 version of the Public Works Construction Standards, North Central Texas, Fifth Edition, and that the adoption and application of the 2017 standards will provide greater uniformity in the design and construction of public works projects and will provide more efficient, effective and safer design, construction and installation of streets, utilities and public infrastructure; and

WHEREAS, the Town Council of the Town of Double Oak, Texas, finds and determines that the adoption of the 2018 editions of the international codes, the 2017 edition of the National Electrical Code, and the Fifth Edition of the Public Works Construction Standards, North Central Texas provided for herein is in the best interest of the public health, safety and welfare of the citizens of the Town.

BE IT ORDAINED BY THE TOWN COUNCIL OF THE TOWN OF DOUBLE OAK, TEXAS:

SECTION 1. That the Town Council of the Town of Double Oak, Texas, hereby adopts the 2018 editions of the International Building Code, the International Residential Code, the International Energy Conservation Code, the International Mechanical Code, the International Plumbing Code, the International Private Sewage Disposal Code, the International Fuel Gas Code, and the International Fire Code, the International Property Maintenance Code, and the 2017 edition of the National Electrical Code, together with certain amendments to each of said codes, as the codes for:

(1) regulating the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area and maintenance of all buildings or structures in the Town;

(2) prescribing regulations governing conditions hazardous to life and property from fire and explosion; and

(3) providing for issuance of permits and collection of fees for such permits. All such fees, unless otherwise specified herein, shall be charged, assessed and collected in the amounts and rates set forth in the Town's Master Fee Schedule.

SECTION 2. That subsections (a) and (b) of Section 3.201 of Article 3.200 ("Building Codes") of Chapter 3 ("Building Regulations") of the Code of Ordinances, Town of Double Oak, Texas, be and are hereby amended to adopt the provisions of the 2018 editions of the International Building Code, the International Residential Code, the International Energy Conservation Code, the International Mechanical Code, the International Plumbing Code, the International Private Sewage Disposal Code, the International Fuel Gas Code, the International Property Maintenance Code, and the 2017 edition of the National Electrical Code, together with regional amendments

to each of said codes recommended by the North Central Texas Council of Governments, attached and incorporated herein, such that subsections (a) and (b) of Section 3.201 shall henceforth read in their entirety as follows:

“CHAPTER 3

BUILDING REGULATIONS

...

ARTICLE 3.200. BUILDING CODES

Sec. 3.201 Adopted.

(a) The town hereby adopts the provisions of the 2018 edition of the International Residential Code, the 2018 edition of the International Building Code, the 2018 edition of the International Energy Conservation Code, the 201 edition of the International Plumbing Code, the 2018 edition of the International Mechanical Code, the 2018 edition of the International Private Sewage Disposal Code, the 2018 edition of the International Property Maintenance Code, the 2018 edition of the International Fuel Gas Code, and the 2017 edition of the National Electrical Code, as the codes for:

- (1) regulating the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area and maintenance of all buildings or structures in the town; and
- (2) providing for issuance of permits and collection of fees for such permits.

All the regulations, provisions, conditions and terms of such publications referenced in this section, all of which are on file in the offices of the town secretary, are referred to, adopted and made a part of this article as if fully set forth in this section.

(b) The codes adopted herein are adopted with certain regional amendments recommended by the North Central Texas Council of Governments, true and correct copies of which shall be maintained on file in the offices of the town secretary and building official. All references in all of the codes adopted by this section shall refer to the board of adjustment of the Town of Double Oak.

...”

SECTION 3. That Article 5.300 (“International Fire Code”) of Chapter 5 (“Fire Prevention and Protection”) of the Code of Ordinances, Town of Double Oak, Texas, be and is hereby amended to adopt the provisions of the 2018 edition of the International Fire Code, together with regional amendments recommended by the North Central Texas Council of Governments

attached and incorporated herein, such that Article 5.300 shall henceforth read in its entirety as follows:

“CHAPTER 5

FIRE PREVENTION AND PROTECTION

...

ARTICLE 5.300. INTERNATIONAL FIRE CODE

There is hereby adopted by the town, for the purpose of prescribing regulations governing conditions hazardous to life and property from fire and explosion, that certain code and standards known as the International Fire Code, 2018 edition, together with all appendices, published by the International Code Council, and except as modified and amended by this article. The fire code adopted herein is adopted with certain regional amendments recommended by the North Central Texas Council of Governments, true and correct copies of which shall be maintained on file in the offices of the town secretary. A copy of such International Fire Code is filed in the office of the town secretary, and the provisions thereof shall be controlling within the limits of the town.”

SECTION 4. That Section 3.901 of Article 3.900 (Standard Specifications for Public Works Projects) of Chapter 3 (“Building Regulations”) of the Code of Ordinances, Town of Double Oak, Texas, be and are hereby amended to adopt the provisions of the 2017 edition of the Public Works Construction Standards North Central Texas, Fifth Edition, such that Section 3.901 shall henceforth read in its entirety as follows:

“CHAPTER 3

BUILDING REGULATIONS

...

ARTICLE 3.900. STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION

Sec. 3.901 Adoption of Standards Volume

The Public Works Construction Standards North Central Texas, Fifth Edition (2017), promulgated by the North Central Texas Council of Governments, a copy of which is on file in the office of the town secretary, is hereby adopted as the construction standard code for regulating infrastructure construction within the town including but not limited to paving, utility construction, construction of roadways, driveways, approaches, parking

lots, storm drainage improvements, wastewater collection, water main improvements and other such infrastructure improvements.”

SECTION 5. That all the regulations, provisions, conditions and terms of such publications referenced in this ordinance, all of which are on file in the offices of the Town secretary, are referred to, adopted and made a part of this ordinance as if fully set forth in this ordinance.

SECTION 6. That all references in all of such codes to boards of appeal shall refer to the board of adjustment of the Town of Double Oak, Texas.

SECTION 7. That it is unlawful for any person to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit such work to be done in violation of the codes adopted by this ordinance. Any person, firm or corporation violating any of the provisions or terms of this ordinance as amended hereby shall be deemed guilty of a misdemeanor and subject to a penalty as provided for in this ordinance, and upon conviction shall be punished by 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 constitute a separate offense.

SECTION 8. That all ordinances of the Town of Double Oak in conflict with the provisions of this ordinance be and the same are hereby repealed and all other ordinances of the Town of Double Oak not in conflict with the provisions of this ordinance shall remain in full force and effect.

SECTION 9. That an offense committed before the effective date of this ordinance is governed by the prior law and the provisions of the Code of Ordinances and ordinances of the Town, as amended, in effect when the offense was committed and the former law is continued in effect for this purpose.

SECTION 10. If any section, paragraph, sentence, subdivision, clause, phrase or

provision of this ordinance be adjudged 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 hereof other than the part so decided to be unconstitutional, illegal, or invalid and shall not affect the validity of the remainder of this ordinance or any other provision of the ordinances of the Town of Double Oak.

SECTION 11. That this ordinance shall take effect immediately from and after its passage and the publication of the caption as the law in such cases provides.

DULY ADOPTED by the Town Council of Double Oak, Texas on the _____ day of _____, 2021.

APPROVED:

MAYOR

ATTEST:

TOWN SECRETARY

APPROVED AS TO FORM:

TOWN ATTORNEY

ORDINANCE NO. _____

AN ORDINANCE OF THE TOWN OF DOUBLE OAK, TEXAS, AMENDING THE CODE OF ORDINANCES, TOWN OF DOUBLE OAK, TEXAS, BY AMENDING SUBSECTIONS (a) AND (b) OF SECTION 3.201 OF ARTICLE 3.200 ("BUILDING CODES") OF CHAPTER 3 ("BUILDING REGULATIONS") TO ADOPT THE PROVISIONS OF THE 2018 EDITIONS OF THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL RESIDENTIAL CODE, THE INTERNATIONAL ENERGY CONSERVATION CODE, THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL PLUMBING CODE, THE INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE AND THE INTERNATIONAL FUEL GAS CODE, THE 2018 EDITION OF THE INTERNATIONAL PROPERTY MAINTENANCE CODE, AND THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, TOGETHER WITH AMENDMENTS TO EACH OF SAID CODES; BY AMENDING ARTICLE 5.300 ("INTERNATIONAL FIRE CODE") OF CHAPTER 5 ("FIRE PREVENTION AND PROTECTION") TO ADOPT THE PROVISIONS OF THE 2018 EDITION OF THE INTERNATIONAL FIRE CODE, TOGETHER WITH AMENDMENTS TO SAID CODE; BY AMENDING SECTION 3.901 OF ARTICLE 3.900 ("STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS") OF CHAPTER 3 ("BUILDING REGULATIONS"), TO ADOPT THE PROVISIONS OF THE FIFTH EDITION (2017) OF THE PUBLIC WORKS CONSTRUCTION STANDARDS NORTH CENTRAL TEXAS, PROMULGATED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS; PROVIDING A REPEALING CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND (\$2,000.00) DOLLARS FOR EACH OFFENSE; AND PROVIDING FOR AN EFFECTIVE DATE.

DULY ADOPTED by the Town Council of Double Oak, Texas on the _____ day of _____, 2021.

APPROVED:

MAYOR

ATTEST:

TOWN SECRETARY

EXHIBIT “A”

AMENDMENTS TO INTERNATIONAL CODES

Double Oak
2018 International Building Code
North Central Texas Council of Governments Region

The following sections, paragraphs, and sentences of the 2018 *International Existing Building Code* are hereby amended as follows: Standard type is text from the IEBC. Underlined type is text inserted. ~~Lined through type is deleted text from IEBC.~~ A double asterisk (**) at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple asterisk (***) identifies a new or revised amendment with the 2018 code.

****Section 102.4; change 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 Sections 102.4.1 and 102.4.2.

(Reason: To not inadvertently adopt other codes (i.e. Wildland Urban Interface Code etc...) by reference.)

****Section 202; amend definition of Existing Building as follows:**

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

****Section 202; amend definition of Existing Structure as follows:**

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

(Reason: To prevent potential abuses in new construction and shell buildings.)

****Section 305.1; adds an exception to read as follows:**

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

(Reason: To coordinate with the IEBC and State Law.)

****Section 305.4.2; add Number 7 to the list of requirements as follows:**

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

(Reason: Accessible toilet rooms should be available for disabled occupants.)

*****Section 401.3 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

*****Section 405.2.5 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

****Section 406.1; add a code reference 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.

(Reason: To ensure compliance with the NEC relative to any electrical repairs/replacement.)

*****Section 502.3 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city)

****Section 504.1.2; change to read as follows:**

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

(Reason: To add clarity and help reduce confusion associated with the amendment preventing new fire escapes.)

****Section 504.1.3; delete entire section:**

~~**504.1.3 New fire escapes.** New fire escapes for existing buildings shall be permitted only where exterior stairways cannot be utilized due to lot lines limiting stairway size or due to the sidewalks, alleys or roads at grade level. New fire escapes shall not incorporate ladders or access by windows.~~

(Reason: To generally require a higher level of egress protection.)

*****Section 507.3 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

*****Section 701.3 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

****Section 702.6; add a code reference to read as follows:**

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

(Reason: To provide a more complete list of potentially adopted codes.)

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

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

(Reason: To be consistent with Building Code requirements for guards and unsafe conditions.)

****Section 803.1; add sentence to read as follows:**

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

(Reason: The intent is to avoid work area protection that would result in partial sprinkler or fire alarm protection. Partial sprinkler protection not delineated by walls would be a clear violation of NFPA 13 and would not allow the sprinkler to perform or function as intended. Also, partial fire alarm coverage is a clear violation of the Fire Code, NFPA 72, and ADA.)

****Section 803.2.4; change exception to read as follows:**

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

- ~~1. Underground gate valve with roadway boxes.~~
- ~~2. Halogenated extinguishing systems.~~
- ~~3. Carbon dioxide extinguishing systems.~~
- ~~4. Dry and wet chemical extinguishing systems.~~
- ~~5. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply~~

~~main is used to supply both domestic and automatic sprinkler systems and a separate shutoff valve for the automatic sprinkler system is not provided.~~

(Reason: The published exceptions are over-reaching and will result in inconsistencies among supervised protection systems and cause confusion for first responders as well.)

****Section 803.3; change section to read as follows:**

803.3 Standpipes. Refer to Section 1103.6 of the Fire Code for retroactive standpipe requirements.
{Delete rest of Section 804.3.}

(Reason: The Fire Code already requires standpipes in these buildings (greater than 50 ft.) retroactively in Section 1103.6. This new section would negate/lessen those retroactive provisions already contained in the Fire Code.)

****Section 805.2; remove Exception #1**

Exception 1. ~~Where the work area and the means of egress serving it complies with NFPA101.~~

(Reason: NFPA 101 is not a commonly adopted code in the region and enforcement could be problematic.)

****Section 805.3.1.2; change to read as follows:**

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

(Reason: Higher level of safety by not allowing new fire escapes.)

****Section 805.3.1.2.1; change to read as follows:**

805.3.1.2.1 Fire Escape access and details - ...

1. [Remain unchanged]

2. Access to a new fire escape shall be through a door...

3. Item Deleted

4. [Remain unchanged]

5. In all buildings of Group E occupancy up to and including the 12th grade, buildings of Group I occupancy, ~~rooming~~ boarding houses, and childcare centers, ladders of any type are prohibited on fire escapes used as a required means of egress.

(Reason: Higher level of safety by not allowing new fire escapes. Consistency with language and defined term in IBC.)

*****Section 805.5.2 Transoms; add language to read as follows:**

805.5.2 Transoms. In all buildings of Group B, E, [Remainder unchanged]

(Reason: Transom windows were historically a common practice in school buildings and each jurisdiction should evaluate the impact on their stakeholders and their community with regards to section.)

****Section 904.1; add sentence to read as follows:**

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

(Reason: The intent is to avoid work area protection that would result in partial sprinkler or fire alarm protection. Partial sprinkler protection not delineated by walls would be a clear violation of NFPA 13 and the Fire Code and would not allow the sprinkler system to perform or function as intended. Also, partial fire alarm coverage is a clear violation of the Fire Code, NFPA 72, and ADA.)

****Section 904.1.1; change sentence to read as follows:**

904.1.1 High-rise buildings. An automatic sprinkler system shall be provided in work areas of where the high-rise buildings. ~~has a sufficient municipal water supply for the design and installation of an automatic sprinkler system at the site.~~

(Reason: Level 3 alterations are affecting more than 50% of the existing high-rise building, and as such, sprinkler protection is more than justifiable, even when fire pumps, etc., are necessary. It is noted that the work area method is one of three different methods available to the designer/owner in the IEBC.)

*****Section 1103.3 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

*****Section 1201.4 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

*****Section 1301.3.2; change 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 International Property Maintenance Code.~~

(Reason: NCTCOG does not currently review the IPMC for recommended amendments at this time.)

*****Section 1301.3.3 Compliance with Flood Hazard Provisions; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

*****Section 1402.6 Flood Hazard Areas; delete this section:**

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

END

**Double Oak Amendments to the
2018 International Residential Code**
North Central Texas Council of Governments Region

The following sections, paragraphs, and sentences of the *2018 International Residential Code* are hereby amended as follows: Standard type is text from the IRC. Underlined type is text inserted. ~~Lined through type is deleted text from IRC.~~ A double asterisk at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple asterisk identifies a new or revised amendment with the 2018 code.

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

The energy provisions in IRC Chapter 11 is deleted in its entirety.

Reference the 2018 IECC for energy code provisions and recommended amendments.

****Section R102.4; change to read as follows:**

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

(Reason: Legal wording to recognize locally adopted codes and amendments adopted with referenced codes.)

**** Section R103 and R103.1 amend to insert the Department Name**

~~DEPARTMENT OF BUILDING SAFETY~~ [INSERT OFFICIAL BUILDING DEPARTMENT NAME OF JURISDICTION]

R103.1 Creation of enforcement agency. The ~~Department of Building Safety~~ [INSERT OFFICIAL BUILDING DEPARTMENT NAME OF JURISDICTION] is hereby created and the official in charge thereof shall be known as the *building official*.

(Reason: Reminder to be sure ordinance reads the same as designated by the city.)

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

(Reason: Flood hazard ordinances may be administered by other departments within the city.)

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

(Reason: Floodplain provisions are addressed locally.)

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

(Reason: Issuing CO's for residences is not a common practice in the area.)

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

TOWNHOUSE. A single-family dwelling unit constructed in a group of three or more attached units separated by property lines in which each unit extends from foundation to roof and with a yard or public way on at least two sides.

(Reason: To distinguish Townhouses on separate lots.)

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

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

Delete remainder of table Manual J Design Criteria and footnote N

(Reason: To promote regional uniformity. Manual J is utilized by third party and not part of performed plan reviews. This is reference table only, not needed.)

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

Exceptions: {previous exceptions unchanged}

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

(Reason: Refers to other ordinances, such as zoning ordinances.)

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

Exceptions:

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

(Reason: Provide guidance for a common construction method in this area. Correlates with amendment to IRC Section R202 Townhouse definition.)

****Section R302.5.1; change to read as follows:**

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

(Reason: Absence of data linking self-closing devices to increased safety. Self-closing devices often fail to close the door entirely.)

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

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

(Reason: Consistent with common local practice as recirculating fans are recognized as acceptable air movement.)

****Section R313.2 One and Two Family Dwellings; Delete this section and subsection in their entirety.**

(Reason: In 2009, the State Legislature enacted SB 1410, amending section 1301.551 subsection I of the occupation code, prohibiting cities from enacting fire sprinkler mandates one or two family dwellings only. However, jurisdictions with ordinances that required sprinklers for one or two family dwellings prior to and enforced before January 1, 2009, may remain in place.)

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

Exception:

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

(Reason: Revised exception for clarity. Code intent is to protect against the products of combustion.)

****Section R322 Flood Resistant Construction; deleted section.**

(Reason: Floodplain hazard ordinances may be administered by other departments within the city.)

