

**ORDINANCE NO. 3186**

“AN ORDINANCE AMENDING THE STILLWATER CITY CODE REGARDING THE 2009 INTERNATIONAL BUILDING CODE, AMENDING CHAPTER 10, BUILDINGS AND BUILDING REGULATIONS, ARTICLE III. BASIC BUILDING CODE, SECTION 10-54; ARTICLE IV. ONE- AND TWO-FAMILY DWELLING CODE, SECTION 10-90; ARTICLE V. PROPERTY MAINTENANCE CODE, SECTIONS 10-111, 10-112 AND 10-113; ARTICLE VII. EXISTING BUILDINGS, SECTIONS 10-234, 10-235 AND BY CREATING SECTION 10-237; ARTICLE VIII. PLUMBING STANDARDS, SECTIONS 10-289, 10-290 AND 10-291; ARTICLE IX. GAS STANDARDS, SECTIONS 10-374, 10-375 AND 10-376; ARTICLE X. MECHANICAL STANDARDS, SECTIONS 10-396, 10-397 AND 10-398, AND BY AMENDING THE STILLWATER CITY CODE REGARDING THE 2011 NATIONAL ELECTRICAL CODE BY AMENDING ARTICLE XI. ELECTRICITY, SECTIONS 10-485 AND 10-486; AND BY AMENDING THE STILLWATER CITY CODE REGARDING THE 2009 INTERNATIONAL FIRE CODE BY AMENDING CHAPTER 20, FIRE PREVENTION AND PROTECTION, ARTICLE III. FIRE PREVENTION AND PROTECTION, SECTIONS 20-49 AND 20-50.”

*(AMENDMENTS HIGHLIGHTED BY STRIKETHROUGH AND UNDERLINING)*

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF STILLWATER, OKLAHOMA THAT:

**SECTION 1:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article III. Basic Building Code, Section 10-54, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

**ARTICLE III. BASIC BUILDING CODE**

**Sec. 10-54. Deletions, modifications, amendments and insertions.**

The International Building Code, 2009 edition, is hereby amended in the following aspects.

*101.1, Title.* Insert the words "the City of Stillwater, Oklahoma" for and in exchange of the words "[Name of Jurisdiction]."

*103.1, Creation of enforcement agency,* is hereby deleted in its entirety and replaced with:

103.1 Creation of building safety division. The building safety division of the development services department is hereby created and the official in charge thereof shall be known as the building official.

*103.2, Appointment.* The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

*103.3, Deputies,* is hereby repealed and replaced to read:

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

*104.1, General,* is hereby repealed and replaced to read:

The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions.

*104.10, Modifications,* is hereby repealed and replaced to read to:

Literal compliance. Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept

alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

*104.11, Alternative materials, design and methods of construction and equipment*, is hereby repealed and replaced to read:

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

*105.2, Work exempt from permit, Building: 1*, is hereby amended to read:

1. One-story detached accessory structures, provided the floor area does not exceed 200 square feet (11.15 m<sup>2</sup>).

*105.2, Work exempt from permit, Building: 4*, is hereby amended to read:

4. Retaining walls with not over four feet (1,219 mm) of exposed wall height measured from finish grade to the top of the wall, unless supporting a surcharge or impounding Class I, II or III-A liquids.

*105.2, Work exempt from permit, Building*, is amended to add a new paragraph 14:

14. Ordinary maintenance including but not limited to reroofing, residing, acoustic ceiling replacement, wallboard and plaster replacement and window and door replacement.

*105.2, Work exempt from permit, Electrical, Gas, Mechanical, Plumbing*, are hereby repealed and deleted.

*106.1, Live loads posted*, is hereby amended to read:

Where the live loads for which each floor or portion thereof that is used for storage in a commercial or industrial building is or has been designed to exceed 50 psf (2.40 kN/m<sup>2</sup>), such design live loads shall be conspicuously posted by the owner in that part of each story in which they apply, using durable signs. It shall be unlawful to remove or deface such notices.

*109.2 Schedule of permit fees*, is hereby repealed and amended to read:

Permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

*109.6, Refunds* is hereby deleted in its entirety.

*Section 113, Board of Appeals*, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

310.1 Residential Group R, is hereby amended to read:

Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the International Residential Code in accordance with Section 101.2. Residential occupancies shall include the following:

R-1 Residential occupancies containing sleeping units where the occupants are primarily transient in nature including:

- Boarding houses (transient),
- Hotels (transient),
- Motels (transient).

- Congregate living facilities (transient)

Congregate living facilities with 10 or fewer occupants are permitted to comply with the construction requirements for Group R-3, except as otherwise provided for in this code, or shall comply with the International Residential Code®, provided the building is protected by an automatic sprinkler system installed in accordance with Section 903.2.8.

R-2 Residential occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature including:

- Apartment houses.
- Boarding houses (non-transient).
- Convents.
- Dormitories.
- Fraternities and sororities.
- Hotels (non-transient).
- Live/work units.
- Monasteries.
- Motels (non-transient).
- Vacation time share properties
- Congregate living facilities

Congregate living facilities with 16 or fewer occupants are permitted to comply with the construction requirements for Group R-3, except as provided for in this code, or shall comply with the International Residential Code®, provided the building is protected by an automatic sprinkler system installed in accordance with Section 903.2.8.

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

- Buildings that do not contain more than two *dwelling units*.
- Adult care facilities that provide accommodations for five or fewer persons of any age for less than 24 hours.
- Child care facilities that provide accommodations for five or fewer persons of any age for less than 24 hours.
- Congregate living facilities with 16 or fewer persons.

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

R-4 Residential occupancies shall include buildings arranged for occupancy as residential care/assisted living facilities including more than five but not more than 16 occupants, excluding staff.

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code or shall comply with the International Residential Code provided the building is protected by an automatic sprinkler system installed in accordance with Section 903.2.8.

423.1, General, is hereby amended to read:

General. In addition to other applicable requirements in this code, storm shelters shall be constructed in accordance with ICC-500, FEMA 320, FEMA 361 or other equivalent approved engineered system.

423.21 Storm Shelter, is hereby amended to read:

STORM SHELTER. A building, structure, or portion(s) thereof, constructed in accordance with the standards listed in Section 423.1 and designated for use during a severe wind storm event, such as a hurricane or tornado.

903.2.1.2, Group A-2, is hereby amended to read:

An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet (464.5 m<sup>2</sup>);
2. The fire area has an occupant load of 200 or more; or
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

903.2.7, Group M, is hereby amended to read:

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

1. A Group M fire area exceeds 12,000 square feet (1,115 m<sup>2</sup>).

2. A Group M fire area is located more than three stories above grade plane.
3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2,230 m<sup>2</sup>).
4. A Group M occupancy where the cumulative area used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet (464 square meters).

903.6, Pump and riser room size, is hereby added to read:

Fire pump and automatic sprinkler system riser rooms shall be designed with adequate space for all equipment necessary for the installation, as defined by the manufacturer with sufficient working room around the stationary equipment. Clearances around equipment to elements of permanent construction, including other installed equipment and appliances shall be sufficient to allow inspection, service, repair, or replacement without removing such elements of permanent construction or disabling the function of a required fire resistance-rated assembly. Fire Pump and automatic sprinkler riser room shall be provided with a door(s) and unobstructed passageway large enough to allow removal of the largest piece of equipment.

911.1.3, Size, is hereby amended by adding an exception to read:

The room shall be a minimum of 200 square feet (19 square meters) with a minimum dimension of 10 feet (3048 mm). Exception: When approved by the fire code official the fire command center can be reduced in size to not less than a minimum of 96 square feet (9 square meters) with a minimum dimension of 8 feet (2438 mm).

1005.1, Minimum required egress width, is hereby amended by adding two additional exceptions to read:

The means of egress width shall not be less than required by this section. The total width of means of egress in inches (mm) shall not be less than the total occupant load served by the means of egress multiplied by 0.3 inches (7.62 mm) per occupant for stairways and by 0.2 inches (5.08 mm) per occupant for other egress components. The width shall not be less than specified elsewhere in this code. Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the availability capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress. Exceptions:

1. Means of egress complying with Section 1028.
2. For other than H and I-2 occupancies, the capacity, in inches (mm), means of egress stairways shall be calculated multiplying the occupant load served by a stairway by a means of egress capacity factor of 0.2 inches (5.08 mm) per occupant in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.1.1 or 903.1.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2.2
3. For other than H and I-2 occupancies, the capacity, in inches (mm), means of egress components other than stairways shall be calculated multiplying the occupant load served by such component by a means of egress capacity factor of 0.15 inches (3.81 mm) per occupant in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.1.1 or 903.1.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2.

1210.2, Walls, is hereby amended by adding the following paragraph:

Smooth, hard nonabsorbent surface is considered as, but not limited to, epoxy paint (listed for use in bathrooms/restrooms and meets interior finish flammability criteria), smooth/sealed concrete, metal, aluminum, stainless steel, slate, granite, marble, ceramic tile, glass block, tile board, FRP (fiber reinforced plastic) wall board or other materials approved by the building official.

1611.1, Design rain loads, is hereby amended to read:

Each portion of a roof shall be designed to sustain the load of rainwater that will accumulate on it if the primary drainage system for that portion is blocked plus the uniform load caused by water that rises above the inlet of the secondary drainage system at its design flow. The design rainfall shall be based on two conditions: 1) the 100-year hourly rainfall rate indicated in Figure 1611.1; and 2) the 100-year, 5-minute duration rainfall rate of 10.2 inches per hour. Alternately, the 100-year, one-

hour and 100-year, 5-minute duration rainfall rates may be determined from approved local weather data.

1612.3, *Establishment of flood hazard areas*, is hereby amended by inserting the words "the City of Stillwater, Oklahoma" for and in exchange of the words "name of jurisdiction" and the date "May 16, 2007, and subsequent revisions" for and in exchange of the words "insert date of issuance."

1802.1, *General*, is hereby amended to read:

Foundation and soils investigations, where required by the building official, shall be conducted by a registered design professional licensed by the State of Oklahoma.

1802.2, *Where required*, is hereby amended to read:

The owner or applicant shall submit a foundation and soils investigation for review by the building official:

1. When pile and pier foundation design is proposed.
2. When the water table, as determined by the Soil Survey of Payne County, Oklahoma, or successor registration, is above or within five feet of the bottom of the footing.
3. When foundations are constructed on fill exceeding 18 inches in depth, unless constructed on engineered fill in accordance with IBC 1803.5.
4. For any buildings more than 10,000 square feet or more than two stories in height.
5. For any buildings with basement or crawl space foundations.

1809.4, *Depth and width of footings*, is hereby amended to read:

The minimum depth of footings below the undisturbed ground surface shall be 12 inches (305 mm). Where applicable, the requirements of Section 1809.5 shall also be satisfied. The minimum width of footings shall be 12 inches (305 mm).

Exception: Single story free-standing building meeting all of the following conditions shall be permitted without footings:

1. Assigned to Occupancy Category 1, in accordance with Section 1604.5;
2. Light-frame wood or metal construction;
3. Area of 400 square feet (37 square meters) or less;
4. Eave height of 10 feet (3048 mm) or less; and
5. Building height of 15 feet (4575 mm) or less.

Such buildings shall have an approved wooden floor, or shall be placed on a concrete slab having a minimum thickness of 3 1/2 inches (89 mm). Buildings shall be anchored to resist uplift as required by Section 1609.

1910.1, *General*, is hereby amended to read:

The thickness of concrete floor slabs supported directly on the ground shall not be less than 3½ inches (89 mm).

2902.1, *Minimum number of fixtures*, is hereby amended to read:

Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 2902.1. Exceptions:

1. Water fountains are not required in any occupancy, but when provided must comply with Chapter 11
2. Toilets, lavatories and service sinks shall not be required in S occupancy buildings used solely for storage when there are no accessory uses or mixed-uses in the building and the building is not heated.
3. Service sinks shall not be required in B and M occupancies with an occupant load of 15 or less.

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.

3201.3, *Other Laws*, is hereby amended to read:

The provisions of this chapter shall not be construed to permit the violation of other laws or ordinances regulating the use and occupancy of public property or to prevent the holders of public right-of-way to grant special permission for encroachments in their rights-of-way greater than those permitted in Section 3202.

~~3401.5, *Alternative compliance*, is hereby amended to read:~~

~~Work performed in accordance with the City of Stillwater Existing Buildings Rehabilitation and Change of Use Code 2007 shall be deemed to comply with the provisions of this chapter.~~

3402.1, Definitions, the definition of Existing Structure is hereby modified to read: EXISTING BUILDING OR EXISTING STRUCTURE: A building or structure on which construction was begun at least ten (10) years prior to the date of adoption of this code.

3412.2, *Applicability*, is hereby amended by inserting "1966" for and in exchange of the words "date to be inserted by the jurisdiction."

**SECTION 2:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article IV. One- and Two-Family Dwelling Code, Section 10-90, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

#### **ARTICLE IV. ONE- AND TWO-FAMILY DWELLING CODE**

##### **Sec. 10-90. Deletions, modifications, amendments and insertions.**

The International Residential Code for One- and Two-Family Dwellings, 2009 edition, is hereby amended in the following aspects:

*R101.1, Title.* Insert: City of Stillwater, Oklahoma.

*R102.7.1, Additions alterations or repairs,* is hereby amended to read: Additions, alterations or repairs to any structure shall conform to that required for a new structure without requiring the existing structure to comply with all of the requirements of this code, unless the addition, alteration or repair causes the existing electrical, plumbing, mechanical or fuel gas system or the structure to become unsafe or adversely affects the performance of the building.

*R103.1, Creation of enforcement agency,* is hereby deleted in its entirety and replaced with: R103.1 Creation of building safety division. The building safety division of the development services department is hereby created and the official in charge thereof shall be known as the building official.

*R103.2, Appointment.* The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

*R103.3, Deputies,* is hereby repealed and replaced to read: The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

*R104.1, General,* is hereby repealed and replaced to read: The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions.

*R104.10, Modifications,* is hereby repealed and replaced to read: Literal compliance. Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

*R104.11, Alternative materials, design and methods of construction and equipment,* is hereby repealed and replaced to read: The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code.

An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

*R105.2, Work exempt from permit, Building: subsection 3*, is hereby amended to read:

Retaining walls with not over four feet (1,219 mm) of exposed wall height measured from finish grade to the top of the wall, unless supporting a surcharge.

