ORDINANCE NO. 1942

AN ORDINANCE OF THE CITY OF EULESS, TEXAS, AMENDING CHAPTER 14 "BUILDINGS AND BUILDING REGULATIONS", ARTICLES I THRU VIII OF THE CODE OF ORDINANCES; ADOPTING THE 2009 VERSIONS OF THE INTERNATIONAL RESIDENTIAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, INTERNATIONAL FUEL GAS CODE AND INTERNATIONAL ENERGY CONSERVATION CODE, AND THE 2011 VERSION OF THE NATIONAL ELECTRICAL CODE; AND ADOPTING LOCAL AMENDMENTS TO EACH OF THE CODES ADOPTED HEREBY; PROVIDING A PENALTY OF UP TO $2,000 PER DAY FOR VIOLATIONS; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE OF ALL ORDINANCES; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR PUBLICATION IN THE OFFICIAL NEWSPAPER; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, in order to protect the public health, safety and welfare of the citizens of the City of Euless, the City has adopted codes that govern the construction, alteration, remodeling, enlargement, repair and maintenance of structures within the City; and

WHEREAS, the City Council desires to update these codes by adopting the following 2009 editions of the International Residential Code, International Building Code, International Mechanical Code, International Plumbing Code, International Fuel Gas Code, International Energy Conservation Code, and the 2011 version of the National Electrical Code; and

WHEREAS, the City Council has determined that it is in the best interest of its citizens to make local amendments to said international and national codes; and

WHEREAS, the Euless City Council finds and determines that the codes and amendments adopted hereby will promote the health, safety and general welfare of the citizens of the City.

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

SECTION I.

Chapter 14, Articles I thru VIII of the Euless Code of Ordinances, as amended, which shall read as follows:

ARTICLE I. BUILDING CODES

DIVISION I. GENERALLY

Sec. 14-1. Purpose.

The articles in this chapter are and shall be deemed an exercise of the administrative and police powers of the city, enacted to protect public safety, comfort, welfare and property, and all provisions of these articles shall be construed for the accomplishment of that purpose.

Sec. 14-2. Definition.

As used in this chapter, *Building Official* means the officer or other designated authority charged with the administration and enforcement of this chapter and the codes adopted herein, or the Building Official's duly authorized representative such as Deputy Building Official, building inspector, code enforcement officer and health officer.

Sec. 14-3. Contractor registration.

A. No person, contractor, firm or corporation shall be authorized to secure permits as indicated in subsection (D) of this section without being a valid registered contractor with the city. Homeowners doing work on their homestead are exempt.

B. A valid registered contractor is a person, firm or corporation, who has paid the prescribed fees, as shown in the City Fee Schedule (Chapter 30), and is not delinquent in any fees or debt to the City and has a current registration on file with the City.

C. The registration applicant shall file an application in writing on a form furnished by the Building Inspection Department for this purpose. Failure by the applicant to have obtained appropriate licenses shall be cause for rejection of the application.

D. Permits that pertain to this chapter include the following: Residential, Building, Plumbing, Irrigation, Fuel Gas, Mechanical, Electrical, Signs, Fences, etc.

E. The registration of a contractor may be denied by the Building Official or the registration may be revoked if the registration is issued on the basis of incorrect information supplied by the contractor.

F. The registration may be renewed for the ensuing calendar year by filing a new registration and the payment of a renewal fee. No refund shall be made in the event of the revocation or surrender of any such registration certificate.

Sec. 14-4. Operations for which permit required.

It shall be unlawful for any person to commence the construction of any building or the construction of any alterations or repairs to an existing building or to move any building from outside the corporate limits to within the corporate limits without first having procured a permit authorizing such construction from the Building Official.

Sec. 14-5. Application - Filing required.

Any person desiring to construct any alterations or repairs to any existing building, or to move any building from outside the corporate limits to within the corporate limits, shall file an application with the Building Official, such application to contain plans and specifications and estimates of cost of the contemplated construction.

Sec. 14-6. Application - Filing time, with addenda.

No permit authorizing the construction of any building or the construction of any alterations or repairs to any existing building, or the moving of any building from outside the corporate limits to within the corporate limits, shall be issued until the application, including the plans and specifications and estimates of cost provided for herein, shall have been on file in the office of the Building Official for five full business days.

Sec. 14-7. Plat approval prerequisite to issuance.

No permit authorizing the construction of any building within the city, except auxiliary buildings to existing buildings, or authorizing the moving of any building from outside the corporate limits to within the corporate limits, shall be issued unless a plat showing the subdivision of the area where such construction is to be proposed has been approved by the city council.

Sec. 14-8. Authority to demand uncovering of work concealed prior to inspection.

The Building Official or his duly appointed representative shall have the authority to demand contractors to open such work that in any manner conceals residential, building, plumbing, mechanical, fuel gas, electrical, energy or fire code items that has been closed without his/her knowledge or permission, and in no case shall the inspector issue clearance until he/she is satisfied that the work is in accordance with the provisions of all articles. The Building Official or his representative shall have the right to refuse to issue a clearance on any item that is concealed in such a manner that they cannot fully satisfy themselves that it has been done in accordance with all articles.

Sec. 14-9. Approval of inspector required before reconnecting service; exception.

When service is disconnected to any building used for commercial or mercantile purposes, theaters, gasoline stations and garages whether for fire or catastrophe

reasons or other, approval must be obtained before reconnecting to the appropriate utilities. Provided, however, where service is terminated for non-payment of bill, it shall not be necessary to obtain city approval before reconnecting.

Sec. 14-10. Penalty for violations.

Any person violating the terms and provisions of this chapter shall be deemed guilty of a misdemeanor and such person shall be fined not more than the maximum provided in Section 1-12 of the City of Euless Code for fire safety and public health and sanitation provision violations for each offense. Every violation and each and every day's failure or refusal to comply with these provisions will constitute a separate offense, and in case of willful or continued violation by any person or his agents, employees servants or officers, the City shall have the power to revoke and repeal any license under which the person may be acting, and revoke all permits, privileges and franchises granted to the person.

Sec. 14-11. Appeals Board.

There is a City variance and appeals board that allows for the opportunity to appeal.

See Euless Code Sec. 84-27 (ZBA Board)

Sec. 14-12. Authority to establish policy standards.

The Building Official shall have authority to establish certain policy guidelines or standards regulating various provisions of the residential, building, plumbing, fuel gas, mechanical, electrical, property maintenance, abatement of dangerous buildings and health codes adopted in this chapter that are subject to the standardization of construction or health methods and/or local interpretation. The Building Official shall have the authority to outline conditions and provide for code consistency to rules, regulations, or laws with county, state or federal agencies.

Sec. 14-13 thru 14-20. Reserved.

ARTICLE II. INTERNATIONAL RESIDENTIAL CODE AMENDMENTS/ADMINISTRATION

Sec. 14-21. Adoption. International Residential Code adopted: amendments

The International Residential Code, 2009 Edition, as published by the International Code Council, including Appendix G, Section AG 101- AG 107, Appendix J, and Appendix O, is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such Code shall be fully applicable and binding.

Sec. 14-22. Administration and enforcement of residential code.

The residential code of the city shall be administered and enforced by the office of the Building Official.

Sec. 14-23. Scope of Requirements.

A. For the purpose of this code**,** every building or structure within aircraft exposure zone "B" as defined by section 74-114 of the City of Euless Code of Ordinances shall be subject to the following noise attenuation requirements.

B. Noise level reduction standards for certain uses. The minimum outdoor-to-indoor noise level reduction for certain building uses within zone "B" shall be 25 decibels (A-weighted) as measured from the center of each room.

Building Use	**Minimum Decibel Reduction from Outdoors to Indoors**
Residential: Residential within each unit including transient lodgings	25 dba
Public Use: Schools, hospitals, churches, nursing home	25 dba

C. Certification of plans prior to issuance of building permits. No building permit for any listed building or structure shall be issued unless all plans and specifications accompanying the application for the permit are certified by a registered professional architect or engineer of the State of Texas as meeting the noise level reduction standards required. The following certification shall appear on every sheet of the building plans.

(Name), a registered professional engineer or architect of the State of Texas, has examined the plans and specification and does hereby certify that when the structure is constructed in accordance with these plans and with quality workmanship that the structure will provide a shell isolation rating (S.I.R.) of not less than 25 points.

Sec. 14-24. Excavation and grading guidelines for development.

Grading guidelines for development of lots and tracts, to maintain protection of adjoining properties and alleviate erosion problems encountered by improper drainage, shall be as follows:

A. Excavations or fills made for purpose of development of a lot or tract shall grade permanent slopes no steeper than five feet horizontal to one foot vertical.

B. Deviation from excavation or fill limitations for slopes shall be permitted only upon the presentation of a soil investigation report acceptable to the Building Official.

C. Retaining walls used to comply with the foregoing requirement shall be constructed in accordance with accepted engineering practices and shall be installed in a good workman like manner satisfactory to the Building Official.

D. Retaining walls four feet and greater in height from finished grade to the top of wall shall require a permit prior to construction. The contractor must make application to the building department and submit a detailed engineered drawing and calculations including adequate drainage provisions through the wall. All drawings must bear the legal descriptions of property, all boundaries, easements and rights-of-way, as well as the engineer's seal and signature. All retaining walls one foot or taller shall be constructed of approved masonry materials only and provide for adequate drainage through the wall. (This is not intended to prohibit the use of non-masonry materials for landscaping.)

E. Grading of slopes shall be done in such a manner as to ensure proper drainage. Where practical, 80 percent of the lot or tract shall be graded to the fronting street gutter. Drainage on the portion of a lot or tract below curb level shall not drain across more than one lot or tract before entering an approved drainage way. This drainage shall be accomplished in such a manner as not to cause erosion or damage to any property.

F. Whenever the Building Official determines that any existing excavation or embankment or fill on private property has become a hazard to life and limb or endangers property or adversely affects the safety, use or stability of a public way or drainage channel, the owner of the property upon which the excavation or fill is located, or other person or agents in control of said property, upon receipt of notice in writing from the building official, shall within the period specified therein repair or eliminate the hazard and be in conformance with the requirements of this Code.

Sec. 14-25. Amendments.

The International Residential Code, 2009 Edition, adopted in Sec. 14-21, shall be amended as follows:

Section R101.1, Title: change to read as follows:
The provisions shall be known as the Residential Code for One and Two-Family Dwellings of the City of Euless and shall be cited as such and will be referred to herein as "this code".

Section R102.4 Referenced codes and standards: change to read as follows:
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. 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 ICC Electrical Code shall mean the Electrical Code as adopted.

Where differences occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply.

Exception: Where enforcement . . . {remainder of exception unchanged.}. . . .

Section R105.2, Building Item #1: change to read as follows:

1. One-story detached accessory structures provided the floor area is less than 120 square feet.

1.1 Masonry material is required for all components of a retaining wall 1 foot or taller. Retaining walls 4 foot or taller shall have engineered drawings submitted when applying for permit. All walls shall have drainage provisions through the wall. All drawings must bear the legal descriptions of property, all boundaries, easements and rights-of-way, as well as the engineer's seal and signature.

Section R105.5, Expiration: change to read as follows:
Work requiring a permit shall not be granted an extension or be renewed beyond a 24 month period from the time the permit was originally issued. Any incomplete work for which a permit has expired shall be caused by the Building Official to be demolished in accordance with Article XII – Abatement of Dangerous Buildings.

Section R108.2, Schedule of permit fees: changed to add a second sentence to read as follows:

See approved fee schedule (chapter 30)

Section R108.7 add to read as follows:

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

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

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

3. Approved plans are not on the job site available for inspection when called;

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

5. The original red tag has been removed from the job site and/or,

6. Violations exist on the property including failure to maintain erosion control, trash control or tree protection.

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

Section R110, Certificate of Occupancy (R110.1 through R110.5): is deleted.

Sections R112.2.1 & R112.2.2: are deleted.