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

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

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

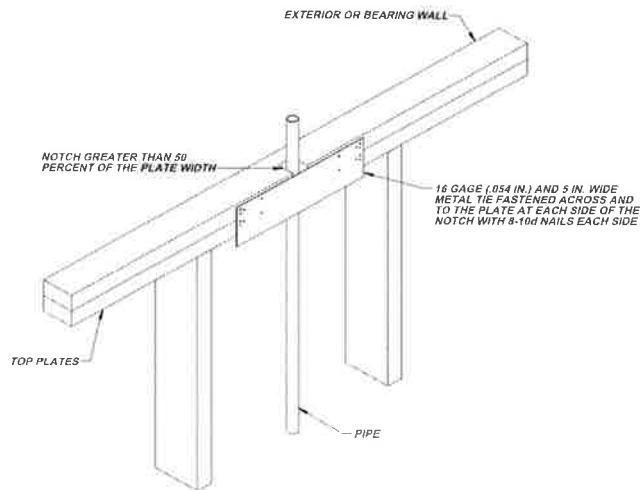
(Amendment to 2015 IRC carried forward to 2018 IRC.)

****Section R602.6.1; amend the following:**

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

(Amendment to 2015 IRC carried forward to 2018 IRC.)

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



(Amendment to 2015 IRC carried forward to 2018 IRC also provides additional assurance of maintaining the integrity of the framing by spreading the nailing pattern.)

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

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

1. When studs are 16 in (407 mm) o.c., stud ties shall be spaced no further apart than 24 in (737 mm) vertically starting approximately 12 in (381 mm) from the foundation; or
2. When studs are 24 in (610 mm) o.c., stud ties shall be spaced no further apart than 16 in (483 mm) vertically starting approximately 8 in (254 mm) from the foundation.

(This amendment had been a carry over amendment for years to provide clear instruction for placement of brick ties. It is now retained with changes to reflect its correct placement and use for clarity when attachment to framing lumber (studs). It should remain for those purposes. It is in addition to the new new Table in 2018 which provides for brick ties directly to sheathing.)

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

R902.1 Roofing covering materials. Roofs shall be covered with materials as set forth in Sections R904 and R905. Class A, B, or C roofing shall be installed in designated by law as requiring their use or when the edge of the roof is less than 3 feet from a lot line. {remainder unchanged}

Exceptions:

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

(Reason: to address accessory structures Group U exempt from permits per Section R105.2)

***** Chapter 11 [RE] – Energy Efficiency is deleted in its entirety; Reference the 2018 IECC for energy code provisions and recommended amendments.**

(Reason: The recommended energy code changes from the Energy and Green Advisory Board update the amendments for Chapter 11. The 2018 International Energy Conservation Code should be referenced for residential energy provisions. This approach simply minimizes the number of amendments to the IRC.)

*****Section M1305.1.2; change to read as follows:**

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

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

Exceptions:

1. The passageway and level service space are not required where the appliance can be serviced and removed through the required opening.
2. Where the passageway is unobstructed...{remaining text unchanged}

(Reason: To provide a safe means of accessibility to appliances in attics and to allow for different types of construction limitations. Consistent with regional amendment to IFGC and IMC 306.3.)

****Section M1411.3; change to read as follows:**

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

(Reason: Reflects regional practice and to reduce excessive runoff into storm drains.)

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

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

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

(Reason: Reflects standard practice in this area.)

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

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

(Reason: Reflects standard practice in this area.)

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

M1503.6 Makeup air required. Where one or more gas, liquid or solid fuel-burning appliance that is neither direct-vent nor uses a mechanical draft venting system is located within a dwelling unit's air barrier, each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m³/s) shall be mechanically or passively provided with makeup air at a rate approximately equal to the difference between exhaust air rate and 400 cubic feet per minute. Such makeup air systems shall be equipped with not fewer than one damper complying with Section M1503.6.2.

Exception: Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open. Where all appliances in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m³/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m³/s) shall be provided with a makeup air at a rate approximately to the difference between the exhaust air rate and 600

cubic feet per minute.

(Reason: Exception requires makeup air equaling the amount above and beyond 400 cfm for larger fan which will address concerns related to "fresh" air from the outdoors in hot humid climates creating a burden on HVAC equipment and negative efficiency impacts from back-drafting and wasted energy.)

****Section M2005.2; change to read as follows:**

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

(Reason: Corresponds with the provisions of IFGC Section 303.3, exception #5.)

****Section G2408.3 (305.5) Private Garages; delete this section in its entirety.**

(Reason: This provision does not reflect standard practice in this area.)

****Section G2415.2.1 (404.2.1) CSST; add a second paragraph to read as follows:**

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

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

(Reason: To protect homeowners and plumbers.)

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

G2415.12 (404.12) Minimum burial depth. Underground *piping systems* shall be installed a minimum depth of ~~12 inches (305 mm)~~ 18 inches (457 mm) below grade, except as provided for in ~~Section G2415.12.1.~~

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

(Reason: To provide increased protection to piping systems.)

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

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

(Reason: To utilize language used in the IPC regarding who is responsible for testing procedures.)

****Section G2417.4; change to read as follows:**

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

(Reason: To require the use of more accurate diaphragm gauges. Spring gauges do not provide accurate measurement below approximately 17 psig.)

****Section G2417.4.1; change to read as follows:**

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall be no less than 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge, irrespective of design pressure. ~~Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 1/2"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 1/2"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.~~

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

(Reason: To provide for lesser pressures to coordinate with the use of more accurate diaphragm gauges.)

****Section G2417.4.2; change to read as follows:**

G2417.4.2 (406.4.2) Test duration. The test duration shall be held for a length of time satisfactory to the Building Official, but in no case for be not less than 40-fifteen (15) minutes. ~~For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the Building Official, but in no case for less than thirty (30) minutes.~~

(Reason: To comply with accepted regional practices.)

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

G2420.1.4 Valves in CSST installations. Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the valves, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the valve. Supports shall be

installed so as not to interfere with the free expansion and contraction of the system's piping, fittings, and valves between anchors. All valves and supports shall be designed and installed so they will not be disengaged by movement of the supporting piping.

(Reason: To provide proper security to CSST valves. These standards were established in this region in 1999 when CSST was an emerging technology.)

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

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

(Reason: Reflects regional practice and provides an additional measure of safety.)

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

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

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

(Reason: To require adequate access to regulators.)

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

(Reason: To comply with accepted regional practices.)

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

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

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

(Reason: Gives code official discretion.)

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

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

(Reason: To clarify installation requirements. Also corresponds with amendments regarding water heater access.)

*****Section P2603; add to read as follows:**

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

(Reason: Allows for other materials to be accented)

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

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

(Reason: Provides sewer depth that is common in this region. Deleted reference to private sewage disposal because a private sewage disposal code is not typically adopted in this region.)

*****Section P2604; add to read as follows:**

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

(Reason: To follow manufacturer backfill requirements and to be clear to Inspectors out in the field.)

***** Section P2801; change to read as follows:**

P2801.6 Required pan.

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

1. Galvanized steel or aluminum of not less than 0.0236 inch (0.6010 mm) in thickness.

2. Plastic not less than 0.036 inch (0.9 mm) in thickness.
3. Other *approved* materials.

~~A plastic pan beneath a gas-fired water heater shall be constructed of material having a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 or UL 723.~~

(Reason: Plastic burns degrading material over time on gas fired water heaters and to maintaining protection level)

****Section P2801.6.1; change to read as follows:**

Section P2801.6.1 Pan size and drain. The pan shall be not less than 11/2 inches (38 mm) in depth and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a diameter of not less than 3/4 inch (19 mm). Piping for safety pan drains shall be of those materials listed in Table P2906.5.

Multiple pan drains may terminate to a single discharge piping system when *approved* by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions. {existing text unchanged}

(Reason: Regionally accepted practice.)

***** Section P2804.6.1; change to read as follows:**

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

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

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

5. Discharge ~~to the floor, to the pan serving the water heater or storage tank, to a waste receptor~~ an approved location or to the outdoors.

[remainder unchanged]

(Reason: To ensure the T&P is ran to the exterior.)

****Section P2902.5.3; change to read as follows:**

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

potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

(Reason: To provide clarity.)

*****Section P3003.9; change to read as follows:**

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

Exception: A primer is not required where both of the following conditions apply:

- ~~1. The solvent cement used is third party certified as conforming to ASTM D 2564~~
- ~~2. The solvent cement is used only for joining PVC drain, waste, and vent pipe and fittings in not pressure applications in sizes up to and including 4 inches (102mm) in diameter.~~

(Reason: to keep the "process of joining PVC pipe".)

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

(Reason: A combination waste and vent system is not approved for use in residential construction.)

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

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

(Reason: To clarify the installation of island venting and to provide a regional guideline on a standard installation method for this region.)

END

**Double Oak Amendments to the
2018 International Energy Conservation Code
And the energy provisions of the
2018 International Residential Code
North Central Texas Council of Governments Region
(Climate Zone 3 of the IECC)**

The following sections, paragraphs, and sentences of the *2018 International Energy Conservation Code* (IECC) are hereby amended as follows: Standard type is text from the IECC. Underlined type is text inserted. ~~Lined through type is deleted text from IECC.~~ A double (**) asterisk at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple (***) asterisk identifies a new or revised amendment with the 2018 code. Section numbers in parenthesis represent the corresponding numbers of the energy provisions of the 2018 *International Residential Code* for parallel amendments.

2018 IECC (Energy Provisions of the 2018 IRC)

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

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

R102.1.2 (N1101.4.1) Alternative compliance. A building certified by a national, state, or local accredited energy efficiency program and determined by the Energy Systems Laboratory to be in compliance with the energy efficiency requirements of this section may, at the option of the Code Official, be considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance. Regardless of the program or the path to compliance, each 1- and 2-family dwelling shall be tested for air and duct leakage as prescribed in Section R402.4.1.2 (N1102.4.1.2) and R403.3.3 (N1103.3.3) respectively.

(Reason: This amendment is added to allow alternative compliance in accordance with Texas HB 1365, 78th Legislature. Codified in Chapter 388 Texas Building Energy Performance Standards: §388.003(i). The last sentence to Section R102.1.2 (N1101.4.1) was added to insure that every house is tested in accordance with the mandatory provisions of the code.)

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

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

(Reason: The amendment to Section 402.3.2 (N1102.3.2) Glazed fenestration SHGC was proposed by the TAB. ESL determined the proposal to be not less restrictive than the 2015 IECC. This added definition is necessary as part of that amendment. The amendment will provide additional options for SHGC selection.)

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

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

(Reason: This term is referenced in Section R402.3.2. This definition of DYMANIC GLAZING is also found in the Commercial provisions of the code.)

*****Table 402.1.2 (N1102.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT; the Fenestration U-factor for Climate Zone 3 is amended as follows:**

CLIMATE ZONE	FENESTRATION U-FACTOR
3	0.32 0.35

(Reason: Carries forward the value in the 2015 IECC/IRC.)

*****Table 402.1.4 (N1102.1.4) EQUIVALENT U-FACTORS; the Fenestration U-factor for Climate Zone 3 is amended as follows:**

CLIMATE ZONE	FENESTRATION U-FACTOR
3	0.32 0.35

(Reason: Carries forward the value in the 2015 IECC/IRC.)

****Section R402.3.2 (N1102.3.2) Glazed fenestration SHGC; amend by adding a paragraph and table following the exception to read as follows:**

Where vertical fenestration is shaded by an overhang, eave, or permanently attached shading device, the SHGC required in Table R402.1.2 shall be reduced by using the multipliers in Table R402.3.2 SHGC Multipliers for Permanent Projections.

Table R402.3.2 SHGC Multipliers for Permanent Projections ^a

Projection Factor	SHGC Multiplier (all Other Orientation)	SHGC Multiplier (North Oriented)
0 - 0.10	1.00	1.00
>0.10 – 0.20	0.91	0.95
>0.20 – 0.30	0.82	0.91
>0.30 – 0.40	0.74	0.87
>0.40 – 0.50	0.67	0.84
>0.50 – 0.60	0.61	0.81
>0.60 – 0.70	0.56	0.78
>0.70 – 0.80	0.51	0.76
>0.80 – 0.90	0.47	0.75
>0.90 – 1.00	0.44	0.73

^a North oriented means within 45 degrees of true north.

(Reason: The amendment to **Section 402.3.2 Glazed fenestration SHGC** was proposed by the TAB and ESL determined the proposal to be not less restrictive than the 2015 IECC. This added definition is necessary as part of that amendment. The amendment will provide additional options for SHGC selection.)

****R402.4.1.2 (N1102.4.1.2) Testing; add a last paragraph to read as follows:**

Mandatory testing shall only be performed by individuals that are certified to perform air infiltration testing certified by national or state organizations as approved by the building official. The certified individuals must be an independent third-party entity, and may not be employed; or have any financial interest in the company that constructs the structure.

(Reason: The 2018 International Residential Code (IRC) and International Energy Conservation Code (IECC) includes enhanced emphasis on envelope infiltration and duct leakage. Significant changes in the residential energy requirements include more frequent requirement of performance testing for leakage. Residential Duct systems must be tested unless all ducts and equipment are located within the conditioned space. Envelope testing is required to demonstrate compliance with maximum allowable leakage rate. This language puts the regulatory authority on notice that the testing requires specialized credentials and establishes a conflict of interest baseline.)

*****Section R402.4 (N1102.4) Air leakage (Mandatory); add a new section and table to read as follows:**

R402.4.1.3 (N1102.4.1.3) Testing option – ACH tradeoff. As an option to the air leakage rate set out in Section R402.4.1.2 (N1102.4.1.2), 1- and 2-family homes meeting all of the listed criteria below and the *thermal envelope* requirements in Table R402.4.1.3 (N1102.4.1.3) will be considered compliant when tested and verified as having an air leakage rate to not less than or equal to four air changes per hour when tested and reported in accordance with the testing standards and reporting criteria listed in Section R402.4.1.2 (N1102.4.1.2).

The compliance equivalency is limited as follows:

1. Limited to a conditioned floor area between 1,000 and 6,000 square feet,
2. Limited to between 2 to 6 bedrooms,
3. Assumes all ductwork and mechanical equipment is located in the unconditioned attic,
4. Assumes typical wood framing in the walls and roof, and
5. Assumes one of the following heating/cooling systems:
 - a. All electric system with a heat pump for heating, or
 - b. A system with electric cooling and natural gas heating.

Dwellings using electric resistance strip heating do not qualify for this tradeoff.

TABLE R402.4.1.3 (N1102.4.1.3)^a

Envelope Component	Option #1	Option #2
R402.4 Air Leakage	≤ 4 ACH50	≤ 4 ACH50
Wall Insulation <i>R</i> -value	$R_{13} + R_3^b$	$R_{13} + R_3^b$
Fenestration <i>U</i> -factor	≤ 0.32	≤ 0.32
Fenestration SHGC	≤ 0.25	≤ 0.25
Ceiling <i>R</i> -value	$\geq R_{49}$	$\geq R_{49}$
Duct Insulation <i>R</i> -value	R8	R6
Radiant Barrier Required	No	Yes

^a Except for the values listed in the table, all other mandatory code provisions are applicable.

^b The first value listed is the *R*-value of cavity insulation, the second value is the *R*-value of the continuous insulation or insulated siding.

(Reason: This provides a viable option to the single-family residential builder. The Energy Systems Laboratory determined that this tradeoff option to be not less stringent than the residential provisions of the 2015 IECC and the energy provisions of the 2015 IRC.)

***** Section R402.4 Air leakage (Mandatory); add a new section to read as follows:**

R402.4.1.4 Testing options for R2 multifamily dwelling units. As an option to the air leakage rate set out in Section R402.4.1.2, multifamily dwelling units will be considered compliant when tested and verified as having an air leakage rate to the air leakage rate set out in either Section R402.4.1.4.1 or Section R402.4.1.4.2 when tested and reported in accordance with the testing standards and reporting criteria listed in Section R402.4.1.2

R402.4.1.4.1 Total air leakage rate for interior multifamily dwelling units. Interior multifamily dwelling units with a measured, "unguarded" total air leakage result of 5.3 ACH50 or less shall be considered compliant.

R402.4.1.4.2 Total air leakage rate for corner multifamily dwelling units. Corner multifamily units with a measured, "unguarded" total leakage result of less than 5.0 ACH50 shall be considered compliant.

(Reason: The Mandatory Section R402.4 Air Leakage of the 2015 IECC requires that the building thermal envelope be tested and verified in accordance with R402.4.1.2. Measuring air leakage for multifamily buildings or dwelling units using an air leakage to outside test (i.e. guarded) can be costly and time prohibitive. This is because in order to isolate leakage only through the building thermal envelope, all leakage to adjacent units through adiabatic surfaces must be pressure neutralized. The methodology below therefore allows for the use of total air leakage testing for multifamily dwelling units that includes air leakage to the exterior and to adjacent units (i.e. unguarded) to show compliance with R402.4.1.2. This increases the flexibility of the code without affecting stringency. This methodology has been approved for use by ESL, and the methodology applies only to jurisdictions in the NCTCOG area.)

***** Section R402.4 Air leakage (Mandatory); add a new section to read as follows:**

R402.4.1.5 Sampling options for R2 multifamily dwelling units. For buildings having three or more

dwelling units, a minimum of 15% of the dwelling units in each building must be tested as required by Section R402.4.1.2. Prior to beginning sampling for testing, "Initial Testing" is required for each multifamily property. "Initial Testing" shall consist of the 3rd party testing contractor performing the required tests on at least three consecutive dwelling units. Test results from the "Initial Testing" must satisfy minimum code requirements before sampling is permitted. Dwelling units selected for the "Initial Testing" must be within the same building. Dwelling units selected for "Initial Testing" shall not be included in a "sample group" or counted toward the minimum 15% of dwelling units tested. The building official shall randomly select the three dwelling units for "Initial Testing." The building official may delegate the random selection to the designated 3rd party testing contractor.

R402.4.1.5.1 Sample group Identification and Sampling. The builder shall identify a "sample group" which may be a building, floor, fire area or portion thereof. All of the dwelling units within the "sample group" must be at the same stage of construction and must be ready for testing. The building official shall randomly select at least 15% of dwelling units from each "sample group" for testing. The building official may delegate the random selection to the designated 3rd party testing contractor.

