

BUILDING CONSTRUCTION AND HOUSING STANDARDS

Chapter 65

BUILDING CONSTRUCTION AND HOUSING STANDARDS

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- § 65-13. **Unlawful Acts and Penalties.**

[HISTORY: Adopted by the Mayor and Town Council of the Town of Frisco 03-17-92, Ord. 92-04.¹ Amendments noted where applicable. Repealed and replaced 04-14-98, Ord. 98-06; Amended 09-05-00, Ord. 00-12; 04-17-01, Ord. 01-05; 1-8-02, Ord. 01-19; 05-07-02, Ord. 02-11; 02-18-03, Ord. 03-02; Repealed and replaced 03-23-04, Ord. 04-05; Amended 02-28-06, 06-07; Repealed and replaced 03-25-08, Ord. 08-02; Amended 01-13-09, Ord. 08-19; 05-24-11, Ord. 11-06; Repealed and replaced 11-12-13, Ord. 13-08; Repealed and replaced 11-26-19, Ord. 19-22; Amended 04-14-20, Ord. 20-04]

GENERAL REFERENCES

- Codes Adopted by Ordinance -See Ch.31, Art. I.
- Flood Hazard Areas - See Ch. 97.
- Subdivision of Land - See Ch.157.
- Zoning - See Ch.180.

§65-1. Standards adopted by reference. [Amended 04-14-20, Ord. 20-04]

Pursuant to Title 31, Article 16, Part 2, Colorado Revised Statutes, as amended, there is hereby adopted as the Town of Frisco Building Construction and Housing Standards:

- A. *The International Building Code*, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the “*International Building Code*”), all to have the same force

¹Editor’s Note: This ordinance also repealed former Ch. 65, Building Construction and Housing Standards, adopted 05-16-89, Ord. 89-17.

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and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the construction and maintenance of buildings and structures and is adopted for the purpose of protecting the public health, safety and general welfare;

- B. *The International Residential Code*, including Appendix Chapters F and K, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the "*International Residential Code*"), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the construction, alteration, repair, use and occupancy, location and sustainability of detached one- and two-family dwellings and multiple single-family dwellings and is adopted for the purpose of protecting the public health, safety and general welfare;
- C. *The International Fire Code*, including Appendix Chapters B, C, D, E, F, G, H, I, J, K, N, and amended Appendix Chapters O and P, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the "*International Fire Code*"), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards for the construction and maintenance of buildings and structures and is adopted for the purpose of protecting the public health, safety and general welfare;
- D. *The National Electrical Code*, 2017 Edition, August 24, 2016 Edition, published by the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts 02169-7471 (the "*National Electrical Code*"), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards for the construction and maintenance of electrical improvements and facilities and is adopted for the purpose of protecting the public health, safety and general welfare;
- E. *The International Code Council Electrical Code Administrative Provisions*, 2006 Edition, First Printing: January 2006, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the "*International Code Council Electrical Code Administrative Provisions*"), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions governing the administration of the National Electrical Code and is adopted for the purposes of protecting the public health, safety and general welfare;
- F. *The International Mechanical Code*, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the "*International Mechanical Code*"), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the design, installation, maintenance, alteration, and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within buildings and is adopted for the purposes of protecting the public health, safety and general welfare;

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- G. *The International Plumbing Code*, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the “*International Plumbing Code*”), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the design, installation, quality of materials, location, operation, and maintenance of plumbing systems that are permanently installed within buildings and is adopted for the purposes of protecting the public health, safety and general welfare;
- H. *The International Fuel Gas Code*, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the “*International Fuel Gas Code*”), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the installation of fuel gas piping systems, fuel gas utilization equipment, and related accessories and is adopted for the purpose of protecting the public health, safety and general welfare;
- I. *The International Energy Conservation Code*, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the “*International Energy Conservation Code*”), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the design and construction of building envelopes and mechanical, electrical, service-water heating and illuminating systems and equipment and is adopted for the purposes of protecting the public health, safety and general welfare and for promoting the efficient use of energy in buildings;
- J. *The International Existing Building Code*, 2018 Edition, First Printing: August 2017, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the “*International Existing Building Code*”), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards for change of occupancy, alteration or repair of existing buildings and structures and is adopted for the purpose of protecting the public health, safety and general welfare and to encourage the continued use or reuse of legally existing buildings and structures;
- K. *The International Swimming Pool and Spa Code*, 2018 Edition, Second Printing: May 2018, published by the International Code Council, Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795 (the “*International Swimming Pool and Spa Code*”), all to have the same force and effect as if set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards regulating the design, installation, maintenance, alteration, and inspection of swimming pools and spas that are permanently installed and is adopted for the purposes of protecting the public health, safety and general welfare;
- L. *The Uniform Code for the Abatement of Dangerous Buildings*, 1997 Edition, First Printing: March 1997, published by the International Conference of Building Officials, 5360 Workman Mill Road, Whittier, CA 90601-2298 (the “*Uniform Code for the Abatement of Dangerous Buildings*”), all to have the same force and effect as if

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set forth herein in every particular. The subject matter of the adopted code includes comprehensive provisions and standards providing a just, equitable, and practical method whereby buildings or structures which from any cause endanger the life, limb, health, property, safety or welfare of the general public or their occupants may be required to be repaired, vacated, or demolished and is adopted for the purpose of protecting the public health, safety and general welfare;

§65-2. Amendments to the *International Building Code*.