*R105.2, Work exempt from permit, Building: subsection 10*, is hereby amended to read:

Decks not exceeding 200 square feet (18.58 m<sup>2</sup>) in area, that are not more than 30 inches (762 mm) above grade at any point.

*R105.2, Work exempt from permit, Building: 11*, is hereby added:

Ordinary maintenance including but not limited to reroofing, re-siding, acoustic ceiling replacement, wallboard and plaster replacement and window and door replacement.

*R105.2, Work exempt from permit electrical, 6 and 7*, are hereby added to read:

6. The replacement of switches, luminaires, lampholders and fans, but not the outlets therefor.

7. The extension of an existing individual branch circuit or the installation of additional openings in an existing branch circuit provided that the work is not associated with a building permit..

*R105.2, Work exempt from permit*, is hereby amended by adding a new section, Plumbing, to read:

Plumbing: 1. The replacement of plumbing fixtures and faucets provided such replacement does not involve the rearrangement of piping.

*R105.2.2, Repairs*, is hereby amended to read:

Application or notice to the building official is not required for ordinary repairs to structures, replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles. Such repairs shall not include the cutting away of any wall, partition or portion thereof, requiring the removal or relocation of electrical, plumbing, mechanical or fuel gas systems, or the removal or cutting of any structural wall, beam or load bearing support, or the removal or change of any required means of egress or emergency escape and rescue opening, or rearrangement of parts of a structure affecting egress requirements or the emergency escape and rescue opening or exit path; nor shall ordinary repairs include addition to, alteration of, replacement or relocation of any, water supply, sewer, drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety.

*R105.3, Application for permit*, is hereby amended to read:

To obtain a permit, the applicant shall first file an application in writing on a form furnished by the department of building safety for that purpose. Such application shall:

1. Identify and describe the work to be covered by the permit for which application is made.
2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
3. Indicate the use and occupancy for which the proposed work is intended.
4. Be accompanied by construction documents and other information as required in section R106.1.
5. Be signed by the applicant, or the applicant's authorized agent.

*R108.2, Schedule of permit fees*, is hereby amended to read:

Permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

*R108.6, Refunds* is hereby deleted in its entirety.

Section R112, *Board of Appeals*, is hereby deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

Table R301.2(1), *Climatic and Geographic Design Criteria*, insert:

Ground snow load = Ten psf  
Wind speed = 90 mph (three sec. gust), Exposure B  
Seismic design category = B  
Weathering = Moderate  
Frost line depth = 18 inches  
Termite = Moderate to heavy  
Decay = Slight to moderate  
Winter design temp = 13  
Ice shield underlayment required = No  
Flood hazards = FIRM #405380, revised May 16, 2007, as amended  
Air freezing index = 500  
Mean annual temperature = 60

R302.1, *Exterior walls*, is hereby amended to read:

Exterior walls with a fire separation distance less than three feet (914 mm) shall have not less than a one-hour fire-resistive rating with exposure from both sides. Exception: Walls of dwellings and accessory structures located on the same lot. Projections shall not extend to a point closer than two feet (610 mm) from the line used to determine the fire separation distance.

Exception: Detached garages accessory to a dwelling located within two feet of a lot line shall be permitted to have roof eave projections not exceeding four inches. Projections extending into the fire separation distance shall have not less than one-hour fire-resistive construction on the underside. The above provisions shall not apply to walls which are perpendicular to the line used to determine the fire separation distance.

Exception: Tool and storage sheds, playhouses and similar structures exempted from permits by R105.2 are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.

R302.1.1, *Openings* is hereby amended to read:

Openings shall not be permitted in the exterior wall of a dwelling or accessory building with a fire separation distance less than three feet (914 mm). This distance shall be measured perpendicular to the line used to determine the fire separation distance.

Exceptions:

1. Openings shall be permitted in walls that are perpendicular to the line used to determine the fire separation distance.
2. Foundation vents installed in compliance with this code are permitted.

R302.1.2, *Penetrations* is hereby amended to read:

Penetrations located in the exterior wall of a dwelling with a fire separation distance less than three feet (914 mm) shall be protected in accordance with section R317.3.

Exception: Penetrations shall be permitted in walls that are perpendicular to the line used to determine the fire separation distance.

R303.3, *Bathrooms, Exception*, is hereby amended to read:

Exception: The glazed areas shall not be required where artificial light and a mechanical ventilation system are provided. The minimum ventilation rates shall be 50 cfm for intermittent ventilation or 20 cfm for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside or to a properly ventilated attic space complying with IRC section R806. When terminated in a ventilated attic space the exhaust shall terminate not less than 12 inches above insulation so as not to be covered or blocked by insulation and secured to the structure to prevent movement.

~~R310.1.1, *Minimum opening area*, is hereby amended by to read:~~

~~All emergency escape and rescue openings shall have a minimum net clear opening of five square feet (0.465 m<sup>2</sup>).~~

*R311.7.2, Headroom*, is hereby amended by adding an exception to read:

The minimum headroom in all parts of the stairway shall not be less than six feet eight inches (2,036 mm) measured vertically from the sloped plane adjoining the tread nosing or from the floor surface of the landing or platform.

Exception: Doorways serving only attic storage areas and not part of the required building egress or emergency escape and rescue opening.

*R311.7.4, Stair treads and risers*, is hereby amended by adding an exception to read:

Stair treads and risers shall meet the requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners.

Stair treads and risers shall meet the requirements of this section.

Exception: An interior flight of stairs serving only attic storage areas and not part of the required building egress or emergency escape and rescue opening shall be permitted to have risers not exceeding eight inches (203 mm) in height and treads not less than nine inches (229 mm) in depth. Risers in excess of eight inches (203 mm) will be considered as a ladder.

*R311.5.4, Landings for stairways*, is hereby amended by adding an exception to read:

There shall be a floor or landing at the top and bottom of each stairway.

Exception:

1. A floor or landing is not required at the top of an interior flight of stairs, provided a door does not swing over the stairs.
2. A landing is not required at the bottom of an interior flight of stairs serving only attic storage areas provided the stairway is not part of a required building egress or emergency escape and rescue opening.

*R313.2, One- and two-family dwellings automatic fire systems*, is hereby deleted in its entirety.

*R314.3.1, Alterations, repairs and additions*, is hereby amended to read:

In existing individual dwellings, the individual dwelling unit shall be equipped with smoke alarms located as required for new dwellings when any of the following permits are required:

1. When a building permit is required for alterations, repairs or additions in which the value of the work covered by the permit exceeds \$1,000.00, or
2. When a building permit is required to add or create one or more sleeping rooms, or
3. When an electrical permit is required for work performed as part of an interior renovation that does not require a building permit but where more than 50 percent of the dwelling unit ceiling coverings will be removed as part of the renovation.

*R314.4, Power source*, is hereby amended by adding a definition to Exception 2 to read:

*Accessible attic space* is herein defined as any portion of the attic where a smoke detector would be required to be installed that is accessible from the attic access by a continuous path that is a minimum of 24 inches high by 24 inches wide. Such path shall not be required to be in a straight line and shall be allowed to be over or under obstructions such as duct work provided that the minimum height and width of the path are not diminished.

*R315.1* is hereby amended by adding exception 1 to read:

Carbon monoxide detection is not required in residences with attached garages when the door between the residence and the garage is weather-sealed and there are no fuel burning appliances in the garage or the residence.

*R315.2, Where required in existing dwellings*, is hereby amended to read:

In existing individual dwellings that have attached garages without weather-sealed connecting doors to the residence or in existing individual dwellings within which fuel-fired appliances exist, carbon monoxide alarms shall be provided in the individual dwelling in accordance with section R315.1 when any of the following permits are required:

1. When a building permit is required for alterations, repairs or additions in which the value of the work covered by the permit exceeds \$1,000.00, or

2. When a building permit is required to add or create one or more sleeping rooms, or
3. When a plumbing or mechanical permit is required to replace any fuel-fired appliance

*R323.1, General*, is hereby amended to read:

This section applies to the construction of storm shelters when constructed as separate detached buildings or when constructed as safe rooms within buildings for the purpose of providing safe refuge from storms that produce high winds, such as tornados and hurricanes.

*R401.3, Drainage*, is deleted in its entirety and replaced with the following:

*R401.3, Finished floor elevation.* The finished floor elevation for a structure constructed on a residential lot shall be established at least one foot above the lowest point where surface water drains from the lot.

*R401.3.1, Finished floor elevation-construction located within floodplain boundary.* No construction shall commence on a structure located within the boundaries of a floodplain until an earth change permit has been issued by the city. The finished floor elevation shall be established no less than one foot above the base flood elevation (BFE) as indicated on the FEMA elevation certificate. A FEMA elevation certificate indicating initial floor elevations as set forth in said requirements shall be completed and submitted with the building permit application.

*R401.3.2, Conveyance of surface water drainage.* Surface water drainage shall be diverted to a designated public stormwater conveyance or other approved point of collection.

*R401.3.3, Grading adjacent to foundations.* Lots shall be graded to drain surface water away from foundation walls. In addition:

- a. Roofs, paved areas, yards, courts and courtyards shall be constructed to drain surface water away from the structure.
- b. Masonry veneer construction. The finished grade shall be established no less than four inches below the finished floor elevation and shall fall no less than six inches within the first ten feet away from the structure as measured from the building face.
- c. All other construction. The finished grade shall be established no less than six inches below the finished floor elevation and shall fall no less than six inches within the first ten feet away from the structure as measured from the building face.
- d. Exception: Whenever a lot line, wall, slope or other physical barrier prohibits six inches of fall within the first ten feet as measured from the building face, drains or swales shall be provided to ensure sufficient surface water drainage away from the structure.
- e. A driveway shall slope continuously away from the garage entry to a minimum elevation of six inches below the finished floor elevation of the structure, or the surface water shall be discharged in accordance with subsection R401.3.3(d). Driveway slope shall not exceed 15 percent within the right-of-way.

*R401.3.4, Fencing.* Fencing over a property line where surface water travels shall be elevated a minimum of two inches above the finished landscaped ground level. Fencing shall not obstruct or alter the path of any drainage easement and shall allow for unobstructed movement of surface water into such easement or drainage channel/area.

*R401.3.5, Residential lot grading and drainage plan.* A residential lot grading and drainage plan (RLP) shall be submitted by the residential building contractor and approved by the city before a building permit for any residential structure will be issued. The RLP drawing shall be prepared at a scale of one inch equals 20 feet. The plan shall include the following:

- a. Title block in lower righthand corner with lot or parcel address;
- b. Subdivision name, lot and block number, if located within a platted subdivision;
- c. Name, address and telephone number of the property owner and building contractor;
- d. Drawing scale and north arrow;
- e. Location of statutory and any platted building setbacks;

- f. Location of property boundaries including all lot dimensions;
- g. Footprint(s) of all structures indicated by solid line, including distances to the property lines;
- h. ~~Relative finish floor elevation of the main level of the primary structure;~~
- ih. Location of all easements labeled by type and width;
- ji. Location of the existing and/or proposed public sidewalk, curb and gutter;
- kj. Location and width of driveway, private sidewalks, decks, porches, patios;
- l. ~~Relative and proposed elevations of:~~
  - ~~(1) Each corner of the lot and proposed discharge points;~~
  - ~~(2) Key locations along drainage swales;~~
- mk. Proposed drainage flow patterns indicated by flow arrows showing path that surface water will take to the site boundaries or points of discharge;
- n. ~~Key locations at and around existing obstructions, such as retaining walls, large structures, and large earth masses;~~
- el. Whenever properties are located within the floodplain, the applicant shall complete a FEMA elevation certificate.

*R401.3.6, Residential lot grading and drainage plan—Existing structures.* Whenever an addition to an existing residential structure exceeds 300 square feet in area, a residential lot plan-existing structure (RLP-E) shall be submitted by the building contractor and approved by the city before a building permit for such addition will be issued. The requirements set forth in R401.3.1 through R401.3.4 shall apply to any addition to an existing structure unless specifically excepted. The following additional requirements shall apply:

- a. The lot shall be graded locally away from and around the completed addition.
- b. Drainage shall be properly transferred into the existing lot surface water drainage system.
- c. Any area directly impacted by the addition shall be modified to restore existing surface water drainage.

The RLP-E drawing shall be prepared at a scale of one inch equals 20 feet. The plan shall include the following:

- a. Title block in lower right hand corner with lot or parcel address;
- b. Subdivision name, lot and block number, if located within a platted subdivision;
- c. Name, address and telephone number of the property owner and building contractor;
- d. Drawing scale and north arrow;
- e. Footprint(s) of all structures indicated by solid line, including distances to property lines;
- f. Location of property lines;
- g. Relative finish floor elevation of the addition if it is different than that of the main level of the existing primary structure. When floor elevations are lower than that of the existing structure, then section 401.3.7 shall apply with regard to additional documentation;
- h. Location of all easements, labeled by type and width,;
- i. Location of the public sidewalk, curb and gutter if altered by the addition;
- j. Location and width of driveway, private sidewalks, decks, porches, patios, if impacted by the addition or when it affects restoration of the local drainage;
- k. Direction of surface water flow by use of arrows showing any new path(s) that such will take around the addition, continuing to the point of discharge. The terms "Exist" or (E) for existing drainage path(s) or "New" (N) for a new path(s) next to flow arrows shall be used to denominate such on the plan;
- l. Whenever an addition or upgrade to an existing structure is located in the floodplain, the design of such addition or upgrade shall also be submitted to the stormwater program manager, who shall review such plans and identify any additional FEMA requirement(s).

*R401.3.7, Residential location and elevation plan.* A residential location and elevation plan (RLEP) prepared by an Oklahoma-licensed land surveyor, shall be submitted to and accepted by the city upon completion of the foundation forms or completion of the foundation and slab, before proceeding with further vertical construction on a residence or a residential accessory structure greater than 300 square feet. RLEPs are not required for lots that are 20,000 square feet or greater in size and that will have building setbacks that exceed all required setbacks by more than 10 feet. The RLEP drawing shall be prepared at a scale of one inch equals 20 feet. The plan shall include the following:

- a. Title block in lower righthand corner with lot or parcel address;
- b. Subdivision name, lot and block number, if located within a platted subdivision;
- c. Name, address and telephone number of the property owner and building contractor;
- d. Drawing scale and north arrow;
- e. Footprint(s) of all structures indicated by solid lines, including distances to property lines;
- f. ~~The reference mark/point;~~
- gf. Property lines and dimensions to corners of structure;
- hg. ~~Location and measurement of the relative finished floor elevation at each corner of the structure;~~
- ih. ~~The existing relative elevation of the designated discharge points of the lot per the RLP or the RLP-E;~~
- ji. Location of all easements, labeled by type and width;
- kj. ~~Surveyor's or engineer's signature and seal with date.~~

The acceptance of the RLEP by the city shall not relieve the residential building contractor and/or the property owner building his/her own residence of any responsibility for compliance with all applicable regulations and such acceptance shall not waive any requirements of this chapter or of the adopted IRC and local amendments thereto.