If each tested dwelling unit within a "sample group" meets the minimum code requirements, then all dwelling units in the "sample group" are considered to meet the minimum code requirements.

Before a building may be deemed compliant with the testing as required, each "sample group" must be deemed compliant with the minimum code requirements. The sum total of all of the tested dwelling units across all "sample groups" shall not be less than a minimum of 15% of the dwelling units in a building.

R402.4.1.5.2 Failure to Meet Code Requirement(s). If any dwelling units within the identified "sample group" fail to meet a code requirement as determined by testing, the builder will be directed to correct the cause(s) of failure, and 30% of the remaining dwelling units in the

"sample group" will be randomly selected for testing by the building official, or third-party testing contractor, regarding the specific cause(s) of failure.

If any failures occur in the additional dwelling units, all remaining dwelling units in the sample group must be individually tested for code compliance.

A multifamily property with three failures within a 90-day period is no longer eligible to use the sampling protocol in that community or project until successfully repeating "Initial Testing." Sampling may be reinstated after at least three consecutive dwelling units are individually verified to meet all code requirements.

A Certificate of Occupancy may not may be issued for any building until testing has been performed and deemed to satisfy the minimum code requirements on the dwelling unit(s) identified for testing.

(Reason: For many multifamily (R2 classifications) projects, it is very costly and time consuming to test each dwelling unit for projects where there may be dozens of dwelling units in each building. Considering that the same tradesman generally constructs a building, it is reasonable to deem that construction practices are consistent and that if a reasonable sampling of units tested pass then all units would pass. These amendments are very similar to other ordinances/policies from Austin and San Antonio.)

**** R403.3.3 (N1103.3.3) Duct Testing (Mandatory); add a last paragraph to read as follows:**

Mandatory testing shall only be performed by individuals that are certified to perform duct testing leakage testing certified by national or state organizations as approved by the building official. The certified individuals must be an independent third-party entity, and may not be employed; or have any financial interest in the company that constructs the structure.

(Reason: The 2015 International Residential Code (IRC) and International Energy Conservation Code (IECC) includes enhanced emphasis on envelope infiltration and duct leakage. Significant changes in the residential energy requirements include more frequent requirement of performance testing for leakage. Residential Duct systems must be tested unless all ducts and equipment are located within the conditioned space. Envelope testing is required to demonstrate compliance with maximum allowable leakage rate. This language puts the regulatory authority on notice that the testing requires specialized credentials and establishes a conflict of interest baseline).

***** Section R403.3 Ducts; add a new section to read as follows:**

R403.3.4.1 Sampling options for R2 multifamily dwelling units. For buildings having three or more dwelling units, a minimum of 15% of the dwelling units in each building must be tested as required by Section R403.3.3. Prior to beginning sampling for testing, "Initial Testing" is required for each multifamily property. "Initial Testing" shall consist of the 3rd party testing contractor performing the required tests on at least three consecutive dwelling units. Test results from the "Initial Testing" must satisfy minimum code requirements before sampling is permitted. Dwelling units selected for the "Initial Testing" must be within the same building. Dwelling units selected for "Initial Testing" shall not be included in a "sample group" or counted toward the minimum 15% of dwelling units tested. The building official shall randomly select the three dwelling units for "Initial Testing." The building official may delegate the random selection to the designated 3rd party testing contractor.

R403.3.4.1.1 Sample group Identification and Sampling. The builder shall identify a "sample group" which may be a building, floor, fire area or portion thereof. All of the dwelling units within the "sample group" must be at the same stage of construction and must be ready for testing. The building official shall randomly select at least 15% of dwelling units from each "sample group" for testing. The building official may delegate the random selection to the designated 3rd party testing contractor.

If each tested dwelling unit within a "sample group" meets the minimum code requirements, then all dwelling units in the "sample group" are considered to meet the minimum code requirements.

Before a building may be deemed compliant with the testing as required, each "sample group" must be deemed compliant with the minimum code requirements. The sum total of all of the tested dwelling units across all "sample groups" shall not be less than a minimum of 15% of the dwelling units in a building.

R403.3.4.1.2 Failure to Meet Code Requirement(s). If any dwelling units within the identified "sample group" fail to meet a code requirement as determined by testing, the builder will be directed to correct the cause(s) of failure, and 30% of the remaining dwelling units in the "sample group" will be randomly selected for testing by the building official, or third-party testing contractor, regarding the specific cause(s) of failure.

If any failures occur in the additional dwelling units, all remaining dwelling units in the sample group must be individually tested for code compliance.

A multifamily property with three failures within a 90-day period is no longer eligible to use the sampling protocol in that community or project until successfully repeating "Initial Testing." Sampling may be reinstated after at least three consecutive dwelling units are individually verified to meet all code requirements.

A Certificate of Occupancy may not may be issued for any building until testing has been performed and deemed to satisfy the minimum code requirements on the dwelling unit(s) identified for testing.

(Reason: For many multifamily (R2 classifications) projects, it is very costly and time consuming to test each dwelling unit for projects where there may be dozens of dwelling units in each building. Considering that the same tradesman generally constructs a building, it is reasonable to deem that construction practices are consistent and that if a reasonable sampling of units tested pass then all units would pass. These amendments are very similar to other ordinances/policies from Austin and San Antonio.)

****Section C402.2/R402.2 (N1102.2) Specific insulation requirements (Prescriptive); add Section C402.2.8 and R402.2.14 (N1102.2.14) to read as follows:**

Section C402.2.8/R402.2.14 (N1102.2.14) Insulation installed in walls. Insulation installed in walls shall be totally enclosed on all sides consisting of framing lumber, gypsum, sheathing, wood structural panel sheathing or other equivalent material approved by the building official.

(Reason: This will increase the performance of the insulation.)

*****Section C403.7.4 Energy recovery ventilation systems (Mandatory); add exception #12 to read as follows:**

12. Individual ventilation systems that serve an individual dwelling unit or sleeping unit.

(Reason: This will clarify the intent of the section without requiring the user or the code official to analyze the numbers in the table. So a ventilation system that serves only an individual dwelling unit or sleeping unit does not require an energy recovery system.)

*****Section C403.11.1 Duct and Plenum Insulation and Sealing (Mandatory); is amended by adding a second paragraph to read as follows:**

Environmental ducts and plenums installed in vertical chases, both supply and exhaust, where the ducts or plenums will not be accessible after construction completion, shall be leak tested in accordance with the SMACNA HVAC Air Leakage Test Manual to the installed ductwork class and pressure requirements.

Documentation shall be furnished demonstrating that representative sections totaling not less than 25 percent of the duct area have been tested and that all tested sections comply with the requirements of this section.

(Reason: Ductwork installed in chases is not accessible after construction completion. Leakage in these ducts will increase the energy use of the buildings and systems for the life of the building and reduce the system performance. Since the leakage in the chase enclosed ductwork would be difficult if not impossible to locate and correct, testing at the time of installation would assure that the ducts are properly installed and efficient.)

*****Section R404.1 (N1104.1); revised in its entirety to read as follows:**

Section R404.1 (N1104.1) Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

(Reason: This retains the 2015 language will allows for more flexibility.)

****Section 405.2 (N1105.2); add the exception to read as follows:**

Section 405.2 (N1105.2) Mandatory requirements. Compliance with the section requires that the mandatory provisions identified in Section 401.2 be met. Supply and return ducts not completely inside the building thermal envelope shall be insulated to an R-value of not less than R-6.

Exceptions:

1. For one and two family dwellings the maximum envelope leakage of 4 ACH50 is permitted provided the envelope leakage in the Standard Reference Design is 3 ACH50 and all other requirements of Section R405 are met, including all other mandatory measures. The annual energy cost or source energy usage of the Proposed Design must be equal to or less than that of the Standard Reference Design.
2. For multifamily or townhomes and buildings classified as Group R2 and Group R4 of three stories or less the maximum envelope leakage of less than 5 ACH50 is permitted provided the envelope leakage in the Standard Reference Design is 3 ACH50 and all other requirements of Section R405 are met, including all other mandatory measures. The annual energy cost or source energy usage of the Proposed Design must be equal to or less than that of the Standard Reference Design.

(Reason: This ACH tradeoff is approved by ESL and will require additional energy efficiencies to be implemented. This tradeoff is incorporated in ESL's IC3 Code Compliance Calculator as the 2015 NCTCOG path in the code drop down menu. Builders using IC3 will receive a code compliant notification if their designs meet the requirements of this tradeoff and all other energy code requirements.

Other compliance software products have not incorporated this tradeoff into their compliance reports. Building Officials receiving Section R405 submittals from software other than IC3 may approve a R405 compliance report that designates the building as not in compliance due to noncompliance with the 3 ACH50 envelope leakage mandatory measure, provided the report also states that the envelope leakage is no greater than 4 ACH50 for single family homes. REScheck™ does not have the flexibility to accommodate this tradeoff.)

****Section R405.6.2 (N1105.6.2); add the following sentence to the end of paragraph:**

Acceptable performance software simulation tools may include, but are not limited to, REM Rate™; Energy Gauge®; ICF International Beacon Residential; Ekotrope, HERS Module; Right-Energy HERS and IC3. Other performance software programs as listed by RESNET® and having the ability to provide a report as outlined in R405.4.2 may also be deemed acceptable performance simulation programs and may be considered by the building official.

(Reason: These performance software tools are listed by RESNET at the time of recommendation.)

*****Section C405.9. Voltage drop in feeders; deleted in its entirety.**

(Reason: There are similar provisions in the NEC where this type of requirement is best managed.)

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

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

CLIMATE ZONE	ENERGY RATING INDEX
3	65

¹ This table is effective until August 31, 2019.

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

CLIMATE ZONE	ENERGY RATING INDEX
3	63

² The table is effective from September 1, 2019 to August 31, 2022.

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

CLIMATE ZONE	ENERGY RATING INDEX
3	59

³ This table is effective on or after September 1, 2022.

(Reason: The tables reflect the values and time table set forth in HB1736, 84th Regular Session Codified in Chapter 388 Texas Building Energy Performance Standards: §388.003.)

*****Section C408.3.1 Functional Testing; amend to read as follows:**

C408.3.1 Functional Testing. Prior to passing final inspection, the *registered design professional or approved agency* shall provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed, and in proper working condition in accordance with the *construction documents* and manufacturer's instructions. Functional testing shall be in accordance with Sections C408.3.1.1 through C408.3.1.3 for the applicable control type.

(Reason: The addition of 'or approved agency' will make the lighting systems requirements match the mechanical system requirements in C 408.2.1. This will facilitate and add flexibility to the enforcement of the commissioning requirements.)

END

**Double Oak Amendments to the
2018 International Mechanical Code**
North Central Texas Council of Governments Region

The following sections, paragraphs, and sentences of the *2018 International Mechanical Code* (IMC) are hereby amended as follows: Standard type is text from the IMC. Underlined type is text inserted. ~~Lined through type is deleted text from the IMC.~~ A double asterisk at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple asterisk identifies a new or revised amendment of the 2018 edition of the code.

Note: Historically the North Central Texas Council of Governments (NCTCOG) has limited Chapter 1 amendments in order to allow each city to insert their local policies and procedures. We now have suggested certain items to be brought to the attention of cities considering adoption of the code that may be of concern to several jurisdictions. **It is still intended to be discretionary to each city to determine which Chapter 1 amendments to include.**

*****Section 102.8; change to read as follows:**

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

(Reason: Legal wording to recognize locally adopted codes and amendments adopted with referenced codes.)

*****Section 306.3; change to read as follows:**

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

4. A permanent stair.
5. A pull-down stair with a minimum 300 lb. (136 kg) capacity.
6. An access door from an upper floor level.
7. Access Panel may be used in lieu of items 1, 2, and 3 with prior approval of the code official due to building conditions.

Exceptions:

1. The passageway and level service space are not required where the appliance is capable of being serviced and removed... *{remainder of section unchanged}*

(Reason: To provide a safe means of accessibility to appliances in attics and to allow for different types of construction limitations. Consistent with regional amendment to International Fuel and Gas Code (IFGC) 306.3.)

*****Section 306.5; change to read as follows:**

306.5 Equipment and Appliances on Roofs or Elevated Structures. Where *equipment* requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will

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

(Reason: To assure access to roof appliances and provide options to not extend exterior ladders to grade. Consistent with IFGC amendments.)

****Section 306.5.1; change to read as follows:**

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

(Reason: To assure safe access to roof appliances. Consistent with IFGC amendments.)

****Section 306; add Section 306.6 to read as follows:**

306.6 Water Heaters Above Ground or Floor. When the mezzanine or platform in which a water heater is installed is more than eight (8) feet (2438 mm) above the ground or floor level, it shall be made accessible by a stairway or permanent ladder fastened to the building.

Exception: A maximum 10 gallon water heater (or larger with approval) is capable of being accessed through a lay-in ceiling and the water heater installed is not more than ten (10) feet (3048 mm) above the ground or floor level and may be reached with a portable ladder.

(Reason: To provide safe access to water heaters and to provide lighting and receptacle for maintenance of equipment. Consistent with regional amendments to IFGC 306.7 and International Plumbing Code (IPC) 502.5.)

****Section 307.2.3; amend item 2 to read as follows:**

2. A separate overflow drain line shall be connected to the drain pan provided with the equipment. Such overflow drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage of the primary drain. The overflow drain line shall connect to the drain pan at a higher level than the primary drain connection. However, the conspicuous point shall not create a hazard such as dripping over a walking surface or other areas so as to create a nuisance.

(Reason: Greater specificity in prohibited locations for condensate discharge. Consistent with regional amendment to IPC 314.2.1.)

****Section 403.2.1; add an item 5 to read as follows:**

8. Toilet rooms within private dwellings that contain only a water closet, lavatory, or combination thereof may be ventilated with an approved mechanical recirculating fan or similar device designed to remove odors from the air.

(Reason: Consistent with common regional practice. Consistent with regional amendment to International Residential Code (IRC) R303.3.)

****Section 501.3; add an exception to read as follows:**

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

Exceptions:

1. Whole-house ventilation-type attic fans shall be permitted to discharge into the attic space of dwelling units having private attics.
2. Commercial cooking recirculating systems.
3. Where installed in accordance with the manufacturer's instructions and where mechanical or natural ventilation is otherwise provided in accordance with Chapter 4, listed and labeled domestic ductless range hoods shall not be required to discharge to the outdoors.
4. Toilet room exhaust ducts may terminate in a warehouse or shop area when infiltration of outside air is present.

(Reason: Provide a reasonable alternative in areas where a large volume of outside air is present.)

****Section 607.5.1; change to read as follows:**

607.5.1 Fire Walls. Ducts and air transfer openings permitted in fire walls in accordance with Section 705.11 of the International Building Code shall be protected with listed fire dampers installed in accordance with their listing. For hazardous exhaust systems see Section 510.1-510.9 IMC.

(Reason: Correspond with un-amended IBC 710.7.)

END

**Double Oak Amendments to the
2018 International Plumbing Code
North Central Texas Council of Governments Region**

The following sections, paragraphs, and sentences of the *2018 International Plumbing Code* are hereby amended as follows: Standard type is text from the IPC. Underlined type is text inserted. ~~Lined through type is deleted text from the IPC.~~ A double asterisk at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple asterisk identifies a new or revised amendment with the 2018 edition of the code.

Note: Historically NCTCOG has limited Chapter 1 amendments in order to allow each city to insert their local policies and procedures. We now have suggested certain items to be brought to the attention of cities considering adoption of the code that may be of concern to several jurisdictions. **It is still intended to be discretionary to each city to determine which Chapter 1 amendments to include.**

****Table of Contents, Chapter 7, Section 714; change to read as follows:**

714 Engineered Computerized Drainage Design 69

(Reason: Editorial change to make compatible with amendment to Section 714.1.)

*****Section 102.8; change to read as follows:**

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

(Reason: Legal wording to recognize locally adopted codes and amendments adopted with referenced codes.)

****Sections 106.6.2 and 106.6.3; change to read as follows:**

106.6.2 Fee schedule. The fees for all plumbing work shall be as indicated ~~in the following schedule:~~ (JURISDICTION TO INSERT APPROPRIATE SCHEDULE) adopted by resolution of the governing body of the jurisdiction.

106.6.3 Fee Refunds. The code official shall establish a policy for authorize authorizing the refunding of fees ~~as follows.~~ *{Delete balance of section}*

(Reason: This calls to attention of local jurisdictions considering adoption that they need a fee schedule and a refund policy.)

****Section 109; delete entire section and insert the following:**

**SECTION 109
MEANS OF APPEAL**

109.1 Application for appeal. Any person shall have the right to appeal a decision of the code official to the board of appeals established by ordinance. The board shall be governed by the enabling ordinance.

(Reason: Most jurisdictions already have an ordinance establishing and governing an appeals board for this code. This also calls to the attention of jurisdictions not having such a board that it needs to be established.)

*****Section 305; change to read as follows:**

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

(Reason: Allows for other materials to be accepted.)

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

(Reason: Provides sewer depth that is common in this region. Deleted reference to private sewage disposal because a private sewage disposal code is not typically adopted in this region.)

****Section 305.7; change to read as follows:**

305.7 Protection of components of plumbing system. Components of a plumbing system installed within 3 feet along alleyways, driveways, parking garages or other locations in a manner in which they could be exposed to damage shall be recessed into the wall or otherwise protected in an approved manner.

(Reason: Provide a common cutoff point to designate a general separation distance at which plumbing systems should be safe for consistency in enforcement.)

*****Section 306; change to read as follows:**

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

(Reason: To follow manufacturer backfill requirements and to be clear to Inspectors out in the field)

****Section 314.2.1; change to read as follows:**

314.2.1 Condensate disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. ... {text unchanged} ... Condensate shall not discharge into a street, alley, sidewalk, rooftop, or other areas so as to cause a nuisance.

(Reason: Greater specificity in prohibited locations for condensate discharge. It is the intent of this amendment to send condensate discharge into a sanitary sewer drain. Consistent with regional amendment to IMC 307.2.1.)

****Section 409.2; change to read as follows:**

409.2 Water connection. The water supply to a commercial dishwashing machine shall be protected against backflow by an air gap or backflow preventer in accordance with Section 608. (Remainder of section unchanged).