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Building Code* of the Town of Frisco, hereinafter referred to as “this code.”

- (2) Section 101.4.3 is amended to read as follows:

101.4.3 Plumbing. The provisions of the *International Plumbing Code* shall apply to the installation, *alteration*, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system.

- (3) Section **101.4.4 Property maintenance.** is deleted in its entirety.

- (4) Section 102.6 is amended to read as follows:

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the *International Existing Building Code* or the *International Fire Code*.

- (5) Section 103.3 is amended to read as follows:

103.3 Deputies. In accordance with the prescribed procedures of this jurisdiction, the *building official* shall have the authority to appoint a deputy building official, the related technical officers, inspectors, plan examiners and other employees. Such employees shall have powers as delegated by the *building official*.

- (6) Section 104.8 is amended to read as follows:

104.8 Liability. The adoption of the construction codes, and any previous Building Construction and Housing Standards adopted by the Town of Frisco, shall not be deemed to give rise to a duty of care on the part of any public entity, public employee, or agent nor shall the construction codes or any previous Building Construction and Housing Standards be deemed to create any civil remedy against a public entity, public employee, or agent. The *building official*, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be civilly or criminally rendered liable personally and is hereby relieved from personal liability for any damage accruing to persons or property as a result of any act or by reason of an act or omission in the discharge of official duties.

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- (7) Section 105.1 is amended to read as follows:

105.1 Required. Any *owner* or owner's authorized agent who intends to construct, enlarge, alter, *repair*, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, *repair*, remove, convert or replace any electrical, gas, mechanical, plumbing or conveying system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the *building official* and obtain the required *permit*. Separate building, electrical, mechanical, plumbing, and elevator permits are required for projects including work affecting these different systems.

- (8) Section **105.1.1 Annual permit.** is deleted in its entirety.

- (9) Section **105.1.2 Annual permit records.** is deleted in its entirety.

- (10) Section 107.1 is amended to read as follows:

107.1 General. Submittal documents consisting of *construction documents*, statement of *special inspections*, geotechnical report and other data shall be submitted in one or more sets with each *permit* application. The *construction documents* shall be prepared by a *registered design professional* where required by the statutes of the jurisdiction in which the project is to be constructed. Where special conditions exist, the *building official* is authorized to require additional *construction documents* to be prepared by a *registered design professional*.

- (11) Section 107.2.1 is amended to read as follows:

107.2.1 Information on construction documents. *Construction documents* shall be dimensioned and drawn upon suitable material. Electronic media documents are permitted to be submitted when *approved* by the *building official*. *Construction documents* shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official*. Construction documents for buildings other than Group R, Division 3, and Group U Occupancies shall indicate where penetrations will be made for electrical, mechanical, plumbing, communication conduits, and similar systems, and the materials and methods for maintaining required structural safety, fire-resistance rating and fireblocking.

- (12) Section 107.3.1 is amended to read as follows:

107.3.1 Approval of construction documents. When the *building official* issues a *permit*, the *construction documents* shall be *approved*, in writing or by stamp, -as "Issued For Permit." One set of *construction documents* so reviewed shall be retained by the *building official*. The other set shall be returned to the applicant, shall be kept at the site of work and shall be open to inspection by the *building official* or a duly authorized representative.

- (13) Section 109.2 is amended to read as follows:

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109.2 Schedule of permit fees. On buildings, structures, electrical, gas, mechanical, and plumbing systems or *alterations* requiring a *permit*, a fee for each *permit* shall be paid as required, in accordance with §65-13 Construction Permit Fee Schedule, of the Code of Ordinances of the Town of Frisco, Colorado.

(14) Section 109.3 is amended to read as follows:

109.3 Construction work valuation. The applicant for a *permit* shall provide an estimated construction work valuation at the time of application. Construction work valuation shall include the total value of all construction work, including materials and labor, for which the *permit* is being issued, as well as all finish work, painting, roofing, electrical, plumbing, heating, air conditioning, elevators, fire protection systems and any other permanent equipment. Electrical, gas, mechanical, plumbing and elevator construction work valuations shall include the total value, of the work, including materials, labor and permanent equipment, for which the permit is being issued. If, in the opinion of the *building official*, the valuation is underestimated on the application, the *permit* shall be denied, unless the applicant can show detailed estimates to meet the approval of the *building official*. Final construction work valuation shall be set by the *building official*.