~~*R401.3.8, Compliance affidavit.* Upon completion of final grading, the residential building contractor shall complete an affidavit on a form provided by the city that confirms the final lot grading was completed in compliance with the approved surface water drainage plan. No certificate of occupancy shall be issued by the city until said affidavit is completed and submitted in accordance with this section.~~

*R403.1 General* is hereby amended by the addition of a new exception to read: All exterior walls shall be supported on continuous solid or fully grouted masonry or concrete footings, crushed stone footings, wood foundations, or other approved structural systems which shall be of sufficient design to accommodate all loads according to Section R301 and to transmit the resulting loads to the soil within the limitations as determined from the character of the soil. Footings shall be supported on undisturbed natural soils or engineered fill. Concrete footing shall be designed and constructed in accordance with the provisions of Section R403 or in accordance with ACI 332.

Exception: Single story free-standing building meeting all of the following conditions shall be permitted without footings:

(A) Assigned to Occupancy Category 1, in accordance with Section 1604.5;

(B) Light-frame wood or metal construction;

(C) Area of 400 square feet (37 square meters) or less;

(D) Eave height of 10 feet (3048 mm) or less; and

(E) Building height of 15 feet (4575 mm) or less.

Such buildings shall have an approved wooden floor, or shall be placed on a concrete slab having a minimum thickness of 3 1/2 inches (89 mm). Buildings on concrete slabs shall be anchored to the slab by means of approved fasteners.

Buildings not anchored to slabs shall be anchored to the ground by an approved anchoring system.

*R403.1.3.2, Slabs-on-ground with turn-down footings*, is hereby amended to read: Exterior concrete footings shall be reinforced with a minimum of four number 4 reinforcing bars, placed in a box arrangement with a three-inch clearance from the bottom of the footing and a two-inch clearance from the side walls and joint overlap of not less than 40 bar diameters. Interior footings of one-story structures may be provided with an unreinforced monolithic slab 12 inches in width by ten inches in depth, bearing on undisturbed natural soils or engineered fill.

Where the slab is not cast monolithically with the footing, No. 3 or larger vertical dowels shall be provided in accordance with figure R403.1.3.2 except that hooks shall not be required.

*R403.1.3.2, Slabs-on-ground with turned-down footings, Exception*, is hereby deleted in its entirety.

*R403.1.6, Foundation anchorage*, is hereby amended by adding exception 4 to read: 4. Wood sole plates of braced wall panels at building interiors on monolithic slabs may be anchored using anchors with a shear capacity of 2,300 lbs. and a tensile

capacity of 800 lbs spaced not more than six feet apart. There shall be a minimum of two bolts per plate. Alternatively, the total required shear and tensile capacity may be achieved through the use of multiple anchors of lesser capacity provided that each foot of plate contains enough anchors to provide 384 lbs. of total shear capacity and 134 lbs. of total tensile capacity. There shall be a minimum of two anchors per plate.

*R403.1.8, Foundations on expansive soils*, is hereby deleted and amended to read: Foundation and floor slabs for buildings located on expansive soils shall be designed in accordance with WRI/CRSI design of slab-on-ground foundations or PTI design and construction of post-tensioned slabs-on-ground or other foundation designs approved by the building official.

*R404.2* is hereby amended by adding exception 1 to read:  
Exception 1. Interior concrete slabs on grade and enclosed garage slabs are not required to be air entrained.

*R406.2, Concrete and masonry foundation waterproofing*, is hereby amended by adding number 8 to read:  
8. Bentonite

*R502.2.2.3, Deck lateral load connection*, is hereby amended to read:  
The lateral load connection required by section R502.2.2 shall be permitted to be in accordance with figure R502.2.2.3. Hold-down tension devices shall be installed in not less than two locations per deck, and each device shall have an allowable stress design capacity of not less than 1,500 pounds (6,672 N). When interior joists are not accessible for the attachment of hold-downs due to building finishes, other connections may be used upon approval of the building official.

*R506.2.3, Vapor retarder*, is hereby deleted in its entirety.

*R703.7.5, Flashing*, is hereby amended to read:  
Flashing shall be located beneath points of support, including structural floors, shelf angles and lintels when masonry veneers are designed in accordance with section R703.7. See section R703.8 for additional requirements.  
Exception: Flashing shall not be required beneath the first course of masonry above finished ground level above the foundation wall or slab.

*R703.7.6, Weepholes*, is hereby deleted in its entirety.

*R801.3, Roof drainage*, is hereby deleted in its entirety.

*R802.5.1, Purlins*. Installation of purlins to reduce the span of rafters is permitted as shown in figure R802.5.1. Purlins shall be sized no less than the required size of the rafters that they support. Purlins shall be continuous and shall be supported by braces installed to bearing walls at a slope not less than 45 degrees from the horizontal. The braces shall be spaced not more than four feet (1,219 mm) on center for two-inch by four-inch (51 mm by 102 mm) or six feet (1,829 mm) on center for two-inch by six-inch (51 mm by 152 mm) on center and the unbraced length of braces shall not exceed eight feet (2,438 mm).

*R1005.1, Exterior air*, is hereby amended to read:  
Factory-built fireplaces shall be equipped with an exterior air supply where required by the manufacturer's instructions. Masonry fireplaces, if equipped with exterior air supply, shall meet the requirements of this section for installation.

*N1101.1, Scope*, is hereby repealed and replaced to read:  
This chapter sets forth energy-efficiency related requirements for the design and construction of buildings regulated by this code within the City of Stillwater, Oklahoma.

*N1101.2, Compliance*, is hereby repealed and replaced to read:  
Compliance with this chapter shall be demonstrated by meeting the requirements of the applicable sections and tables of this chapter. Where applicable, provisions are based on climate zone 3A per table N1101.2 for the City of Stillwater, Oklahoma. Alternatively, compliance may be demonstrated by the submission of a report from an approved energy auditing agency certifying that the building is in compliance with the requirements of the 2009 International Energy Conservation Code for detached

one- and two-family dwellings. Such report shall be submitted to the building official upon completion of the dwelling and before the issuance of the final certificate of occupancy.

*N1101.4, Building thermal envelope insulation*, is hereby repealed and replaced to read:

The thermal resistance (R-value) shall be indicated on all insulation and the insulation shall be installed so that the R-value can be verified, or a certification of the installed R-value shall be provided at the job site by the insulation installer. Where blown-in or sprayed insulation is applied in walls, the installer shall provide a certification of the installed density and R-value. Where blown-in or sprayed insulation is applied in the roof-ceiling assembly, the installer shall provide a certification of the initial installed thickness, settled thickness, coverage area, and number of bags of insulating material installed or markers may be provided for every 300 square feet (28 m<sup>2</sup>) of attic area, attached to the trusses, rafters, or joists, and shall indicate in one-inch high (25.4 mm) numbers the installed thickness of the insulation.

*N1101.4.1, Blown or sprayed roof/ceiling insulation*, is hereby deleted in its entirety.

*N1101.4.2 Insulation mark installation*, is hereby deleted in its entirety.

*N1101.9, Certificate*, is hereby deleted in its entirety.

*N1102.1, Insulation and Fenestration Criteria*, is hereby repealed and replaced to read:

The minimum required insulation R-value for elements in the building thermal envelope shall be in accordance with the following:

Fenestration: U-factor 0.5

Ceilings: R-30

Walls: R-13

Floors: R-19

Crawl Space: R-10

Recommended optional insulation R-values are as follows:

Basement walls: R-8

Slab perimeter: R-5, 18-inch minimum below finish grade

*N1102.2.2, Ceilings without attic spaces*, is hereby amended to read:

Where section N1102.1 would require insulation levels above R-30 and the design of the roof/ceiling assembly does not allow sufficient space for the required insulation, the minimum required insulation for such roof/ceiling assemblies shall be R-30. Sloped roof/ceiling assemblies having a length of not more than three feet (912 mm) measured along the rafter pitch may be insulated with the same R-Value as the wall insulation below it. This reduction shall not apply to the U-factor alternative approach in section N1102.1.2 and the Total UA alternative in section N1102.1.3.

*N1102.2.3, Access hatches and doors*, is hereby amended to read:

Access doors from conditioned spaces to unconditioned spaces (e.g., attics and crawl spaces) shall be weatherstripped and insulated to a minimum of R-5. Access shall be provided to all equipment which prevents damaging or compressing the insulation. A wood framed or equivalent baffle or retainer is required to be provided when loose fill insulation is installed, the purpose of which is to prevent the loose fill insulation from spilling into the living space when the attic access is opened and to provide a permanent means of maintaining the installed R-value of the loose fill insulation.

*N1102.2.6, Floors*, is hereby amended to read:

Floor insulation shall be installed to maintain permanent contact with the underside of the subfloor decking. The required R-value for floors shall apply to all floors, except any individual floor assembly with over 25 percent of its conditioned floor area exposed directly to outside air shall meet the R-value requirement for "Ceilings."

*N1102.2.9, Crawl space walls*, is hereby amended to read:

Where the floor above the crawl space is uninsulated, insulation shall be installed on crawl space walls when the crawl space is not vented to outside air. The required R-value in section N1102.1 shall be applied inside of the crawl space wall, downward

from the sill plate to the exterior finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). The exposed earth in all crawl space foundations shall be covered with a continuous Class 1 vapor retarder. All joints of the vapor retarder shall overlap by six inches (152 mm). The edges of the vapor retarder shall extend at least six inches (152 mm) up the stem wall.

*N11022.10, Masonry veneer*, is hereby amended to read:

When exterior foundation insulation is installed, that horizontal portion of the foundation that supports a masonry veneer shall not be required to be insulated.

*N1102.4.2, Air sealing and insulation*, and all its subsections are hereby deleted.

*N1102.4.3, Fireplaces*, is hereby deleted in its entirety.

*N1103.1.1, Programmable thermostat*, is hereby deleted in its entirety.

*N1103.2.2, Sealing*, is hereby amended to read:

Ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with section M1601.4.

*N1103.8.3, Pool covers*, is hereby deleted in its entirety.

*N1104.1, Lighting equipment*, is hereby deleted in its entirety.

*M1411.6, Locking access port caps*, is hereby deleted in its entirety.

*M1503.2, Duct material*, is hereby amended to read:

Single-wall ducts serving range hoods shall be constructed of galvanized steel, stainless steel or copper.

Exception: Ducts for domestic kitchen cooking appliances equipped with down draft exhaust systems shall be permitted to be constructed of PVC pipe provided that the installation complies with all of the following:

1. The duct shall be installed under a concrete slab poured on grade.
2. The underfloor trench in which the duct is installed shall be completely backfilled with sand or gravel.
3. The PVC duct shall extend not greater than one inch (25.4 mm) above the indoor concrete floor surface.
4. The PVC ducts shall be solvent cemented.
5. All fittings shall be PVC of the same material as the pipe to which they are attached.

*M1503.4, Makeup air required*, is hereby deleted in its entirety.

*G2414.5.2 (403.5.2), Copper tubing*, is hereby amended to read:

Copper tubing shall comply with standard Type K or L of ASTM B 88 or ASTM B 280. Copper and brass tubing shall not be used.

*G2415.10 (404.10), Minimum burial depth*, is hereby amended to read:

Underground piping systems shall be installed a minimum depth of 18 inches (305 mm) below grade, except as provided for in section G2415.10.1.

*G2417.4.1 Test Pressure* is hereby amended to read:

The test pressure to be used shall be no less than 1 1/2 times the proposed maximum working pressure, but not less than 15 psig irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

*G2417.4.2 Test Duration* is hereby amended to read:

The test duration shall be not less than 15 minutes.

*P2503.4, Building sewer testing*, is hereby deleted in its entirety.

*P2503.5.1, Rough plumbing*, is hereby amended to read:

DWV systems shall be tested on completion of the rough piping installation by water or for systems other than plastic by air with no evidence of leakage. Either test shall be applied to the drainage system in its entirety or in sections after rough piping has been installed, as follows:

1. Water test. Each section shall be filled with water to a point not less than five feet above the highest drainage fitting connection in that section, or to the highest point in the completed system. Water shall be held in the section under test for a period of 15 minutes. The system shall prove leak free by visual inspection.

2. Air test. The portion under test shall be maintained at a gauge pressure of five pounds per square inch (psi) (34 kPa) or ten inches of mercury column (34 kPa). This pressure shall be held without introduction of additional air for a period of 15 minutes.

P2503.6 Shower liner test is hereby deleted in its entirety.

P2503.7, Water-supply system testing, is hereby amended to read:

Upon completion of the water-supply system or a section of it, the system or portion completed shall be tested and proved tight under a water pressure of not less than the working pressure of the system or, for piping systems other than PVC or CPVC, by an air test of not less than 50 psi (345 kPa). This pressure shall be held for not less than 15 minutes. The water used for tests shall be obtained from a potable water source.

P2603.6.1, *Sewer depth*, is hereby amended by inserting 12 inches (305 mm) for and in exchange of the word "number" at two locations.

P2903.8.6, *Hose bibb bleed*, is hereby deleted in entirety.

P2903.9.1, *Service valve*, is hereby amended to read:

Each dwelling unit shall be provided with an accessible main shutoff valve near the entrance of the water service. The valve shall be of a full-open type having nominal restriction to flow. Additionally, the water service shall be valved at the curb or property line in accordance with local requirements.

P2903.10, *Hose bibb*, is hereby amended to read:

Hose bibbs subject to freezing, including the "frost-proof" type, shall be equipped with an accessible valve inside the building so that they can be controlled and/or drained during cold periods.

Exception: Frostproof hose bibbs installed such that the stem extends through the building insulation into a heated or semi-conditioned space need not be separately valved (see figure P2903.10). Frostproof hose bibbs installed such that the stem extends through the building insulation into an interior wall with heated space on at least one side of the wall need not be separately valved.