(Reason: Domestic dishwashing machines would be difficult to enforce and should already come equipped with backflow preventers. Consistent with regional amendments in IPC Section 608.)

****Section 413.4; change to read as follows:**

413.4 Required location for floor drains ~~Public laundries and central washing facilities.~~ Floor drains shall be installed in the following areas:

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

(Reason: To make more compatible with local health code practices.)

*****Section 502.3; change to read as follows:**

502.3 Water heaters installed in attics. Attics containing a water heater shall be provided . . . {bulk of paragraph unchanged} . . . side of the water heater. The clear access opening dimensions shall be not less than 20 inches by 30 inches (508 mm by 762 mm) where such dimensions are large enough to allow removal of the water heater. As a minimum, for access to the attic space, provide one of the following:

1. A permanent stair.
2. A pull-down stair with a minimum 300 lb (136 kg) capacity.
3. An access door from an upper floor level.
4. Access Panel may be used in lieu of items 1, 2, and 3 with prior approval of the Code Official due to building conditions.

Exceptions:

1. The passageway and level service space are not required where the appliance is capable of being serviced and removed... {remainder of text unchanged}

(Reason: To provide a safe means of accessibility to appliances in attics and to allow for different types of construction limitations. Consistent with regional amendment to IMC and IFGC)

****Section 502.6; add Section 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, it shall be made accessible by a stairway or permanent ladder fastened to the building.

Exception: A max 10-gallon water heater (or larger with approval) is capable of being accessed through a lay-in ceiling and a water heater is installed is not more than ten (10) feet (3048 mm) above the ground or floor level and may be reached with a portable ladder.

(Reason: To provide safe access to water heaters. (Consistent with regional amendments to IFGC 306.7 and IMC 306.3. Note reference to amendment above.)

*****Section 504.6; change to read as follows:**

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

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

Exception: Multiple relief devices may be installed to a single T & P discharge piping system when *approved* by the administrative authority and permitted by the manufacture's installation instructions and installed with those instructions.

5. Discharge ~~to the floor, to the pan serving the water heater or storage tank, to a waste receptor~~ an approved location or to the outdoors.
6. Discharge in a manner that does not cause personal injury or structural damage.
7. Discharge to a termination point that is readily observable by the building occupants.
8. Not be trapped.
9. Be installed so as to flow by gravity.
10. Terminate not more than 6 inches above and not less than two times the discharge pipe diameter above the floor or flood level rim of the waste receptor.
11. Not have a threaded connection at the end of such piping.
12. Not have valves or tee fittings.
13. Be constructed of those materials listed in Section 605.4 or materials tested, rated and *approved* for such use in accordance with ASME A112.4.1.
14. Be one nominal size larger than the size of the relief valve outlet, where the relief valve discharge piping is installed with insert fittings. The outlet end of such tubing shall be fastened in place

(Reason: To provide a higher degree of safety.)

****Section 504.7.1; change to read as follows:**

Section 504.7.1 Pan size and drain to read as follows: The pan shall be not less than 1 1/2 inches (38 mm) in depth and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a diameter of not less than 3/4 inch (19 mm). Piping for safety pan drains shall be of those materials listed in Table 605.4. Multiple pan drains may terminate to a single discharge piping system when approved by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions.

****Section 608.1; change to read as follows:**

608.1 General. A potable water supply system shall be designed, installed and maintained in such a manner so as to prevent contamination from non-potable liquids, solids or gases being introduced into the potable water supply through cross-connections or any other piping connections to the system. Backflow preventer applications shall conform to applicable local regulations, Table 608.1, except and as specifically stated in Sections 608.2 through 608.16.10.

(Reason: To recognize local requirements.)

****Section 608.17.5; change 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 principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

(Reason: To recognize regional practices.)

****Section 608.18; change to read as follows:**

608.18 Protection of individual water supplies. An individual water supply shall be located and constructed so as to be safeguarded against contamination in accordance with applicable local regulations. Installation shall be in accordance with Sections 608.17.1 through 608.17.8.

(Reason: To allow local requirements to govern.)

Section 703.6; Delete

(Reason: not a standard practice in this region)

****Section 704.5; added to read as follows:**

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

(Reason: to allow owners, installers, inspectors, and design professionals to ready identify product markers to determine they meet all required standards.)

****Section 712.5; add Section 712.5 to read as follows:**

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

(Reason: To address dual pump system. To provide reference for storm drainage systems.)

****Section 713, 713.1; change to read as follows:**

SECTION 713

ENGINEERED COMPUTERIZED DRAINAGE DESIGN

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

(Reason: Code was too restrictive.)

****Section 803.3; added to read as follows:**

803.3 Special waste pipe, fittings, and components. Pipes, fittings, and components receiving or intended to receive the discharge of any fixture into which acid or corrosive chemicals are placed shall be constructed of CPVC, high silicone iron, PP, PVDF, chemical resistant glass, or glazed ceramic materials.

(Reason: To clarify the allowable materials which are specifically listed for chemical drainage applications.)

****Section 903.1; change to read as follows:**

903.1 Roof extension. Open vent pipes that extend through a roof shall terminate not less than six (6) inches (152 mm) above the roof. Where a roof is to be used for assembly or as a promenade, observation deck, sunbathing deck or similar purposes, open vent pipes shall terminate not less than 7 feet (2134 mm) above the roof.

(Reason: To provide regional guideline on standard installation method for this area and address reference number correction.)

*****Section 918.8; change to read as follows.**

918.8 Where permitted. Individual, branch and circuit vents shall be permitted to terminate with a connection to an individual or branch-type air admittance valve in accordance with Section 918.3.1. Stack vents and vent stacks shall be permitted to terminate to stack-type air admittance valves in accordance with Section 918.3.2. Air admittance valves shall only be installed with the prior approval of the building official.

(Reason: Mechanical Device that is subject to fail and not installed per manufacturer)

****Section 1003; see note below:**

{Until the Health and Water Departments of the area can coordinate a uniform grease interceptor section, each city will have to modify this section individually.}

****Section 1106.1; change 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 six (6) inches per hour

the 100-year hourly rainfall rate indicated in Figure 1106.1 or on other rainfall rates determined from approved local weather data.

(Reason: Specify the roof drain size normally used in the area.)

****Section 1108.3; change to read as follows:**

1108.3 Sizing of secondary drains. Secondary (emergency) roof drain systems shall be sized in accordance with Section 1106 based on the rainfall rate for which the primary system is sized in Figure 1106.1 or on other rainfall rates determined from approved local weather data. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system.

(Reason: Specify that overflow drainage is to be the same size as the normal roof drains.)

****Section 1109; delete this section.**

*****Section 1202.1; delete Exceptions 1 and 2.**

(Reason: State law already specifies that Med Gas systems must comply with NFPA 99.)

END

**Double Oak Amendments to the
2018 International Fuel Gas Code**
North Central Texas Council of Governments Region

The following sections, paragraphs, and sentences of the *2018 International Fuel Gas Code* are hereby amended as follows: Standard type is text from the IFGC. Underlined type is text inserted. ~~Lined through type is deleted text from IFGC.~~ A double asterisk at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple asterisk identifies a new or revised amendment with the 2018 code.

****Section 101.2**

{Local amendments to Section 101.2 may be necessary to correspond with the State Plumbing Licensing Law.}

****Section 102.2; add an exception to read as follows:**

Exception: Existing dwelling units shall comply with Section 621.2.

(Reason: Previous code provisions made unvented heater provisions retroactive except as provided for in local amendment. This amendment and amendment to IFGC 621.2 better clarify what the code already states: existing systems may stay unless considered unsafe.)

****Section 102.8; change to read as follows:**

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

(Reason: Legal wording to recognize locally adopted codes and amendments adopted with referenced codes.)

*****Section 306.3; change to read as follows:**

[M] 306.3 Appliances in attics. Attics containing appliances shall be provided . . . *{bulk of paragraph unchanged}* . . . side of the *appliance*. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), and large enough to allow removal of the largest *appliance*. As a minimum, for access to the attic space, provide one of the following:

9. A permanent stair.
10. A pull down stair with a minimum 300 lb (136 kg) capacity.
11. An access door from an upper floor level.
12. Access Panel may be used in lieu of items 1, 2, and 3 with prior approval of the code official due to building conditions.

Exceptions:

1. The passageway and level service space are not required where the *appliance* is capable of being serviced and removed through the required opening.
2. Where the passageway is not less than . . . *{bulk of section to read the same}*.

(Reason: To provide a safe means of accessibility to appliances in attics and to allow for different types of construction limitations. Consistent with regional amendment to IMC 306.3.)

*****Section 306.5; change to read as follows:**

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

(Reason: To assure safe access to roof appliances. Consistent with IMC amendments.)

****Section 306.5.1; change to read as follows:**

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

(Reason: To assure safe access to roof appliances. Consistent with IMC amendments.)

****Section 401.5; add a second paragraph to read as follows:**

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

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

(Reason: To protect homeowners and plumbers.)

****Section 404.12; change to read as follows:**

404.12 Minimum burial depth. Underground piping systems shall be installed a minimum depth of ~~42~~ 18 inches (305 ~~458~~ mm) top of pipe below grade, ~~except as provided for in Section 404.12.1.~~

404.12.1 Delete in its entirety

(Reason: To provide increased protection to piping systems and address reference number change.)

****Section 406.4; change to read as follows:**

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

(Reason: To require the use of more accurate diaphragm gauges. Spring gauges do not provide accurate measurement below approximately 17 psig.)

****Section 406.4.1; change to read as follows:**

406.4.1 Test pressure. The test pressure to be used shall be no less than 1 1/2 times the proposed maximum working pressure, but no less than 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge, irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 1/2"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 1/2"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

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

(Reason: To provide for lesser pressures to coordinate with the use of more accurate diaphragm gauges.)

****Section 409.1; add Section 409.1.4 to read as follows:**

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

(Reason: To provide proper security to CSST valves. These standards were established in this region in 1999 when CSST was an emerging technology.)

****Section 410.1; add a second paragraph and exception to read as follows:**

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

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

(Reason: To require adequate access to regulators.)

****Section 621.2; add exception as follows:**

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

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

(Reason: Gives code official discretion.)

END

**Double Oak Amendments to the
2017 National Electrical Code
North Central Texas Council of Governments**

The following articles, paragraphs, and sentences of the *2020 National Electrical Code (NEC)* are hereby amended as follows: Standard type is text from the NEC. Highlighted with gray shading is text inserted. Lined through type is deleted text from NEC. A double asterisk (**) at the beginning of an article identifies an amendment carried over from the 2017 edition of the code and a triple asterisk (***) identifies a new or revised amendment with the 2020 code.

****Article 100; add the following to definitions:**

Engineering Supervision. Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations.

(REASON FOR CHANGE: To better define the qualifications for engineering supervision. This term is used twenty-four times in the 2017 National Electrical Code.)

****Article 110.2; change the following to read as follows:**

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

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

~~Manufacturer's self-certification of any equipment shall not be used as a basis for approval by the AHJ.~~

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

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

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

(REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval of unlisted equipment.)

*****Article 400.8 Field Identification Required: Change the following to read as follows**

408.4 Field Identification Required.

(A) Circuit Directory or Circuit Identification.

Every circuit and circuit modification shall be legibly identified as to its clear, evident, and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. Spare positions that contain unused overcurrent devices or switches shall be described accordingly. The identification shall be included in a circuit directory that is located on the face or inside of or in an approved location adjacent *and permanently affixed* the panel door in the case of a panelboard and at each switch or circuit breaker in a switchboard or switchgear. No circuit shall be described in a manner that depends on transient conditions of occupancy.

(REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval)

*****Article 410.118: Change the following to read as follows**

410.118 Access to other boxes.

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

Exception: removable luminaires with a minimum measurement of 22 in. X 22 in. shall be permitted to be used as access to outlet, pull, junction boxes or conduit bodies.

REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval. This will allow access to boxes not integral with the luminaire. This measurement aligns with the limited access above a lay-in ceiling measurement in 110.26(A)(4).

)

*****Article 422.31 B: Change the following to read as follows**

422.31 B Appliances Rated over 300 Volt-Amperes

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

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

Informational Note No 2: The following means of access are considered to constitute readily accessible for this code change when conforming to the additional access requirements of the I Codes:

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

REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval)

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

500.8 Equipment.

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

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

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

Informational Note No. 3: Low ambient conditions require special consideration. Explosion proof or dust-ignition proof equipment may not be suitable for use at temperatures lower than -25°C

(-13°F) unless they are identified for low-temperature service. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified as Class I, Division 1 at normal ambient temperature.

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

- (1) Equipment listing or labeling;
- (2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation; or,

- (3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation or ~~an owner's engineering judgment~~, an engineering judgment signed and sealed by a qualified ~~Registered~~ licensed Professional Engineer in the State of Texas.

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

(REASON FOR CHANGE: Carry over from previous amendment with change to better define the qualifications for an engineering judgment.)

****Article 505.7 (A) changed to read as follows:**

505.7 Special Precaution.

Article 505 requires equipment construction and installation that ensures safe performance under conditions of proper use and maintenance.

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

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

- (A) Implementation of Zone Classification System.** Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed by a qualified ~~persons~~ Registered licensed Professional Engineer in the State of Texas.

(REASON FOR CHANGE: Carry over from previous amendment with change to better define the qualifications for an engineering judgment.)

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

695.6 (A) Supply Conductors.

(1) Services and On-Site Power Production Facilities.

Service conductors and conductors supplied by on-site power production facilities shall be physically routed outside a building(s) and shall be installed as service-entrance conductors in accordance with 230.6, 230.9, and Parts III and IV of Article 230. Where supply conductors cannot be physically routed outside of buildings, the conductors shall

be permitted to be routed through the building(s) where installed in accordance with 230.6(1) or (2).

Exception: The supply conductors within the fire pump room shall not be required to meet 230.6 (1) or (2)

(REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval. All Fire Pump rooms are not Fire Rated as on all 4 sides. There are Fault Currents that could exceed 150,000-190,000 amps and protection of these Service Conductors is essential and conflict with other codes specifically 230.70(A)(1).)

*****Article 71.15 A: Change the following to read as follows**

710.15 General

710.15(A) Supply Output.

Power supply to premises wiring systems fed by stand-alone or isolated microgrid power sources shall be permitted to have less capacity than the calculated load. The capacity of the sum of all sources of the stand-alone supply shall be equal to or greater than the load posed by the largest single utilization equipment connected to the system. Calculated general lighting loads shall not be considered as a single load have adequate capacity to meet the calculated load in accordance with Article 220.

Informational Note: For general use loads the system capacity can be calculated using the sum of the capacity of the firm sources, such as generators and ESS inverters. For specialty loads intended to be powered directly from a variable source, the capacity can be calculated using the sum of the variable sources, such as PV or wind inverters, or the combined capacity of both firm and variable sources.

(REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval. Unless amended, standby systems would not be required to meet any load demanded by their standby definitions.)

END

**Double Oak Amendments to the
2018 International Fire Code**
North Central Texas Council of Governments Region

The following sections, paragraphs, and sentences of the *2018 International Fire Code* (IFC) are hereby amended as follows: Standard type is text from the IFC. Underlined type is text inserted. ~~Lined through type is deleted text from IFC.~~ A double asterisk (**) at the beginning of a section identifies an amendment carried over from the 2015 edition of the code and a triple asterisk (***) identifies a new or revised amendment with the 2018 code.

Note: Historically, the North Central Texas Council of Governments (NCTCOG) has limited Chapter 1 amendments in order to allow each city to insert their local policies and procedures. We now have suggested certain items to be brought to the attention of cities considering adoption of the code that may be of concern to several jurisdictions. **It is still intended to be discretionary to each city to determine which Chapter 1 amendments to include.** Note that Appendices must be specifically adopted by Ordinance. As per Page vii of the 2018 IFC, note that several sections of the code require jurisdictional specificity as to dollar amounts, geographic limits, etc. and are not addressed in these amendments.

****Section 102.1; change #3 to read as follows:**

3. Existing structures, facilities, and conditions when required in Chapter 11 or in specific sections of this code.

(Reason: To clarify that there are other provisions in the fire code applicable to existing buildings that are not located in Chapter 11, including but not limited to Section 505 Premises Identification.)

****Section 105.3.3; change 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 conducting associated inspections indicating the applicable provisions of this code have been met.

(Reason: For clarity to allow for better understanding in areas not requiring such permits, such as unincorporated areas of counties. This amendment may be struck by a city.)

****Section 105.7; add Section 105.7.26 to read as follows:**

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

(Reason: Adds construction permit requirements for electronic access control systems affecting access and/or egress to ensure proper design and installation of such systems. These changes reflect local practices of municipalities in this region.)

****Section 202; amend and add definitions to read as follows:**

**** [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. This group may include but not be limited to the following:

- Dialysis centers

- Procedures involving sedation

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

(Reason: to clarify the range of uses included in the definition)

**** [B] ATRIUM.** An opening connecting ~~two~~ three or more stories... *{remaining text unchanged}*

(Reason: Accepted practice in the region based on legacy codes. IBC Section 1009 permits unenclosed two story stairways under certain circumstances.)

**** [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.

(Reason: Added from International Building Code (IBC) definitions for consistency in interpretation of the subject requirements pertaining to such occupancies.)

****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.

(Reason: Clearly defines options to the fire department for providing a fire watch.)

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

(Reason: Increased safety from fireworks related injuries.)

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

Any building classified as a group S Occupancy or Speculative Building exceeding 12,000 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.

(Reason: To provide protection for worst-case scenario in flexible or unknown situations.)

****Option A**

HIGH-RISE BUILDING. {No Change Required}

(Reason: Allows for additional construction safety features to be provided, based on firefighting response capabilities.)

****REPAIR GARAGE.** A building, structure or portion thereof used for servicing or repairing motor vehicles. This occupancy shall also include garages involved in minor repair, modification and servicing of

motor vehicles for items such as lube changes, inspections, windshield repair or replacement, shocks, minor part replacement, and other such minor repairs.