Section R202, Definitions: the definitions of "Townhouse", "Retaining Wall" and "Municipality" are changed to read as follows:

RETAINING WALL. A retaining wall is a structure built in order to hold back earth which would otherwise move downwards. The purpose of a retaining wall is to stabilize slopes and provide useful areas at different elevations

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.

Wherever the word "municipality" is used in this code, it shall mean the City of Euless.

Table R301.2(1), Climatic and Geographic Design Criteria: change to read as follows:

GROUND SNOW LOAD	WIND DESIGN SPEED[d (mph)]	SEISMIC DESIGN CATEGORY[h]
5 lb/ft^2	90 (3-sec-gust)/76 fastest mile	A

SUBJECT TO DAMAGE FROM		
Weathering[a]	Frost line depth[b]	Termite[c]
moderate	6"	very heavy

WINTER DESIGN TEMP[e]	ICE SHIELD UNDER-LAYMENT REQUIRED[h]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
22°F	No	local code	69°F	64.9°F

Section R302.1, Exterior walls: change exception #1 and add exception #6 to read as follows**:**

Exceptions:

1. Detached garages accessory to a dwelling located within 3 feet of a lot line may have roof projections not exceeding 12 inches.

6. Open metal carport structures may be constructed within three feet of the property line without fire-resistive or opening protection when the location of such is approved as required by other adopted ordinances.

Section R302.2, Townhouses: change Exception to read as follows:

Exception: A common two-hour fire-resistance-rated wall assembly, or one-hour fire-resistance-rated wall assembly when equipped with a sprinkler system….. {Remainder of section unchanged}

Section 302.2.4, Structural Independence: change Exception 5 to read as follows:

Exception: (previous exceptions unchanged)

5. Townhouses separated by a common two-hour fire-resistance-rated wall, or one-hour fire resistance rated wall when equipped with an automatic sprinkler system, (remainder unchanged).

Section R302.3, Two-family dwellings: add Exception 3 to read as follows:

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

Section 302.5.2, Duct penetration: change to read as follows:

R302.5.2 Duct penetration. Ducts in the garage….(text unchanged) … and shall have no openings into the garage and shall be protected as required by Section 302.11, item 4.

Section 302.5.3, Other penetrations: change to read as follows:

R302.5.3 Other penetrations. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, item 4.

Section R302.7, Under-stair protection: change to read as follows:

R302.7 Under stair protection**.** All enclosed space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 5/8-inch (15.8 mm) fire-rated gypsum board or one-hour fire-resistive construction.

Section R303.3, Bathrooms: change Exception to read as follows:

Exception: The glazed areas shall not be required where artificial light and mechanical ventilation system, complying with the one of the following are provided.

1. The minimum ventilation rates shall be 50 cfm (24l/s) for intermittent ventilation or 20 cfm (10L/s) for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside. (through the roof)

2. Bathrooms that contain only a water closet, a lavatory, or water closet and a lavatory may be ventilated with an approved mechanical re-circulating fan or similar designed to remove odors from the air.

Section R309.2, Carports: delete exception.

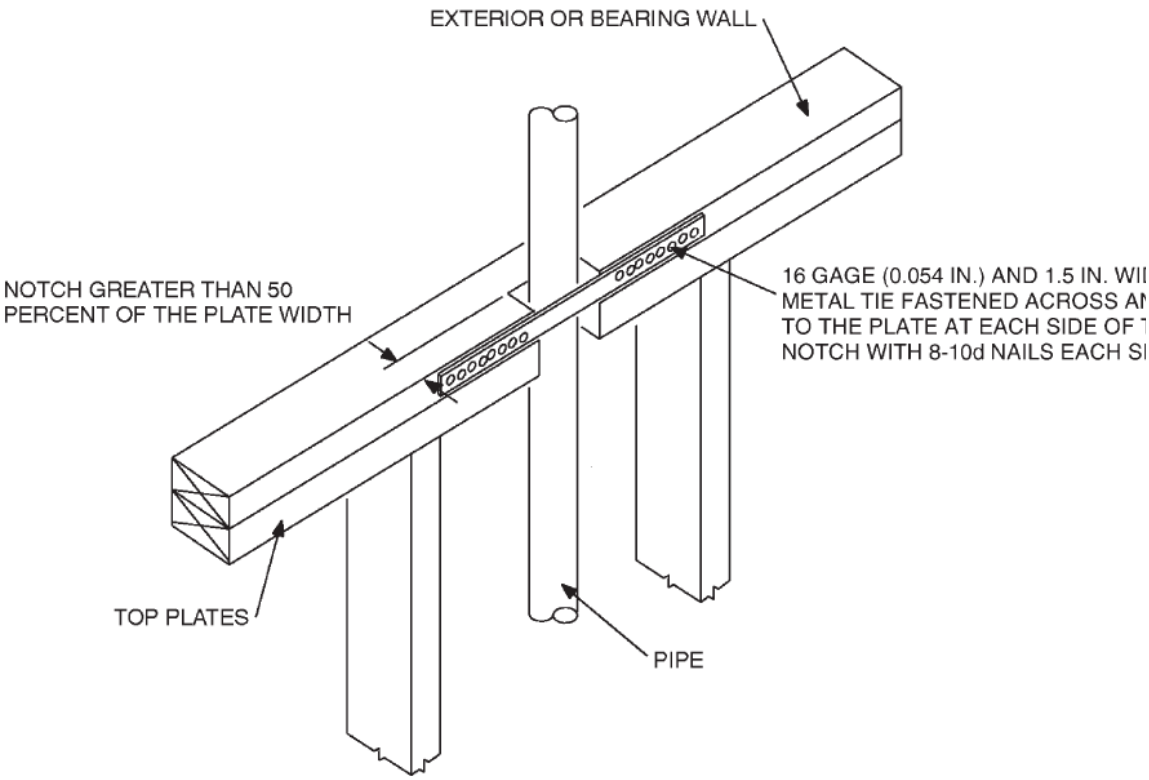
Section R315.2, *Where required in existing dwellings:* change to read as follows:

R315.2 Where required in existing dwellings. Where an electrical or gas service upgrade permit is required on an existing home, carbon monoxide alarm(s) shall be provided if the existing dwelling has an attached garages or gas fired appliances in accordance with Section 315.1.

Section R602.6.1, Drilling and notching of top plate: change to read as follows and delete exception:

R602.6.1 Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior wall, necessitating cutting, drilling or

notching of the top plate by more than 40 percent of its width, a galvanized metal tie not less than 0.054 inch thick (1.37mm) (16 Ga) and 5 inches (127mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d nails (0.148 inch diameter) having a minimum length of 1 ½ inches (38mm) tie must extend a minimum of 6 inches past the opening. See Figure R602.6.1.



For SI: 1 inch = 25.4 mm.

FIGURE R602.6.1 TOP PLATE FRAMING TO ACCOMMODATE PIPING

Section R602.6.1, Plumbing in walls and top plates: add to read as follows*:*

Section R602.6.1. Plumbing in walls and top plates. Any plumbing in a stud wall and top plate 2" and larger shall be installed in a 2" x 6" stud wall and top plate.

Section R703.7.4.1, Size and spacing: add a second paragraph to read as follows:

In stud framed exterior walls, all ties shall be anchored to studs as follows:

1. When studs 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.

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

Section R806.3, Vent and insulation clearance: change sentence to read as follows:

Where eave or cornice vents are installed, they shall be a minimum of 3 feet from all window and door openings.

Section R807.2, Attic access: add to read as follows:

R807.2 Attic access.

1. Decking materials shall be of ½" min. plywood or 5/8" min. wafer board.

2. A permanent ladder and/or stairways for access and removal of equipment shall be provided.

Section R902.1, Minimum Roof Class: change and add exception #3 to read as follows:

R902.1 Minimum Roof Class. All roof coverings shall be a minimum class C. All individual replacement shingles shall be a minimum Class C. Roofing covering materials. Roofs shall be covered with materials set forth in Sections R904 and R905. Class A, B, or C roofing shall be installed.

Exceptions:

1. (text unchanged)

2. (text unchanged)

3. Non-classified roof coverings shall be permitted on one-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided floor area does not exceed 120 square feet.

Section R902.3, Minimum Roof Class: add to read as follows:

R902.3 Minimum Roof Class. All roof coverings shall be a minimum class C. All individual replacement shingles shall be a minimum Class C.

Sections R905.7 thru 905.8.9 are deleted.

Section R907.1, General: add a sentence to read as follows:

R907.1 General. Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 9. All individual replacement shingles shall comply with Section R902.1. (exception unchanged)

Section N1101.2, Compliance: add Section N1101.2.2 to read as follows**:**

N1101.2. Compliance software tools. Software tools used to demonstrate Energy code compliance utilizing the UA alternative approach shall be approved by the Building Official. The PNL program **RES*check*** ™ is not acceptable for residential compliance.

Exception: When **RES*check***™ UA "Trade-off" compliance approach or the UA Alternate compliance approach method is used, the compliance certificate must demonstrate that the maximum glazed area does not exceed 15% of the conditioned floor area.

Section N1102.1, Insulation and fenestration criteria: change to read as follows:

N1102.1 Insulation and fenestration criteria. The building thermal envelope shall meet the requirements of Tables N1102.1 and 1102.1.2 are limited to a maximum glazing area of 15% window area to floor area ratio.

Section N1102.2.12, Insulation installed in walls: add to read as follows:

N1102.2.12 Insulation installed in walls. Insulation batts installed in walls shall be totally surrounded by an enclosure on all sides consisting of framing lumber, gypsum, sheathing, wood structural panel sheathing or other equivalent material approved by the Building Official.

Section M1305.1.3, Appliances in attics: change to read as follows:

M1305.1.3 Appliances in attics. Attics containing appliances requiring access shall be provided . . . {bulk of paragraph unchanged} . . . sides of the appliance where access is required. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not large enough to allow removal of the largest appliance. As a minimum, access to the attic space shall be provided by one of the following:

1. A permanent stair.

2. A pull down stair with a minimum 300 lbs (136kg) 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 Building Official due to building conditions.

Exception:

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).

Section M1305.1.3.1, Electrical requirements: change to read as follows:

M1305.1.3.1 Electrical requirements. A luminaire controlled by a switch located at the required passage-way opening and a receptacle outlet shall be installed at or near the appliance location in accordance with Chapter 39. Low voltage wiring of 50 Volts or less shall be installed in a manner to prevent physical damage.

Section M1305.1.4.1, Ground clearance: change to read as follows:

M1305.1.4.1 Ground clearance. Appliances supported from the ground shall be level and firmly supported on a concrete slab or other approved material extending above the adjoining ground a minimum of 3 inches (76 mm). Appliances suspended from the floor shall have a clearance of not less than 6 inches (152 mm) above the ground.

Section M1305.1.4.3, Electrical requirements: change to read as follows:

M1305.1.4.3 Electrical requirements. A luminaire controlled by a switch located at the required passage-way opening and a receptacle outlet shall be installed at or near the appliance location in accordance with Chapter 39. Low voltage wiring of 50 Volts or less shall be installed in a manner to prevent physical damage.

Section M1307.3.1, Protection from impact: is deleted.

Section M1411.3, Condensate disposal: 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 a sanitary sewer through a trap, by means of a direct or indirect drain. (remaining text unchanged)

Section M1411.3.1, Auxiliary and secondary drain systems: change items 3 and 4 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 unchanged)… with item 1 of this section. A water level detection/shut off device may be installed.

4. A water level detection device (bulk of text unchanged)…overflow rim of such pan. A water level detection/shut off device may be installed with prior approval of the Building Official.

Section M1411.3.1.1, Water-level monitoring devices: change to read as follows:

M1411.3.1.1 Water-level monitoring devices. On down-flow units … *(bulk of text unchanged) …*<u>be installed only with prior approval of the *Building Official.*</u>

Section M1501.2, Material and size: add to read as follows:

Section M1501.2 Material and size. Exhaust ducts shall have a smooth interior finish and shall be constructed of metal a minimum 0.016-inch (0.4 mm) thick. The exhaust duct size shall be 4 inches (102 mm) nominal in diameter. Duct size shall not be reduced along its developed length of at termination.