P2905.4, *Water service pipe*, is hereby amended to read:

Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed in table P2905.4. Water service pipe or tubing, installed underground and outside of the structure, shall have a minimum working pressure rating of 160 pounds per square inch at 73 degrees F (1,103 kPa at 23 degrees C). Where the water pressure exceeds 160 pounds per square inch (1,103 kPa), piping material shall have a rated working pressure equal to or greater than the highest available pressure. Water service piping materials not third-party certified for water distribution shall terminate a minimum of 30 inches from exterior walls. Ductile iron water service piping shall be cement mortar lined in accordance with AWWA C104.

P3003.2, *Prohibited joints*, is hereby amended by adding the following exception:

Exception: Saddle type fittings are permitted to be used to join private building sewers to the public sewer.

P3201.1 Design of traps is hereby amended to read:

Traps shall be of standard design, shall have smooth uniform internal waterways, shall be self-cleaning and shall not have interior partitions except where integral with the fixture. Traps shall be constructed of lead, cast iron, cast or drawn brass or approved plastic. Tubular brass traps shall be not less than No. 20 gage (0.8 mm) thickness. Solid connections, slip joints and couplings are permitted to be used fixture outlet to fixture drain outlet seal. Slip joints shall be accessible.

E3401.4, *Additions and alterations*, is hereby amended to read:

Any addition or alteration to an existing electrical system shall be made in conformity with the provisions of chapters 34 through 43. Where additions subject portions of

existing systems to loads exceeding those permitted herein, such portions shall be made to comply with chapters 34 through 43. Existing knob-and-tube wiring systems shall not be extended in any manner.

*E3406.2, Conductor material*, is hereby amended to read:

Conductors used to conduct current shall be of copper except as otherwise provided in chapters 34 through 43. Where the conductor material is not specified, the material and the sizes given in these chapters shall apply to copper conductors. Where other materials are used, the conductor sizes shall be changed accordingly. Aluminum or copper clad aluminum conductors shall be permitted to be used for outdoor feeders or branch circuits and shall be sized per the requirements of the National Electrical Code.

*E3604.5, Service masts as supports*, is hereby amended to read:

Where a service mast is used for support of service drop conductors, it shall be a minimum two-inch diameter and of rigid metal conduit (RMC) and may be required to have additional support by braces or guys to withstand the strain imposed by the service drop. Where raceway-type service masts are used, all raceway fittings shall be identified for use with service masts. Only power service drop conductors shall be permitted to be attached to a service mast.

*E3610.2, Securing and protection against physical damage*, is hereby amended to read:

Where exposed, a grounding electrode conductor or its enclosure shall be securely fastened to the surface on which it is carried. A 6 AWG or larger copper shall be protected where exposed to physical damage by rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor. Grounding electrode conductors smaller than 6 AWG shall be in rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor.

*E3702.2, Branch-circuit ampere rating*, is hereby amended to read:

Branch circuits shall be rated in accordance with the maximum allowable ampere rating or setting of the overcurrent protection device. The rating for other than individual branch circuits shall be 20, 30, 40 and 50 amperes. Where conductors of higher ampacity are used, the ampere rating or setting of the specified over-current device shall determine the circuit rating.

*E3702.3, Fifteen- and 20-ampere branch circuits*, is hereby amended to read:

A 20-ampere branch circuit shall be permitted to supply lighting units, or other utilization equipment, or a combination of both. The rating of any one cord-and-plug-connected utilization equipment not fastened in place shall not exceed 80 percent of the branch-circuit ampere rating. The total rating of utilization equipment fastened in place, other than luminaires, shall not exceed 50 percent of the branch-circuit ampere rating where lighting units, cord-and-plug-connected utilization equipment not fastened in place, or both, are also supplied.

*E3608.1.1.1, Installation*, is hereby amended to read:

Continuity of the grounding path or the bonding connection to interior piping shall not rely on water meters, filtering devices and similar equipment. A metal underground water pipe shall be supplemented by an additional electrode of a type specified in sections E3608.1.2 through E3608.1.6. The supplemental electrode shall be bonded to the grounding electrode conductor, the grounded service entrance conductor, a nonflexible grounded service raceway or any grounded service enclosure. Where the supplemental electrode is a rod, pipe or plate electrode in accordance with section E3608.1.4 or E3608.1.5, it shall comply with section E3608.4.

Where the supplemental electrode is a rod, pipe or plate electrode in accordance with section E3608.1.4 or E3608.1.5, that portion of the bonding jumper that is the sole connection to the supplemental grounding electrode shall not be required to be larger than 6 AWG copper.

*E3608.3, Rod, pipe and plate electrode requirements*, is hereby amended to read:

Where practicable, rod, pipe and plate electrodes shall be embedded below permanent moisture level. Such electrodes shall be free from nonconductive coatings such as paint or enamel. Where more than one such electrode is used, each electrode of one grounding system shall be not less than six feet (1,829 mm) from any other electrode of another grounding system. Two or more grounding

electrodes that are effectively bonded together shall be considered as a single grounding electrode system. That portion of a bonding jumper that is the sole connection to a rod, pipe or plate electrode shall not be required to be larger than 6 AWG.

*E3610.2, Securing and protection against physical damage*, is hereby amended to read:

Where exposed, a grounding electrode conductor or its enclosure shall be securely fastened to the surface on which it is carried. A 4 AWG or larger conductor shall be protected where exposed to physical damage. A 6 AWG grounding conductor that is free from exposure to physical damage shall be permitted to be run along the surface of the building construction without metal covering or protection where it is and securely fastened to the construction; otherwise, it shall be in rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing or cable armor. Grounding electrode conductors smaller than 6 AWG shall be in rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing or cable armor.

*E3705.5.3, Small conductors*, is hereby amended to read:

Except as specifically permitted by section E3705.5.4, the rating of overcurrent protection devices shall not exceed the ratings shown in table E3705.5.3 for the conductors specified therein. Aluminum or copper clad aluminum conductors are prohibited.

*E3801.2, Allowable wiring methods is hereby amended by the addition of an exception to read:*

The allowable wiring methods for electrical installations shall be those listed in Table E3801.2. Single conductors shall be used only where part of one of the recognized wiring methods listed in Table E3801.2. As used in this code, abbreviations of the wiring-method types shall be as indicated in Table E3801.2.

Exception: Existing knob and tube wiring systems shall be permitted to be maintained. Knob and tube wiring shall not be permitted for extensions of existing systems.

*E3908.8, Types of equipment grounding conductors*, is hereby amended to read: The equipment grounding conductor run with or enclosing the circuit conductors shall be one or more or a combination of the following:

1. A copper conductor. This conductor shall be solid or stranded; insulated, covered or bare; and in the form of a wire or a busbar of any shape.
2. Rigid metal conduit.
3. Intermediate metal conduit.
4. Electrical metallic tubing.
5. Armor of Type AC cable in accordance with section E3908.4.
6. Type MC cable where listed and identified for grounding in accordance with the following:
  - 6.1. The combined metallic sheath and grounding conductor of interlocked metal tape-type MC cable.
  - 6.2. The metallic sheath or the combined metallic sheath and grounding conductors of the smooth or corrugated tube-type MC cable.
7. Other electrically continuous metal raceways and auxiliary gutters.
8. Surface metal raceways listed for grounding.

*E4002.14, Tamper-resistant receptacles*, is hereby amended to read:

In areas specified in section E3901.1, 125-volt, 15- and 20-ampere receptacles shall be listed tamper-resistant receptacles.

Exception: Receptacles in the following four locations are not required to be tamper-resistant:

1. Receptacles located more than 1.7 m (6.5 ft.) above the floor.
2. Receptacles that are part of a luminaire or appliance.
3. A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that in normal use is not easily moved from one place to another and that is cord-and-plug connected in accordance with 400.7(A)(6), (A)(7) or (A)(8).
4. Nongrounding receptacles used of replacements as permitted in 406.4(D)(2)(a).

**SECTION 3:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article V. Property Maintenance Code, Sections 10-111, Adopted by reference, 10-112, Conflicts, interpretation and appeal and 10-113, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

#### ARTICLE V. PROPERTY MAINTENANCE CODE

##### Sec. 10-111. Adopted by reference.

(a) There is hereby adopted by reference, that certain code referred to as the International Property Maintenance Code, 2003 9 edition, as published by the International Code Council, Inc., for the establishment of minimum acceptable standards for the maintenance of existing building, structures, premises and facilities to protect health, safety or general welfare. Each and all of the standards, regulations and requirements, save and except such portions as are hereinafter deleted, amended or modified, as set out and specified in the International Property Maintenance Code, 2003 9 edition, are hereby adopted, referred to, incorporated and made a part hereof as if fully set out at length herein.

(b) Not less than one copy of the said International Property Maintenance Code, 2003 9 edition, shall be on file in the office of the city clerk and open for public inspection during office hours.

##### Sec. 10-112. Conflicts, interpretation and appeal.

(a) In the event any provision of this article and/or any provision of the International Property Maintenance Code, 2003 9 edition, conflicts with or is inconsistent in any manner with any section of this Code or other codes adopted by reference therein, or parts thereof, the provisions of this article and the International Property Maintenance Code, 2003 9 edition, shall supersede and take precedence over such portion or portions in conflict or inconsistent therewith, except in the following circumstances: If this article and/or any provision of the International Property Maintenance Code, 2003 9 edition, conflicts with or is inconsistent in any manner with chapter 23, land development code, of this Code, chapter 23 shall supersede and take precedence over such portion in conflict or inconsistent therewith; a further exception shall be where any section of this Code shall specifically state that it shall supersede and take precedence in the event of a conflict or inconsistency with the International Property Maintenance Code, edition, as adopted or modified by this Code.

##### Sec. 10-113. Deletions, modifications, amendments and insertions.

The International Property Maintenance Code, 2003 edition, is hereby amended in the following aspects:

*101.1, Title*, is hereby amended by inserting the words "*the City of Stillwater, Oklahoma*" for and in exchange of the words "name of jurisdiction."

*103.1, General*, is hereby deleted in its entirety and replaced with:

103.1 Creation of property maintenance division. The property maintenance division of the development services department is hereby created and the official in charge thereof shall be known as the building official. Wherever code official is referenced in this code, it shall mean the building official.

*103.2, Appointment*. The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

*103.3, Deputies*, is hereby repealed and replaced to read:

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

*103.6, Fees*, is hereby deleted in its entirety

~~*104.1, General*, and *104.2, Rule-making authority*, are hereby deleted in their entirety and replaced with:~~

~~"104.1 General. The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and~~

~~assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions."~~

*105.1, Modifications*, is hereby repealed and replaced to read:

Literal compliance: Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

*105.2, Alternative materials, design and methods of construction and equipment*, is hereby repealed and replaced to read:

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

*106.2, Penalty*, is hereby amended to read:

Any person, firm or corporation who shall violate any provision of this code shall be guilty of a misdemeanor and upon conviction thereof, shall be punished as a Class C offense. Each day upon which a violation continues shall be deemed a separate offense. *Section 111, Means of appeal*, is hereby deleted in its entirety.

*Section 111, Means of Appeal*, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

*304.14, Insect screens*, is hereby amended by inserting the words "April 1st to September 30th" for and in exchange of the words "date to date."

*404.4.1 Room area* is hereby amended to read:

Every living room shall contain at least 120 square feet (11.2m<sup>2</sup>) and every bedroom occupied by one person shall contain at least 70 square feet (6.5 m<sup>2</sup>) and every bedroom occupied by more than one person shall contain at least 50 square feet (4.6 m<sup>2</sup>) of floor area for each occupant thereof.

*404.5 Overcrowding* is hereby amended to read:

Dwelling units shall not be occupied by more occupants than permitted by the minimum area requirements of Section 404.4.1 or Section 404.6. Living rooms shall not be counted as bedrooms for allowable number of occupants.

**SECTION 4:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article VII. Existing Buildings, Sections 10-234, Adopted by reference, 10-235, Conflicts, interpretation and appeal, be repealed and amended to read as follows below and by creating Section 10-237, Deletions, modifications, amendments and insertions, to read as follows below:

## ARTICLE VII. EXISTING BUILDINGS

**Sec. 10-234. Adopted by reference.**

(a) There is hereby adopted by reference that a certain code, referred to as the "City of Stillwater ~~International Existing Buildings Rehabilitation and Change of Use Code, 2007~~ 2009 edition, for the establishment of minimum acceptable standards for the construction,

alteration, addition, repair, removal, demolition, use, location, occupancy and maintenance of all existing buildings and structures to protect health, safety or general welfare. Each and all of the standards, regulations and requirements, as set out and specified in said code are hereby adopted, referred to, incorporated and made a part hereof as if fully set out at length herein.

(b) Not less than one copy of the ~~City of Stillwater International Existing Buildings Rehabilitation and Change of Use Code, 2007 2009~~ edition, shall be on file in the office of the city clerk, and open for public inspection during office hours.

#### **Sec. 10-235. Conflicts, interpretation and appeal.**

(a) In the event any provision of this article and/or any provision of the the "~~City of Stillwater International Existing Buildings Rehabilitation and Change of Use Code, 2007 2009~~" edition conflicts with or is inconsistent in any manner with any section of this Code or other codes adopted by reference therein, or parts thereof, the provisions of this article and the the "~~City of Stillwater International Existing Buildings Rehabilitation and Change of Use Code, 2007 2009~~" edition shall supersede and take precedence over such portion in conflict or inconsistent therewith, except in the following circumstances:

(1) If this article and/or any provision of the the "~~City of Stillwater International Existing Buildings Rehabilitation and Change of Use Code, 2007 2009~~" edition, conflicts with or is inconsistent in any manner with chapter 23, land development code, of this Code, chapter 23, land development code, shall supersede and take precedence over such portion in conflict or inconsistent therewith;

(2) A further exception shall be where any section of this Code shall specifically state that it shall supersede and take precedence in the event of a conflict or inconsistency with the the "~~City of Stillwater International Existing Buildings Rehabilitation and Change of Use Code, 2007 2009~~" edition, as adopted or modified by this Code.