(Reason: To further clarify types of service work allowed in a repair garage, as well as to correspond with definition in the IBC.)

****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.

(Reason: To provide a definition that does not exist in the code.)

****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.

(Reason: To provide a definition that does not exist in the code for fire watch accommodations as required by the jurisdiction.)

****UPGRADED OR REPLACED FIRE ALARM SYSTEM.** A fire alarm system that is upgraded or replaced includes, but is not limited to the following:

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

The following are not considered an upgrade or replacement:

- Firmware updates
- Software updates
- Replacing boards of the same model with chips utilizing the same or newer firmware

(Reason: This is referenced in several places, but the wording of "upgraded or replaced" is somewhat ambiguous and open to interpretation. Defining it here allows for consistent application across the region.)

****Section 307.1.1; change to read as follows:**

****Section 307.1.1; change to read as follows:**

307.1.1 Prohibited Open Burning. Open burning shall be prohibited that is offensive or objectionable because of smoke emissions or when atmospheric conditions or local circumstances make such fires hazardous shall be prohibited.

Exception: {No change.}

(Reason: To further protect adjacent property owners/occupants from open burning and/or smoke emissions from open burning.)

****Section 307.2; change to read as follows:**

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

Examples of state or local law, or regulations referenced elsewhere in this section may include but not be limited to the following:

1. Texas Commission on Environmental Quality (TCEQ) guidelines and/or restrictions.
2. State, County, or Local temporary or permanent bans on open burning.
3. Local written policies as established by the fire code official.

(Reason: Amendments to 307.2, 307.4, 307.4.3, and 307.5 better explain current requirements and recognize that jurisdictions have local established policies that best fit their environments.)

****Section 307.3; change to read as follows:**

307.3 Extinguishment Authority. ~~When open burning creates or adds to a hazardous situation, or a required permit for open burning has not been obtained, the fire code official is authorized to order the extinguishment of the open burning operation. The fire code official is authorized to order the extinguishment by the permit holder, another person responsible or the fire department of open burning that creates or adds to a hazardous or objectionable situation.~~

(Reason: Provides direction as to responsible parties relative to extinguishment of the subject open burning.)

****Section 307.4; change to read as follows:**

307.4 Location. The location for open burning shall not be less than ~~50~~ 300 feet (~~15-240~~ 91 440 mm) from any structure, and provisions shall be made to prevent the fire from spreading to within ~~50~~ 300 feet (~~15-240~~ 91 440 mm) of any structure.

Exceptions: {No change.}

(Reason: To increase the separation distance thereby increasing the safety to adjacent properties, as per applicable TCEQ rules and regulations regarding outdoor burning.)

****Section 307.4.3, Exceptions; add exception #2 to read as follows:**

Exceptions:

2. Where buildings, balconies and decks are protected by an approved automatic sprinkler system.

(Reason: To reflect similar allowances for open-flame cooking in these same locations.)

****Section 307.4.4 and 5; add section 307.4.4 **Section 307.4.4 and 307.4.5; change 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 Building Code.

307.4.5 Trench Burns. Trench burns shall be conducted in air curtain trenches and in accordance with Section 307.2.

(Reason: To provide a greater level of safety for this potentially hazardous fire exposure condition. Decrease in separation distance allowed for outdoor firepits due to permanent nature of construction having substantial securement.)

****Section 307.5; change to read as follows:**

307.5 Attendance. Open burning, trench burns, bonfires, recreational fires, and use of portable outdoor fireplaces shall be constantly attended until the... {Remainder of section unchanged}

(Reason: Adds attendance for trench burns based on previous amendment provision for such.)

****Section 308.1.4; change to read as follows:**

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

Exceptions:

1. One- and two-family dwellings, except that LP-gas containers are limited to a water capacity not

greater than 50 pounds (22.68 kg) [nominal 20 pound (9.08 kg) LP-gas capacity] with an aggregate LP-gas capacity not to exceed 100 pounds (5 containers).

2. Where buildings, balconies and decks are protected by an approved automatic sprinkler system, except that LP-gas containers are limited to a water capacity not greater than 50 pounds (22.68 kg) [nominal 20 pound (9.08 kg) LP-gas capacity], with an aggregate LP-gas capacity not to exceed 40 lbs. (2 containers).

3. {No change.}

(Reason: Decrease fire risk in multi-family dwellings and minimizes ignition sources and clarify allowable limits for 1 & 2 family dwellings, and allow an expansion for sprinklered multi-family uses. This amendment adds clarification and defines the container size allowed for residences.)

****Section 308.1.6.2, Exception #3; change to read as follows:**

Exceptions:

3. Torches or flame-producing devices in accordance with Section 308.4 308.1.3.

(Reason: Section identified in published code is inappropriate.)

****Section 308.1.6.3; change to read as follows:**

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

(Reason: Eliminates the potential fire hazard presented by utilization of such devices and the potential accidental release of such devices.)

****Section 311.5; change to read as follows:**

311.5 Placards. ~~Any~~ The fire code official is authorized to require marking of any vacant or abandoned buildings or structures determined to be unsafe pursuant to Section 110 of this code relating to structural or interior hazards, ~~shall be marked as required by Section 311.5.1 through 311.5.5.~~

(Reason: There may be situations where placarding is not desired or necessary; also clarifies intent that it is not the fire code official's responsibility to provide the placard.)

****Section 403.5; change Section 403.5 to read as follows:**

403.5 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.

(Reason: The diagrams are intended to assist with egress in such occupancies – specifically, the primary teacher is not always present to assist children with egress. Also, such will help reinforce evacuation drill requirements.)

****Section 404.2.2; add Number 4.10 to read as follows:**

4.10 Fire extinguishing system controls.

(Reason: The committee believed this information could be of great help to such plans to facilitate locating sprinkler valves to minimize water damage, for instance.)

****Section 405.4; change Section 405.4 to read as follows:**

405.4 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.

(Reason: This change clarifies who may require a fire or evacuation drill).

****Section 501.4; change 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. , ~~such protection shall be installed and made serviceable prior to and during the time of construction except when approved alternative methods of protection are provided. Temporary street signs shall be installed at each street intersection when construction of new roadways allows passage by vehicles in accordance with Section 505.2.~~

(Reason: Reflects current practice in the region relative to ensuring fire department and EMS access during construction, which can be a time of increased frequency for emergency incidents.)

****Section 503.1.1; add sentence to read as follows:**

Except for one- or two-family dwellings, the path of measurement shall be along a minimum of a ten feet (10') wide unobstructed pathway around the external walls of the structure.

(Reason: Recognizes that the hose lay provision can only be measured along a pathway that is wide enough for fire fighter access.)

****Section 503.2.1; change to read as follows:**

503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm ~~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 ~~13 feet 6 inches (4115 mm)~~ 14 feet (4267 mm).

Exception: Vertical clearance may be reduced; provided such reduction does not impair access by fire apparatus and approved signs are installed and maintained indicating the established vertical clearance when approved.

(Reason: Amendments to 503.2.1 and 503.2.2 recognize that the equipment now used in firefighting is increasing in size. The code already recognizes that larger dimensions may be required under Section 503.2.2. The amendments are to standardize the dimensions for this area. With the increase in fire apparatus size, this will allow for the passage of two fire apparatus during a fire or EMS emergency.)

****Section 503.2.2; change 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.

(Reason: Amendments to 503.2.1 and 503.2.2 recognize that the equipment now used in firefighting is increasing in size. The code already recognizes that larger dimensions may be required under Section 503.2.2. The amendments are to standardize the dimensions for this area. With the increase in fire apparatus size, this will allow for the passage of two fire apparatus during a fire or EMS emergency.)

****Section 503.2.3; change Section 503.2.3 to read as follows:**

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

(Reason: To address the current size of fire trucks in use – figure derived from DOT requirements for waiver of vehicle exceeding such weight.)

****Section 503.3; change to read as follows:**

503.3 Marking. ~~Where required by the fire code official, approved signs or other approved notices or markings that include the words NO PARKING – FIRE LANE 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. ~~The means by which fire lanes are designated 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.

(Reason: Establishes a standard method of marking and reflects local long-standing practices.)

****Section 503.4; change 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.

(Reason: As originally worded, the section implied that vehicles could be parked in the marked fire lane and not be in violation if the minimum width is still maintained. Current accepted enforcement practice is to require the entire marked fire lane to be maintained clear and unobstructed.)

****Section 505.1; change to read as follows:**

****Section 505.1; change 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 ~~4 inches (102 mm)~~ 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 3 ½ 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.

(Reason: To increase the minimum addressing requirements for commercial properties and establish a minimum for single-family residential properties. Such improves legibility of these signs which are critical to emergency response in a more timely manner.)

****Section 507.4; change to read as follows:**

507.4 Water Supply Test Date and Information. The water supply test used for hydraulic calculation of fire protection systems shall be conducted in accordance with NFPA 291 "Recommended Practice for Fire Flow Testing and Marking of Hydrants" and within one year of sprinkler plan submittal. The fire code official shall be notified prior to the water supply test. Water supply tests shall be witnessed by the fire code official, as required or approved documentation of the test shall be provided to the fire code official prior to final approval of the water supply system. The exact location of the static/residual hydrant and the flow hydrant shall be indicated on the design drawings. All fire protection plan submittals shall be accompanied by a hard copy of the waterflow test report, or as approved by the fire code official. The report must indicate the dominant water tank level at the time of the test and the maximum and minimum operating levels of the tank, as well, or identify applicable water supply fluctuation. The licensed contractor must then design the fire protection system based on this fluctuation information, as per the applicable referenced NFPA standard. Reference Section 903.3.5 for additional design requirements.

(Reason: Clarifies intent of the test to ensure contractor accounts for water supply fluctuations.)

****Section 507.5.4; change to read as follows:**

507.5.4 Obstruction. Unobstructed access to fire hydrants shall be maintained at all times. Posts, fences, vehicles, growth, trash, storage and other materials or objects shall not be placed or kept near fire hydrants, fire department inlet connections or fire protection system control valves in a manner that would prevent such equipment or fire hydrants from being immediately discernible. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.

(Reason: Additional guidance based on legacy language to ensure these critical devices are available in an emergency incident.)

****Section 509.1.2; add new Section 509.1.2 to read as follows:**

509.1.2 Sign Requirements. Unless more stringent requirements apply, lettering for signs required by this section shall have a minimum height of 2 inches (50.8 mm) when located inside a building and 4 inches (101.6 mm) when located outside, or as approved by the fire code official. The letters shall be of a color that contrasts with the background.

(Reason: Provides direction as to appropriate sign criteria to develop local and regional consistency in this regard.)

*****Section 603.3.2 and 603.3.2.1; change to read as follows:**

603.3.1 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.

603.3.2 Fuel oil storage inside buildings. Fuel oil storage inside buildings shall comply with Sections 603.3.2.1 through 603.3.2.5 or and Chapter 57.

603.3.2.1 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 for Class III liquids, 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 as a double-wall/secondary containment tank.
3. 3,000 gallons (11 356 L) where stored in protected above-ground tanks complying with UL 2085 and Section 5704.2.9.7 and the room is protected by an *automatic sprinkler* system in accordance with Section 903.3.1.1.

(Reason: Issues addressed by Chapter 57, such as venting to outside of buildings, remote fill to outside of building, overfill protection, physical protection, etc., are not included in Section 603.3, so compliance with Chapter 57 is also required. The Board determined that fuel storage in such tanks inside of buildings is commonly in double-wall tanks, and that this inherent leak protection was prudent in order to allow these quantities of combustible liquids to be stored inside a building for such purpose.)

****Section 807.5.2.2 and 807.5.2.3; change 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.

(Reason: This change allows an increase in wall coverage due to the presence of sprinklers. Also provides additional guidance relative to fire resistance requirements in these areas.)

****Section 807.5.5.2 and 807.5.5.3; change 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.

(Reason: This change allows an increase in wall coverage due to the presence of sprinklers. Also provides additional guidance relative to fire resistance requirements in these areas.)

*****Section 901.6.1; add Section 901.6.1.1 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.

(Reason: Increases the reliability of the fire protection system and re-emphasizes the requirements of NFPA 25 relative to standpipe systems, as well as ensuring that FDC connections are similarly tested/maintained to ensure operation in an emergency incident.)

****Section 901.6.4; add Section 901.6.4 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.

(Reason: Places the responsibility on the business or property owner to maintain their fire alarm systems in approved condition. Allows the enforcement of "prohibition of false alarms". Replaces text lost from the legacy codes that helps to ensure the maintenance of life safety systems.)

****Section 901.7; change 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. ... {Remaining text unchanged}

(Reason: Gives fire code official more discretion with regards to enforcement of facilities experiencing nuisance alarm or fire protection system activations necessitating correction/repair/replacement. The intent of the amendment is to allow local jurisdictions to enforce fire watches, etc., where needed to ensure safety of occupants where fire protection systems are experiencing multiple nuisance activations.)

****Section 903.1.1; change to read as follows:**

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

(Reason: Such alternative systems do not provide the reliability of automatic sprinkler protection. Most gaseous type systems are highly susceptible to open doors, ceiling or floor tile removal, etc. However, an applicant could pursue an Alternate Method request to help mitigate the reliability issues with these alternative systems with the fire code official if so desired, or there may be circumstances in which the fire code official is acceptable to allowing an alternate system in lieu of sprinklers, such as kitchen hoods or paint booths.)

****Section 903.2; add paragraph to read as follows and delete the exception:**

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

(Reason: Firefighter and public safety. This amendment eliminates the shunt trip requirement of the International Building Code Section 3005.5 for the purpose of elevator passenger and firefighter safety. This amendment is contingent on the Building Code amendment eliminating the Exceptions to Section 3005.4, such that passive fire barriers for these areas are maintained. The exception deletion is due to the fact that such telecom areas pose an undue fire risk to the structural integrity of the building.)

****Section 903.2.9; add Section 903.2.9.3 to read as follows:**

903.2.9.3 Self-Service Storage Facility. An automatic sprinkler system shall be installed throughout all self-service storage facilities.

(Reason: Fire departments are unable to inspect these commercial occupancies and are unaware of the contents being stored. Previous allowance to separate units by fire barriers is difficult to enforce maintenance after opening.)

****Option A**

Section 903.2.11; change 903.2.11.3 and add 903.2.11.7 and 903.2.11.8, as follows:

903.2.11.3 Buildings 55 Feet or more in Height. An automatic sprinkler system shall be installed throughout buildings that have one or more stories ~~with an occupant load of 30 or more, other than penthouses~~ in compliance with Section 1510 of the *International Building Code*, located 55 feet (16 764 mm) or more above the lowest level of fire department vehicle access, measured to the finished floor.

Exceptions:

1. Open parking structures in compliance with Section 406.5 of the International Building Code, having no other occupancies above the subject garage.

2. _____ Occupancies _____ in _____ Group _____ F-2.

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.

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.

(Reason: Provides jurisdictions options as to their desired level of sprinkler protection based on multiple factors including firefighting philosophies/capabilities.)

****Section 903.3.1.1.1; change 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 ... *{text unchanged}*... 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 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. ~~In rooms or areas that are of noncombustible construction with wholly noncombustible contents.~~
5. ~~Fire service access~~ Elevator machine rooms, and machinery spaces, and hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances.
6. ~~{Delete.}~~

(Reason: Gives more direction to code official. Exception 4 deleted to provide protection where fire risks are poorly addressed. Amendment 903.2 addresses Exception 5 above relative to the elimination of sprinkler protection in these areas to avoid the shunt trip requirement.)

*****Section 903.3.1.2.3; delete section and replace as follows:**

[F] Section 903.3.1.2.3 Attached Garages and Attics. Sprinkler protection is required in attached garages, and in the following attic spaces:

1. Attics that are used or intended for living purposes or storage shall be protected by an automatic sprinkler system.
2. Where fuel-fired equipment is installed in an unsprinklered attic, not fewer than one quick-response intermediate temperature sprinkler shall be installed above the equipment.
3. Attic spaces of buildings that are two or more stories in height above grade plane or above the lowest level of fire department vehicle access.
4. Group R-4, Condition 2 occupancy attics not required by Item 1 or 3 to have sprinklers shall comply with one of the following:
 - 4.1. Provide automatic sprinkler system protection.
 - 4.2. Provide a heat detection system throughout the attic that is arranged to activate the building fire alarm system.
 - 4.3. Construct the attic using noncombustible materials.
 - 4.4. Construct the attic using fire-retardant-treated wood complying with Section 2303.2 of the International Building Code.
 - 4.5. Fill the attic with noncombustible insulation.

(Reason: Attic protection is required due to issues with fire exposure via soffit vents, as well as firefighter safety. Several jurisdictions indicated experience with un-protected attic fires resulting in displacement of all building occupants. NFPA 13 provides for applicable attic sprinkler protection requirements, as well as exemptions to such, based on noncombustible construction, etc. Attached garages already require sprinklers via NFPA 13R – this amendment just re-emphasizes the requirement.)

****Section 903.3.1.3; change 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.*

(Reason: To allow the use of the Plumbing section of the International Residential Code (IRC) and recognize current state stipulations in this regard.)

****Section 903.3.1.4; add 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.

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

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

1. The attic sprinklers are supplied by a separate floor control valve assembly to allow ease of draining the attic system without impairing sprinklers throughout the rest of the building, 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.

(Reason: In the last few years, severe winters brought to light several issues with current practices for sprinklering attics, not the least of which was wet-pipe sprinklers in ventilated attics provided with space heaters, etc. for freeze protection of such piping. This practice is not acceptable for the protection of water-filled piping in a ventilated attic space as it does not provide a reliable means of maintaining the minimum 40 degrees required by NFPA, wastes energy, and presents a potential ignition source to the attic space. Listed antifreeze is specifically included because NFPA currently allows such even though there is no currently listed antifreeze at the time of development of these amendments. The intent of this amendment is to help reduce the large number of freeze breaks that have occurred in the past with water-filled wet-pipe sprinkler systems in the future, most specifically in attic spaces.)

****Section 903.3.5; add a second paragraph to read as follows:**

Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every water-based fire protection system shall be designed with a 10 psi safety factor. Reference Section 507.4 for additional design requirements.