Section M1501.3, *Specified length*: add to read as follows:

M1501.3 Specified length. The maximum length of the exhaust duct shall be *35* feet (10668 mm) from the connection to the transition duct from the appliance to the outlet terminal. Where fittings are used, the maximum length of the exhaust duct shall be reduced in accordance with Table M1502.4.4.1.

Section M1601.4.3 Support: change to read as follows:

Metal ducts…(text unchanged)…or other approved means. Nonmetallic ducts shall be supported by 1-inch wide 18-gage solid metal straps with 6" metal saddles at intervals not exceeding 10 feet or in accordance with the manufacturers installation instructions.

Section M2005.2, Prohibited locations: change to read as follows:

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

Section G2408.3 (305.5), Private garages: is deleted.

Section G2412.5 (401.5), Indemnification: add a second paragraph to read as follows:

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

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

Section G2413.3 (402.3), Sizing: add an exception to read as follows:

Exception: Corrugated stainless steel tubing (CSST) shall be a minimum of 1/2'". (18 EDH).

Section G2415.9.1 (404.9.1), Prohibited use: is deleted.

Section G2415.10 (404.10), Minimum burial depth: change to read as follows:

G2415.10 (404.10) Minimum burial depth. Underground piping systems shall be installed a minimum depth of 18 inches (457 mm) below grade, except as provided for in Section G2415.10.1.

Section G2417.1 (406.1), General: 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 2417.7.5 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code 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.

Section G2417.4 (406.4), Test pressure measurement: change to read as follows:

G2417.4 (406.4) Test pressure measurement. Test pressure shall be measured with a manometer 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. Gauges used to measure…{remainder unchanged}

Section G2417.4.1 (406.4.1), Test pressure: change to read as follows:

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall be not less than 3 psig (20 kPa gauge), or at the discretion of the Building Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge. For tests requiring 3 psig gauges shall utilize a dial with a minimum diaphragm diameter of three and one half inches (3 ½”), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½”) a set hand, a minimum of

2/10 pound incrementation and a pressure range not to exceed 20 psi.

For welded piping, and for piping carrying gas pressures in excess of fourteen (14) inches of water column pressure (4.48 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 inch of water column (52.2 kPa)(7.5 psi), the test pressure shall be not less that one and one-half times the proposed maximum working pressure.

Section G2417.4.2 (406.4.2), Test duration: change to read as follows:

G2417.4.2 (406.4.2) Test duration. Test duration shall be held for a length of time satisfactory to the Building Official, but in no case for less than fifteen (15) minutes. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the Building Official, but in no case for less than thirty (30) minutes.

Section G2420.1.4, Valves in CSST installations: add to read as follows:

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

Section G2420.5.1 (409.5.1), Located within same room: change to read as follows:

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

Section G2421.1 (410.1), Pressure regulators: change to read as follows:

G2421.1 (410.1) Pressure regulators. A line pressure regulator shall be ...(bulk of paragraph unchanged)… approved for outdoor installation.

Access to regulators shall comply with the requirements for access to appliances as specified in Section M1305.

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

Section G2439.5 (614.6) Domestic clothes dryer exhaust ducts: change to read as follows:

G2439.5 (614.6) Domestic clothes dryer exhaust ducts. Exhaust ducts for domestic clothes dryers shall conform to the requirements of Sections G2439.5.1 through G2439.5.7.The size of duct shall not be reduced along its developed length nor at the point of termination.

Section G2445.2 (621.2), Prohibited use: change 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 heaters may continue to be used in dwelling units, in accordance with the code provisions in effect when installed, when approved by the Building Official unless an unsafe condition is determined to exist as described in International Fuel Gas Code Section 108.7 of the Fuel Gas Code.

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

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

Section P2503.6, Shower liner test: change to read as follows:

P2503.6 Shower liner test. Where shower floors and receptors are made water tight by the application of materials required by section P2709.2, the completed liner installation shall be tested. The pipe from the shower drain shall be plugged water tight for the test. Water shall be held in the section under test for a period of 15 minutes. The system shall prove leak free by visual inspection.

Section P2603.6.1, Sewer depth: change to read as follows:

P2603.6.1 Sewer depth**.** Building sewers shall be a minimum of 12 inches (304 mm) below grade.

Section P2608.5.1: add to read as follows:

Water service pipe shall be seamless copper type L or pex piping.

Water distribution pipe shall be copper or copper alloy, or pex piping.

Section P2709.2, Lining required: add an Exception to read as follows:

Exception: Showers designed to comply with ICC/ANSI A117.1.

Section P2718.1, Waste connection: add a second sentence to read as follows:
All clothes washing machines on a second floor or above shall have a pan.

Section P2801.4, Prohibited locations: add second sentence to read as follows:
Water heaters shall not be installed in attics.

Section P2801.6, Water heaters installed in garages: add an exception to read as follows:

Exception: Elevation of the ignition source is not required for water heaters that are listed as flammable vapor resistant and for installation without elevation.

Section P2902.5.3, Lawn irrigation systems: change to read as follows:

P2902.5.3 Lawn Irrigation Systems. The potable water supply system to lawn irrigation systems shall be protected against backflow by a pressure type vacuum breaker, a double-check assembly or a reduced pressure principle backflow preventer . . . {remainder of section unchanged}. All irrigation systems shall have rain and freeze protection installed.

P2902.5.3.1 Lawn Irrigation systems rules and law compliance with State Law and TCEQ requirements.

Landscape irrigation rules promulgated by the Texas Commission on Environmental Quality and contained in Chapter 344, Subchapters E and F, §§ 344.50-344.65, TEXAS ADMINISTRATIVE CODE, are hereby adopted by

reference as the landscape irrigation rules of the City

Table P2905.4, Water Service Pipe shall be either copper or pex only.

Table P2905.5 Water Distribution Pipe: shall be either copper or pex only.

Section P3005.2.6, Upper terminal delete current section and change to read as follows:

P3005.2.6 Upper terminal. Each horizontal drain shall be provided with a cleanout at its upper terminal.

Exception: Cleanouts may be omitted on a horizontal drain less than five (5) feet (1524 mm) in length unless such line is serving sinks or urinals.

Section P3111, Combination Waste and Vent System: is deleted.

Section P3112.2, Vent connection: is deleted and replaced 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 drain board 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.

Section P 3114, Air Admittance Valves: is deleted.

Chapters 33 through 42: are deleted and replaced with the electrical code as adopted.

Appendix G Section 105.2, Outdoor swimming pool: change items 1, 2 and 8 to read as follows and delete items 4, 5, 6 and 7:

1. Barrier shall be at least 72” inches measured on the side of the barrier which faces away from the swimming pool.

2. Barrier shall be constructed of wood with steel post. Spacing between fence slats shall not exceed 4 inches. Other materials may be used as approved by the Building Official.

8. Access gates shall be equipped to accommodate a locking device. Pedestrian…(remainder of text unchanged)……. shall comply with the following.

Sec. 14- 26 through 14-40. Reserved

ARTICLE III. INTERNATIONAL BUILDING CODE ADMENDMENTS/ADMINISTRATION

Sec. 14-41. Adoption. International Building Code:

The International Building Code, 2009 Edition, as published by the International Code Council is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such Code shall be fully applicable and binding.

Sec.14-42. Administration and enforcement of building code.

The building code of the city shall be administered and enforced by the office of the building official.

Sec.14-43. Scope of Requirements.

A. For the purpose of this code, every building or structure within aircraft exposure zone “B” as defined by section 74-114 of the City of Euless Code of Ordinances shall be subject to the following noise attenuation requirements.

B. Noise level reduction standards for certain uses. The minimum outdoor-to-indoor noise level reduction for certain building uses within zone “B” shall be 25 decibels (A-weighted) as measured from the center of each room.

Building Use	**Minimum Decibel Reduction from Outdoors to Indoors**
Residential: Residential within each unit including transient lodgings	25 dba
Public Use: Schools, hospitals, churches, nursing home	25 dba

C. Certification of plans prior to issuance of building permits. No building permit for any building or structure designated shall be issued unless all plans and specifications accompanying the application for the permit are certified by a registered professional architect or engineer of the State of Texas as meeting the noise level reduction standards required. The following certification shall appear on every sheet of the building plans.

(Name), a registered professional engineer or architect of the State of Texas, has examined the plans and specifications and does hereby certify that when the structure is constructed in accordance with these plans and with quality workmanship that the structure will provide a shell isolation rating (S.I.R.) of not less than 25 points.

Sec. 14-44. Amendments.

The International Building Code, 2009 Edition, adopted in Sec. 14-41, shall be amended as follows:

Section 101.4, Referenced codes: change to read as follows:

101.4 Referenced codes. The other codes listed in Sections 101.4.1 through 101.4.6 and referenced elsewhere in this code, when specifically adopted, shall be considered part of the requirements of this code to the prescribed extent of each such reference. Whenever amendments have been adopted to the referenced codes and standards, each reference to said code and standard shall be considered to reference the amendments as well. Any reference to NFPA 70 or the ICC *Electrical Code* shall mean the Electrical Code as adopted.

Section 101.4.7, Electrical: add to read as follows:

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

Sections 103 and 103.1: amend to read as follows:

SECTION 103
OFFICIAL BUILDING DEPARTMENT

103.1 Creation of enforcement agency. The Department of Building Safety for The City of Euless is hereby created and the Official in charge shall be known as the Building Official.

Section 105.5.1, Permit extensions: add to read as follows

105.5.1 Permit extensions. Work requiring a permit shall not be granted an extension or be renewed beyond a 24 month period from the time the permit was originally issued. Any incomplete work for which a permit has expired shall be caused by the Building Official to be demolished in accordance with ARTICLE XII – abatement of dangerous buildings.

Section 109.2.1, Plan review fees: add to read as follows:

109.2.1 Plan review fees: When submittal documents are required by section 107.1, a plan review fee shall be paid at the time of submitting the submittal documents for plan review. Said plan review fee shall be as set forth in section 30-13 of the Code of Ordinances of the City of Euless.

The Plan review fees are in addition to the permit fees. When submittal documents are incomplete or changed so as to require additional plan review or when the project involves submittal items as defined in section 106.3.4.2, an additional plan review fee shall be charged at the rate as set forth in section 30-13.

Section 109.2, Schedule of permit fees: change to add a second sentence to read as follows:

See approved fee schedule (Euless Code of Ordinances Chapter 30)

Section 109.7, Re-Inspection fee: add to read as follows:

109.7 Re-Inspection fee. A fee is established by city council may be charged when:

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

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

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

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

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

6. The original red tag has been removed from the job site and/or,

7. Violations exist on the property including failure to maintain erosion control, trash control or tree protection,

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

Section 109.8, Work without permit; 109.8.1, Investigation; 109.8.2, Fee; to read as follows:

109.8 Work without permit.

109.8.1 Investigation. Whenever work for which a permit is required by this code has been commenced without first obtaining a permit, a special investigation shall be made before a permit may be issued for such work.

109.8.2 Fee. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is subsequently issued. The investigation fee shall be equal to the amount of the permit fee required by this code or the city fee schedule Chapter 30 as applicable, the payment of such investigation fee shall not exempt the applicant from compliance with all other provisions of either this code or the technical codes nor from the penalty described by law.

Section 110.3.5, Lath and gypsum board inspection: is deleted.

Section 116.5.1, Damage or Renovations to Existing Structures: add to read as follows:

116.5.1 Damage or Renovations to Existing Structures. When a structure is renovated or is damaged to 51% of the gross floor area or if the value of the damage or renovation exceeds 51% of the value of the structure at the time of damage or renovation all requirements of this code shall be complied with in any such repair, reconstruction, or renovation.

Section 202; Definitions: amend definition of Ambulatory Health Care Facility to read as follows:

Ambulatory Health Care Facility. Buildings or portions thereof used to provide medical, surgical, psychiatric, nursing or similar care on a less than 24-hour basis to individuals who are rendered incapable of self-preservation. This group may include but not be limited to the following:

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

Option B

Section 202, Definitions: amend definition to read as follows:

HIGH-RISE BUILDING. A building having any floor used for human occupancy located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access.