Building permit valuation set by the building official for projects without accurate total valuation by the applicant will be determined using the Building Valuation Data table published semiannually by the International Code Council and a regional modifier as adopted herein. Said regional modifier is used to multiply the listed valuation per square foot in the Building Valuation Data table to establish the valuation per square foot for the Town of Frisco, Colorado. The building permit fee for building valuation calculated using the Building Valuation Data table shall be based using the Permit Fee Multiplier methodology published by the International Code Council. A regional modifier of 1.30 is hereby created for use in conjunction with data from the Building Valuation Data Table for each permit.

Mechanical, plumbing, and electrical valuations set by the building official shall be ten percent of the building permit valuation for each separate technical permit.

(15) Section 109.4 is amended to read as follows:

109.4 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary *permits*, or proceeds with work beyond the scope of work authorized by any permit, including a conditional permit, shall be subject to an investigation fee that shall be in addition to the required *permit* fees. The investigation fee shall be equal to the permit fee for the unauthorized work as determined in accordance with Section 109.3 of this code and in accordance with §65-13 Construction Permit Fee Schedule, of the Code of Ordinances of the Town of Frisco, Colorado. The investigation fee shall be collected whether or not a permit is then or subsequently issued. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.

(16) Section 109.6 is amended to read as follows:

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109.6 Refunds. The *building official* may authorize refunding of any fee paid hereunder that was erroneously paid or collected. The building official may authorize refunding of not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with the adopted codes, and the original permit holder has requested termination of the permit. The building official may authorize refunding of not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan reviewing is done. The building official shall not authorize refunding of any fee paid except on written application filed by the original permit holder not later than 180 days after the date of fee payment.

- (17) Section 109 is amended by adding a new sub-section to read as follows:

109.7 Reinspection Fee. A reinspection fee, as specified in §65-13 Construction Permit Fee Schedule, of the Code of Ordinances of the Town of Frisco, Colorado, may be assessed for each inspection (Section 110) or reinspection when such portion of work for which inspection is called is not complete, or when corrections called for are not made. Reinspection fees shall be paid physically in person to the office of the Department of Building Safety. Reinspection fees may also be assessed when the inspection record card (Section 110.6.1) is not posted or otherwise available on the work site, the approved plans (Section 107.3.1) are not readily available to the inspector, for failing to provide access on the date for which the inspection is requested (Section 110.5), or for deviating from plans requiring the approval of the building official (Section 107.4). In instances where reinspection fees have been assessed, no additional inspection of the work will be performed until the reinspection fees have been paid.

- (18) Section 110.5 is amended to read as follows:

110.5 Inspection requests. It shall be the duty of the holder of the ~~building permit~~ or their duly authorized agent to notify the *building official* when work is ready for inspection. All inspection requests shall be filed with the building department at least one working day before such inspection is desired. It shall be the duty of the *permit* holder to provide access to and means for inspections of such work that are required by this code.

- (19) Section 110.6 is amended by adding a new subsection to read as follows:

110.6.1 Inspection Record card. An inspection record card shall be issued to the holder of a building permit or an agent of the permit holder such as to allow the building official to readily make the required inspection entries thereon regarding the inspection of work. Work requiring a building permit shall not be commenced until the building permit holder or an agent of the permit holder shall have posted or otherwise made available the inspection record card issued by the building official. The building permit holder shall keep this inspection record card available until final approval has been granted by the building official.

- (20) Section 111.2 is amended by adding a new subsection to read as follows:

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111.2.1 Certificate of Completion. At the discretion of the building official, a certificate of completion may be issued for minor work, remodels, alterations or repairs where a certificate of occupancy was previously issued. In cases where a certificate of occupancy is required by Section 111.2, issuance of a certificate of completion shall not be construed as a substitute for said certificate of occupancy.

- (21) Section 111.3 is amended to read as follows:

111.3 Temporary occupancy. Temporary certificates of occupancy are prohibited and shall not be issued.

- (22) Section 114.4 is amended to read as follows:

114.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the *approved construction documents* or directive of the *building official*, or of a *permit* or certificate issued under the provisions of this code, shall be subject to penalties as prescribed in §65-14 Unlawful Acts and Penalties, of the Code of Ordinances of the Town of Frisco, Colorado.

- (23) Section 116.1 is amended to read as follows:

116.1 Conditions. Structures or existing equipment that are or hereafter become unsafe, insanitary or deficient because of inadequate *means of egress* facilities, inadequate light and ventilation, or which constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. Unsafe structures shall be taken down and removed or made safe, as the *building official* deems necessary and as provided for in the adopted *Uniform Code for the Abatement of Dangerous Buildings*. A vacant structure that is not secured against entry shall be deemed unsafe.

- (24) Section **116.2 Record.** is deleted in its entirety.

- (25) Section **116.3 Notice.** is deleted in its entirety.

- (26) Section **116.4 Method of service.** is deleted in its entirety.

- (27) Section 202 is amended by inserting the following definitions within the alphabetical order of the existing definitions.

BEDROOM. A sleeping room as defined in Section 202.