(Reason: To define uniform safety factor for the region.)

****Section 903.4; add a second paragraph after the exceptions to read as follows:**

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

(Reason: To avoid significant water losses. Consistent with amendment to IFC 905.9.)

****Section 903.4.2; add second paragraph to read as follows:**

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

(Reason: Fire department connections are not always located at the riser; this allows the fire department faster access.)

****Section 905.2; change 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.

(Reason: To define manual dry standpipe supervision requirements. Helps ensure the integrity of the standpipe system via supervision, such that open hose valves will result in a supervisory low air alarm.)

*****Section 905.3; 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.

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.

(Reason: Allows for the rapid deployment of hose lines to the body of the fire. Manual dry option added this edition.)

****Section 905.4, change Item 1, 3, and 5, and add Item 7 to read as follows:**

1. In every required interior-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.
2. {No change.}
3. In every exit passageway, at the entrance from the exit passageway to other areas of a building.

Exception: Where floor areas adjacent to an exit passageway are reachable from an interior exit stairway hose connection by a {remainder of text unchanged}

4. {No change.}
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 two-way a hose connection shall be 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.
6. {No change.}
7. When required by this Chapter, standpipe connections shall be placed adjacent to all required exits to the structure and at two hundred feet (200') intervals along major corridors thereafter, or as otherwise approved by the fire code official.

(Reason: Item 1, 3, and 5 amendments to remove 'interior' will help to clarify that such connections are required for all 'exit' stairways, to ensure firefighter capabilities are not diminished in these tall buildings, simply because the stair is on the exterior of the building. Item 5 reduces the amount of pressure required to facilitate testing, and provides backup protection for fire fighter safety. Item 7 allows for the rapid deployment of hose lines to the body of the fire.)

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

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

(Reason: To avoid significant water losses. Consistent with amendment to IFC 903.4.)

****Section 907.1; add Section 907.1.4 and 907.1.4.1 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.

(Reason: Provides for the ability of descriptive identification of alarms, and reduces need for panel replacement in the future. Updated wording to match the language of the new requirement at 907.5.2.3. Change of terminology allows for reference back to definitions of NFPA 72.)

****Section 907.2.1; change 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 ~~where the having an~~ occupant load ~~due to the assembly occupancy is of~~ 300 or more persons, or where the Group A occupant load is more than 100 persons above or below the *lowest level of exit discharge*. Group A occupancies not separated from one another in accordance with Section 707.3.-10 of the *International Building Code* shall be considered as a single occupancy for the purposes of applying this section. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy.

Exception: {No change.}

Activation of fire alarm notification appliances shall:

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

(Reason: Increases the requirement to be consistent with Group B requirement. Also addresses issue found in Group A occupancies of reduced lighting levels and other A/V equipment that distracts from fire alarm notification devices or reduces ability of fire alarm system to notify occupants of the emergency condition.)

****Section 907.2.3; change to read as follows:**

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

Exceptions:

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

(Reason: To distinguish educational from day care occupancy minimum protection requirements. Further, to define threshold at which portable buildings are considered a separate building for the purposes of alarm systems. Exceptions provide consistency with State law concerning such occupancies.)

****Section 907.2.12, Exception 3; change to read as follows:**

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

(Reason: To indicate that enclosed areas within open air seating type occupancies are not exempted from automatic fire alarm system requirements.)

****Section 907.4.2; add Section 907.4.2.7 to read as follows:**

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

(Reason: Helps to reduce false alarms.)

****Section 907.6.1; add 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.

(Reason: To provide uniformity in system specifications and guidance to design engineers. Improves reliability of fire alarm devices and systems.)

****Section 907.6.3; delete all four Exceptions.**

(Reason: To assist responding personnel in locating the emergency event for all fire alarm systems. This is moved from 907.6.5.3 in the 2012 IFC and reworded to match new code language and sections.)

****Section 907.6.6; – add sentence at end of paragraph to read as follows:**

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

(Reason: To assist responding personnel in locating the emergency event for all fire alarm systems. This is moved from 907.6.5.3 in the 2012 IFC and reworded to match new code language and sections.)

****Section 909.22; add to read as follows:**

909.22 Stairway or Ramp Pressurization Alternative. Where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and the stair pressurization alternative is chosen for compliance with Building Code requirements for a smokeproof enclosure, interior exit stairways or ramps shall be pressurized to a minimum of 0.10 inches of water (25 Pa) and a maximum of 0.35 inches of water (87 Pa) in the shaft relative to the building measured with all interior exit stairway and ramp doors closed under maximum anticipated conditions of stack effect and wind effect. Such systems shall comply with Section 909, including the installation of a separate fire-fighter's smoke control panel as per Section 909.16, and a Smoke Control Permit shall be required from the fire department as per Section 105.7.

909.22.1 Ventilating equipment. The activation of ventilating equipment for the stair or ramp pressurization system shall be by smoke detectors installed at each floor level at an approved location at the entrance to the smokeproof enclosure. When the closing device for the stairway or ramp shaft and vestibule doors is activated by smoke detection or power failure, the mechanical equipment shall activate and operate at the required performance levels. Smoke detectors shall be installed in accordance with Section 907.3.

909.22.1.1 Ventilation Systems. Smokeproof enclosure ventilation systems shall be independent of other building ventilation systems. The equipment, control wiring, power wiring and ductwork shall comply with one of the following:

1. Equipment, control wiring, power wiring and ductwork shall be located exterior to the building and directly connected to the smokeproof enclosure or connected to the smokeproof enclosure by ductwork enclosed by not less than 2-hour fire barriers constructed in accordance with Section 707 of the Building Code or horizontal assemblies constructed in accordance with Section 711 of the Building Code, or both.
2. Equipment, control wiring, power wiring and ductwork shall be located within the smokeproof enclosure with intake or exhaust directly from and to the outside or through ductwork enclosed by not less than 2-hour barriers constructed in accordance with Section 707 of the Building Code or horizontal assemblies constructed in accordance with Section 711 of the Building Code, or both.
3. Equipment, control wiring, power wiring and ductwork shall be located within the building if separated from the remainder of the building, including other mechanical equipment, by not less than 2-hour fire barriers constructed in accordance with Section 707 of the Building Code or horizontal assemblies constructed in accordance with Section 711 of the Building Code, or both.

Exceptions:

1. Control wiring and power wiring utilizing a 2-hour rated cable or cable system.
2. Where encased with not less than 2 inches (51 mm) of concrete.
3. Control wiring and power wiring protected by a listed electrical circuit protective systems with a fire-resistance rating of not less than 2 hours.

909.21.1.2 Standby Power. Mechanical vestibule and stairway and ramp shaft ventilation systems and automatic fire detection systems shall be provided with standby power in accordance with Section 2702 of the Building Code.

909.22.1.3 Acceptance and Testing. Before the mechanical equipment is approved, the system shall be tested in the presence of the fire code official to confirm that the system is operating in compliance with these requirements.

(Reason: To assist with enforcement of such as a smoke control system, as per Section 909.6.3, especially since a permit is now specifically required for such systems in the Fire Code. Also ensures that a firefighter's override panel is provided as per 909.16 for such systems. The above amendment copies the applicable requirements for such systems from Section 909.20 of the Building Code into the Fire Code. Although the published code did copy the elevator pressurization requirements into the Fire Code, it did not copy over the stair pressurization requirements.)

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

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

(Reason: Allows the fire department to control the smoke and heat during and after a fire event, while still prohibiting such systems from being automatically activated, which is a potential detriment to the particular sprinkler systems indicated.)

****Section 910.2; add subsections 910.2.3 with exceptions to read as follows:**

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

1. In occupancies classified as Group H-2 or H-3, any of which are more than 15,000 square feet (1394 m²) in single floor area.

Exception: Buildings of noncombustible construction containing only noncombustible materials.

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

Exception: Buildings of noncombustible construction containing only noncombustible materials.

(Reason: Maintains a fire protection device utilized in such occupancies where it is sometimes necessary to allow chemicals to burn out, rather than extinguish.)

****Section 910.3; 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 910.3.2.1 through 910.3.2.3.

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 Nonsprinklered 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.

(Reason: Amendment continues to keep applicable wording from prior to the 2012 edition of the IFC. Specifically, automatic activation criteria is no longer specifically required in the published code. Specifying a temperature range at which smoke and heat vents should activate in sprinklered buildings helps to ensure that the sprinkler system has an opportunity to activate and control the fire prior to vent operation.)

****Section 910.4.3.1; change 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 manual or 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.

(Reason: Makeup air has been required to be automatic for several years now in this region when mechanical smoke exhaust systems are proposed. This allows such systems to be activated from the smoke control panel by first responders without having to physically go around the exterior of the building opening doors manually. Such requires a significant number of first responders on scene to conduct this operation and significantly delays activation and/or capability of the smoke exhaust system.)

****Section 912.2; add Section 912.2.3 to read as follows:**

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

(Reason: To accommodate limited hose lengths, improve response times where the FDC is needed to achieve fire control, and improve ease of locating a fire hydrant in those situations also. Also, consistent with NFPA 14 criteria.)

****Section 913.2.1; add second paragraph and exception to read as follows:**

When located on the ground level at an exterior wall, the fire pump room shall be provided with an exterior fire department access door that is not less than 3 ft. in width and 6 ft. – 8 in. in height, regardless of any interior doors that are provided. A key box shall be provided at this door, as required by Section 506.1.

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

(Reason: This requirement allows fire fighters safer access to the fire pump room. The requirement allows access without being required to enter the building and locate the fire pump room interior access door during a fire event. The exception recognizes that this will not always be a feasible design scenario for some buildings, and as such, provides an acceptable alternative to protect the pathway to the fire pump room.)

****Section 914.3.1.2; change to read as follows:**

914.3.1.2 Water Supply to required Fire Pumps. In buildings that are more than 420 ~~120~~ feet (37 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: {No change to exception.}

(Reason: The 2009 edition of the IFC added this requirement based on a need for redundancy of the water supply similar to the redundancy of the power supply to the fire pumps required for such tall buildings, partially due to the fact that these buildings are rarely fully evacuated in a fire event. More commonly, the alarm activates on the floor of the event, the floor above and the floor below. Back-up power to the fire pump becomes critical for this reason. Certainly, the power is pointless if the water supply is impaired for any reason, so a similar requirement is provided here for redundant water supplies. The 2015 edition changes the requirement to only apply to very tall buildings over 420 ft. This amendment modifies/lowers the requirement to 120 ft., based on this same height requirement for fire service access elevators. Again, the language from the 2009 and 2012 editions of the code applied to any high-rise building. This compromise at 120 ft. is based on the above technical justification of defend-in-place scenarios in fire incidents in such tall structures.)

****Section 1006.2.2.7; Add Section 1006.2.2.7 as follows:**

1006.2.2.7 Electrical Rooms. For electrical rooms, special exiting requirements may apply. Reference the electrical code as adopted.

(Reason: Cross reference necessary for coordination with the NEC which has exiting requirements as well.)

****Section 1009.8; add the following Exception 7:**

Exceptions:

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

(Reason: To accommodate buildings regulated under Texas State Law and to be consistent with amendments in Chapter 11.)

****Section 1010.1.9.5 Bolt Locks; amend exceptions 3 and 4 as follows:**

Exceptions:

3. Where a pair of doors serves an occupant load of less than 50 persons in a Group B, F, M or S occupancy. (Remainder unchanged)
4. Where a pair of doors serves a Group A, B, F, M or S occupancy (remainder unchanged)

(Reason: Application to M occupancies reflects regional practice; No. 4 expanded to Group A due to it being a similar scenario to other uses; No. 4 was regional practice.)

****Section 1020.1 Construction; add exception 6 to read as follows:**

6. In 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.

(Reason: Regionally accepted alternate method.)

****Section 1029.1.1.1 Spaces under grandstands and bleachers; delete this section.**

(Reason: Unenforceable.)

****Section 1031.2; change to read as follows:**

1031.2 Reliability. Required exit accesses, exits and exit discharges shall be continuously maintained free from obstructions or impediments to full instant use in the case of fire or other emergency ~~where the building area served by the means of egress is occupied~~. An exit or exit passageway shall not be used for any purpose that interferes with a means of egress.

(Reason: Maintain legacy levels of protection and long-standing regional practice, and provide firefighter safety.)

****Section 1103.3; add sentence to end of paragraph as follows:**

Provide emergency signage as required by Section 606.3.

(Reason: Coordinates requirements of previous amendment.)

*****Section 1103.5.1: add sentence to read as follows:**

Fire sprinkler system installation shall be completed within 24 months from date of notification by the fire code official.

(Reason: Regional consistency of this retroactive requirement to allow business owners adequate time to budget to accommodate the cost of the fire sprinkler system.)

****Section 1103.5; add Section 1103.5.5 to read as follows:**

1103.5.5 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.

(Reason: Consistent with amendment to IFC 2404, and long-standing regional requirement to protect this hazardous operation.)

*****Section 1103.7; add Section 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.

(Reason: To assist responding personnel in locating the emergency event and provide clarity as to percentages of work that results in a requirement to upgrade the entire fire alarm system.)

*****Section 1203; change and add to read as follows:**

1203.1.1 {No change.}

1203.1.2 {No change.}

1203.1.3 Emergency power systems and standby power systems shall be installed in accordance with the *International Building Code*, NFPA 70, NFPA 110 and NFPA 111. Existing installations shall be maintained in accordance with the original approval, except as specified in Chapter 11.

1203.1.4 through 1203.1.9 {No changes to these sections.}

1203.1.10 Critical Operations Power Systems (COPS). For Critical Operations Power Systems necessary to maintain continuous power supply to facilities or parts of facilities that require continuous operation for the reasons of public safety, emergency management, national security, or business continuity, see NFPA 70.

1203.2 Where Required. Emergency and standby power systems shall be provided where required by Sections 1203.2.1 through 1203.2.4826 or elsewhere identified in this code or any other referenced code.

1203.2.1 through 1203.2.3 {No change.}

1203.2.4 Emergency Voice/alarm Communications Systems. Emergency power shall be provided for emergency voice/alarm communications systems in the following occupancies, or as specified elsewhere in this code, as required in Section 907.5.2.2.5. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

Covered and Open Malls, Section 907.2.19 and 914.2.3

Group A Occupancies, Sections 907.2.1 and 907.5.2.2.4.

Special Amusement Buildings, Section 907.2.11

High-rise Buildings, Section 907.2.12

Atriums, Section 907.2.13

Deep Underground Buildings, Section 907.2.18

1203.2.5 through 1203.2.13 {No change.}

1203.2.14 Means of Egress Illumination. Emergency power shall be provided for *means of egress* illumination in accordance with Sections 1008.3 and 1104.5.1. (90 minutes)

1203.2.15 Membrane Structures. Emergency power shall be provided for *exit* signs in temporary tents and membrane structures in accordance with Section 3103.12.6. (90 minutes) Standby power shall be provided for auxiliary inflation systems in permanent membrane structures in accordance with Section 2702 of the *International Building Code*. (4 hours) Auxiliary inflation systems shall be provided in temporary air-supported and air-inflated membrane structures in accordance with section 3103.10.4.

1203.2.16 {No change.}

1203.2.17 Smoke Control Systems. Standby power shall be provided for smoke control systems in the following occupancies, or as specified elsewhere in this code, as required in Section 909.11:

Covered Mall Building, International Building Code, Section 402.7

Atriums, International Building Code, Section 404.7

Underground Buildings, International Building Code, Section 405.8

Group I-3, International Building Code, Section 408.4.2

Stages, International Building Code, Section 410.2.5

Special Amusement Buildings (as applicable to Group A's), International Building Code, Section 411.1

Smoke Protected Seating, Section 1029.6.2.

1203.2.18 {No change.}

1203.2.19 Covered and Open Mall Buildings. Emergency power shall be provided in accordance with Section 907.2.19 and 914.2.3.

1203.2.20 Airport Traffic Control Towers. A standby power system shall be provided in airport traffic control towers more than 65 ft. in height. Power shall be provided to the following equipment:

1. Pressurization equipment, mechanical equipment and lighting.
2. Elevator operating equipment.

3. Fire alarm and smoke detection systems.

1203.2.21 Smokeproof Enclosures and Stair Pressurization Alternative. Standby power shall be provided for smokeproof enclosures, stair pressurization alternative and associated automatic fire detection systems as required by the *International Building Code*, Section 909.20.6.2.

1203.2.22 Elevator Pressurization. Standby power shall be provided for elevator pressurization system as required by the *International Building Code*, Section 909.21.5.

1203.2.23 Elimination of Smoke Dampers in Shaft Penetrations. Standby power shall be provided when eliminating the smoke dampers in ducts penetrating shafts in accordance with the *International Building Code*, Section 717.5.3, exception 2.3.

1203.2.24 Common Exhaust Systems for Clothes Dryers. Standby power shall be provided for common exhaust systems for clothes dryers located in multistory structures in accordance with the *International Mechanical Code*, Section 504.10, Item 7.

1203.2.25 Hydrogen Cutoff Rooms. Standby power shall be provided for mechanical ventilation and gas detection systems of Hydrogen Cutoff Rooms in accordance with the *International Building Code*, Section 421.

1203.2.26 Means of Egress Illumination in Existing Buildings. Emergency power shall be provided for means of egress illumination in accordance with Section 1104.5 when required by the fire code official. (90 minutes in I-2, 60 minutes elsewhere.)

1203.3 through 1203.6 {No change.}

1203.7 Energy Time Duration. Unless a time limit is specified by the fire code official, in this chapter or elsewhere in this code, or in any other referenced code or standard, the emergency and standby power system shall be supplied with enough fuel or energy storage capacity for not less than 2-hour full-demand operation of the system.

Exception: Where the system is supplied with natural gas from a utility provider and is approved.

(Reason: These amendments were moved from Chapter 6, due to relocation of the published sections to this new Chapter 12. These provisions provide a list to complete and match that throughout the codes. The only additional requirements are the reference to COPS in NFPA 70, and the specified Energy time duration. Other changes are a reference to a code provision that already exists.)