Section 202; Definitions: add definition of Equipment Room to read as follows:

EQUIPMENT ROOM. Equipment room is a room in which is contained mechanical, heating equipment, electrical equipment and distribution centers, boilers, central heating plant, hot water supply boiler, or any other equipment essential to the operation of the building or preservation of the occupants.

Section 304.1, Business Group B: change to add the following to the list of occupancies:

Fire stations
Police stations with detention facilities for 5 or less

Section 307.1, High-hazard Group H: change Exception 4 to read as follows:

4. Cleaning establishments… (text unchanged) … with Section 712, or both. See also IFC chapter 12, Dry Cleaning Plant provisions.

Section 310.1, Residential Group R: change second paragraph under R-3 to read as follows:

Adult care and child care facilities with 5 or fewer unrelated persons that are within a single-family home are permitted to comply with the International Residential Code.

Section 403.1, Applicability: change Exception 3 to read as follows:

3. Open air portions of buildings with a Group A-5 occupancy in accordance with Section 303.1

Section 403.3, *Automatic sprinkler system:* Exception 2 is deleted

Section 404.1.1, Definition: change definition of “Atrium” to read as follows:

ATRIUM. An opening connecting three or more stories . . . {Balance remains unchanged}

Section 404.5, Smoke control: Exception is deleted.

Section 406.1.2, Area increase: item #3 is added to read as follows:

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

Section 406.6.1, General: add a second paragraph to read as follows:

This occupancy shall 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.

Section 506.2.2, Open space limits: change to read as follows:

506.2.2 Open space limits. Such open space shall be either on the same lot or dedicated for public use and shall be accessed from a street or *approved fire lane*. In order to be considered as accessible, if not in direct contact with a street or fire lane, a minimum 10-foot wide pathway from the street or approved fire lane must be provided.

Section 508.2.5, Separation of incidental accessory occupations: change to read as follows:

508.2.5 Separation of incidental accessory occupancies. The incidental accessory occupancies listed in Table 508.2.5 shall be separated from the remainder of the building or equipped with an automatic fire-extinguishing system, or both, in accordance with Table 508.2.5. An incidental accessory occupancy shall be classified in accordance with the occupancy of that portion of the building in which it is located.

Section 708.2, Shaft enclosure required: items 7.2, 7.3 are changed to read as follows, items 7.4 and 7.5 are deleted and 7.6 and 7.7 are renumbered as 7.4 and 7.5, respectively:

7.2. Is not part of the required means of egress system except as permitted in Section 1022.1.

7.3. Is not concealed within the building construction of a wall or a floor/ceiling assemble.

7.4. Is separated from floor openings and air transfer openings serving other floors by construction conforming to required shaft enclosures.

7.5. Is limited to the same smoke compartment.

Section 903.1.1, Alternative protection: change to read as follows:

[F] 903.1 Alternative protection. Alternative automatic fire-extinguishing systems complying with Section 904 shall be permitted in addition to automatic sprinkler protection where recognized by the applicable standard, or as approved by the fire code official.

Section 903.2, Where required: change to read as follows:

[F] 903.2 Where required. *Approved automatic sprinkler systems* in new buildings and structures shall be provided in the locations described in Section 903.2.1 through 903.2.12. Automatic sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoist ways. Storage shall not be allowed with the elevator machine room indicating “ELEVATOR MACHINERY – NO STORAGE ALLOWED”.

Section 903.2.9.3, Self-service storage facility: add 3 to read as follows:

[F] 903.2.9.3 Self-service storage facility. An *automatic sprinkler system* shall be installed throughout all self-service storage facilities.

Exception: One-story self service storage facilities that have no interior corridors, with a one-hour fire barrier separation wall installed between every storage compartment.

Option B

Section 903.2.11.3, Buildings 55 feet or more in height: changed to read as follows:

903.2.11.3 Buildings over 35 feet in height. An automatic sprinkler system shall be installed throughout buildings with a floor level, other than penthouses in compliance with Section 1509 of the International Building Code, that is located 35 feet (10 668mm) or more above the lowest level of fire department vehicle access.

Exceptions:

1. Airport control towers
2. Open parking structures in compliance with Section 406.3 of the International Building Code.
3. Occupancies in Group F-2

Sections 903.2.11.7, High-Piled Combustible Storage; 903.2.11.8 Spray Booths and Rooms; and 903.2.11.9 Buildings Over 6,000 sq.ft.: added to read as follows:

[F] 903.2.11.7 High-Piled Combustible Storage. For any building with a clear height exceeding 12 feet (4572 mm). see Chapter 23 to determine if those provisions apply.

[F] 903.2.11.8 Spray Booths and Rooms. New and existing spray booths and spraying rooms shall be protected by an approved automatic fire-extinguishing system in compliance with section 1504.

[F] 903.2.11.9 Buildings Over 6,000 sq.ft. An automatic sprinkler system shall be installed throughout all buildings with a building area over 6,000sq.ft. For the purpose of this provision, fire walls shall not define separate buildings. If a conflict exists among the sprinkler requirements of this code, the more restrictive

provision shall apply.

Exceptions:

1. Open parking garages in compliance with Section 406.3 of the International Building Code when approved by the code authority.

Section 903.3.1.1.1, Exempt locations: 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 *. . . {bulk of section 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.

5. Elevator machine rooms, machinery spaces and hoist ways.

Section 903.3.1.2, NFAP 13R sprinkler systems: change to read as follows:

[F] 903.3.1.2 NFPA 13R sprinkler systems. Where allowed**,** *automatic sprinkler systems* installed in townhouses and multi-family shall be installed throughout in accordance with NFPA 13R as amended by the Fire Department or in accordance with state law.

Section 903.3.1.3, NFPA 13D sprinkler systems: change to read as follows:

[F] 903.3.1.3 NFPA 13D sprinkler systems. Where allowed**,** *automatic sprinkler systems* installed in one-and two-family dwellings shall be installed throughout in accordance with NFPA 13D or in accordance with state law.

Section 903.3.5, Water supplies: change to read as follows:

> [F] 903.5 Water supplies. Water supplies for *automatic sprinkler systems* shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the *International Plumbing Code*.
>
> Water supply as required for such systems shall be provided in conformance with the supply requirements of the respective standards; however, every fire protection system shall be designed with a 10 psi safety factor.

Section 903.4, Sprinkler system supervision and alarms: add a second paragraph to read as follows:

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

Section 903.4.2, Alarms: add a second paragraph to read as follows:

> The alarm device required on the exterior of the building shall be weatherproof horn/strobe notification appliance with a minimum 75 candela strobe rating, installed at an approved location.

Section 903.6, Spray booths and rooms: add to read as follows:

> [F] 903.6.3 Spray booths and rooms. New and existing spray booths and spray rooms shall be protected by an *approved* automatic fire-extinguishing system in accordance with Section 1504.

Section 905.2, Installation standard: change to read as follows:

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

Section 905.3.8, Building area: add to read as follows:

[F]905.3.8 Building area. In buildings exceeding 10,000 square feet in area per story, Class I automatic wet or manual wet standpipes shall be provided 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.

Exception: Automatic dry and semi-automatic standpipes are allowed as provided for in NFPA 14.

Section 905.4, Location of Class I standpipe hose connections: change item 5 to read as follows:

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 hose connection located either *. . . {remainder of paragraph unchanged}*

Section 905.4, Location of Class I standpipe hose connections: add the following to read as follows:

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

Section 905.9, Valve supervision: add a second paragraph after the exceptions to read as follows***:***

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

Section 906.1, Where required: change Exception to item 1 to read as follows:

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

Section 907.1.4, Design standards: add to read as follows:

907.1.4 Design Standards. All alarm systems new or replacement shall be addressable. Alarm systems serving more than 20 smoke detectors shall be analog addressable.

Exception: Existing systems need not comply unless the total building remodel or expansion initiated after the effective date of this code, as adopted, exceeds 30% of the building. When cumulative building remodel or expansion exceeds 50% of the building, compliance is required within 18 months of permit application.

Section 907.2.1, Group A: change to read as follows:

907.2.1 Group A. A manual fire alarm system that activates the occupant notification system in accordance with new Section 907.6 shall be installed in Group A occupancies having an occupant load of 300 or more persons than 100 persons above or below the lowest level of exit discharge. Portions of Group E occupancies occupied for assembly purposes shall be provided with a fire alarm system as required for the Group E occupancy. Activation of fire alarm notification appliances shall:

1. Cause illumination of the means of egress with light of not less than 1 foot- candle (11 lux) at the walking surface level, and,

2. Stop any conflicting or confusing sounds and visual distractions.

Section 907.2.3, Group E: change to read as follows:

907.2.3 Group E. A manual fire alarm system that activates the occupant notification system 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.

Section 907.2.3, Group E: change Exception 1 and add exception 1.1 to read as follows:

1. A manual fire alarm system is not required in Group E educational and day care occupancies with an occupant load of less than 50 when provided with an approved automatic sprinkler system.

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.)

Section 907.2.11.1, Group R-1: change to read as follows:

Section 907.2.11.1 Group R-1. Single-or multiple-station smoke alarms and carbon monoxide alarms shall be installed and maintained in all the following locations in Group R-1:

1. text unchanged

2. text unchanged

3. text unchanged

4. For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units that have an attached garage or gas fired appliance.

5. Where work requiring a permit occurs in existing dwellings that have attached garages or gas fired appliances carbon monoxide alarms shall be provided.

Section 907.2.11.2, Groups R-2, R-3, R-4 and I-1: change to read as follows:

Section 907.2.11.2 Groups R-2, R-3, R-4 and I-1. Single-or multiple-station smoke alarms and carbon monoxide alarms shall be installed and maintained in Groups R2, R-3, R-4 and I-1 regardless of occupant load at all the following locations:

1. text unchanged

2. text unchanged

3. text unchanged

4. For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity

of the bedrooms in dwelling units that have an attached garage or gas fired appliances.

5. Where work requiring a permit occurs in existing dwellings that have attached garages or gas fired appliances carbon monoxide alarms shall be provided.

Option B

Section 907.2.13, High-rise buildings: change to read as follows:

907.2.13 High-rise buildings. Buildings having any floor used for human occupancy located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access shall be provided with an automatic smoke detection system in accordance with Section 907.2.13.1 a fire department communications system in accordance with Section 907.2.13.2 and an emergency voice/alarm communication system in accordance with Section 907.6.2.2.

Section 907.2.13, High-rise buildings: change exception 3 to read as follows:

3. Buildings with an occupancy in Group A-5 in accordance with Section 303.1, when used for open air seating; however, this exception does not apply to accessory uses including but not limited to sky boxes, restaurants and similarly enclosed areas.

Section 907.5.2.6, Type: add to read as follows:

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

Section 907.7.1, Installation: add to read as follows:

907.7.1.1 Installation. All fire alarm systems shall be installed in such a manner that the 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 initiating circuit conductors shall be Class “A” wired with a minimum of six feet separation between supply and return circuit conductors. IDC – Class “A” style – D – SLC Class “A” Style 6 – NAC - Class “B” Style Y. The IDC from an addressable device used to monitor the status of a suppression system may be wired Class “B”. Style B provided the distance

from the addressable device is within 10-feet of the suppression system device.

Section 907.7.5, Communication Requirements: add to read as follows:

[F]907.7.5.2 Communication Requirements. All alarm systems, new or replacement, shall transmit alarm, supervisory and trouble signals descriptively to the approved central station, remote supervisory station or proprietary supervising station as defined in NFPA 72. Alarms shall not be permitted to be transmitted as a General Alarm or Zone condition.

Section 910.1, General: change Exception 2 to read as follows:

2. Where areas of buildings are equipped with early suppression fast-response (ESFR) sprinklers, only manual smoke and heat vents shall be required within theses area. Automatic smoke and heat vents are prohibited.

Section 910.2.3, Group H and Section 910.2.4 *Exit access travel distance increase*: added 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.

Exceptions:

1. 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.