FIRE DEPARTMENT. The chief officer of Summit Fire and EMS Authority or the chief officer's authorized representative.

LOFT. A story in a dwelling unit in a building that is open to the room or space directly below, which may or may not qualify as a mezzanine. Lofts may be either habitable space or nonhabitable space. Habitable lofts in residential occupancies

shall be designated as sleeping rooms and shall comply with the provisions of Sections 907.2.10, 915, 1001.1, and 1030.

SLEEPING ROOM. A habitable space or room in a dwelling unit, or in any building, or portion thereof, classified as any group R occupancy, designed for or with potential for use as a room for sleeping by occupants. Factors determining this potential use shall include a space or room having walls, floors, and/or doors to separate it from other habitable spaces or rooms and a floor area of at least 70 square feet with any of the following factors:

1. Having a closet or similar provision for clothes storage, or
2. Having a full or partial bathroom directly connected to the space or room or on the same floor and accessible without passing through a closed room, or
3. Meeting the definition of habitable loft or mezzanine.

(28) Section 502.1 is amended to read as follows:

502.1 Address identification. New and existing buildings shall be provided with *approved* address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 5 inches (127 mm) high, unless otherwise approved, with a minimum stroke width of 1/2 inch (12.7 mm). Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other approved sign or means shall be used to identify the structure. Address identification shall be maintained.

(29) Section 718.2.5.1 is amended by adding two new subsections to read as follows:

718.2.5.1.1 Factory-built fireplace enclosures. Combustible construction enclosing factory-built fireplaces shall be protected on the interior (fireplace) side by not less than 5/8-inch Type X gypsum wallboard.

718.2.5.1.2 Factory-built chimney enclosures. Factory-built chimneys shall be enclosed within a continuous enclosure protected on the interior (flue) by not less than 5/8-inch Type X gypsum wallboard.

Exception: The portion of the chimney located in the same room as the appliance and the portion of the chimney above the finished roof deck are not required to be enclosed.

(30) Section 901.1 Scope. Is amended to read as follows:

901.1 Scope. The provisions of this chapter and the *International Fire Code* shall specify where fire protection and life safety systems are required and shall apply to the design, installation and operation of *fire protection systems*. Where, in any

specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern.

- (31) Section 901.5 is amended by adding a new subsection to read as follows:

901.5.1 Special inspector required. All fire protection systems required by this code shall be inspected and approved by a special inspector. The special inspector shall be an authorized representative of the *fire department* or another qualified individual with prior approval of the building official. Approvals of special inspectors and inspections, approvals and reports by special inspectors shall be in accordance with Chapter 17 of this code.

- (32) **Section 1010.1.9.4 Locks and latches.** Condition 2.2 is amended to read as follows:

2.2. A readily visible, durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS. The sign shall be in letters 1 inch (25 mm) high on a contrasting background.

- (33) **Section 1015.3 Height.** Is amended by adding a new subsection to read as follows:

1015.3.1 Guard height extension. When a *swimming pool* is installed within 18 inches horizontally of a guard required by Section 1015.2, the guard height shall be increased a minimum of 18 inches measured vertically from the highest horizontal surface of the pool structure.

- (34) Section 1106 is deleted in its entirety and replaced with a new section to read as follows:

SECTION 1106 PARKING AND PASSENGERLOADING FACILITIES

1106.1 Required. Where parking is provided, accessible parking spaces shall be provided in compliance with the applicable parking provisions of Chapter 180 of the Code of the Town of Frisco, Colorado as enforced by the Frisco Community Development Department.

- (35) Section 1503 is amended by adding a new subsection to read as follows:

1503.6 Snow-shedding. Roofs shall be oriented and positioned, or otherwise arranged and designed, to prevent snow and ice from shedding and accumulating at pedestrian and vehicular exit doors or onto adjacent properties. In addition, roofs shall not shed snow onto any components of a required means of egress system or required accessible route, including, but not limited to stairways, sidewalks, landings, ramps and handrails.

Exceptions:

1. Roof areas with a horizontal projection dimension of no more than 48 inches that will not receive snow shedding from a higher roof.
2. Roof areas sloped less than 7:12 with asphalt or wood coverings that will not receive snow shedding from a higher roof.

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3. Roofs equipped with mechanical barriers secured to roof framing members or to solid blocking secured to framing members, in accordance with the manufacturer's installation instructions. Individual devices installed in a group to create a barrier to prevent snow shedding shall be installed in at least two rows,

(36) Section 1505.1 is amended to read as follows:

1505.1 General. Roof assemblies shall be divided into the classes defined in this section. Class A, and B and C roof assemblies and roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790. In addition, *fire-retardant-treated wood* roof coverings shall be tested in accordance with ASTM D 2898. The minimum roof coverings installed on buildings shall be Class B.

(37) **Table 1505.1 Minimum Roof Covering Classification for Types of Construction**, and all footnotes to the table, are deleted in their entirety.