****Section 2304.1; change to read as follows:**

2304.1 Supervision of Dispensing. The dispensing of fuel at motor fuel-dispensing facilities shall be conducted by a qualified attendant or shall be under the supervision of a qualified attendant at all times or shall be in accordance with Section 2204.3, 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.

(Reason: Allows a facility to apply the attended and unattended requirements of the code when both are potentially applicable.)

****Section 2401.2; delete this section.**

(Reason: This section eliminates such booths from all compliance with Chapter 15 including, but not limited to: size, ventilation, fire protection, construction, etc. If the product utilized is changed to a more flammable substance, the lack of compliance with Chapter 15 could result in significant fire or deflagration and subsequent life safety hazard.)

*****Section 3103.3.1; delete this section.**

(Reason: This new section of the Fire Code requires a fire sprinkler system to be installed in temporary tents and membrane structures, which is not a reasonable or enforceable requirement for a temporary use. A fire watch or fire alarm system is a more advisable approach for such occupancies that are only temporary.)

****Table 3206.2, footnote h; change text to read as follows:**

- h. ~~Not required~~ 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.

(Reason: Allows the fire department to control the smoke and heat during and after a fire event, while ensuring proper operation of the sprinkler protection provided. Also, gives an alternative to smoke and heat vents.)

*****Table 3206.2, footnote j; add footnote j to row titled 'High Hazard' and 'Greater than 300,000' to read as follows:**

- j. High hazard high-piled storage areas shall not exceed 500,000 square feet. A 2-hour fire wall constructed in accordance with Section 706 of the International Building Code shall be used to divide high-piled storage exceeding 500,000 square feet in area.

(Reason: This is a long-standing legacy requirement and provides passive protection for extremely large buildings where it would be otherwise impossible to control the spread of fire without the fire wall in place in an uncontrolled fire event, which is much more likely in high hazard commodities, such as tires, flammable liquids, expanded plastics, etc.)

****Section 3310.1; add sentence to end of paragraph to read as follows:**

When fire apparatus access roads are required to be installed for any structure or development, they shall be approved prior to the time at which construction has progressed beyond completion of the foundation of any structure.

(Reason: Reference requirement of Section 501.4.)

****Section 5601.1.3; change to read as follows:**

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

Exceptions:

1. Only when approved for fireworks displays, storage, and handling of fireworks as allowed in Section 5604 and 5608.
2. ~~Manufacture, assembly and testing of fireworks as allowed in Section 5605.~~
- 3-2. The use of fireworks for approved fireworks displays as allowed in Section 5608.
4. ~~The possession, storage, sale ... {Delete remainder of text.}~~

(Reason: Restricts fireworks to approved displays only, which is consistent with regional practice. Such is intended to help protect property owners and individuals from unintentional fireworks fires within the jurisdiction, as well as to help protect individuals from fireworks injuries. It is noted that there has been a change in the State Law to allow possession of unopened fireworks in certain areas of the vehicle, and it is highly recommended that AHJ's familiarize themselves with the applicable State Laws in this regard.)

****Section 5703.6; add a sentence 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.

(Reason: Increased protection in response to underground leak problems and remediation difficulty in underground applications. Coordinates with TCEQ requirements.)

****Section 5704.2.11.4; add a sentence to read as follows:**

5704.2.11.4 Leak Prevention. Leak prevention for underground tanks shall comply with Sections 5704.2.11.4.1 and ~~5704.2.11.4.2~~ through 5704.2.11.4.3. An approved method of secondary containment shall be provided for underground tank and piping systems.

(Reason: Increased protection in response to underground leak problems and remediation difficulty in underground applications.)

****Section 5704.2.11.4.2; change 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.

(Reason: Reference to IFC Section 5704.2.11.4.3 amendment.)

****Section 5704.2.11.4.3; add 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.

(Reason: Provides an economical means of checking potential leaks at each tank site.)

****Section 5707.4; add paragraph to read as follows:**

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.

(Reason: The general public does not expect a hazardous operation to be occurring in a typical parking lot or for a fuel truck to be traversing such parking lot, temporarily fueling a vehicle, and moving on to the next area in the parking lot to fuel the next vehicle. Vehicular accidents occur in parking lots on a regular basis, but the presence of a fuel truck, especially one in the process of fueling a vehicle with gasoline, greatly adds to the potential risk involved in such accidents. By restricting such operations to the occupancies in question, the employees of the business may be adequately notified to expect such operations to occur in the parking lot.)

****Section 6103.2.1; add 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.

(Reason: To provide a consistent and reasonable means of regulating the use of portable LP-Gas containers in these situations. Reduces the hazard presented by portable containers when natural gas is already available. Please note that current State Law does not allow for the enforcement of any rules more stringent than that adopted by the State, so this amendment is only applicable as to the extent allowed by that State Law.)

****Section 6104.2, Exception; add an exception 2 to read as follows:**

Exceptions:

1. *{existing text unchanged}*
2. Except as permitted in Sections 308 and 6104.3.2, LP-gas containers are not permitted in residential areas.

(Reason: To provide a consistent and reasonable means of regulating the use LP-Gas containers. Reduces the hazard presented by such containers when natural gas is already available. References regional amendment to IFC 6104.3.2. Please note that current State Law does not allow for the enforcement of any rules more stringent than that adopted by the State, so this amendment is only applicable as to the extent allowed by that State Law.)

****Section 6104.3; add Section 6104.3.3 to read as follows:**

6104.3.3 Spas, Pool Heaters, and Other Listed Devices. Where natural gas service is not available, an LP-gas container is allowed to be used to supply spa and pool heaters or other listed devices. Such container shall not exceed 250-gallon water capacity per lot. See Table 6104.3 for location of containers.

Exception: Lots where LP-gas can be off-loaded wholly on the property where the tank is located may install up to 500 gallon above ground or 1,000 gallon underground approved containers.

(Reason: Allows for an alternate fuel source. Dwelling density must be considered and possibly factored into zoning restrictions. Reduces the hazard presented by over-sized LP-Gas containers. Please note that current State Law does not allow for the enforcement of any rules more stringent than that adopted by the State, so this amendment is only applicable as to the extent allowed by that State Law.)

****Section 6107.4 and 6109.13; change to read as follows:**

6107.4 Protecting Containers from Vehicles. Where exposed to vehicular damage due to proximity to alleys, driveways or parking areas, LP-gas containers, regulators and piping shall be protected in accordance with NFPA-58 Section 312.

6109.13 Protection of Containers. LP-gas containers shall be stored within a suitable enclosure or otherwise protected against tampering. Vehicle impact protection shall be provided as required by Section 6107.4.

~~**Exception:** Vehicle impact protection shall not be required for protection of LP-gas containers where the containers are kept in lockable, ventilated cabinets of metal construction.~~

(Reason: NFPA 58 does not provide substantial physical protection [it allows raised sidewalks, fencing, ditches, parking bumpers as 'vehicle barrier protection'] of the container(s) from vehicular impact as is required and has been required historically, as per Section 312, i.e. bollard protection. Further, the exception to Section 6109.13 would allow for portable containers in ventilated metal cabinets to not require any physical protection whatsoever from vehicular impact, regardless of the location of the containers. Please note that current State Law does not allow for the enforcement of any rules more

stringent than that adopted by the State, so this amendment is only applicable as to the extent allowed by that State Law.)

**** {Applicable to those jurisdictions adopting Appendix B}**

Table B105.2; change footnote a. to read as follows:

a. The reduced fire-flow shall be not less than ~~4,000~~ 1,500 gallons per minute.

(Reason: The minimum fire-flow of 1,500 gpm for other than one- and two- family dwellings has existed since the 2000 edition of the IFC, as well as the Uniform Fire Code before that. Little to no technical justification was provided for the proposed code change at the code hearings. The board believes that the already-allowed 75 percent reduction in required fire-flow for the provision of sprinkler protection is already a significant trade-off. The minimum 1,500 gpm is not believed to be overly stringent for the vast majority of public water works systems in this region, especially since it has existed as the requirement for so many years. Further, the continued progression of trading off more and more requirements in the codes for the provision of sprinkler protection has made these systems extremely operation-critical to the safety of the occupants and properties in question. In other words, should the sprinkler system fail for any reason, the fire-flow requirements drastically increase from that anticipated with a sprinkler-controlled fire scenario.)

END

RESOLUTION NO. 21-04

**A RESOLUTION FOR THE APPOINTMENT OF ONE
MEMBER AS THE TOWN'S REPRESENTATIVE ON
THE UPPER TRINITY REGIONAL WATER DISTRICT
(UTRWD) BOARD OF DIRECTORS FOR A FOUR-
YEAR TERM ENDING MAY 31, 2023; AND
PROVIDING AN EFFECTIVE DATE.**

WHEREAS, the Upper Trinity Regional Water District (UTRWD) is a conservation and reclamation district created pursuant to Article XVI, Section 59 of the Constitution of the State of Texas and is governed by a board of directors; and,

WHEREAS a director may not be an official of any governmental entity that has authority to appoint a member of the board, and a director shall serve four years; and,

WHEREAS directors shall be appointed by the governing bodies of the participants and contract members; and,

WHEREAS, the Town of Double Oak, as a participating member of the UTRWD, is eligible to have a representative to serve on the UTRWD Board of Directors; and,

WHEREAS the Town Council recognizes the need to make an appointment for a representative to serve on the UTRWD Board of Directors for a four-year term ending May 31, 2023.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF DOUBLE OAK, TEXAS, THAT:

Section 1

The Town Council of the Town of Double Oak, Texas, hereby appoints Mike Donnelly to serve as the Town's representative on the UTRWD Board of Directors for a four-year term ending May 31, 2023.

Section 2

That this resolution shall become effective immediately upon its passage and approval.

PASSED AND APPROVED this the 2nd day of August 2021.

Von Beougher, Mayor

Attest:

Lynn Jones, Assistant Town Secretary

Current

Suggested

Building Permit/Inspection Fees		Fee	Admin Cost	Total Fee	Suggested
Commercial building*				Greater of \$500 + all required permits or \$0.75 sq. ft. + all required permits	
Temporary construction office					
	Without plumbing	\$300.00	\$50.00	\$350.00	
	With plumbing	\$400.00	\$50.00	\$450.00	
Electrical permit-commercial**				Greater of \$115 or actual costs + admin. fee	\$125.00
Mechanical permit-commercial**		\$60.00	\$25.00	Greater of \$85 or actual costs + admin. fee	\$125.00
Plumbing permit-commercial**				Greater of \$115 or actual costs + admin. fee	\$125.00
Parking lots & drives (all materials)				\$0.10 sq. ft.	

Erosion plan review and inspection*	\$800.00	\$25.00	\$825.00 per lot	
Plan review (nonrefundable) – commercial*			Actual costs + \$25 admin. fee	
Fence			\$85.00 per 300 linear feet	\$125.00
Flat work (other than parking lots)*			Greater of \$85.00 or actual costs + admin. fee	\$125.00
Foundation**			Greater of \$85.00 or actual costs + admin. fee	\$125.00
Pole light				
10 foot max	\$60.00	\$25.00	\$85.00	
Greater than 10 feet	\$120.00	\$25.00	\$145.00	
Sidewalks	\$60.00	\$25.00	\$85.00 per 150 linear feet	
Water heaters	\$90.00	\$25.00	\$115.00	\$150.00

* Professional services (invoiced at actual cost plus 10% processing fee) will be added for costs/services beyond those contained in the basic fee.

+ Actual costs defined as actual costs incurred plus 10% handling and processing fee.

(b) Residential.

Building Permit/Inspection Fees		Inspector	Admin Cost	Total Fee	Suggested
Accessory building					
	Slab, elec. & plumbing	\$240.00	\$25.00	\$265.00	
	Building on skids	\$60.00	\$25.00	\$85.00	\$150.00
	Slab	\$150.00	\$25.00	\$175.00	
	Slab and electrical	\$180.00	\$25.00	\$205.00	
Barn					
	No cement floor, lights, etc.	\$60.00	\$25.00	\$85.00	
	With cement floor and lights	\$180.00	\$25.00	\$205.00	
	With cement floor, lights and plumbing	\$240.00	\$25.00	\$265.00	
Culvert/headwall/driveway		\$90.00	\$25.00	\$115.00	\$150.00
Decks over 30 inches high (no electrical) requires railing		\$60.00	\$25.00	\$85.00	

Dish (greater than 3 feet in diameter)	\$60.00	\$25.00	\$85.00	
Electrical permit	\$90.00	\$25.00	\$115.00	\$125.00
Erosion plan review and inspection	\$800.00	\$25.00	\$825.00	
Fence				
Perimeter	\$60.00	\$25.00	\$85.00	\$125.00
Pool	\$30.00	\$25.00	\$55.00	\$125.00
Flat work	\$60.00	\$25.00	\$85.00	\$125.00
Foundation	\$60.00	\$25.00	\$85.00	\$125.00
Gazebo				
No slab, no electrical	\$60.00	\$25.00	\$85.00	\$115.00
With slab, no electrical	\$90.00	\$25.00	\$115.00	\$145.00
Slab and electrical	\$150.00	\$25.00	\$175.00	
Mechanical permit	\$60.00	\$25.00	\$85.00	\$125.00
Parking lots (concrete)			\$0.10 sq. ft.	

Pool							
	Aboveground plus fence	\$300.00	\$25.00	\$325.00		\$600.00	
	Inground spa plus fence	\$300.00	\$25.00	\$325.00			
	Patio & slab & electrical	\$150.00	\$25.00	\$175.00			
	Plan review (nonrefundable) residential homes & commercial	\$30.00	\$25.00	\$55.00		\$100.00	
	Plumbing permit	\$90.00	\$25.00	\$115.00		\$125.00	
	Pole light (10 foot maximum)	\$60.00	\$25.00	\$85.00			
	Propane/natural gas	\$60.00	\$25.00	\$85.00		\$125.00	
	Reroof inspection	\$60.00	\$25.00	\$85.00		\$125.00	
Building Permit/Inspection Fees		Inspector	Admin Cost	Total Fee			
Residence							
	New			\$0.50 sq. ft. + all required permits			

	Addition or remodel under 1,200 sq. ft.			All required permits – not to exceed \$500	
	Addition or remodel over 1,200 sq. ft.			\$200 + all required permits	
	Setback inspections (on request)	\$30.00	\$25.00	\$55.00	
	Sprinkler system	\$60.00	\$25.00	\$85.00	\$125.00
	Tree inspections (to verify hardships)	\$60.00	\$25.00	\$85.00	
	Water well permit	\$135.00	\$25.00	\$160.00 (recoup sanitarian fee)	
	Sidewalks, pathways, flatwork	\$60.00	\$25.00	\$85.00	\$125.00
	Hot water heater	\$60.00	\$25.00	\$85.00	\$150.00

as of 07/28/2021

Oct '20 - Sep 21	Budget	\$ Over Budget	% of Budget
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Ordinary Income/Expense**Income****400000 · Tax Revenue**

401101 · Current Property Taxes-M & O	1,170,119.90	1,166,167.00	3,952.90	100.34%
401201 · Penalty & Interest	3,925.81	2,500.00	1,425.81	157.03%
401301 · Prior Year Property Taxes	4,132.61	2,000.00	2,132.61	206.63%
401315 · Sales Taxes	433,062.88	430,000.00	3,062.88	100.71%
401601 · Franchise-Cross Timbers Water	25,331.81	20,000.00	5,331.81	126.66%
401701 · Franchise-Cable TV	29,127.07	35,000.00	-5,872.93	83.22%
401801 · Franchise-Electric	90,904.53	95,000.00	-4,095.47	95.69%
401805 · Franchise-Garbage	14,795.01	13,000.00	1,795.01	113.81%
401811 · Franchise-Gas	13,074.19	14,000.00	-925.81	93.39%
401901 · Franchise-Telephone	1,422.83	6,000.00	-4,577.17	23.71%
401912 · Prior Year Carry Over	0.00	0.00	0.00	0.0%
400000 · Tax Revenue - Other	0.00	0.00	0.00	0.0%

Total 400000 · Tax Revenue

1,785,896.64	1,783,667.00	2,229.64	100.13%
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420000 · Fines and Forfeitures

420101 · Court Fines	63,518.43	68,000.00	-4,481.57	93.41%
420113 · Court Forfeitures	0.00	0.00	0.00	0.0%
420000 · Fines and Forfeitures - Other	0.00	0.00	0.00	0.0%

Total 420000 · Fines and Forfeitures

63,518.43	68,000.00	-4,481.57	93.41%
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430000 · Licenses and Permits

430101 · Fences	1,107.55	1,275.00	-167.45	86.87%
430102 · Commercial Buildings	7,193.00	3,000.00	4,193.00	239.77%
430103 · Oil and Gas Drilling	0.00	0.00	0.00	0.0%
430201 · New Homes	18,422.50	4,000.00	14,422.50	460.56%
430202 · Erosion Control	825.00	1,650.00	-825.00	50.0%
430301 · Misc Construction	29,989.89	12,000.00	17,989.89	249.92%
430401 · Roofs	1,190.00	850.00	340.00	140.0%
430501 · Septic Systems	8,440.00	3,500.00	4,940.00	241.14%
430601 · Sprinkler Systems	705.00	600.00	105.00	117.5%
430701 · Swimming Pools	1,959.75	1,625.00	334.75	120.6%
430801 · Water Wells	0.00	0.00	0.00	0.0%
430901 · Plats and Subdivision Fees	2,925.00	0.00	2,925.00	100.0%

Total 430000 · Licenses and Permits

72,757.69	28,500.00	44,257.69	255.29%
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440000 · Other Revenue

440101 · Administration Fees	910.48	1,500.00	-589.52	60.7%
440102 · Animal Control Fees	0.00	50.00	-50.00	0.0%
440103 · Building Contributions	0.00	0.00	0.00	0.0%
440150 · FEMA Revenue	0.00	0.00	0.00	0.0%
440160 · Capital Lease Proceeds	0.00	0.00	0.00	0.0%
440201 · Interest Income	12,946.64	7,000.00	5,946.64	184.95%
440203 · Police Dept. Contracts	0.00	0.00	0.00	0.0%
440205 · Police Dept. Contributions	0.00	0.00	0.00	0.0%
440206 · Police Training Grants	0.00	0.00	0.00	0.0%