910.2.4 Exit access travel distance increase. Buildings and portions thereof used as a Group F-1 or S-1 occupancy where the maximum exit access travel distance is increased in accordance with Section 1016.3.

Table 910.3, Requirements for Draft Curtains and Smoke and Heat Vents: change the title of the first row of the table from “Group F-1 and S-1” to include “Group H” and to read as follows:

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.

Section 912.2.3, Hydrant distance: add to read as follows:

[F]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.

Exception: The distance described herein may be increased by the fire code official for cause.

Section 913.1, General: 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. 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 the 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.

Section 1004.1.1, Areas without fixed seating: exception is deleted.

Section 1004.2, Increased occupant load: change to read as follows:

1004.2 Increased occupant load - When approved by the code official's, the occupant load permitted in any building…. {Remainder of section is unchanged}."

Section 1007.1, Accessible means of egress required: add exception 4 to read as follows:

4. Buildings regulated under State Law and built in accordance with State

registered plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of Section 1007.

Section 1008.1.4.4, Access-controlled egress doors: add a sentence at the end of item 3 and add items 7 and 8 to read as follows:

3. Is amended to add the following to the end of the paragraph. “A push to exit button is not permitted on an exit door requiring panic hardware which is installed after the effective date of this code. A touch bar or other approved method to provide a direct interruption of power to the lock is required.

7. If a full building smoke detection system is not provided, approved smoke detectors shall be provided on both the access and egress sides of doors and at a location approved by the fire code official in accordance with NFPA 72. Actuation of a smoke detector shall automatically unlock the door.

8. When required by the fire code official, a Knox gate key switch or an approved toggle switch located inside a Knox key box must be installed at an approved location to permit an emergency override of any magnetic locking device system.

Section 1008.1.9.3, Locks and latches: add item 3.1 to read as follows:

3.1 Where egress doors are used in pairs and positive latching is required, approved automatic flush bolts shall be permitted to be used, provided that both leaves achieve positive latching regardless of the closing sequence and the door leaf having the automatic flush bolts has no doorknobs or surface mounted hardware.

Section 1008.1.9.4, Bolt locks: change exceptions 3 and 4 to read 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 of section unchanged}*.

4. Where a pair of doors serves a Group B, F, M or S occupancy.
(remainder text unchanged)

Section 1008.1.9.8, Electromagnetically locked egress doors: change to read as follows:

1008.1.9.8 Electromagnetically locked egress doors. Doors in *the means of egress* that are not otherwise required to have panic hardware in buildings with an occupancy in Group A, B, E, I-1, I-2, M, R-1 or R-2 and doors to tenant spaces in Group A, B, E, I-1, M, R-1 or R-2 shall be permitted to be electromagnetically locked if equipped with *listing* hardware that incorporates a built-in switch and meet the requirements below: (remaining text unchanged).

Section 1008.1.9.10, Stairway doors: change exception 3 to read as follows:

3. In stairways serving not more than four (4) stories, 50% of the doors are permitted to be locked from the side opposite the egress side, provided they are operable from the egress side…{remainder of paragraph unchanged}. The use of this exception is permitted only upon approval of the fire code official.

Section 1011.1.1: add to read as follows:

Where exit signs are required by section 1011.1, additional approved exit signs that are internally or externally laminated, photo-luminescent or self-luminous shall be required in all corridors serving guestrooms of R-1 and R-2 occupancies. The bottom of each sign shall be placed not less than six (6) inches nor more than eight (8) inches above the floor level and shall indicate the path of exit and exit access doors, the sign shall be on the door or adjacent to the door with the closest edge of the sign within four (4) inches of the door frame.

Section 1015.7, Electrical Rooms: add to read as follows:

1015.7 Electrical Rooms. For electrical rooms, special exiting requirements may apply. Reference the electrical code as adopted.

Section 1016.3, Roof Vent Increase: add to read as follows:

1016.3 Roof Vent Increase. In buildings that are one story in height, equipped with automatic heat and smoke vents complying with section 910 and equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the maximum exit access travel distance shall be 400 feet for occupancies in Group F-1 or S-1.

Section 1018.1, Construction: change to add the following to the end of the first paragraph:

> *Corridors* Shall be fire-resistance rated in accordance with table 1018.1. The *corridor* walls required to be fire-resistance rated shall comply with Section 709 for *fire partitions*. "An approved smoke detection system is required in any corridor or common atmosphere within the corridor if any of the corridor provisions of Table 1018.1 referencing a rated corridor of less than one hour is used. The actuation of any detector shall activate alarms audible in all areas served by the corridor."

Section 1018.6, Corridor Continuity: change to read as follows:

> 1018.6, Corridor Continuity. All corridors shall be continuous from the point of entry to an *exit*, and shall not be interrupted by intervening rooms.

Section 1022.1, Enclosures required: add exceptions 8 and 9 to read as follows:

8. In other than occupancy Groups H and I, a maximum of 50 percent of egress stairways serving one adjacent floor are not required to be enclosed, provided at least two means of egress are provided from both floors served by the unenclosed stairways. Any two such interconnected floors shall not be open to other floors.

9. In other than occupancy Groups H and I, interior egress stairways serving only the first and second stories of a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 are not required to be enclosed, provided at least two means of egress are provided from both floors served by the unenclosed stairways. Such interconnected stories shall not be open to other stories.

Option B

Section 1022.9, Smoke proof enclosures and pressurized enclosures: change to read as follows:

> 1022.9 Smoke proof enclosures and pressurized enclosures. In buildings required to comply with Section 403 or 405, each of the exit enclosures serving a story with a floor service not more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access or more than 30 feet (9 144

mm) below*. . . {remainder of section unchanged}.*

Option B

Section 1024.1, General: change read as follows:

> 1024.1: General. *Approved* luminous egress path markings delineating the exit path shall be provided in buildings of Groups A, B, E, I, M and R-1 having occupied floors located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access in accordance with *. . . {remaining text unchanged}.*

Section 1026.6, Exterior ramps and stairway protection: change exception 4 to read as follows:

> Exceptions:
>
> 4. Separation from the open-ended corridors of the building …(remaining text unchanged)

Section 1101.2, Design: add an exception to read as follows:

> Exception: Buildings regulated under State Law and built in accordance with State certified plans, including any variances or waivers granted by the State, shall be deemed to be in compliance with the requirements of this Chapter.

Section 1102, Definitions: add an exception to read as follows:

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

Table 1505.1, Minimum Roof Covering Classification for Types of Construction: change footnotes b to read as follows and delete footnote c:

> b. All individual replacement shingles shall be in compliance with the rating required by this table.

Section 1505.6, Fire-retardant-treated wood shingles and shakes and 1505.7, Special purpose roofs: are deleted.

Sections 1507.8, Roof Insulation; 1507.9, Rooftop Structures; and 1507.10, Refoofing: are deleted.

Section 2308.4.3 Application to engineered design: added to read as follows:

2308.4.3 Application to engineered design. When accepted by the Building Official, any portion of this section is permitted to apply to buildings that are otherwise outside the limitations of this section provided that:

1. The resulting design will comply with the requirements specified in Chapter 16;

2. The load limitations of various elements of this section are not exceeded; and

3. The portions of this section which will apply are identified by an engineer in the construction documents.

Section 2901.1, Scope: add a sentence to read as follows:

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

Section 2902.1, Minimum number of fixtures: change to read as follows:

2902.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number as follows:

1. Assembly Occupancies: At least one drinking fountain shall be provided at each floor level in an approved location.

   Exception: A drinking fountain need not be provided in a drinking or dining establishment.

2. Groups A, B, F, H, I, M and S Occupancies: Buildings or portions thereof where persons are employed shall be provided with at least one water closet for each sex except as provided for in Section 2902.2.

3. Group E Occupancies: Shall be provided with fixtures as shown in Table 2902.1.

4. Group R Occupancies: Shall be provided with fixtures as shown in Table 2902.1.

It is recommended, but not required, that the minimum number of fixtures provided also comply with the number shown in Table 2902.1. Types of occupancies not shown in Table 2902.1 shall be considered individually by the building official. The number of occupants shall be determined by this code. Occupancy classification shall be determined in accordance with Chapter 3.

Section 2902.2, Separate facilities: change Exception 3 as follows:

3. Seperate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 100 or less.

Section 3006.1, General: add to read as follows and renumber remaining sections:

3006.1, General. Elevator machine rooms shall be provided.

Section 3006.5 (formerly Section 3006.4), Machine rooms and machinery spaces: change to read as follows and delete exceptions 1 and 2:

3006.5. Machine Rooms. (text unchanged)… Storage shall not be allowed within the elevator machine room. Provide approved signage at each entry door to the elevator machine room stating “Elevator Machinery-No Storage Allowed.”

Section 3109.1, General: change to read as follows:

3109.1 General. Swimming pools shall comply with the requirements of this section and other applicable sections of this code as well as also complying with applicable state laws.

Sec. 14-45 through 14-60 Reserved.

ARTICLE IV. INTERNATIONAL PLUMBING CODE ADMENDMENTS/ADMINISTRATION

Sec. 14.61. Adoption. International Plumbing Code:

The International Plumbing Code, 2009 Edition, as published by the International Code Council is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such Code shall be fully applicable and binding.

Sec. 14-62. Administration of plumbing code.

The plumbing code of the city shall be administered and enforced by the office of the building official.

Sec. 14-63. Amendments.

The International Plumbing Code, 2009 Edition, adopted in Sec. 14-61, shall be amended as follows:

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

Section 714 Engineered Drainage Design 62

Section 102.8, Referenced codes and standards: 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 13 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 the requirements of reference standards or manufacturer's installation instructions do not conform to minimum provisions of this code, 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.

Sections 106.6.2,Fee schedule and 106.6.3, Fee refunds: change to read as follows:

> 106.6.2 Fee schedule. See approved fees schedule (Euless Code of

Ordinances Chapter 30).

106.6.3 Fee Refunds. The building official shall establish a policy for authorizing the refunding of fees. *(Delete balance of section)*

Section 109, Means of Appeal: change to read as follows:

SECTION 109
MEANS OF APPEAL

109.1 Application for appeal. Any person shall have the right to appeal a decision of the building official to the board of appeals established by ordinance. See Euless Code Sec. 84-27 (ZBA Board).

Section 305.6.1, Sewer depth: change to read as follows:

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

Section 305.9, Protection of components of plumbing system: change to read as follows:

305.9 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 would be exposed to damage shall be recessed into the wall or otherwise protected in an approved manner.

Section 310.4, Water closet compartment: is deleted.

Section 310.5, Urinal partitions: is deleted.

Sections 312.10.1, Inspections and 312.10.2, Testing: change to read as follows:

312.10.1 Inspections. Annual inspections shall be made of all backflow prevention assemblies and air gaps to determine whether they are operable. In the absence of local provisions, the owner is responsible to ensure that testing is performed.

312.10.2 Testing. Reduced pressure principle backflow preventer

assemblies, double check-valve assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, hose connection backflow preventers, and spill-proof vacuum breakers shall be tested at the time of installation, immediately after repairs or relocation and at least annually. The testing procedure shall be performed in accordance with applicable local provisions. In the absence of local provisions, the owner is responsible to ensure that testing is done in accordance with one of the following standards:

{list of standards unchanged}

Section 314.2.1, Condensate disposal: change third sentence to read as follows:

314.2.1 Condensate disposal. **{text unchanged}** Condensate shall not discharge into a street, alley, sidewalk, rooftop, or other areas so as to cause a nuisance.

Section 314.2.2, Drain pipe materials and sizes: change to read as follows:

314.2.2 Drain pipe materials. Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polyethylene, ABS, CPVC, or schedule 80 PVC pipe or tubing when exposed to ultra violet light. All components shall be selected for the pressure, temperature and exposure rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of Chapter 7 relative to the material type. Condensate waste and drain line size shall not be less than ¾-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate drainage, the pipe or tubing shall be sized in accordance with Table 314.2.2. All horizontal sections of drain piping shall be installed in uniform alignment at a uniform slope. All roof top drain lines shall be supported by appropriate intervals and approved support materials.