(38) Section 1507.1.2 is deleted in its entirety and replaced with a new section to read as follows:

1507.1.2 Ice Barriers. An ice dam protection underlayment that consists of an approved self-adhering polymer modified bitumen sheet complying with ASTM D1970 shall be used with all roof coverings described in Sections 1507.2 through 1507.9. This ice dam protection shall extend up the slope of the roof from the eave a minimum of 8 feet 6 inches inside the exterior wall line of the building and shall also extend a minimum of 3 feet up any wall, valley, cricket, chimney or similar construction junction with roofs.

Exception: Detached accessory structures that contain no conditioned floor area.

(39) Section 1608.2 is amended to read as follows:

1608.2 Ground snow loads. The ground snow loads to be used in determining the design snow loads for roofs, exterior balconies and decks shall be 80 lb./sq ft (3.83 kN/m²). The use of load duration factors for snow load shall not be permitted.

(40) Section 1611.1 is amended to read as follows:

1611.1 Design rain loads. 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 the 100-year hourly rainfall rate of two (2) inches (50.8 mm) per hour.

(41) Section 1612.3 is amended to read as follows:

1612.3 Establishment of flood hazard areas. To establish *flood hazard areas*, the applicable governing authority shall adopt a flood hazard map and supporting data. The flood hazard map shall include, at a minimum, areas of special flood

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hazard as identified by the Federal Emergency Management Agency in an engineering report entitled "The Flood Insurance Study for the Town of Frisco, Summit County, Colorado" dated November 16, 2018, as amended or revised with the accompanying Flood Insurance Rate Map (FIRM) and Flood Boundary and Floodway Map (FBFM) and related supporting data along with any revisions thereto. The adopted flood hazard map and supporting data are hereby adopted by reference and declared to be part of this section.

- (42) Section 1703.1 is amended to read as follows:

1703.1 Approved agency. An approved agency shall provide all information as necessary for the *building official* to determine that the agency meets the applicable requirements specified in Sections 1703.1.1 through 1703.1.3. The *fire department* shall be an approved agency for special inspection of fire protection systems required by this code.

- (43) Section **1704.2.4 Report requirement.** is amended by adding an exception to read as follows:

Exception: Special inspection by the *fire department* of fire protection systems shall not require reporting or a final report to the *building official*, but will require a final sign-off approving inspected systems for conformance to the approved construction documents.

- (44) Section 1705 is amended by adding a new section and subsection to read as follows:

1705.19 Fire protection systems. Fire protection systems shall have the design plans approved by a special inspector and the systems inspected and tested by a special inspector for compliance with the requirements of this code and the *International Fire Code*.

1705.19.1 Qualifications. Special inspectors for fire protection systems shall have expertise in fire-protection. Special inspectors for fire suppression systems shall be a certified fire suppression systems inspector by the State of Colorado Division of Fire Safety.

- (45) Section 1809.5 is amended to read as follows:

1809.5 Frost protection. Except where otherwise protected from frost, foundations and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

1. Extending to at least 40 inches (1016 mm) below finish grade.
2. Constructing in accordance with ASCE-32.
3. Erecting on solid rock.

Exception: Free-standing buildings meeting all of the following conditions shall not be required to be protected:

1. Assigned to *Risk Category I*.

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2. Area of 600 square feet (56 m²) or less for light-frame construction or 400 square feet (37 m²) or less for other than light-frame construction.
3. Eave height of 10 feet (3048 mm) or less.

Shallow foundations shall not bear on frozen soil unless such frozen condition is of a permanent character.

- (46) The first sentence of Section 2302.1 is amended to read as follows:

2302.1 General. The design of structural elements or systems constructed partially or wholly of wood or wood-based products, shall be in accordance with one of the following methods: (provided, however, that the use of load duration factors for snow load shall not be permitted in any of these design methods):

- (47) Section 2901.1 is amended to read as follows:

2901.1 Scope. The provisions of this chapter and the *International Plumbing Code* shall govern the design, construction, erection and installation of plumbing components, appliances, equipment and systems used in *buildings* and structures covered by this code. Toilet and bathing rooms shall be constructed in accordance with Section 1209. The *International Fire Code* and the *International Plumbing Code* shall govern the use and maintenance of plumbing components, appliances, equipment and systems. The *International Existing Building Code* and the *International Plumbing Code* shall govern the *alteration, repair, relocation, replacement and addition* of plumbing components, *appliances, equipment* and systems.

- (48) **Section 2902.2 Separate facilities.** is amended by changing Exception 2 to read as follow:

2. Separate facilities shall not be required in structures or tenant spaces with a total *occupant load*, including both employees and customers, of 30 or fewer.

- (49) Section 3001.1 is amended to read as follows:

3001.1 Scope. This chapter, and the Elevator Inspection Program, administered by the Northwest Colorado Council of Governments, 249 Warren Avenue, Silverthorne, CO, shall govern the design, construction, installation, *alteration*, maintenance and repair of new and existing installations of elevators and conveying systems and their components.