(b) Any person, firm or corporation shall have the right to appeal to the building trades board, created in section 10-21, an order, decision or determination of the building official relative to the application and interpretation of this code covering the manner of construction or materials to be used in the erection, alteration or repair of a building regulated by the code. An application for appeal shall be based on a claim that the true intent of the code, or the rules legally adopted thereunder, has been incorrectly interpreted, or the provisions of the code do not fully apply, or evidence that an equally good or better form of construction is proposed.

#### **Sec. 10-237. Deletions, modifications, amendments and insertions.**

The International Existing Building Code, 2009 edition, is hereby amended in the following aspects:

101.1, Title, is hereby amended by inserting the words "the City of Stillwater, Oklahoma" for and in exchange of the words "name of jurisdiction."

103.1, General, is hereby deleted in its entirety and replaced with:

103.1 Creation of Building Safety division. The Building Safety division of the Development Services Department is hereby created and the official in charge thereof shall be known as the building official. Wherever code official is referenced in this code, it shall mean the building official.

103.2, Appointment. The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

103.3, Deputies, is hereby repealed and replaced to read:

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

105, Permits is hereby repealed and replace to read:

Permits shall be required and processed in compliance with section 105 of the 2009 International Building Code.

108.2 Schedule of permit fees, is hereby repealed and amended to read to wit:

Permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

108.6, Refunds is hereby deleted in its entirety.

Section 112, Board of Appeals, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

202, General Definitions, Existing Building is hereby amended to read: Existing Building or Existing Structure. A building or structure on which construction was begun at least ten (10) years prior to the date of adoption of this code.

1301.2, Applicability, is hereby amended by inserting "1966" for and in exchange of the words "date to be inserted by the jurisdiction."

**SECTION 5:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article VIII. Plumbing Standards, Sections 10-289, Adopted by reference, Section 10-290, Conflicts, interpretations and appeals, and 10-291, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

#### **ARTICLE VIII. PLUMBING STANDARDS**

##### **Sec. 10-289. Adopted by reference.**

(a) There is hereby adopted by reference that certain code referred to as the International Plumbing Code, 2003 9 edition, as published by the International Codes Council, Inc., for the establishment of minimum acceptable standards for design and installation of plumbing systems, including sanitary and storm drainage, sanitary facilities, water supplies, stormwater and sewage disposal in buildings. Each and all of the standards, regulations and requirements, save and except such portions as are hereinafter deleted, modified or amended, as set out and specified in the International Plumbing Code, 2003 9 edition, including Appendix chapters B, C, D, E, F, and G are hereby adopted, referred to, incorporated and made a part hereof as if fully set out at length herein.

(b) Not less than one copy of the said International Plumbing Code, 2003 9 edition, shall be on file in the office of the city clerk and open for public inspection during office hours.

##### **Sec. 10-290. Conflicts, interpretations and appeals.**

(a) In the event any provision of this article and/or any provision of the International Plumbing, 2003 9 edition, conflicts with or is inconsistent in any manner with any section of this Code, or other codes adopted by reference therein, or parts thereof, the provisions of this article and the International Plumbing Code, 2003 9 edition shall supersede and take precedence over such portions in conflict or inconsistent therewith, except in the following circumstances: if this article and/or any provision of the International Plumbing Code, 2003 9 edition, conflicts with or is inconsistent in any manner with chapter 23, land development code, of this Code, chapter 23, land development code shall supersede and take precedence over such portion in conflict or inconsistent therewith; a further exception shall be where any section of this Code shall specifically state that it shall supersede and take precedence in the event of a conflict or inconsistency with the International Plumbing Code, 2003 9 edition, as adopted or modified by this Code.

(b) Any person, firm or corporation shall have the right to appeal to the building trades board, created in section 10-21, an order, decision or determination of the plumbing inspector or a notice or order issued under this code. An application for appeal shall be based on a claim that the true intent of the code, or the rules legally adopted thereunder, has been incorrectly interpreted, or the provisions of the code do not fully apply or evidence that an equally good or better form of construction is proposed.

##### **Sec. 10-291. Deletions, modifications, amendments and insertions.**

The International Plumbing Code, 2003 9 edition is hereby amended in the following aspects:

*101.1, Title*, is hereby amended by inserting the words "*the City of Stillwater, Oklahoma*" for and in exchange of the words "*name of jurisdiction*."

*103.1, General*, is hereby deleted in its entirety and replaced with:

*103.1 Creation of building safety division.* The building safety division of the development services department is hereby created and the official in charge thereof shall be known as the building official. Wherever code official is referenced in this code, it shall mean the building official.

*103.2, Appointment.* The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

*103.3, Deputies*, is hereby repealed and replaced to read:

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

~~*104.1, General, and 104.2, Rule-making authority*, are hereby deleted in their entirety and replaced with:~~

~~"*104.1 General.* The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions."~~

*105.1, Modifications*, is hereby repealed and replaced to read:

Literal compliance: Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

*105.2, Alternative materials, design and methods of construction and equipment*, is hereby repealed and replaced to read:

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

*106.2, Exempt work.* Is hereby amended to read:

The following work shall be exempt from the requirement for a permit:

1. The stopping of leaks in drains, water, soil, waste or vent pipe provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.

2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

3. The replacement of plumbing fixtures and faucets provided such replacement does not involve the rearrangement of piping.

Exemption from the permit requirements of this code shall not be deemed to grant authorization for any work to be done in violation of the provisions of this code or any other laws or ordinances of this jurisdiction.

*106.5.1, Approved construction documents* is hereby amended to read:

When the code official issues the permit where construction documents are required, the construction documents shall be endorsed in writing and stamped "Reviewed for Code Compliance." Such approved construction documents shall not be changed, modified or altered without authorization from the code official. Work shall be done in accordance with the approved construction documents.

106.6.2, *Fee schedule*, is hereby amended by inserting the following for and in exchange of the words "jurisdiction to insert appropriate schedule":

Plumbing permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

106.6.3, *Fee refunds*, is hereby deleted in its entirety.

108.4, *Violation penalties*, is hereby amended to read:

Any person, firm or corporation who shall violate a provision of this Code or shall fail to comply with any of the requirements thereof or who shall install, alter or repair any plumbing system in violation of an approved plan or directive of the plumbing inspector, or of a permit or certificate issued under the provisions of this Code shall be guilty of a class C offense upon conviction.

108.5, *Stop work orders*, is hereby amended to read:

Any person, firm or corporation who shall continue any plumbing work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be guilty of a class C offense upon conviction.

*Section 109, Board of Appeals*, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

305.6.1, *Sewer depth* is hereby amended by inserting the ~~number six (6) inches (one hundred fifty two (152) mm)~~ 12 inches (305 mm) for and in exchange of the word "number" at two (2) locations

312.1, *Required tests* is hereby amended to read:

The permit holder shall make the applicable tests prescribed in Sections 312.2 through 312.10 to determine compliance with the provisions of this code. The permit holder shall give reasonable advance notice to the code official when the plumbing work is ready for tests. The equipment, material, power and labor necessary for the inspection 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. All plumbing system piping shall be tested with either water or, for piping systems other than PVC or CPVC, by air. After the plumbing fixtures have been set and their traps filled with water, the entire drainage system shall be submitted to final tests. The code official shall require the removal of any cleanouts if necessary to ascertain whether the pressure has reached all parts of the system

312.2, *Drainage and vent water test* is hereby amended to read:

A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to the point of overflow a minimum of 5 feet above the highest drainage fitting in the system. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than a 5-foot (1524 mm) head of water above the highest drainage fitting under test. In testing successive sections, at least the upper 5-foot (1524 mm) of the next preceding section shall be tested so that no joint or pipe in the building drainage system, shall have been submitted to a test of less than a 5-foot (1524 mm) head of water. This pressure shall be held for at least 15 minutes. The system shall then be tight at all points.

312.6, *Gravity sewer test*, is hereby deleted in its entirety.

312.9, *Shower liner test* is hereby deleted in its entirety:

403.1, Minimum number of fixtures is hereby amended by the addition of 2 exceptions to read:

Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 403.1. Types of occupancies not shown in Table 403.1 shall be considered individually by the code 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.

Exceptions:

1. Water fountains are not required in any occupancy.
2. Toilets, lavatories and service sinks shall not be required in S occupancy buildings used solely for storage when there are no accessory uses or mixed-uses in the building and the building is not heated.

403.2, Separate facilities is hereby amended to read:

Where plumbing fixtures are required, separate facilities shall be provided for each sex.

Exceptions:

1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total occupancy load, including both employees and customers, of 15 or less.
3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 100 or less.

403.3.1.1, Toilet room ingress and egress is hereby added to read:

Toilet rooms shall not open directly into a room used for the preparation of food for service to the public.

405.8, Slip joint connections is hereby amended to read:

Slip joints shall be made with an approved elastomeric gasket and shall only be installed from fixture outlet to fixture drain outlet seal. Fixtures with concealed slip-joint connections shall be provided with an access panel or utility space at least 12 inches (305 mm) in its smallest dimension or other approved arrangement so as to provide access to the slip joint connections for inspection and repair.

417.5.2.6, Liquid type, trowel applied, load bearing, bonded water proof materials is hereby added to read:

Liquid type, trowel applied, load bearing, bonded waterproof materials shall meet the requirements of ANSI A118.10 and shall be applied in accordance with the manufacturer's installation instructions.

504.4.1, Installation is hereby amended to read:

Such valves shall be installed in the shell of the water heater tank. Temperature relief valves shall be so located in the tank as to be actuated by the water in the top 6 inches (152 mm) of the tank served. For installations with separate storage tanks, the valves shall be installed on both the storage water heater and the storage tank(s) when the storage tank(s) has the ability to heat water. Otherwise the valves shall be installed on the storage tank. There shall not be any type of valve installed between the water heater and the storage tank. There shall not be a check valve or shutoff valve between a relief valve and the heater or tank served.

605.3, Water service pipe is hereby amended to read:

Water service pipe shall conform to NSF 61 and shall conform to one of the standards listed Table 605.3. All water service pipe or tubing, installed underground and outside of the structure, shall have a minimum working pressure rating of 160 pounds per square inch (1100 kPa) at 73.4 degrees Fahrenheit (23 degrees Celsius). Where the water pressure exceeds 160 pounds per square inch, (1100 kPa), piping materials shall have a minimum rated working pressure equal to the highest available pressure. Water service piping materials not third-party certified for water distribution shall terminate a minimum of 30 inches (762 mm) outside the structure at or before the full open valve located at the entrance to the structure. All ductile iron water service piping shall be cement mortar lined in accordance with AWWA C104.

802.1.8, Food utensils, dishes, pots and pans sinks.

Sinks used for the washing, rinsing or sanitizing of utensils, dishes, pots, pans or serviceware used in the preparation, serving or eating of food shall discharge indirectly through an air gap or an air break to the drainage system.

904.1, *Roof extension*, is amended by inserting the number "~~eight (8) inches (two hundred three (203) mm)~~ six (6) inches" for and in exchange of the word "number."

1002.2, *Design of traps is hereby amended to read:*

Fixture traps shall be self-scouring. Fixture traps shall not have interior partitions, except where such traps are integral with the fixture or where such traps are constructed of an approved material that is resistant to corrosion and degradation. Slip joints shall be made with an approved elastomeric gasket and shall be installed only from fixture outlet to fixture drain outlet seal.

1107.3, *Sizing of secondary drains* is hereby amended to read:

Secondary (emergency) roof drain systems or scuppers shall be sized in accordance with Section 1106 based on a rainfall rate of 10.2 inches per hour for a 5-minute duration. In sizing secondary roof drain systems using Tables 1106.2, 1106.3 and 1106.6, the Horizontally Projected Roof Area shall be determined by dividing the Horizontally Projected Roof Area for 1-inch rain fall per hour rate by 10.2 inches per hour. Secondary roof scuppers shall be designed in accordance with ASCE/SEI 7-05 *Minimum Design Loads for Buildings and Other Structures, Chapter 8 C8-RAIN LOADS* published by the American Society of Civil Engineers and Structural Engineering Institute. Scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1101.7. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when sizing the secondary roof drain system or scuppers.

**SECTION 6:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article IX. Gas Standards, Sections 10-374, Adopted by reference, 10-375, Conflicts, interpretation and appeal, and 10-376, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

#### **ARTICLE IX. GAS STANDARDS**

##### **Sec. 10-374. Adopted by reference.**

(a)There is hereby adopted by reference that certain code referred to as the International Fuel Gas Code, 2003 9 edition, as published by the International Code Council, Inc., for the establishment of minimum accepted standards for the design, installation, maintenance, alteration and inspection of fuel gas systems including heating systems, ventilating systems, steam and hot water heating systems, water heating systems, boilers and pressure vessels, appliances utilizing gas, liquid or solid fuels, chimneys and vents. Each and all of the standards, regulations and requirements, save and except such portions are hereinafter deleted, modified or amended, as set out and specified in the International Fuel Gas Code, 2003 9 edition, including appendix chapters A, B, C are hereby adopted, referred to, incorporated and made a part hereof as if fully set out at length herein.

(b)Not less than one copy of the International Fuel Gas Code, 2003 9 edition, shall be on file in the office of the city clerk and open for public inspection during office hours.

##### **Sec. 10-375. Conflicts, interpretation and appeal.**

(a)In the event any provision of this article and/or any provision of the International Fuel Gas Code, 2003 9 edition, conflict with or is inconsistent in any manner with any section of this Code or any codes adopted by reference therein, or parts thereof, the provisions of this article and the International Fuel Gas Code, 2003 9 edition, shall supersede and take precedence over such portion or portions in conflict or inconsistent therewith, except in the following circumstances: if this article and/or any provision of the International Fuel Gas Code, 2003 9 edition, conflicts with or is inconsistent in any manner with chapter 23, land development code, of this Code, chapter 23, land development code shall supersede and take precedence over such portion in conflict or inconsistent therewith; a further exception shall be where any section of this Code shall specifically state that it shall supersede and take precedence in the event of a conflict or inconsistency with the International Fuel Gas Code, 2003 9 edition, as adopted or modified by this Code.

(b)Any person, firm or corporation shall have the right to appeal to the building trades board, created in section 10-21, an order, decision or determination of the building

official relative to the application and interpretation of this code or a notice or order issued under this code. An application for appeal shall be based on a claim that the true intent of the code, or the rules legally adopted thereunder, has been incorrectly interpreted, or the provisions of the code do not fully apply, or evidence that an equally good or better form of construction is proposed.