440210 · Police State Training Funds	0.00	0.00	0.00	0.0%
Total 440000 · Other Revenue	13,857.12	8,550.00	5,307.12	162.07%
440300 · Charges for Services				
440301 · Lien Release	0.00	0.00	0.00	0.0%
440401 · Lot Mowing Fees	0.00	0.00	0.00	0.0%
440501 · Misc. Income	262.00	500.00	-238.00	52.4%
440601 · Sewage Service	15,593.09	25,000.00	-9,406.91	62.37%
440701 · Town Hall Rental Fees	0.00	0.00	0.00	0.0%
Total 440300 · Charges for Services	15,855.09	25,500.00	-9,644.91	62.18%
440400 · Park Funds				
440401A · Gazebo Funds	0.00	0.00	0.00	0.0%
Total 440400 · Park Funds	0.00	0.00	0.00	0.0%
440500 · Carry Over from previous year	0.00	0.00	0.00	0.0%
Total Income	1,951,884.97	1,914,217.00	37,667.97	101.97%
Gross Profit	1,951,884.97	1,914,217.00	37,667.97	101.97%
Expense				
510000 · Town Administration				
521000 · Town Salary Adjustments	0.00	0.00	0.00	0.0%
521012 · Attorney Fees	8,437.20	30,000.00	-21,562.80	28.12%
521033 · Custodial Services	6,251.63	8,000.00	-1,748.37	78.15%
521041 · Denton Central Appraisal Dist	5,109.15	7,100.00	-1,990.85	71.96%
521050 · Election Expense	3,595.13	5,500.00	-1,904.87	65.37%
521051 · Electricity	3,091.69	5,500.00	-2,408.31	56.21%
521060 · Financial Auditors	9,500.00	10,000.00	-500.00	95.0%
521070 · Natural Gas	993.08	1,000.00	-6.92	99.31%
521073 · Printer Copier	4,257.65	5,000.00	-742.35	85.15%
521133 · Ordinance Codification	395.00	3,000.00	-2,605.00	13.17%
521160 · Postage	1,907.85	2,000.00	-92.15	95.39%
521200 · Tax Billing Expense	1,197.00	1,300.00	-103.00	92.08%
521201 · Communications	7,918.94	10,500.00	-2,581.06	75.42%
521220 · Water	1,677.17	2,500.00	-822.83	67.09%
521230 · Archive System	0.00	5,000.00	-5,000.00	0.0%
530050 · Ambulance Service	29,075.00	29,075.00	0.00	100.0%
Total 510000 · Town Administration	83,406.49	125,475.00	-42,068.51	66.47%
520000 · Administrative				
521010 · Advertising	137.10	1,200.00	-1,062.90	11.43%
521020 · Bank Charges	0.00	100.00	-100.00	0.0%
521030 · Cleaning Supplies	0.00	0.00	0.00	0.0%
521031 · Computer Supplies/Software	17,180.06	13,000.00	4,180.06	132.15%
521032 · Council Contingency	555.34	25,517.20	-24,961.86	2.18%
521034 · Technology Fund	4,267.87	4,000.00	267.87	106.7%
521074 · Meetings	0.00	300.00	-300.00	0.0%
521075 · Goodwill	300.54	800.00	-499.46	37.57%
521076 · Incentive Pay	1,269.18	1,500.00	-230.82	84.61%
521090 · General Liability Insurance	3,173.12	3,100.00	73.12	102.36%
521091 · Health/Dental/Life Insurance	12,753.01	16,500.00	-3,746.99	77.29%
521130 · Membership & Dues	1,923.00	1,500.00	423.00	128.2%

521131 · Car Maintenance-Fuel-Travel	0.00	0.00	0.00	0.0%
521150 · Office Supplies	5,293.79	6,000.00	-706.21	88.23%
521151 · Other Professional Services	1,850.77	10,000.00	-8,149.23	18.51%
521153 · Other Supplies	0.00	1,000.00	-1,000.00	0.0%
521161 · Publications & Subscriptions	0.00	300.00	-300.00	0.0%
521162 · Printing and Copying	0.00	600.00	-600.00	0.0%
521170 · Payroll Taxes - FICA	14,746.95	11,400.00	3,346.95	129.36%
521172 · TWC Unemployment Insurance	1,799.50	2,000.00	-200.50	89.98%
521190 · Town Secretary Salary	62,837.94	74,263.00	-11,425.06	84.62%
521191 · Longevity Pay-Administration	1,300.00	1,300.00	0.00	100.0%
521192 · Worker's Compensation Ins.	965.64	700.00	265.64	137.95%
521194 · Asst Town Secretary Salary	56,224.72	65,775.80	-9,551.08	85.48%
521195 · Overtime	3,691.30	5,000.00	-1,308.70	73.83%
521196 · TMRS-Retirement	10,451.94	12,500.00	-2,048.06	83.62%
521202 · Training Seminars	150.00	2,000.00	-1,850.00	7.5%
Total 520000 · Administrative	200,871.77	260,356.00	-59,484.23	77.15%
530000 · Public Works				
521021 · Building Repair/Remodeling	2,040.71	8,000.00	-5,959.29	25.51%
521025 · Building Expenditures	1,300.00	2,000.00	-700.00	65.0%
521120 · Lien Filing Expense	36.50	100.00	-63.50	36.5%
530025 · Mosquito Control Program	144.84	150.00	-5.16	96.56%
530100 · Animal Control Officer	16,091.25	17,050.00	-958.75	94.38%
530101 · Public Works Director Salary	0.00	0.00	0.00	0.0%
530102 · Public Works Director TMRS	0.00	0.00	0.00	0.0%
530103 · Public Works Director FICA	0.00	0.00	0.00	0.0%
530104 · Public Works Director (H/D/L)	0.00	0.00	0.00	0.0%
530105 · PW Director (TWC/Unempl Ins)	0.00	0.00	0.00	0.0%
530106 · Building Official Overtime	0.00	0.00	0.00	0.0%
530110 · Building Inspectors	30,000.00	36,000.00	-6,000.00	83.33%
530111 · Building Inspectors Phone	0.00	0.00	0.00	0.0%
530115 · Code Enforcement	0.00	0.00	0.00	0.0%
530116 · Code Enforcement Liab Ins-TML	679.96	700.00	-20.04	97.14%
530125 · Council Discretionary Fund	0.00	0.00	0.00	0.0%
530150 · Grounds Maintenance	5,703.50	9,000.00	-3,296.50	63.37%
530151 · Grounds Equipment	0.00	0.00	0.00	0.0%
530175 · Equipment Repair/Maintenance	0.00	0.00	0.00	0.0%
530180 · Minor Equipment	0.00	0.00	0.00	0.0%
530200 · Lot Mowing/Tree Trim Service	2,155.00	13,000.00	-10,845.00	16.58%
530201 · Public Works Training	0.00	1,000.00	-1,000.00	0.0%
530202 · Longevity Pay- Public Works	0.00	0.00	0.00	0.0%
530203 · Vehicle Payment	0.00	0.00	0.00	0.0%
530204 · Vehicle Maintenance	300.00	500.00	-200.00	60.0%
530205 · Vehicle Fuel	900.00	1,800.00	-900.00	50.0%
530206 · Uniforms	0.00	0.00	0.00	0.0%
530210 · Membership Dues/Licensing	0.00	0.00	0.00	0.0%
530230 · Other Professional Services	2,014.27	2,000.00	14.27	100.71%
530231 · Other Supplies	11.43	1,000.00	-988.57	1.14%

530235 · Printing	0.00	100.00	-100.00	0.0%
530240 · Postage	0.00	0.00	0.00	0.0%
530245 · Computer Support	3,010.75	3,000.00	10.75	100.36%
530250 · Health Inspector	150.00	0.00	150.00	100.0%
530260 · Septic Inspections	3,370.00	5,000.00	-1,630.00	67.4%
530270 · Sewage Services	17,187.75	25,000.00	-7,812.25	68.75%
530271 · Vehicle Reimbursement	0.00	0.00	0.00	0.0%
530272 · Incentive Pay	0.00	0.00	0.00	0.0%
530273 · Worker's Compensation Ins	0.00	0.00	0.00	0.0%
530277 · General Liability Insurance	0.00	0.00	0.00	0.0%
530280 · Hazardous Waste Disposal	0.00	0.00	0.00	0.0%
531020 · Credit Card Convenience Fee	0.00	0.00	0.00	0.0%
531201 · Weather Siren	250.00	1,000.00	-750.00	25.0%
Total 530000 · Public Works	85,345.96	126,400.00	-41,054.04	67.52%
540000 · Streets and Drainage				
540019 · Engineering General	23,999.41	40,000.00	-16,000.59	60.0%
540060 · Crack Seal & Potholes	0.00	30,000.00	-30,000.00	0.0%
540110 · Current Year Road Repairs	36,950.00	200,000.00	-163,050.00	18.48%
540111 · Prior Year Road Repairs	0.00	0.00	0.00	0.0%
540155 · MS4 Stormwater	6,124.45	7,500.00	-1,375.55	81.66%
540177 · Public Works Projects Costs	0.00	0.00	0.00	0.0%
540200 · Sign Repair and Replacement	420.50	3,000.00	-2,579.50	14.02%
Total 540000 · Streets and Drainage	67,494.36	280,500.00	-213,005.64	24.06%
550000 · Police Department				
550120 · Capital Equipment (Auto)	-5,400.00	0.00	-5,400.00	100.0%
550135 · Computer Equip/Supplies/SW Ma	22,716.57	33,031.00	-10,314.43	68.77%
550140 · Equipment Repair & Maintenance	200.00	1,200.00	-1,000.00	16.67%
550145 · Health/Dental/Life Insurance	93,255.38	130,682.00	-37,426.62	71.36%
550219 · Membership Dues	230.00	900.00	-670.00	25.56%
550220 · Minor Equipment	312.20	1,600.00	-1,287.80	19.51%
550230 · Other Professional Services	61.00	0.00	61.00	100.0%
550240 · Office Supplies	843.86	500.00	343.86	168.77%
550248 · Publications	0.00	400.00	-400.00	0.0%
550249 · External Contracts	4,681.43	6,000.00	-1,318.57	78.02%
550250 · Postage	0.00	0.00	0.00	0.0%
550251 · Printing	347.47	350.00	-2.53	99.28%
550252 · Police Chief Salary	82,722.36	90,033.00	-7,310.64	91.88%
550253 · Police Asst. Chief Salary	56,938.00	80,021.00	-23,083.00	71.15%
550254 · Police Officers' Salary	228,057.18	344,429.00	-116,371.82	66.21%
550255 · Administrative Assistant PD	0.00	0.00	0.00	0.0%
550256 · Crossing Guard	696.80	7,000.00	-6,303.20	9.95%
550257 · Police Department Overtime	2,009.17	5,000.00	-2,990.83	40.18%
550261 · Criminal Investigations	378.26	2,000.00	-1,621.74	18.91%
550262 · General Liability Insurance	11,105.80	10,148.00	957.80	109.44%
550263 · TWC Unemployment Ins	0.00	0.00	0.00	0.0%
550264 · Incentive Pay	8,099.87	8,700.00	-600.13	93.1%
550271 · Salaries Benefits - FICA	29,036.72	41,060.00	-12,023.28	70.72%

550275 · Salaries Benefits - TMRS	37,252.84	43,666.00	-6,413.16	85.31%
550276 · Human Resources	72.52	1,500.00	-1,427.48	4.84%
550277 · Longevity Pay	3,575.00	3,575.00	0.00	100.0%
550278 · Worker's Compensation Ins	12,875.20	22,823.00	-9,947.80	56.41%
550280 · Communications	9,019.20	14,000.00	-4,980.80	64.42%
550281 · Training	5,268.83	6,000.00	-731.17	87.81%
550286 · Training Ammo	1,137.98	2,500.00	-1,362.02	45.52%
550290 · Uniforms	10,034.73	8,000.00	2,034.73	125.43%
550291 · Patrol Equipment	15,152.95	5,000.00	10,152.95	303.06%
550292 · Community Programs	0.00	1,000.00	-1,000.00	0.0%
550293 · Traffic Management	0.00	500.00	-500.00	0.0%
550294 · Evidence Room Supplies	0.00	500.00	-500.00	0.0%
550295 · Goodwill	876.70	1,000.00	-123.30	87.67%
550300 · Vehicle Fuel	12,936.45	17,200.00	-4,263.55	75.21%
550400 · Vehicle Repair & Maintenance	3,429.30	13,500.00	-10,070.70	25.4%
Total 550000 · Police Department	647,923.77	903,818.00	-255,894.23	71.69%
560000 · Municipal Court				
560010 · Judges Services	5,350.00	10,000.00	-4,650.00	53.5%
560015 · Jury Services	0.00	240.00	-240.00	0.0%
560018 · Jail Services	0.00	0.00	0.00	0.0%
560020 · Prosecuting Attorney	5,142.50	10,000.00	-4,857.50	51.43%
560025 · Other Professional Services	0.00	0.00	0.00	0.0%
560026 · Court Clerk - Salary	49,973.54	58,323.00	-8,349.46	85.68%
560027 · Court Clerk- FICA	3,596.70	5,400.00	-1,803.30	66.61%
560028 · Court Clerk - TMRS	4,580.99	5,600.00	-1,019.01	81.8%
560029 · Court Clerk Ins (H/D/L)	6,362.16	8,400.00	-2,037.84	75.74%
560030 · Court Clerk - Longevity	785.00	785.00	0.00	100.0%
560031 · Overtime	3,676.47	5,000.00	-1,323.53	73.53%
560035 · Court Supplies, Equip & S/W Main	780.64	3,500.00	-2,719.36	22.3%
560055 · Membership Dues	0.00	120.00	-120.00	0.0%
560076 · Incentive Pay	507.76	600.00	-92.24	84.63%
Total 560000 · Municipal Court	80,755.76	107,968.00	-27,212.24	74.8%
570000 · Double Oak Vol. Fire Department				
570020 · DOVFD Operations Contribution	75,000.00	100,000.00	-25,000.00	75.0%
570021 · General Liability Insurance	7,706.12	7,200.00	506.12	107.03%
570022 · Worker's Compensation Ins	2,253.16	2,500.00	-246.84	90.13%
Total 570000 · Double Oak Vol. Fire Department	84,959.28	109,700.00	-24,740.72	77.45%
Total Expense	1,250,757.39	1,914,217.00	-663,459.61	65.34%
Net Ordinary Income	701,127.58	0.00	701,127.58	100.0%
Net Income	701,127.58	0.00	701,127.58	100.0%

Jul 28, 21

ASSETS

Current Assets

Checking/Savings

102302 · Independent Bank Money Market	1,834,834.45
102303 · Independent Bank Checking	36,933.64
102304 · Police Leose Training Fund	1,185.46
102306 · John B. Wright Memorial Fund	558.18
102307 · DO Police Dept Chapter 59	8.65
102400 · Petty Cash	499.21
102450 · DATCU	3,270.36
106101 · Certificate of Deposit	424,228.56

Total Checking/Savings 2,301,518.51

Accounts Receivable

106100 · Accounts Receivable	29,143.80
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Total Accounts Receivable 29,143.80

Other Current Assets

102500 · Returned Checks Receivable	8.00
104100 · Bartonville Water Certificate	2,000.00
106150 · Interest Receivable	783.28
106400 · Employee Receivables	451.39
106700 · Property Taxes Receivable	9,483.45
106900 · Prepaid Costs	13,519.29
1499 · Payments Received	-255.67
Total Other Current Assets	<u>25,989.74</u>

Total Current Assets 2,356,652.05

TOTAL ASSETS 2,356,652.05

Liabilities

LIABILITIES & EQUITY

Current Liabilities

Accounts Payable

202000 · Accounts Payable	4,216.91
Total Accounts Payable	<u>4,216.91</u>

Other Current Liabilities

106300 · Allowance for Uncoll Taxes	9,483.45
200000 · Payroll Liabilities	
201500 · TMRS Payable	-1,867.46
202507 · Dependant Health Care Coverage	-445.41
202508 · AFLAC Deduction	222.18
202509 · Child Support Withholding Order	111.85
202513 · Vision Insurance	253.43
202516 · Dependent Life Insurance	137.21
200000 · Payroll Liabilities - Other	102.25

Total 200000 · Payroll Liabilities	-1,485.95
200504 · Town Hall Reservation Deposits	750.00
201250 · Cr Card Fees/Collection Charges	-1,211.78
202250 · Town Hall Renovations	100.00
202501 · Court Fees & Fines Due State	8,160.30
202502 · Technology Fees	3,444.27
202503 · Court Security Fees	21,667.06
202504 · Police LEOSE Training Account	1,185.46
202511 · Omnibase Fees Due	390.29
202512 · Court Collections	25,132.67
202760 · Time Payment Reimbursement Fee	109.46
203002 · Park Fund Account	207.21
203060 · Waketon Road Reconstruction	0.30
2050000 · Accured Payroll	21,589.95
205555 · Police Grants	347.25
206250 · Sewer System Maintenance	8,797.98
206500 · Police-Chapter 59	8.65
208000 · Golf Tournament	44.85
2110 · Direct Deposit Liabilities	-20,021.17
Total Other Current Liabilities	<u>78,700.25</u>
Total Current Liabilities	<u>82,917.16</u>
Total Liabilities	<u>82,917.16</u>

Equity

3000 · Fund Balances	560,032.45
3100 · Town Contingency	100,000.00
3150 · Stormwater Structures Fund	100,000.00
3200 · Road Contingency	150,000.00
3250 · Waketon Road Town Project Fund	100,000.00
3450 · Town Hall IT Server Fund	10,000.00
3550 · TCEQ MS4 (5-year) Fund	10,000.00
3600 · Street and Drainage Fund	200,000.00
3650 · Cross Timbers Drainage Project	20,000.00
3800 · Police Vehicle Fund	20,000.00
3850 · Police Body Camera Project Fund	40,000.00
3900 · Retained Earnings	231,969.68
Net Income	<u>731,732.76</u>
Total Equity	<u>2,273,734.89</u>
TOTAL LIABILITIES & EQUITY	<u><u>2,356,652.05</u></u>