3001.1.1 Permit required. An elevator permit and corresponding inspections shall be obtained from the Northwest Colorado Council of Governments, 249 Warren Avenue, Silverthorne, CO, in accordance with Section 105.1 and 110.

- (50) Section 3109 is amended by adding a new subsection to read as follows:

3109.2 Guard height extension. When a *swimming pool* is installed within 18 inches horizontally of a guard required by Section 1015.2, the guard height shall

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be increased a minimum of 18 inches measured vertically from the highest horizontal surface of the pool structure.

§65-3. Amendments to the *International Residential Code*. [Amended 04-14-20, Ord. 20-04]

- (1) Sections R101.1 is amended to read as follows:

R101.1 Title. These provisions shall be known as the *Residential Code for One- and Two-family Dwellings* of the Town of Frisco, and shall be cited as such and will be referred to herein as “this code.”

- (2) Section R101.2 is amended by amending the exception to read as follows:

Exception: The following shall be permitted to be constructed in accordance with this code.

- (3) Section R102.7 is amended to read as follows:

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

- (4) Sections R103 through R114 concerning administration and enforcement, are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Residential Code*.

- (5) Section R202 is amended by inserting the following definitions within the alphabetical order of the existing definitions:

BEDROOM. A sleeping room as defined in Section R202.

FIRE DEPARTMENT. The chief officer of Summit Fire and EMS Authority or the chief officer’s authorized representative.

LOFT. A story in a dwelling unit in a building that is open to the room or space directly below, which may or may not qualify as a mezzanine. Lofts may be either habitable space or non-habitable space. Habitable lofts in residential occupancies shall be designated as sleeping rooms and shall comply with the provisions of Sections R310, R311.4, R314, and R315.

SLEEPING ROOM. A habitable space or room in a dwelling unit, or in any building, or portion thereof, classified as any group R occupancy, designed for or with potential for use as a room for sleeping by occupants. Factors determining this potential use shall include a space or room having walls, floors, and/or doors to

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separate it from other habitable spaces or rooms and a floor area of at least 70 square feet with any of the following factors:

1. Having a closet or similar provision for clothes storage, or
 2. Having a full or partial bathroom directly connected to the space or room or on the same floor and accessible without passing through a closed room, or
 3. Meeting the definition of habitable loft or mezzanine.
- (6) Section R202 is further amended by changing the following definition within the existing alphabetical list to read as follows:

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

- (7) Table R301.2(1) is amended to read as follows:

**TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY ^f	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP ^e	ICE BARRIER UNDERLAYMENT REQUIRED ^h	FLOOD HAZARDS ^g	AIR FREEZING INDEX ⁱ	MEAN ANNUAL TEMP ^j
	Speed ^d (mph)	Topographic effects ^k		Weathering ^a	Frost line depth ^b	Termite ^c					
80 PSF	90	No	B	Severe	40 in.	Slight	-13°F	Yes	Footnote g	2500	40°F

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

- a. Where weathering requires a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code, the frost line depth strength required for weathering shall govern. The grade of masonry units shall be determined from ASTM C34, C55, C62, C73, C90, C129, C145, C216 or C652.
- b. Where the frost line depth requires deeper footings than indicated in Figure R403.1(1), the frost line depth strength required for weathering shall govern.
- c. This part of the table indicates the history of local subterranean termite damage.
- d. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.
- e. Reflects local climates or local weather experience as determined by the building official.
- f. The seismic design category determined from Section R301.2.2.1.
- g. The Town of Frisco entered into the National Flood Insurance Program on June 1, 1993. The date of the currently effective Flood Insurance Reference Map is November 16, 2018.
- h. There has been a history of local damage from the effects of ice damming.
- i. The 100-year return period air freezing index (BF-days) from Figure R403.3(2).
- j. The mean annual temperature from the National Climatic Data Center data table “Air Freezing Index-USA Method (Base 32°F).”
- k. In accordance with Section R301.2.1.5, there is no local historical data documenting structural damage to buildings due to topographic wind speed-up effects.

- (8) Table R301.5 is amended to read as follows:

**TABLE R301.5
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS
(In pounds per square foot)**

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USE	LIVE LOAD
Uninhabitable attics without storage ^b	10
Uninhabitable attics with limited storage ^{b,g}	20
Habitable attics and attics served with fixed stairs	30
Balconies (exterior) and decks ^e	80
Fire escapes	80
Guardrails and handrails ^d	200 ^h
Guardrails in-fill components ^f	50 ^h
Passenger vehicle garages ^a	50 ^a
Rooms other than sleeping rooms	40
Sleeping rooms	30
Stairs	40 ^c

For SI: 1 pound per square foot = 0.0479 kN/m², 1 square inch = 645 mm², 1 pound = 4.45 N.