**Sec. 10-376. Deletions, modifications, amendments and insertions.**

The International Fuel Gas Code, 2003 9 edition is hereby amended in the following aspects:

*101.1, Jurisdiction*, is hereby amended by inserting the words "*the City of Stillwater, Oklahoma*" for and in exchange of the words "*name of jurisdiction*".

*103.1, General*, is hereby deleted in its entirety and replaced with:

*103.1 Creation of building safety division.* The building safety division of the development services department is hereby created and the official in charge thereof shall be known as the building official. Wherever code official is referenced in this code, it shall mean the building official.

*103.2, Appointment.* The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

*103.3, Deputies*, is hereby repealed and replaced to read:

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

~~*104.1, General, and 104.2, Rule-making authority*, are hereby deleted in their entirety and replaced with:~~

~~"104.1 General. The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions."~~

*105.1, Modifications*, is hereby repealed and replaced to read:

Literal compliance. Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

*105.2, Alternative materials, design and methods of construction and equipment*, is hereby repealed and replaced to read:

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

*106.5.1, Approved construction documents* is hereby amended to read:

When the code official issues the permit where construction documents are required, the construction documents shall be endorsed in writing and stamped "REVIEWED FOR CODE COMPLIANCE." Such approved construction documents shall not be changed, modified or altered without authorization from the code official. Work shall be done in accordance with the approved construction documents.

*106.5.2, Fee schedule*, is hereby amended by inserting the following for and in exchange of the words "jurisdiction to insert appropriate schedule":

Fuel gas piping permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

106.5.3, *Fee refunds*, is hereby deleted in its entirety.

108.4, *Violation penalties*, is hereby amended to read:

Any person, firm or corporation who shall violate a provision of this Code or shall fail to comply with any of the requirements thereof or who shall install, alter or repair any mechanical system in violation of an approved plan or directive of the code official or of a permit or certificate issued under the provisions of this Code shall be guilty of a Class C offense upon conviction.

108.5, *Stop work orders*, is hereby amended to read:

Any person, firm or corporation who shall continue any mechanical or fuel gas piping work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be guilty of a Class C offense upon conviction.

*Section 109, Board of Appeals*, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

305.3, *Elevation of ignition* is hereby amended by deleting the exception.

306.5, *Equipment and Appliances on roofs or elevated structures*, is hereby amended by deleting the second paragraph including numbers one through seven and replaced to read numbers 2 and 3 are hereby amended to read:

~~"Permanent ladders installed to provide the required access shall comply with OSHA standard 1910.27 for fixed ladders or successor registration."~~

2. Ladders shall have rung spacing not to exceed 12 inches (305 mm) on center.

3. Ladders shall have a toe spacing not less than 7 inches (178 mm) deep.

307.2.1, *Condensate drains* is hereby added to read:

Where condensing appliances are in locations subject to freezing conditions, the condensate drain line must be protected from freezing in an approved manner and in accordance with manufacturer installation instructions.

308.1, *Scope* is hereby amended to read:

This section shall govern the reduction in required clearances to combustibles materials, including gypsum board, and combustibles assemblies for chimneys, vents, appliances, devices and equipment. Clearance requirements for air-conditioning equipment and central heating boilers and furnaces shall comply with Section 308.3 and 308.4.

309.2, *Electrical*, is hereby amended by adding a paragraph to read:

"All reference to the International Electrical Code or ICC Electrical Code within this code shall be construed to reference the National Electrical Code as published by the National Fire Protection Association as adopted in chapter 10 of this Code."

310.1.1, *CSST* is hereby amended to read:

Corrugated stainless steel tubing (CSST) gas piping systems shall be bonded to the electrical service grounding electrode system at an accessible location upstream of any CSST pipe and as close as practical to the point where the gas service enters the building. The bonding jumper shall be not smaller than 6 AWG copper wire.

Exception: Special corrugated stainless steel gas products or systems that have been designed, manufactured and listed for installation without direct bonding shall be permitted to be installed in accordance with the manufacturer's installation instructions.

404.10, *Minimum burial depth* is hereby amended to read:

Underground piping systems shall be installed a minimum depth of ~~42~~ 18 inches (457 mm) below grade, except as provided for in Section 404.10.1.

Exception: Where a minimum depth of 18 inches (457 mm) of cover cannot be provided, the pipe shall be installed in conduit or bridged (shielded).

404.10.2, *Separation of gas piping from other piping systems* is hereby added to read:

Gas pipe and any other piping systems shall be separated by 18 inches (457 mm) of undisturbed or compacted earth.

404.16, Prohibited devices is hereby amended by adding an exception to read:  
Exception 2. An approved fitting or device where the gas piping system has been sized to accommodate the pressure drop of the fitting or device.

406.4.1, Test pressure is hereby amended to read:

The test pressure to be used shall be no less than 1 1/2 times the proposed maximum working pressure, but not less than 15 psig irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

406.4.2, Test duration is hereby amended to read:

Test duration shall be not less than 1/2 hour for each 500 cubic feet (14 m3) of pipe volume or additional fraction thereof. When testing a system having a volume less than 500 cubic feet (0.28m3) or a system in a single-family dwelling, the test duration shall be not less than 15 minutes. The duration of the test shall not be required to exceed 24 hours.

406.7, Purging is amended to read:

The purging of piping shall be in accordance with Sections 406.7.1 through 406.7.3

406.7.1 Piping systems required to be purged outdoors. The purging of piping systems shall be in accordance with the provisions of Sections 406.7.1.1 through 406.7.1.4 where the piping system meets either of the following:

1. The design operating gas pressure is greater than 2 psig (13.79 kPa).
2. The piping being purged contains one or more sections of pipe or tubing meeting the size and length criteria of Table 406.7.1.1

406.7.1.1 Removal from service. Where existing gas piping is opened, the section that is opened shall be isolated from the gas supply and the line pressure vented in accordance with 406.7.1.3. Where gas piping meeting the criteria of Table 406.7.1 is removed from service, the residual fuel gas in the piping shall be displaced with an inert gas.

406.7.1.2 Placing in operation. Where gas piping contains air and meeting the criteria of Table 406.7.1.1 is placed in operation, the air in the piping shall first be displaced with an inert gas. The inert gas shall then be displaced with fuel gas in accordance with Section 406.7.1.3.

406.7.1.3 Outdoor discharge of purged gases. The open end of a piping system being pressure vented or purged shall discharge directly to an outdoor location. Purging operations shall comply with all of the following requirements:

1. The point of discharge shall be controlled with a shutoff valve.
2. The point of discharge shall be located at least 10 feet (3048 mm) from sources of ignition, at least 10 feet (3048 mm) from building openings and at least 25 feet (7620 mm) from mechanical air intake openings.
3. During discharge, the open point of discharge shall be continuously attended and monitored with a combustion gas indicator that complies with Section 406.7.1.4.
4. Purging operations introducing fuel gas shall be stopped when 90 percent fuel gas by volume is detected within the pipe.
5. Persons not involved in the purging operations shall be evacuated from all areas within 10 feet (3048 mm) of point of discharge.

406.7.1.4 Combustion gas indicator. Combustion gas indicators shall be listed and shall be calibrated in accordance with the manufacturer's instructions. Combustion gas indicators shall numerically display a volume scale from zero percent to 100 percent in 1 percent or smaller increments.

406.7.2 Piping systems allowed to be purged indoors or outdoors. The purging of piping systems shall be in accordance with the provisions of Section 406.7.2.1 where the piping system meets both of the following:

1. The design operating gas pressure is 2 psig (13.79 kPa) or less.
2. The piping being purged is constructed entirely from pipe or tubing not meeting the size and length criteria of Table 406.7.1.1

406.7.2.1 Purging Procedure. The piping system shall be purged in accordance with one or more of the following:

1. The piping shall be purged with fuel gas and shall discharge to the outdoors.
2. The piping shall be purged with fuel gas and shall discharge to the indoors or outdoors through an appliance burner not located in a combustion chamber. Such burner shall be provided with a continuous source of ignition.
3. The piping shall be purged with fuel gas and shall discharge to the indoors or outdoors through a burner that has a continuous source of ignition and that is designed for such purpose.
4. The piping shall be purged with fuel gas that is discharged to the indoor or outdoors, and the point of discharge shall be monitored with a listed combustible gas detector in accordance with Section 406.7.2.2. Purging shall be stopped when fuel gas is detected.
5. The piping shall be purged by the gas supplier in accordance with written procedures.

406.7.2.2 Combustible gas detector. Combustible gas detectors shall be listed and shall be calibrated or tested in accordance with the manufacturer's instructions. Combustible gas detectors shall be capable of indicating the presence of fuel gas.

406.7.3 Purging appliances and equipment. After the piping system has been placed in operation, appliances and equipment shall be purged before being placed into operation.

**SECTION 7:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article X. Mechanical Standards, Sections 10-396, Adopted by reference, 10-397, Conflicts, interpretation and appeal, and 10-398, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

## ARTICLE X. MECHANICAL STANDARDS

### Sec. 10-396. Adopted by reference.

(a) There is hereby adopted by reference that certain code referred to as the International Mechanical Code, 2003 9 edition, as published by the International Code Council, Inc., for the establishment of minimum accepted standards for the design, installation, maintenance, alteration and inspection of mechanical systems including heating systems, ventilating systems, steam and hot water heating systems, water heating systems, boilers and pressure vessels, appliances utilizing gas, liquid or solid fuels, chimneys and vents. Each and all of the standards, regulations and requirements, save and except such portions as are hereinafter deleted, modified or amended, as set out and specified in the International Mechanical Code, 2003 9 edition, are hereby adopted, referred to, incorporated and made a part hereof as if fully set out at length herein.

(b) Not less than one copy of the International Mechanical Code, 2003 9 edition, shall be on file in the office of the city clerk and open for public inspection during office hours.

### Sec. 10-397. Conflicts, interpretation and appeal.

(a) In the event any provision of this article and/or any provision of the International Mechanical Code, 2003 9 edition, conflict with or is inconsistent in any manner with any section of this Code or any codes adopted by reference therein, or parts thereof, the provisions of this article and the International Mechanical Code, 2003 9 edition, shall supersede and take precedence over such portion or portions in conflict or inconsistent therewith, except in the following circumstances: if this article and/or any provision of the International Mechanical Code, 2003 9 edition, conflicts with or is inconsistent in any manner with chapter 23, land development code, of this Code, chapter 23, the land development code, shall supersede and take precedence over such portion or portions in conflict or inconsistent therewith; a further exception shall be where any section of this Code shall specifically state that it shall supersede and take precedence in the event of a conflict or inconsistency with the International Mechanical Code, 2003 9 edition, as adopted or modified by this Code.

(b) Any person, firm or corporation shall have the right to appeal to the building trades board, created in section 10-21, an order, decision or determination of the building official relative to the application and interpretation of this code or a notice or order

issued under this code. An application for appeal shall be based on a claim that the true intent of the code, or the rules legally adopted thereunder, has been incorrectly interpreted, or the provisions of this code do not fully apply, or evidence that an equally good or better form of construction is proposed.

**Sec. 10-398. Deletions, modifications, amendments and insertions.**

The International Mechanical Code, 2003 9 edition is hereby amended in the following aspects:

*101.1, Jurisdiction*, is hereby amended by inserting the words "*the City of Stillwater, Oklahoma*" for and in exchange of the words "*name of jurisdiction*."

*103.1, General*, is hereby deleted in its entirety and replaced with:

103.1 Creation of building safety division. The building safety division of the development services department is hereby created and the official in charge thereof shall be known as the building official. Wherever code official is referenced in this code, it shall mean the building official.

*103.2, Appointment*. The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

*103.3, Deputies is hereby repealed and replaced to read:*

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

~~*104.1, General and 104.2, Rule-making authority*, are hereby deleted in their entirety and replaced with:~~

~~"104.1 General. The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions."~~

*105.1, Modifications*, is hereby repealed and replaced to read:

Literal compliance: Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

*105.2, Alternative materials, design and methods of construction and equipment is hereby repealed and replaced to read:*

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

*106.5.1, Approved construction documents* is hereby amended to read:

When the code official issues the permit where construction documents are required, the construction documents shall be endorsed in writing and stamped "Reviewed for Code Compliance." Such approved construction documents shall not be changed, modified or altered without authorization from the code official. Work shall be done in accordance with the approved construction documents.

*106.5.2, Fee schedule* is hereby amended by inserting the following for and in exchange of the words "*jurisdiction to insert appropriate schedule*":

Mechanical permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

106.5.3, *Fee refunds*, is hereby deleted in its entirety.

108.4, *Violation penalties*, is hereby amended to read:

Any person who shall violate a provision of this Code or shall fail to comply with any of the requirements thereof or who shall install, alter or repair any mechanical system in violation of an approved plan or directive of the code official, or of a permit or certificate issued under the provisions of this Code, shall be guilty of a Class C offense upon conviction."

108.5, *Stop work orders*, is hereby amended to read:

Any person, firm or corporation who shall continue any mechanical work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be guilty of a Class C offense upon conviction.

*Section 109, Board of Appeals*, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

*202, Definition of Commercial Cooking Appliance* is hereby amended to read:

Appliances used in a commercial food service establishment for heating or cooking food and which produce grease vapors, steam, fumes, smoke or odors that are required to be removed through a local ventilation system. Such appliances include deep fat fryers; upright broilers; griddles; broilers; steam-jacketed kettles; hot-top ranges; under-fired broilers (charbroilers); ovens; barbecues; rotisseries; and similar appliances. For the purpose of this definition, a food service establishment shall include any building or a portion thereof used for the preparation and serving of food that is not a kitchen in a single-family dwelling unit or apartment.

*301.7, Electrical*, is hereby amended by adding a paragraph to read:

~~"All reference to the International Electrical Code or IGC Electrical Code within this code shall be construed to reference the National Electrical Code as published by the National Fire Protection Association as adopted in chapter 10 of the Stillwater City Code.~~

*301.12, Wind resistance* is hereby amended to read:

Mechanical equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with the International Building Code, SMACNA HVAC Duct Construction Standards - Metal and Flexible, or other approved methods.