Section 401.1, Scope: change to read as follows:

401.1 Scope. The Chapter shall govern the materials, design and installation of plumbing fixtures, faucets and fixture fittings in accordance with the type of occupancy, and shall provide for the minimum number of fixtures for various types of occupancies. The provisions of this Chapter are meant to work in coordination with the provisions of the Building Code. Should any conflicts arise between the two chapters, the Building Official shall determine which provision applies.

Section 403.1, Minimum number of fixtures: change to read as follows:

403.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number as follows:

5. Assembly Occupancies: At least one drinking fountain shall be provided at each floor level in an approved location.

   Exception: A drinking fountain need not be provided in a drinking or dining establishment.

6. Groups A, B, F, H, I, M and S Occupancies: Buildings or portions thereof where persons are employed shall be provided with at least one water closet for each sex except as provided for in Section 403.2.

7. Group E Occupancies: Shall be provided with fixtures as shown in Table 403.1.

8. Group R Occupancies: Shall be provided with fixtures as shown in Table 403.1.

It is recommended, but not required, that the minimum number of fixtures provided also comply with the number shown in Table 403.1. Types of occupancies not shown in Table 403.1 shall be considered individually by the building official. The number of occupants shall be determined by the *International Building Code.* Occupancy classification shall be determined in accordance with the *International Building Code.*

Section 403.1.2, Finish material: add to read as follows*:*

403.1.2 Finish material. Finish materials shall comply with Section 1210 of the *International Building Code*.

Section 409.2, Water connection: 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.

Section 410.1, Approval: change to read as follows:

410.1 Approval. Drinking fountains shall conform to ASME A112.19.1, ASME

A112.19.2 or ASME A112.19.9, and water coolers shall conform to ARI 1010. Exception: A drinking fountain need not be provided in a drinking or dining establishment.

Section 412.4, Public laundries and central washing facilities: change to read as follows:

412.4 Required location**.** Floor drains shall be installed in the following areas with trap primers as required:

1. In public coin-operated laundries and in the central washing facilities of multiple family dwellings, the rooms containing the automatic clothes washers shall be provided with floor drains located to readily drain the entire floor area.

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

Section 417.5, Shower floors or receptors: change to read as follows:

417.5 Shower floors or receptors. Floor surfaces shall be constructed of impervious, noncorrosive, nonabsorbent and waterproof materials.

Thresholds shall be a minimum of 2 inches (51 mm) and a maximum of 9 inches (229 mm), measured from top of the drain to top of threshold or dam. Thresholds shall be of sufficient width to accommodate a minimum twenty-two (22) inch (559 mm) door.

Exception: Showers designed to comply with ICC/ANSI A117.1.

Section 417.5.2, Shower lining: change to read as follows:

417.5.2 Shower lining. Floors under shower compartments, except where prefabricated receptors have been provided, shall be lined and made water tight utilizing material complying with Sections 417.5.2.1 through 417.5.2.4. Such liners shall turn up on all sides at least 3 inches (51 mm) above the finished threshold level and shall extend outward over the threshold and fastened to the outside of the threshold jamb. Liners shall be recessed and fastened to an approved backing *. . . {remainder of section unchanged}*

Section 417.7, Test for shower receptors: add to read as follows:

417.7 Test for shower receptors. Shower receptors shall be tested for water

tightness by filling with water to the level of the rough threshold. The drain shall be plugged in a manner so that both sides of pans shall be subjected to the test at the point where it is clamped to the drain.

Section 419.3, Surrounding material: change to read as follows:

419.3 Surrounding material. Wall and floor space to a point 2 feet (610 mm) in front of a urinal lip and 4 feet (1219 mm) above the floor and at least 2 feet (610 mm) to each side of the urinal shall be waterproofed with a smooth, readily cleanable, hard, nonabsorbent material.

Section 502.3, Water heaters installed in attics: change to read as follows:

502.3 Water heaters installed in attics. Attics containing a water heater shall be provided *. . . {bulk of paragraph unchanged} . . .*removal of water heater. The passage way shall have continuous solid flooring with a minimum thickness of ½" plywood or 5/8" wafer board and be placed over a load bearing wall or with engineered approval and shall be not less than 30" high and 22" wide*…….*(remainder of text unchanged).

Section 502.6, Water heaters above ground or floor: add 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.

502.6.1 Whenever the mezzanine or platform is not adequately lighted or access to a receptacle outlet is not obtainable from the main level, lighting and a receptacle outlet shall be provided within 25 feet.

Section 504.6, Requirements for discharge piping: 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 fitting.

3. Not be smaller than the diameter of the outlet of the valve served and shall discharge full size to the air gap.

4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.

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

5. Discharge to an indirect waste receptor or to the outdoors. Where discharging to the outdoors in areas subject to freezing, discharge piping shall be first piped to an indirect waste receptor through an air gap located in a conditioned area.

6. Discharge in a manner that does not cause personal injury or structural damage.

7. Discharge to a termination point that is already observable by the building occupants.

8. Not be trapped.

9. Be installed so as to flow by gravity.

10. Not terminate less than 6 inches or more than 24 inches (152 mm) above grade nor more than 6 inches above the waste receptor.

11. Not have a threaded connection at the end of such piping.

12. Not have valve 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.

Section 604.4.1, State maximum flow rate: add to read as follows:

604.4.1 State maximum flow rate**.** Where the State mandated maximum flow rate is more restrictive than those of this section, the State flow rate shall take precedence.

Table 605.3, Water Service Pipe: add heading to read as follows:

Approved materials for water service piping are copper or copper alloy, pex

pipe and pex-al-pex.

Tables 605.4, Water Distribution Pipe and 605.5, Pipe Fittings: Add heading to read as follows:

Approved materials for water distribution piping are copper or copper alloy, pex pipe and pex-al-pex.

Section 606.1, Location of full-open valves: items 4 and 5 are deleted.

Section 606.2, Location of shutoff valves: change to read as follows:

606.2 Location of shutoff valve. Shutoff valves shall be installed in the following location:

1. On the fixture supply to each plumbing fixture other than bathtubs and showers in one-and two family residential occupancies, and other than in individual sleeping units that are provided with unit shutoff valves in hotels, motels, boarding houses and similar occupancies.

3. On the water supply pipe to each appliance or mechanical equipment.

Section 608.1, General: 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 nonpotable liquids, solids or gases being introduced into the potable water supply through cross-connections or any other piping connections to the system. Back flow preventer applications shall conform to applicable local regulations, Table 608.1, and as specifically stated in Sections 608.2 through 608.16.10.

Section 608.16.5, Connections to lawn irrigation systems: change to read as follows: and add Section 608.16.5.1:

608.16.5 Connections to Lawn Irrigation Systems. The potable water supply system 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 . . . {*remainder of section unchanged}.* All irrigation systems shall have rain and freeze protection installed.

Section 608.16.5.1. Lawn Irrigation systems rules and law compliance with State Law and TCEQ requirements.

Landscape irrigation rules promulgated by the Texas Commission on Environmental Quality and contained in Chapter 344, Subchapters E and F, §§ 344.50-344.65, TEXAS ADMINISTRATIVE CODE, are hereby adopted by reference as the landscape irrigation rules of the City

Section 608.17, Protection of individual water supplies: change to read as follows:

608.17 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. In the absence of other local regulations, installation shall be in accordance with Sections 608.17.1 through 608.17.8.

Section 610.1, General: change to read as follows:

610.1 General. New or repaired potable water systems shall be purged of deleterious matter and disinfected prior to utilization. The method to be followed shall be that prescribed by the health authority or water purveyor having jurisdiction or, in the absence of a prescribed method, the procedure described in either AWWA C651 or AWWA C652, or as described in this section. This requirement shall apply to “on-site” or “inplant” fabrication of a system or to a modular portion of a system.

1. The pipe system shall be flushed with clean, potable water until dirty water does not appear at the points of outlet.

2. The system or part thereof shall be filled with a water/chlorine solution containing at least 50 parts per million (50 mg/L) of chlorine, and the system or part thereof shall be valved off and allowed to stand for 24 hours; or the system or part thereof shall be filled with a water/chlorine solution containing at least 200 parts per million (200 mg/L) of chlorine and allowed to stand for 3 hours.

3. Following the required standing time, the system shall be flushed with clean potable water until the chlorine is purged from the system.

4. The procedure shall be repeated where shown by a bacteriological examination that contamination remains present in the system.

Exception: With prior approval the Code Official may waive this requirement when deemed un-necessary by the Code Official.

Section 712.5, Dual Pump System: add 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.

Section 802.1.6, Domestic dishwashing machines: change to read as follows:

802.1.6 Domestic dishwashing machines. Domestic dishwashing machines shall discharge indirectly through an air gap or air break into a standpipe or waste receptor in accordance with Section 802.2, or discharge into a wye-branch fitting on the tailpiece of the kitchen sink or the dishwasher connection of a food waste grinder. The waste line of a domestic dishwashing machine discharging into a kitchen sink tailpiece or food waste grinder shall connect to a deck-mounted air gap.

Section 802.4, Standpipes: add a sentence to read as follows:

No standpipe shall be installed below the ground.

Section 904.1, Roof extension: change to read as follows:

904.1 Roof extension. All open vent pipes that extend through a roof shall be terminated at least six (6) inches (152 mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134 mm) above the roof.

Section 906.1, Distance of trap from vent: change to read as follows:

906.1 Distance of trap from vent. Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are with the requirements set forth in Table 906.1.

Section 912.1, Type of fixtures: change to read as follows:

912.1 Type of fixture. A combination drain and vent system shall not serve fixtures other than floor drains, standpipes, and indirect waste receptors. Combination drain and vent systems shall not receive the discharge from a food waste grinder or clinical sink.

Section 1002.10, Plumbing in mental health centers: is deleted.

Table 1003.3.4.1, Capacity of Grease Interceptors: replace table to read as follows:

All food establishments having a food disposal or discharge of more than 50 gallons per minute shall discharge into an oil & grease interceptor.

Establishments with a discharge of 50 gallons per minute or less shall discharge into at least a 100-pound size grease trap. An approved-type grease interceptor or grease trap complying with the provisions of this subsection shall be installed in the waste line leading from sinks, drains, and other fixtures or equipment in establishments such as restaurants, cafes, lunch counters, cafeterias, bars and clubs, hotels, hospitals, sanitarium, factory or school kitchens, or other establishments where grease may be introduced into the drainage or sewage system in quantities that can affect line stoppage or hinder sewage treatment or private sewage disposal when grease interceptors are required. A grease trap is not required for individual dwelling units or for any private living quarters.

Grease Interceptors

Concrete -Shall be composed of one part Portland cement and five parts aggregate.
-Reinforcement bars deformed number four bars on 18-inch centers

Manholes -Cast iron frame with 20-inch cover.

Vents Four-inch sanitary vent may be reduced to two inches if interceptor is connected to a properly vented sewer or waste line within 25 feet.

-Relief vents shall be two inches between compartments and to atmosphere above roof, and inside building.

Capacity -The figures below are approximates:

100 cubic feet holding 750 gallons *retention* capacity.

Clean out –Should be two-way located as near as possible to the interceptor on outflow line above seal.

Section 1101.8, Cleanouts required: change to read as follows:

1101.8 Cleanouts required. Cleanouts shall be installed in the building storm drainage system*...{remainder of section unchanged}…*

Section 1106.1, General: 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 rainfall rate.

Section 1107.3, Sizing of secondary drains: change to read as follows:

1107.3 Sizing of secondary drains. Secondary (emergency) roof drain system shall be sized in accordance with Section 1106. Scuppers shall be sized to prevent the depth of ponding water . . . *{remainder of section unchanged}*

Section 1202.1, Nonflammable medical gases: exception 2 is deleted.

Appendices B, C, D, E, F and G are adopted.

Sec. 14-64-14-80. Reserved

ARTICLE V. INTERNATIONAL FUEL GAS CODE ADMENDMENTS/ADMINISTRATION

Sec. 14-81. Adoption. International Fuel Gas Code:

The International Fuel Gas Code, 2009 Edition, as published by the International Code Council is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such Code shall be fully applicable and binding.