- a. Elevated garage floors shall be capable of supporting a 2,000-pound load applied over a 20-square-inch area.
- b. Uninhabitable attics without storage are those where the maximum clear height between joists and rafters is less than 42 inches, or where there are not two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches high by 24 inches in width, or greater, within the plane of the trusses. This live load need not be assumed to act concurrently with any other live load requirements.
- c. Individual stair treads shall be designed for the uniformly distributed live load or a 300-pound concentrated load acting over an area of 4 square inches, whichever produces the greater stresses.
- d. A single concentrated load applied in any direction at any point along the top.
- e. See Section R502.2.2 for decks attached to exterior walls.
- f. Guard in-fill components (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to 1 square foot. This load need not be assumed to act concurrently with any other live load requirement.
- g. Uninhabitable attics with limited storage are those where the maximum clear height between joists and rafters is 42 inches or greater, or where there are two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches in height by 24 inches in width, or greater, within the plane of the trusses.
The live load need only be applied to those portions of the joists or truss bottom chords where all of the following conditions are met:
 1. The attic area is accessed from an opening not less than 20 inches in width by 30 inches in length that is located where the clear height in the attic is not less than 30 inches.
 2. The slopes of the joists or truss bottom chords are no greater than 2 inches vertical to 12 units horizontal.
 3. Required insulation depth is less than the joist or truss bottom chord member depth.
 The remaining portions of the joists or truss bottom chords shall be designed for a uniformly distributed concurrent live load of not less than 10 lb/ft².
- h. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the in-fill components. These loads shall be determined independent of one another, and loads are assumed not to occur with any other live load.

(9) Section R302.1 is amended to read as follows:

R302.1 Exterior walls. Construction, projections, openings and penetrations of *exterior walls of dwellings* and accessory buildings shall comply with Table R302.1(1); or *dwellings* equipped throughout with an *automatic sprinkler system* installed in accordance with the requirements of the *International Fire Code* shall comply with Table R302.1(2).

- (10) **Table R302.1(2) EXTERIOR WALLS—DWELLINGS WITH FIRE SPRINKLERS** is amended by changing footnote a. to read as follows:

a. For residential subdivisions where all dwellings are equipped throughout with an automatic sprinkler system installed in accordance with the requirements of the *International Fire Code*, the fire separation distance for exterior walls not fire-resistance rated and for fire-resistance-rated projections shall be permitted to be reduced to 0 feet, and unlimited unprotected openings and penetrations shall be permitted, where the adjoining lot provides an open setback yard that is 6 feet or more in width on the opposite side of the property line.

- (11) **Section R302.2.2 Common walls.** is amended by changing the two items to read as follows:

1. Where a fire sprinkler system in accordance with the requirements of the *International Fire Code* is provided, the common wall shall be not less than a 1-hour fire-resistance-rated wall assembly tested in accordance with ASTM E119, UL 263 or Section 703.3 of the *International Building Code*.
2. Where a fire sprinkler system in accordance with the requirements of the *International Fire Code* is not provided, the common wall shall be not less than a 2-hour fire-resistance-rated wall assembly tested in accordance with ASTM E119, UL 263 or Section 703.3 of the *International Building Code*.

- (12) **Section R302.2.4 Parapets for townhouses.** is amended by changing the exception to Items 1 and 2 to read as follows:

Exception: A parapet is not required in the preceding two cases where the roof covering complies with a minimum class B rating as tested in accordance with ASTM E108 or UL 790 and the roof decking or sheathing is of noncombustible materials or fire-retardant-treated wood for a distance of 4 feet (1219 mm) on each side of the wall or walls, or one layer of 5/8-inch (15.9 mm) Type X gypsum board is installed directly beneath the roof decking or sheathing, supported by not less than nominal 2-inch (51 mm) ledgers attached to the sides of the roof framing members, for a distance of not less than 4 feet (1219 mm) on each side of the wall or walls and any openings or penetrations in the roof are not within 4 feet (1219 mm) of the common walls. Fire-retardant-treated wood shall meet the requirements of Sections R802.1.5 and R803.2.1.2.

- (13) **Section R302.3 Two-family dwellings.** is amended by changing the first Exception to read as follows:

1. A fire-resistance rating of 1/2 hour shall be permitted in buildings equipped throughout with an automatic sprinkler system installed in accordance with the requirements of the *International Fire Code*.

- (14) **Section R302.13 Fire protection of floors.** is amended by changing the first two Exceptions to read as follows:

Exceptions:

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1. Floor assemblies located directly over a space protected by an automatic sprinkler system installed in accordance with the requirements of the *International Fire Code*.
 2. Floor assemblies located directly over a crawl space not intended for the installation of fuel-fired or electric-powered heating appliances, with a maximum 4' headroom occurring anywhere within the crawlspace. The headroom shall be measured from grade to the bottom of the floor joists.
- (15) **Section R310.1 Emergency escape and rescue opening required.** is amended by changing Exception 2 to read as follows:
2. Where the dwelling or townhouse is equipped with an automatic sprinkler system installed in accordance with the requirements of the *International Fire Code*, sleeping rooms in basements shall not be required to have emergency escape and rescue openings provided that the basement has one of the following:
- (16) **Section R312.1.2 Height.** is amended by adding a new subsection to read as follows:
- R312.1.2 Guard height extension.** When a hot tub, *spa* or *pool* is installed within 18 inches horizontally of a guard required by Section R312.1.1, the guard height shall be increased a minimum of 18 inches measured vertically from the highest horizontal surface of the hot tub, *spa* or *pool* structure.
- (17) Section R313 is deleted in its entirety and replaced with a new section to read as follows:

**SECTION R313
DWELLING UNIT FIRE SPRINKLER SYSTEMS AND INTERNAL
FIRE PROTECTION**

R313.1 General. Automatic residential fire sprinkler systems shall be installed in accordance with the requirements of the *International Fire Code*.