~~306.5, *Equipment and Appliances on roofs or elevated structures*, is hereby amended by deleting the second paragraph including numbers one through seven and replaced to read numbers 2 and 3 are hereby amended to read:~~

~~"Permanent ladders installed to provide the required access shall comply with OSHA standard 1910.27 for fixed ladders or successor registration."~~

~~2. Ladders shall have rung spacing not to exceed 12 inches (305 mm) on center.~~

~~3. Ladders shall have a toe spacing not less than 7 inches (178 mm) deep.~~

*507.2.1, Type I hoods* is hereby amended to add an exception to read:

Type I hoods shall be installed where cooking appliances produce grease or smoke. Type I hoods shall be installed over medium-duty, heavy-duty, and extra-heavy-duty cooking appliances. Type I hoods shall be installed over light-duty cooking appliances that produce grease or smoke.

Exception: Type II hoods shall be permitted to be installed over medium-duty cooking appliances, ranges and ovens that the code official has determined will not produce appreciable amounts of grease and/or smoke. Where cooking appliances, ranges and/or ovens have been approved by the code official for installation under a Type II hood, a sign shall be placed on the wall in close proximity to the hood that reads, "Absolutely No Frying or Grease-Type Cooking Permitted."

514.1, *General*, is hereby amended to read:

When installed, energy recovery ventilation systems shall be installed in accordance with this section.

604.1, *General* is hereby amended to read:

Duct insulation shall conform to the requirements of Sections 604.2 through 604.13, the

International Energy Conservation Code and SMACNA HVAC Duct Construction Standards – Metal and Flexible.

1101.1, Locking access port caps is hereby deleted in its entirety.

**SECTION 8:** That the Stillwater City Code, Chapter 10, Buildings and Buildings Regulations, Article XI. Electricity, Sections 10-485, National Electrical Code adopted by reference, and 10-486, Amendments, be repealed and amended to read as follows:

**ARTICLE XI. ELECTRICITY**

**Sec. 10-485. National Electrical Code adopted by reference.**

(a) There is hereby adopted by reference, that certain code referred to as the National Electrical Code, 2008 11 edition, as published by the National Fire Protection Association, Inc., for the establishment of minimum accepted standards for the design and installation of electrical conductors and equipment within or on public and private buildings or other structures, the installation of conductors that connect to the supply of electricity and the installation of other outside conductors on the premises. Each and all of the standards, regulations and requirements, including but not limited to Annex H, Administration and Enforcement, therein, save and except such portions as are hereinafter deleted, modified or amended, as set out and specified in the National Electrical Code, 2008 11 edition, are hereby adopted, referred to, incorporated and made a part hereof, as if fully set out at length herein.

(b) Not less than one copy of said National Electrical Code, 2008 11 edition, shall be on file in the office of the city clerk, and open for public inspection at all times.

(c) Not less than one copy of said National Electrical Code, 2008 11 edition, shall be on file in the city public library, and open for public inspection at all times.

**Sec. 10-486. Amendments.**

The National Electrical Code, 2008 11 edition, is hereby amended in the following aspects:

*Annex H, 80.9, Application*, is hereby amended by inserting  
(D) Moved Buildings. Electrical systems and equipment that are a part of buildings or structures moved into or within the jurisdiction shall comply with the provisions of this code for new installations.

*Annex H, 80.15, Electrical Board*, is deleted in its entirety and replaced with the following:

The building trades board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

*Annex H, 80.19 (A), Application*, is hereby amended by inserting the following:

Persons eligible for permit:

- (2) A person who is a registered electrical contractor; or
- (3) A home owner doing work on his personal residence; or
- (4) A business, firm, partnership, association or corporation that employs a registered electrical contractor.

*Annex H, 80.19(C), Issuance of Permits* is hereby amended to read:

The authority having jurisdiction shall be authorized to establish and issue permits, certificates, notices, and approvals, or orders pertaining to electrical safety hazards pursuant to 80.23, except that not permit shall be required to execute any of the classes of electrical work specified in the following:

- (1) Installation or replacement of equipment such as lamps and of electric utilization equipment approved for connection to suitable permanently installed receptacles. Replacement of flush or snap switches, fuses, lamp sockets and luminaries or fans, and receptacles, and other minor maintenance and repair work, such as replacing worn cords, and tightening connections on a wiring device.
- (2) The process of manufacturing, testing, servicing, or repairing electrical equipment or apparatus.

(3) The extension of an existing individual branch circuit or the installation of additional openings in an existing branch circuit provided that the work is not associated with a building permit.

*Annex H, 80.19(E), Fees*, is hereby amended to read:

Permit fees shall be established by resolution of the city council, no portion of which shall be refundable.

*Annex H, 80.19(F)(3), Inspection and Approvals*, is hereby amended by inserting "2 business" in the blank space provided.

*Annex H, 80.23(B)(3), Penalties*, is hereby amended to read:

Any person, firm or corporation violating any of the applicable provisions of this article, upon conviction shall be guilty of a Class A offense.

*Annex H, 80.25(C), Notification*, is hereby amended by inserting:

"2" in the blank space provided.

*Annex H, 80.27(A), Certificate*, is hereby amended to read:

All electrical inspectors shall meet those specifications set forth in the State of Oklahoma, Electrical Licensing Act., 59 O.S. supp. 1991 section 1680 et seq., and Oklahoma Inspectors Act., 59 O.S. supp. 1991 section 1031 et seq. All electrical inspectors shall be certified by a nationally recognized inspector certification program accepted by the board. The certification program shall specifically qualify the inspector in electrical inspections. No person shall be employed as an electrical inspector unless that person is the holder of an electrical inspector's certificate of qualification issued by the board.

*Annex H, 80.27(B)(3), Experience*, is hereby amended by inserting:

"State of Oklahoma" in the blank space provided.

*Annex H, 80.27(B)(4), Experience*, is hereby amended to read:

Have had at least two (2) years experience as an electrical inspector or four years experience as a journeyman electrician as defined by the State of Oklahoma, Electrical Licensing Act. In lieu of such experience, the applicant shall be a graduate in electrical engineering or of a similar curriculum of a college or university considered by the Board as having suitable requirements for graduation and shall have had two years practical electrical experience.

*Annex H, 80.29, Liability and Damages*, is hereby amended by inserting "City of Stillwater" in the blank space provided.

*Annex H, 80.35, Effective Date*, is hereby deleted in its entirety and replaced with:

Annex H shall take effect on that date specified by city council.

*Article 210.3* is hereby amended to read:

"Branch circuits recognized by this article shall be rated in accordance with the maximum permitted ampere rating or setting of the overcurrent device. The rating for other than individual branch circuits shall be: 20, 30, 40, and 50 amperes. Where conductors of higher ampacity are used for any reason, the ampere rating or setting of the specified overcurrent device shall determine the circuit rating."

"Exception: Multioutlet branch circuits greater than 50 amperes shall be permitted to supply nonlighting outlet loads on industrial premises where maintenance and supervision indicate that qualified persons will service equipment."

*Article 230.28* is hereby amended to read:

"Service mast as support. Where a service mast is used for support of service drop conductors, it shall be a minimum two (2) inch diameter and of Rigid Metal Conduit (RMC) or Intermediate Metal Conduit (IMC) and may be required to have additional support by braces or guys to withstand the strain imposed by the service drop. Where raceway-type service masts are used, all raceway fittings shall be identified for use with service masts. Only power service drop conductors shall be permitted to be attached to a service mast."

*Article 250.64(B)* is hereby amended to read:

"(B) Securing and Protection Against Physical Damage. Where exposed, a grounding electrode conductor or its enclosure shall be securely fastened to the surface on which it is carried. A 6 AWG or larger copper or aluminum grounding electrode conductor shall

be protected where exposed to physical damage or where mounted on an exterior building surface by rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor. Grounding electrode conductors smaller than 6 AWG shall be in rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, electrical metallic tubing, or cable armor."

*Article 310.2(B)* is hereby amended to read:

"Conductors in this article shall be of copper, unless otherwise specified. All reference herein to aluminum or copper-clad aluminum shall be interpreted to mean copper conductors only or shall be ignored.

Exception:

a. Service entrance conductors as covered in article 230 may be of AA-8000 series aluminum alloy, copper-clad aluminum or copper.

b. Outside branch circuits and feeders as covered in article 225 may be of AA-8000 series aluminum alloy, copper-clad aluminum or copper."

*Article 334.10, Uses Permitted* is hereby amended to read:

Type NM, Type NMC, and Type NMS cables shall be permitted to be used in ~~one and two family dwellings, multifamily dwellings of Type III, IV and V construction or other any residential structures~~ use buildings or portions of buildings permitted to be of Type III, IV and V construction and their accessory structures except as prohibited in 334.12. In mixed-use buildings residential uses must be separated from non-residential uses by a minimum 1-hour rated fire barrier as described in the International Building Code to permit the use of Type NM, Type NMC, and Type NMS cables in the residential use portion of the building.

(A) Type NM. Type NM cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations except as prohibited in 334.10.3.

(2) To be installed or fished type in air voids in masonry block or tile walls where such walls are not exposed to or subject to moisture or dampness.

(B) Type NMC. Type NMC cable shall be permitted:

(1) For both exposed and concealed work in dry, moist, damp or corrosive locations except as prohibited in 334.10.3.

(2) In outside and inside walls of masonry block or tile.

(3) In a shallow chase in masonry, concrete, or adobe protected against nails or screws by a steel plate [at] least 1.59 mm (1/16 in.) thick, and covered with plaster, adobe, or similar finish.

(C) Type NMS. Type NMS cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations except as prohibited in 334.10.3.

(2) ~~It shall be permissible~~ To be installed or fished NMS cable in air voids in masonry block or tile walls where such walls are not exposed to or subject excessive moisture or dampness.

*Article 334.12, Uses not Permitted (A) Types NM, NMC and NMS* is hereby amended to read:

Types NM, NMC and NMS cables shall not be permitted as follows:

(1) In any structure not specifically permitted in 334.10

(2) Embedded in poured cement, concrete, or aggregate

*Article 394.10, Uses Permitted* is hereby amended to read:

~~Concealed knob and tube wiring shall not be permitted. Existing systems shall not be extended in any manner. Existing concealed knob and tube wiring systems shall be permitted to be maintained.~~

*Article 394.12, Uses Not permitted* is hereby amended to read:

Concealed knob and tube wiring shall not be permitted for extensions of existing systems nor for new installations.

*Article 505.7(A), Implementation of zone classification system* is hereby amended to read: Classification of areas, engineering and design, selection of equipment and wiring methods shall be performed by a Registered Professional Engineer with expertise in Hazardous (Classified) Locations and Zone Systems. The installation of equipment and wiring methods, and inspections shall be performed by qualified persons.

506.6(A), Implementation of zone classification system is hereby amended to read: Classification of areas, engineering and design, selection of equipment and wiring methods, shall be performed by a Registered Professional Engineer with expertise in Hazardous (Classified) Locations and Zone Systems. The installation of equipment and wiring methods and inspection shall be performed by qualified persons.

**SECTION 9:** That the Stillwater City Code, Chapter 20, Fire Prevention and Protection, Article III. Fire Prevention Code, Sections 20-49, Adopted by reference, and 20-50, Deletions, modifications, amendments and insertions, be repealed and amended to read as follows:

### ARTICLE III. FIRE PREVENTION CODE

#### Sec. 20-49. Adopted by reference.

(a) here is hereby adopted by reference, that certain code referred to as the International Fire Code, 2003 9 edition, as published by the International Codes Council, Inc., for the establishment of minimum requirements and controls to safeguard life, property or public welfare from the hazards of fire and explosion arising from the storage, handling or use of substances, materials or devices and from conditions hazardous to life, property or public welfare in the use or occupancy of all buildings and structures. Each and all of the standards, regulations and requirements, save and except such portions as are hereinafter deleted, amended or modified, as set out and specified in the International Fire Code, 2003 9 edition, including appendix chapters B, D, E, F and G are hereby adopted, referred to, incorporated and made a part hereof as if fully set out at length herein.

(b) Not less than one copy of the said International Fire Code, 2003 9 edition, shall be on file in the office of the city clerk and open for public inspection during office hours.

(c) In the event any provision of this article and/or any provision of the International Fire Code, 2003 9 edition, conflicts with or is inconsistent in any manner with any section of this Code, or other codes adopted by reference therein, or parts thereof, the provisions of this article and the International Fire Code, 2003 9 edition, shall supersede and take precedence over such portions in conflict or inconsistent therewith, except in the following circumstances:

(1) If this article and/or any provision of the International Fire Code, 2003 9 edition, conflicts with or is inconsistent in any manner with chapter 23, land development code, chapter 23, shall supersede and take precedence over such portions in conflict or inconsistent therewith;

(2) A further exception shall be where any section of this Code shall specifically state that it shall supersede and take precedence in the event of a conflict or inconsistency with the International Fire Code, 2003 9 edition, as adopted or modified by this Code.

(d) Any person, firm or corporation shall have the right to appeal to the building trades board, created in section 10-21, an order, decision or determination of the fire marshal, deputy fire marshal or fire code official of a notice or order issued under this code. An application for appeal shall be based on a claim that the true intent of the code, or the rules legally adopted thereunder, has been incorrectly interpreted, or the provisions of the code do not fully apply, or evidence that an equally good or better form of construction is proposed.

#### Sec. 20-50. Deletions, modifications, amendments and insertions.

The International Fire Code, 2003 9 edition is hereby amended in the following aspects:

**101.1. Title**, is hereby amended by inserting the words "the City of Stillwater, Oklahoma" for and in exchange of the words "name of jurisdiction."

**103.1, General**, is hereby deleted in its entirety and replaced with:

103.1 Creation of building safety division. The building safety division of the development services department is hereby created, and the official in charge thereof shall be known as the building official. Wherever fire code official is referenced in this code, it shall mean the building official.

**103.2, Appointment**. The following shall be inserted into the end of this paragraph: The chief appointing authority of the jurisdiction shall be the city manager.

103.3, *Deputies*, is hereby repealed and replaced to read:

The city manager shall appoint all employees within the building safety division and such employees shall have the powers as established by the city manager and/or as delegated by the building official.

104.1, *General*, is hereby repealed and replaced to read:

The building official is hereby authorized to enforce the provisions of this code. The building official shall have the authority and responsibility to identify and assess local conditions and prevailing building practices, to render interpretations of this code, and establish procedures to clarify the practical application of its provisions. Such interpretations and procedures shall be consistent with the intent of this code as it pertains to local conditions.

104.8, *Modifications*, is hereby repealed and replaced to read:

Literal compliance: Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to accept alternative or equivalent methods, processes, or materials in individual cases, upon application of the owner or owner's representative, provided the building official shall first find that existing circumstances make application of the strict letter of this code impractical and acceptance of an alternative or equivalent method, process, or material is consistent with the intent and purpose of this code and does not lessen health, accessibility, life or safety, or structural standards.