Sec. 14-82. Administration of fuel gas code.

The fuel gas code of the city shall be administered and enforced by the office of the Building Official.

Sec. 14-83. Amendments.

The International Fuel Gas Code, 2009 Edition, adopted in Sec. 14-81, shall be amended as follows:

Section 102.2, Existing installations: add an exception to read as follows:

> Exception: Existing dwelling units shall comply with Section 621.2.

Section 102.8, Referenced codes and standards: 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 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.

Sections 106.6.2, Fee schedule and 106.6.3, Fee refunds: change to read as follows:

> 106.6.2 Fees, See approved fees schedule (Euless Code of Ordinances Chapter 30)
>
> 106.6.3 Fee refunds. The building official shall establish a policy for authorizing the refunding of fees. (Delete balance of section)

Section 109 (IFGC) Means of Appeal: change to read as follows:

> Section 109
> MEANS OF APPEAL
>
> 109.1 Application for appeal. Any person shall have the right to appeal a decision of the building official to the board of appeals established by

ordinance. See Euless Code Sec. 84-27(ZBA Board).

Section 304.10, Louvers and grilles: change to read as follows:

304.10 Louvers and grilles. The required size of openings..{bulk of paragraph unchanged}…to provide the free area specified. Where the design and free area are not known, it shall be assumed that wood louvers will have 25-percent free area and metal louvers and grilles will have 50-percent free area. {Remainder of section unchanged.}

Section 304.11, Combustion air ducts: change to read as follows:

304.11Combustion air ducts. Combustion air ducts shall comply with all the following:

1. Ducts shall be constructed of galvanized steel complying with Chapter 6 of the International Mechanical Code or of a material having equivalent corrosion resistance, strength and rigidity.

   Exception: Within dwellings units, unobstructed stud and joist spaces shall not be prohibited from conveying combustion air, provided that not more than one required fireblock is removed.

2. Ducts shall terminate in an unobstructed space allowing free movement of combustion air to the appliances.

3. Ducts shall serve a single enclosure.

4. Ducts shall not serve both upper and lower combustion air openings where both such openings are used. The separation between ducts serving upper and lower combustion air openings shall be maintained to the source of combustion air.

5. Ducts shall not be screened where terminating in an attic space.

6. Horizontal upper combustion air ducts shall not slope downward toward the source of combustion air.

7. The remaining space surrounding a chimney liner, gas vent, special gas vent or plastic piping installed within a masonry, metal or factory-built chimney shall not be used to supply combustion air.

   Exception: Direct-vent gas-fired appliances designed for installation in a solid fuel-burning fireplace where installed in accordance with the

manufacturer's instructions.

8. Combustion air intake openings located on the exterior of a building shall have the lowest side of such openings located not less than 12 inches (305 mm) vertically from the adjoining ground level or the manufacturer's recommendation, whichever is more restrictive**.**

Section 305.5, Private garages: is deleted.

Section 306.3, Appliances in attics: change to read as follows:

M).306.3 Appliances in attics. Attics containing appliances requiring access shall be provided *. . . {bulk of paragraph unchanged} . . .* side of *the appliance.* The clear *access* opening shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not large enough to allow removal of the largest *appliance* and shall have continuous unobstructed solid flooring not less than ½" thick plywood or 5/8" particle board, 24 inches (762 mm) wide. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the equipment. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not 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.

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 through the required opening.

2. Where the passageway is not less than … (bulk of section to read the same).

A receptacle outlet shall be provided at or near the equipment and appliance

location within 25 feet and in accordance with the Electrical Code.

Section 306.5, Equipment and appliances on roofs or elevated structures: change to read as follows:

306.5 Equipment and appliances on roofs or elevated structures. Where equipment and appliances requiring access are installed on roofs or elevated structures at an aggregate height exceeding 16 feet (4877 mm), such access shall be provided by a permanent approved means of access. Permanent 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 appliance's level service space. Such access shall . . . *{bulk of section to read the same}*. . . on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope).

A receptacle outlet shall be provided at or near the equipment and appliance location within 25 feet and in accordance with the Electrical Code.

Section 306.5.1, Sloped roofs: change to read as follows:.

[M]. 306.5.1 Sloped roofs. Where appliances, equipment fans or other components that require service are installed on roofs having slopes greater than 4 units vertical in 12 units horizontal 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*.

Sections 306.7, Water heaters above ground floor and 306.7.1 Illumination and convenience outlet: add to read as follows:

306.7 Water heaters above ground 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 when approved by the

code official) is capable of being accessed through 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.

306.7.1 Illumination and convenience outlet. Whenever the mezzanine or platform is not adequately lighted or access to a receptacle outlet is not obtainable from the main level, lighting and a receptacle outlet shall be provided in accordance with Section 306.3.1.

Section 401.5, Identification: add a second paragraph to read as follows:

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

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

Section 402.3, Sizing: add an exception to read as follows:

Exception: Corrugated stainless steel tubing (CSST) shall be a minimum of 1/2".

Section 404.10, Minimum burial depth: change to read as follows:

404.10 Minimum burial depth. Underground piping systems shall be installed a minimum depth of 18 inches (458 mm) below grade.

Section 406.1, General: change to read as follows:

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 406.1.1 through 406.1.5 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code 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.

Section 406.4, Test pressure measurement: change to read as follows:

406.4 Test pressure measurement. Test pressure shall be measured with a manometer 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. For tests requiring a pressure of 3 psig, mechanical gauges shall utilize a dial with a minimum diameter of three and one half inches (3 ½"), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi. For tests requiring a pressure of 10 psig, mechanical gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½"), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi.

Section 406.4.1, Test pressure: change to read as follows:

406.4.1 Test pressure. The test pressure to be used shall be not less than 3 psig (20 kPa gauge), or at the discretion of the Building Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) and less than 56 inches of water column pressure (13.92 kPa), the test pressure shall not be less than ten (10) pounds per square inch (40.4 kPa). For piping carrying gas at a pressure that exceed 56 inches of water column (13.92 kPa), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.

Section 406.4.2, Test duration: change to read as follows:

406.4.2 Test duration. Test duration shall be held for a length of time satisfactory to the Building Official, but in no case for less than fifteen (15) minutes. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the Building Official, but in no case for less than thirty (30) minutes.

Section 409.1.4, Valves in CSST installations: add to read as follows:

409.1.4 Valves in CSST installations. Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an

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

Section 410.1;Pressure regulators: 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.

Section 614.6, Domestic clothes dryer exhaust ducts: add a sentence to read as follows:

The size of duct shall not be reduced along its developed length nor at the point of termination.

Section 621.2, Prohibited use: change to read 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 Building Official unless an unsafe condition is determined to exist as described in Section 108.7.

Section 624.1.1, Installation requirements: change to read as follows:

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 the *International Plumbing Code.*

Sec. 14- 84 through 14-100. Reserved

ARTICLE VI. INTERNATIONAL MECHANICAL CODE AMENDMENTS/ADMINISTRATION

Sec. 14-101. Adoption. International Mechanical Code:

The International Mechanical Code, 2009 Edition, as published by the International Code Council is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such Code shall be fully applicable and binding.

Sec. 14-102. Administration of mechanical code.

The mechanical code of the City shall be administered and enforced by the office of the Building Official.

Sec. 14-103. Amendments.

The International Mechanical Code, 2009 Edition, adopted in Sec. 14-101, shall be amended as follows:

Section 102.8, Referenced codes and standards: 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 amendments as well. Any reference to NFPA 70 or the ICC *Electrical Code* shall mean the Electrical Code as adopted.

Sections 106.5.2, Fee schedule and 106.5.3, Fee refunds: change to read as follows:

> 106.5.2 Fee schedule. See approved fee schedule (Euless Code of Ordinances Chapter 30).
>
> 106.5.3 Fee refunds. The building official shall establish a policy for

authorizing the refunding of fees. (delete balance of section)

Section 304.6, Public garages: is deleted.

Section 306.3, Appliances in attics: change to read as follows:

306.3. Appliances in attics. Attics containing appliances requiring access shall be provided *. . . {bulk of paragraph unchanged} . . .* from the opening to the appliance. The passageway shall have continuous unobstructed solid flooring not less than 30 inches (762 mm) wide and shall be not less than ½" plywood or 5/8" wafer board. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the equipment. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), or larger where such dimensions are not large enough to allow removal of the largest appliance. As a minimum, access to the attic space shall be provided by one of the following:

1. A permanent stair.

2. A pull down stair.

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.

Exception: The passageway and level service space are not required where the appliance is capable of being serviced and removed … (remainder of section unchanged).

A receptacle outlet shall be provided at or near the equipment and appliance location within 25 feet and in accordance with the Electrical Code.

Section 306.5, Equipment and appliances on roofs or elevated structures: change to read as follows:

306.5 Equipment and appliances on roofs or elevated structures. Where equipment and appliances requiring access are installed on roofs or elevated structures at an aggregate height exceeding 16 feet (4877 mm), such access shall be provided by a permanent approved means of access. Permanent 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 appliance's level service space. Such access shall . . . *{bulk of section to read the same}*. . . on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope)….(remaining language unchanged).

A receptacle outlet shall be provided at or near the equipment and appliance location within 25 feet and in accordance with the Electrical Code.

Section 306.5.1, Sloped roofs:; change to read as follows:

306.5.1 Sloped roofs. Where appliances**,** equipment, fans or other components that require service are installed on roofs having slopes greater than 4 units vertical in 12 units horizontal and having an edge more than 30 inches (762 mm) above grade such edge, a catwalk at least 16 inches in width with substantial cleats spaced not more 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 or 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.

Sections 306.6, Water heaters above ground floor: add to read as follows:

306.6; Water heaters above ground floor. When the mezzanine or platform in which a water heater is installed is more than (8) feet (2438mm) 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 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.

306.6.1; Whenever the mezzanine or platform is not adequately lighted or *access* to a receptacle outlet is not obtainable from the main level, lighting and a receptacle outlet shall be provided in accordance with Section 306.3.1.

Section 307.2.2, Drain pipe materials and sizes: change to read as follows:

307.2.2 Drain pipe materials and sizes. Components of the condensate disposal system shall be copper or CPVC pipe or tubing. All components

shall be selected for the pressure, temperature, and exposure rating of the installation. {*Remainder unchanged}*

Section 307.2.3, Auxiliary and secondary drain systems: change 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.

Section 403.2.1, Recirculation of air: add item 5 to read as follows:

5. 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.

Section 501.2, Exhaust discharge: change to read as follows:

501.2 Exhaust discharge. The air removed by every mechanical exhaust system shall be discharged outdoors to a point where it will not cause a nuisance and not less than the distances specified in Section 501.2.1. The air shall be discharged to a location from which it cannot be readily drawn in by a ventilating system. Air shall not be exhausted into an attic or crawl space or soffit.

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

Section 504.6, Domestic clothes dryer ducts: add a sentence to read as follows:

The size of duct shall not be reduced along its developed length or at the point of termination.

Section 607.5.1, Fire walls: change to read as follows:

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

Sec. 14- 104 through 14-120. Reserved

ARTICLE VII. INTERNATIONAL ENERGY CONSERVATION CODE AMENDMENTS/ADMINISTRATION

Sec. 14-121. Adoption. International Energy Conservation Code:

The International Energy Conservation Code, 2009 Edition, as published by the International Code Council is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such code shall be fully applicable and binding.

Sec. 14-122. Administration of Energy Conservation Code.

The energy conservation code of the City shall be administered and enforced by the office of the Building Official.

Sec. 14-123. Amendments.