104.9, *Alternative materials, design and methods of construction and equipment*, is hereby repealed and replaced to read:

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and consistent with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

105.1.1, *Permits required*, is hereby amended to read:

~~The building official may implement formal written permitting for any process or activity defined in section 105. In the event no formal permit is required by the building official, operations or facilities shall be allowed to operate under an "Implied Permit Status." Implied permit status means, the operation or facility has met all of the provisions in the fire code and has the approval of the building official to operate or conduct the activity. The implied permit status may be revoked under section 105.5 Revocation. Permit fees for formal permitting, if any, shall be paid prior to issuance of the permit. Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the building official.~~

105.6, *Required operational permits*, is hereby amended by adding paragraphs 105.6.48, 105.6.49 and 105.6.50 to read:

~~"105.6.48, An operational permit is required for fire alarm monitoring companies."~~

~~"105.6.49, An operational permit is required for fire alarm installation and service companies."~~

~~105.6.50, An operational permit is required for fire suppression installation and service companies."~~

The fire code official is authorized to issue operational permits for the operations set forth in Sections 105.47 through 105.48. An operational permit shall not be required for the operations identified in sections 105.6.1 through 105.6.46.

105.6.47, *Fire Alarm Systems* is hereby added to read:

An operational permit is required for the maintenance and repair of fire alarm systems

105.6.48, *Fire Suppression Systems* is hereby added to read:

An operational permit is required for the maintenance and repair of fire suppression systems

105.7, *Required construction permits* is hereby amended to read:

The fire code official is authorized to issue construction permits for work as set forth in Sections 105.7.1, 105.7.5, 105.7.6 and 105.7.13. A construction permit shall not be

required for the construction work identified in sections 105.7.2 through 105.7.4, 105.7.7 through 105.7.12 and 105.7.14.

*Section 108, Board of Appeals*, is deleted in its entirety and replaced with the following:

The Building Trades Board shall hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code.

*109.3, Violation penalties*, is hereby amended to read:

Any person, firm or corporation who shall violate any provision of this code shall be guilty of a misdemeanor and upon conviction thereof, shall be punished as a class C offense. Each day upon which a violation continues shall be deemed a separate offense.

202, General Definitions, Occupancy Classification, Residential Group R is hereby amended to read:

Residential Group R includes, among others, the use of a building or structure, or a portion thereof, for sleeping purposes when not classified as an Institutional Group I or when not regulated by the International Residential Code in accordance with Section 101.2. Residential occupancies shall include the following:

R-1 Residential occupancies containing sleeping units where the occupants are primarily transient in nature including:

- Boarding houses (transient),
- Hotels (transient),
- Motels (transient),
- Congregate living facilities (transient)

Congregate living facilities with 10 or fewer occupants are permitted to comply with the construction requirements for Group R-3, except as otherwise provided for in this code, or shall comply with the International Residential Code®, provided the building is protected by an automatic sprinkler system installed in accordance with Section 903.2.8.

R-2 Residential occupancies containing sleeping units or more than two dwelling units where the occupants are primarily permanent in nature including:

- Apartment houses,
- Boarding houses (non-transient),
- Convents,
- Dormitories,
- Fraternities and sororities,
- Hotels (non-transient),
- Live/work units,
- Monasteries,
- Motels (non-transient),
- Vacation time share properties
- Congregate living facilities

Congregate living facilities with 16 or fewer occupants are permitted to comply with the construction requirements for Group R-3, except as provided for in this code, or shall comply with the International Residential Code®, provided the building is protected by an automatic sprinkler system installed in accordance with Section 903.2.8.

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

- Buildings that do not contain more than two *dwelling units*.
- Adult care facilities that provide accommodations for five or fewer persons of any age for less than 24 hours.
- Child care facilities that provide accommodations for five or fewer persons of any age for less than 24 hours.
- Congregate living facilities with 16 or fewer persons.

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

R-4 Residential occupancies shall include buildings arranged for occupancy as residential care/assisted living facilities including more than five but not more than 16 occupants, excluding staff.

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3, except as otherwise provided for in this code or shall comply with the International Residential Code provided the building is protected by an automatic sprinkler system installed in accordance with Section 903.2.8.

*Section 307, Open burning and recreational fires*, is hereby deleted in its entirety and replaced with the following:  
Open burning and recreational fires shall comply with Article VI, sections 20-133 through 20-141, inclusive, of the Stillwater City Code.

503.2.3, Surface is hereby amended to read:

Fire apparatus access roads shall be designed of an all weather surface capable of supporting and sufficiently conveying and maintained to support the imposed loads of a 70,000 lb. fire apparatus, and shall be surfaced so as to provide all weather driving capabilities. The design shall be based on the geotechnical investigation of the site.

503.2.4, Turning Radius is hereby amended to read:

The required turning radius of a fire apparatus access road shall be determined by the fire code official. Fire apparatus access roads shall have an inner turning radius of not less than 35 feet, and an exterior turning radius of not less than 55 feet, or shall have a design approved by the fire code official as functionally equivalent.

503.2.5, Deadends, is hereby amended to read:

Dead-end fire apparatus access roads in excess of 150 feet (45720 mm) in length measured from back of curb of the intersecting street shall be provided with an approved turn around area consisting of a 60-foot hammerhead or cul-de-sac pursuant to Stillwater City Code ~~section 23-86~~(14) for turning around fire apparatus. comply with the requirements of Appendix D.

506.1, Where required is hereby amended to read:

Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire fighting purposes, the code official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type and shall contain keys to gain necessary access as required by the fire code official. All buildings or structures equipped with a fire alarm or fire suppression system shall provide a fire department key box on the exterior of the building or structure. The box shall contain keys to allow fire department entry in the event of fire alarm activation.

508.1.3, Size is hereby amended to read:

The fire command center shall be a minimum of 200 square feet (19 square meters) in area with a minimum dimension of 10 feet (3048 mm). Exception: When approved by the fire code official the fire command center can be reduced in size to not less than a minimum of 96 square feet (9 square meters) with a minimum dimension of 8 feet (2438 mm).

604.5, Supervision of maintenance and testing is hereby amended to read:

Emergency lighting equipment. Emergency lighting shall be inspected and tested in accordance with Sections 604.5.1 through 604.5.2.1

604.5.1 Activation test. An activation test of emergency lighting equipment shall be completed monthly. The activation test shall ensure the emergency lighting activates automatically upon normal electrical disconnect and stays sufficiently illuminated for a minimum of 30 seconds.

604.5.1.1 Activation test record. Records shall be maintained on the premises for a minimum of three years and submitted to the fire code official upon request.

The record shall include the location of the emergency lighting tested, whether the unit passed or failed, the date of the test, and the person completing the test.

604.5.2 Power test. For battery powered emergency lighting, a power test of the emergency lighting equipment shall be completed annually. The power test shall operate the emergency lighting for a minimum of 90 minutes and shall remain sufficiently illuminated for the duration of the test.

604.5.2.1 Power test record. Records shall be maintained on the premises for a minimum of three years and submitted to the fire code official upon request. The record shall include the location of the emergency lighting tested, whether the unit passed or failed, the date of the test, and the person completing the test.

604.6, Supervision of maintenance and testing is hereby added to read:

Routine maintenance, inspection and operational testing shall be overseen by a properly instructed individual.

901.4.5, Pump and riser room size is hereby added to read:

Fire pump and automatic sprinkler system riser rooms shall be designed with adequate space for all equipment necessary for the installation, as defined by the manufacturer, with sufficient working space around the stationary equipment. Clearances around equipment to elements of permanent construction, including other installed equipment and appliances, shall be sufficient to allow inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire resistance-rated assembly. Fire pump and automatic sprinkler riser rooms shall be provided with a door(s) and unobstructed passageway large enough to allow removal of the largest piece of equipment.

903.2.7, Group M, is hereby amended to read:

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

1. A Group M fire area exceeds 12,000 square feet (1,115 m<sup>2</sup>).
2. A Group M fire area is located more than three stories above grade plane.
3. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2,230 m<sup>2</sup>).
4. A Group M occupancy where the cumulative area used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet (464 square meters).

906.1, Where required is hereby amended to read:

Portable fire extinguishers shall be installed in the following locations:

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

Exception: In Group R-2 occupancies where each dwelling unit is provided with a portable fire extinguisher having a minimum rating of 1-A:10-b:C.

(B) Within 30 feet (9144 mm) of commercial cooking equipment.

(C) In areas where flammable or combustible liquids are stored, used or dispensed.

(D) On each floor of structures under construction, except Group R-3 occupancies, in accordance with Section 1415.1.

(E) Where required by the section indicated in Table 906.1.

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

1005.1, Minimum required egress width is hereby amended to read as follows:

The means of egress width shall not be less than required by this section. The total width of means of egress in inches (mm) shall not be less than the total occupant load served by the means of egress multiplied by 0.3 inches (7.62 mm) per occupant for stairways and by 0.2 inches (5.08 mm) per occupant for other egress components. The width shall not be less than specified elsewhere in this code. Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the availability capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress.

Exceptions:

(A) Means of egress complying with Section 1028.

(B) For other than H and I-2 occupancies, the capacity, in inches (mm), means of egress stairways shall be calculated multiplying the occupant load served by a stairway by a means of egress capacity factor of 0.2 inches (5.08 mm) per occupant in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.1.1 or 903.1.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2.2

(C) For other than H and I-2 occupancies, the capacity, in inches (mm), means of egress components other than stairways shall be calculated multiplying the occupant load served by such component by a means of egress capacity factor of 0.15 inches (3.81 mm) per occupant in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.1.1 or 903.1.2 and an emergency voice/alarm communication system in accordance with Section 907.5.2.2.

1008.1.8.3, Locks and latches, is hereby amended by the addition of a new last paragraph to read:

Egress doors shall be maintained to be readily openable from the egress side without the use of a key or special knowledge or effort and free from all obstructions, including locks bolts, padlocks, hasps, bars, chains or other devices or combination thereof.

3301.1.3, Fireworks, is hereby amended to read:

The possession, manufacture, storage, sale, handling and use of fireworks are prohibited, except the use of fireworks for display as permitted in section 3308.

3305, *Manufacture, assembly and testing of explosives, explosive materials and fireworks*, is hereby deleted in its entirety and replaced with the following:  
3305 Manufacture, assembly and testing of explosives, explosive materials and fireworks

*3305.1 General:* The manufacture, assembly and testing by detonation of explosives, ammunition, blasting agents and fireworks shall be prohibited.

Exceptions:

- (1) The hand loading of small arms ammunition prepared for personal use and not offered for resale.
- (2) The use of binary explosives or phosphoric materials in blasting or pyrotechnic special effects applications in accordance with NFPA 495 or NFPA 1126."

4601.1. Scope is hereby amended to read:

The provisions of this chapter shall apply to existing buildings constructed prior to the adoption of this code. Exception: Buildings or portions of a building that comply with the latest edition of the International Existing Building Code® or the edition that was adopted at the time a remodel occurred.

4603.3.2. Three to five stories is hereby amended to read:

In other than Group I occupancies, interior vertical openings connecting three to five stories shall be protected by either 1-hour fire-resistant-rated construction or an automatic sprinkler system shall be installed throughout the building in accordance with Section 903.3.1.1 or 903.3.1.2. Exceptions:

- (A) Vertical opening protection is not required for Group R-3 occupancies.
- (B) Vertical opening protection is not required for open parking garages and ramps.
- (C) Vertical opening protection for escalators shall be in accordance with Section 4603.3.5, 4603.3.6 or 4603.3.7.
- (D) Vertical openings that comply with the requirements of Section 703.2.1 of the International Existing Building Code®.

4604.18.2. Dead ends is hereby amended to read:

Where more than one exit or exit access doorway is required, the exit access shall be arranged such that dead ends do not exceed the limits specified in Table 4604.18.2.

Exceptions:

- (A) A dead-end passageway or corridor shall not be limited in length where the length of the dead-end passageway or corridor is less than 2.5 time the least width of the dead-end passageway or corridor.
- (B) Dead ends that comply with the requirements of Section 705.6 of the International Existing Building Code®.

*Appendix B, B105.1 One- and two-family dwellings*, is deleted in its entirety and replaced with the following:

The fire flow requirements for one- and two-family dwellings shall be 1,000 gallons per minute for those dwellings that are located on lots that are part of a final plat application that is submitted to the city after September 1, 2005. For all other one- and two-family dwellings, the fire flow requirements shall be 500 gallons per minute.

*Appendix B, B-105.2 Buildings other than one-and two- family dwellings* is hereby amended to read:

~~For all uses other than one- and two- family, the fire flow requirements stated herein shall apply to all buildings that are located within a project for which a final plat, final development plan or final PUD application is submitted to the city after September 1, 2005. For those buildings that are located within a project in which a complete final plat, final development plan or final PUD application has been accepted by the city prior to September 1, 2005, the fire flow requirements shall be 1,000 gallons per minute.~~

The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings shall be as specified in Table B105.1.

Exceptions:

1. A reduction in required fire-flow of up to 75 percent, as *approved*, is allowed when the building is provided with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2. The resulting fire-flow shall not be less than 1,500 gallons per minute (5678 L/min) for the prescribed duration as specified in Table B105.1.
2. For those buildings that are located on a lot for which a final plat, final development plan or final PUD application was accepted by the city prior to September 1, 2005, the fire flow requirement shall be 1,000 gallons per minute.

Appendix D, D103.4 Dead ends is hereby amended to read:

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

Exception: Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) located within one- and two- family residential subdivisions shall be provided with cul-de-sacs having a minimum radius of 50 feet at the property line or 40 feet at the curblineline or shall have a minimum 80 foot hammerhead.

PASSED, APPROVED AND ADOPTED THIS 6th DAY OF SEPTEMBER, 2012.

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JOHN W. BARTLEY, MAYOR

(SEAL)  
ATTEST:

\_\_\_\_\_  
MARCY ALEXANDER, CITY CLERK

APPROVED AS TO FORM AND LEGALITY THIS 6TH DAY OF SEPTEMBER,  
2012.

\_\_\_\_\_  
JOHN E. DORMAN, CITY ATTORNEY

First Reading: 8-20-12  
Second Reading: 9-6-12