The International Energy Conservation Code, 2009 Edition, adopted in Sec. 14-121, shall be amended as follows:

Section 101.4.2, Historic buildings: change to read as follows:

> 101.4.2 Historic buildings. Any building or structure that listed in the State or National Register of Historic Places; designated as historic property under local or state designation law or survey; certified as a contributing resource with a National Register listed or locally designated historic district; or with an opinion or certification that the property is eligible to be listed on the National or State Registers of Historic Places either individually or as a contributing building to a historic district by the State Historic Preservation Officer of the Keeper of the National Register of Historic Places, shall comply with all of the provisions of this code.
>
> Exception: Whenever a provision or provisions shall invalidate or jeopardize the historical designation or listing, that provision or provisions may be exempted.

Section 103.1.1, Alternative compliance: add to read as follows:

> 103.1.1 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 Building Official, be

considered in compliance. The United States Environmental Protection Agency's Energy Star Program certification of energy code equivalency shall be considered in compliance.

Section 202, General Definitions: add the definition of Glazing Area to read as follows:

GLAZING AREA: Total area of the glazed fenestration measured using the rough opening and including sash, curbing or other framing elements that enclose conditioned space. Glazing area includes the area of glazed fenestration assemblies in walls bounding conditioned basements. For doors where the daylight opening area is less than 50 percent of the door area, the glazing area is the daylight opening area. For all other doors, the glazing area is the rough opening area for the door including the door and frame.

Section 401.2, Compliance: change item 1 to read as follows:

1. Sections 402.1 through 402.3, 403.2.1 and 404.1 (prescriptive) and the use of Tables 402.1.1 and 402.1.3 are limited to a maximum *glazing* area of 15% window area to floor area ratio; or

2. (language unchanged)

Section 402.2.12, Insulation installed in walls: add to read as follows:

Section 402.2.12 Insulation installed in walls. Insulation batts installed in walls shall be totally surrounded by an enclosure on all sides consisting of framing lumber, gypsum, sheathing, wood structural panel sheathing or other equivalent material approved by the building official.

Section 405.4.1, Compliance software tools: add the following sentence to the end of paragraph:

RemRate™, Energy Guage™, and IC3 are deemed acceptable performance simulation programs.

Sec. 14- 124 through 14-140. Reserved

ARTICLE VIII. NATIONAL ELECTRICAL CODE AMENDMENTS/ADMINISTRATION

Sec. 14-141. Adoption. National Electrical Code.

The National Electrical Code, 2011 Edition, as published by the NFPA is hereby adopted by reference. Unless deleted, amended, expanded or otherwise changed herein, all provisions of such Code shall be fully applicable and binding.

Sec. 14-142. Administration and enforcement of The Electrical Code.

The electrical code of the city shall be administered and enforced by the office of the Building Official or his designee.

Sec. 14-143. Amendments.

The National Electrical Code, 2011 Edition, adopted in Sec. 14-141, shall be amended as follows:

Section 90-4.1: add to read as follows:

> The fees to be charged for any electrical work in the city shall be in accordance with Euless Code of Ordinances chapter 30. There shall be a reinspection fee, as set forth in chapter 30, where it is necessary for the electrical inspector to reinspect any phase of an electrical job.

Article 100, Part I, General: change the definition of Intersystem Bonding Termination to read as follows:

> Intersystem Bonding Termination. A device that provides a means for connecting bonding conductors for communication systems and other systems such as metallic gas piping systems to the grounding electrode system.

Article 110.2, Approval: change 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 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 approved by the AHJ.

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

Article 230.2(A) add a seventh special condition as follows:

(7) In supplying electrical service to multifamily dwellings, two or more laterals or overhead service drops shall be permitted to a building when both of the following conditions are met:

a. The building has six or more individual gang meters and all meters are grouped at the same location.

b. Each lateral or overhead service drop originates from the same point of service.

Article 230.70(A)(1), Readily Accessible Location: change to read as follows:

The service disconnecting means shall be installed at a readily accessible location outside the building or structure within a maximum of 5 feet of the service conductors.

Article 230.71(A), General: add an exception to read as follows:

230.71 Maximum Number of Disconnects.

Exception: Multi-occupant Buildings. Individual service disconnecting means is limited to six for each occupant. The number of individual disconnects at one location may exceed six.

Article 240.91, Protection of Conductors: is deleted.

Article 250.52(A), Electrodes Permitted for Grounding: add a paragraph to read as follows:

250.52 Grounding Electrodes.

(A) Electrodes Permitted for Grounding.

Where a metal underground water pipe, as described in item (1), is not present, a method of grounding as specified in (2) through (4) below shall be used.

Article 300.1, Scope: add section (D) to read as follows:

(D) (1) Electric wiring installed within the city shall be no less than nonmetallic cable. Aluminum wiring shall not be used in any installation except for the service entrance conductors and to the service main control cutoff equipment to the premises wiring system.

(2) No electrical panels or plastic electrical boxes shall be mounted on the opposite sides of the walls around bath tubs and shower enclosures, and romex in such locations shall be enclosed in metal conduit around bath areas.

(3) Smoke detectors (alarms) GFCI and AFI protection shall be updated at time of service upgrade or remodel.

Article 300.11(A)(1), Fire-Rated Assemblies: change to read as follows and delete exceptoins:

(1) Fire-Rated Assemblies. Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires <u>unless tested as part of a fire-rated assembly.</u> An independent means of secure support…{text unchanged}…are part of the fire-rated design.

delete exception

Article 300.11(A)(2), Non-Fire-Rated Assemblies: change to read as follows:

(2) Non-Fire-Rated Assemblies. Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires <u>unless authorized by, and installed in accordance with, the ceiling system manufacturer's instructions</u>. An independent means of secure support shall be provided.

Exception: <u>From the last point of independent support or base for connections within an accessible ceiling to luminaire(s) (lighting fixture(s)) or equipment, branch circuit or fixture whip wiring shall be allowed to be supported by the ceiling support wires.</u>

Article 310.15(B)(6), Grounding or Bonding Conductor: change to read as follows:

(6) 120/240-Volt, 3-Wire, Single-Phase Dwelling Services and Feeders. For dwelling units, conductors, as listed in Table 310.15(B) (6), shall be...{text unchanged}...provided the requirements of 215.2, 220.22, and 230.42 are met. This Article shall not be used in conjunction with 220.82.

Article 330.2, Metal-Clad Cable, Type MC: add a second sentence to read as follows:

All metal clad cable installations shall install insulated bushings such as red devils.

Article 334.10, Uses Permitted: change to read as follows:

334.10. Uses Permitted. Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following:

(1) One- and two-family dwellings.

(2) In any multifamily dwelling not exceeding three floors above grade.

(3) Other structures not exceeding 3 stories in height.

Note: In par. 2 & 3 above: For the purpose of this article, the first floor of a building shall be that floor that has 50 percent or more of the exterior wall surface area level with or above finished grade. One additional level that is the first level and not designed for human habitation and used only for vehicle parking, storage, or similar use shall be permitted.

Article 334.12, Uses Not Permitted: add section (11) to read as follows:

(11) In non-residential metal frame structures.

Article 500.8(A)(3), Suitability: change to read as follows:

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

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

(1) Equipment listing or labeled.

(2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation.

(3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evidence or an engineering judgment signed and sealed by a qualified Licensed Professional Engineer.

Article 505.7(A),Implementation of Zone Classification System: 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.

(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 Licensed Professional Engineer.

Article 680.25(A)(1), Feeders: changed to read as follows:

680.25 Feeders. These provisions shall apply to any feeder on the supply side of panelboards supplying branch circuits for pool equipment covered in Part II of this article on the load side of the service equipment or the source of a separately derived system.

(A) Wiring Methods.

(1) Feeders. Feeders shall be installed in rigid metal conduit or intermediate conduit. The following wiring methods shall be permitted if not subject to physical damage.

(a) Liquidtight flexible nonmetallic conduit

(b) Rigid polyvinyl chloride conduit

(c) Reinforced thermosetting resin conduit

(d) Electrical non metallic tubing where installed on or within a building

(e) Electrical nonmetallic tubing where installed within a building

(f) Type MC cable where installed within a building and if not subject to corrosive environment

(g) Nonmetallic-sheathed cable

(h) Type SE cable.

Article 700.17.1, Wiring of Emergency Light Fixtures: add to read as follows:

700.17.1 Wiring of Emergency Light Fixtures.

(A) Battery pack fixtures must be wired to the normal lighting circuit where they are installed. The battery pack shall be tied onto the hot leg of the room switch. Where room switches are not provided and lights are turned off at the breaker switch, it shall be necessary to provide a light switch at the breaker control panel, wiring the fixtures as previously described. Permanent identification of a RED circular mark at the breaker located in the electrical panel box.

(B) Where battery pack florescent fixtures are installed on a security light circuit which remains on at all times, it is not necessary to wire through a control switch provided the breaker is locked in the on position. All other installations shall be wired in the same manner as battery pack incandescent fixtures.

(C) Where large open areas are lighted with two or more circuits, it shall be necessary to wire each emergency light fixture to the nearest lighting circuit.

Sec 14-144. Right of entry.

The Building Official or his designee shall have the power to enter any building, structure, alley, lot, manhole or subway during reasonable hours, and while in the actual performance of his regular duties he shall have the power to cause the arrest of any person violating any provisions of this article.

Sec. 14-145. Hindering Inspectors prohibited.

No person shall hinder or prevent the Building Official or his designee from making any electrical inspection.

Sec. 14-146. Power to disconnect service.

The Building Official or his designee is hereby empowered to disconnect or order the public utility company serving electrical energy to sever the electrical service to such wiring, device and/or materials found to be defectively installed until the installation of such wiring, device and material has been made safe as directed by the electrical inspector. Any person ordered and notified in writing to discontinue any electrical service shall do so within 24 hours; where the city electrical inspector has determined such conditions to be an immediate threat to life safety, service shall be terminated immediately, and such person shall not reconnect electrical service or allow it to be reconnected until notified by the city electrical inspector.

Sec. 14-147. Approval of inspector required before reconnecting service; exception.

When service is disconnected to any building used for commercial or mercantile purposes, theaters, gasoline stations and garages, approval must be obtained from the city electrical inspector before reconnecting to the electrical energy. Provided, however, where service is terminated for nonpayment of bill, it shall not be necessary to obtain city approval for reconnecting.

Sec. 14- 148 through 14-160. Reserved

SECTION II.

Penalty for Violation. Any person, firm, or corporation violating any of the terms and provisions of this ordinance shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be fined in accordance with Section 1-12 “General Penalty”, Euless Code of Ordinances. Each such violation shall be deemed a separate offense and shall be punishable as such hereunder for violation of an ordinance governing fire safety, zoning or public health and sanitation.

SECTION III.

Cumulative Clause. This ordinance shall be cumulative of all provisions of ordinances of the City of Euless, Texas, except where the provisions of this ordinance are in direct conflict with the provisions of such ordinances, in which event the conflicting provisions of such ordinances are hereby repealed.

SECTION IV.

Severability Clause. That it is hereby declared to be the intention of the City Council that the sections, paragraphs, sentences, clauses and phrases of this ordinance

are severable, and if any phrase, clause, sentence, paragraph or section of this ordinance shall be declared invalid or unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such invalidity or unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs and sections of this ordinance, since the same would have been enacted by the City Council without the incorporation in this ordinance of any such invalid or unconstitutional phrase, clause, sentence, paragraph or section.

SECTION V.

Saving Clause. That the Code of Ordinances, City of Euless, Texas, as amended, shall remain in full force and effect, save and except as amended by this ordinance.

SECTION VI.

Publication Clause. The City Secretary of the City of Euless is hereby directed to publish in the official newspaper of the City of Euless, as required by Section 12 of Article II of the Charter of the City of Euless.

SECTION VII.

Effective Date. This ordinance shall be in full force and effect from and after its passage and publication as provided by the Euless City Charter and the laws of the State of Texas.

PRESENTED AND GIVEN FIRST READING AND FINAL READING at a regular meeting of the Euless City Council on the 24th day of January, 2012, by a vote of ____ ayes, ____ nays and ____ abstentions.

APPROVED:

_____
Mary Lib Saleh, Mayor

APPROVED AS TO FORM:

_____
Wayne K. Olson, City Attorney

ATTEST:

_____
Kim Sutter, TRMC, City Secretary