R313.2 Internal Fire Protection. Residences between 4,000 and 6,000 square feet shall be provided with 5/8" Type 'X' drywall or 1/2" cementitious board throughout the structure.

R313.3 Sprinklers required. Structures greater than 6,000 square feet are to be sprinklered in accordance with the requirements of the *Fire Department*. Square footages shall include all attached garages and any detached structures within 3 feet of the residence. Square footage shall be measured from exterior wall to exterior wall. Fire separations within the structure shall not be utilized to reduce the measured square footages of the structure(s).

R313.4 Additions. Any addition which increases the total square footage of the residence to greater than 6,600 square feet is to be provided with sprinkler systems at the addition only. Where the size of the addition itself is greater than 6,000 square feet, the addition as well as the existing residence shall be provided with

sprinklers. Where the addition increases the total square footage of the residence to greater than 6,600 square feet and the alterations to the existing structure results in the removal of interior wall and ceiling finishes exposing the structure, sprinkler systems shall be retro-fitted into the existing residence as well as the additions.

- (18) Section R319.1 is amended to read as follows:

R319.1 Address identification. New and existing buildings shall be provided with *approved* address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 5 inches (127 mm) in height, unless otherwise approved, with a stroke width of not less than 0.5 inch (12.7 mm). Where required by the fire code official, address identification shall be provided in additional *approved* locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.

- (19) Section R321 is amended to read as follows:

SECTION R321 ELEVATORS AND CONVEYING SYSTEMS

R321.1 Scope. The Elevator Inspection Program, administered by the Northwest Colorado Council of Governments, 249 Warren Avenue, Silverthorne, CO, shall govern the design, construction and installation of elevators and conveying systems and their components.

R321.2 Permit required. An elevator permit and corresponding inspections shall be obtained from the Northwest Colorado Council of Governments, 249 Warren Avenue, Silverthorne, CO, in accordance with Sections 105.1 and 110.

R321.3 Accessibility. Elevators or platform lifts that are part of an accessible route required by Chapter 11 of the *International Building Code*, shall comply with ICC A117.1.

- (20) Section R324.6.2.1 is amended to read as follows:

R324.6.2.1 Alternative setback at ridge. Where an automatic sprinkler system is installed within the dwelling in accordance with the requirements of the *International Fire Code*, setbacks at ridges shall comply with one of the following:

- (21) **Section R325.3 Area limitation.** is amended by changing the Exception to read as follows:

Exception: The aggregate area of a mezzanine located within a dwelling unit equipped with a fire sprinkler system in accordance with the requirements of the

International Fire Code shall not be greater than one-half of the floor area of the room, provided that the mezzanine meets all of the following requirements:

- (22) Section R326 is amended by adding a new subsection to read as follows:

R326.2 Guard height extension. When a hot tub, *spa* or *pool* is installed within 18 inches horizontally of a guard required by Section R312.1.1, the guard height shall be increased a minimum of 18 inches measured vertically from the highest horizontal surface of the hot tub, *spa* or *pool* structure.

- (23) Section R403.1.4.1 is amended to read as follows:

R403.1.4.1 Frost protection. Except where otherwise protected from frost, foundation walls, piers and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

1. Extending below the frost line specified in Table R301.2(1).
2. Constructing in accordance with Section R403.3.
3. Constructing in accordance with ASCE32.
4. Erected on solid rock.

Footings shall not bear on frozen soil unless such frozen condition is of a permanent character.

Exceptions:

1. Protection of freestanding *accessory structures* with an area of 600 square feet (56m²) or less, of light-frame construction, with an eave height of 10 feet (3048 mm) or less shall not be required.
2. Protection of freestanding *accessory structures* with an area of 400 square feet (37m²) or less, of other than light-frame construction, with an eave height of 10 feet (3048 mm) or less need not be provided with footings that extend below the frost line, but such footings shall extend at least 24 inches below finish grade.
3. Decks without roof structures and not supported by a dwelling along more than one side need not be provided with footings that extend below the frost line, but such footings shall extend at least 24 inches below finish grade.

- (24) Section R602.3 is amended to read as follows:

R602.3 Design and construction. Exterior walls of wood-frame construction shall be designed and constructed in accordance with the provisions of this chapter and Figures R602.3(1) and R602.3(2) or in accordance with AWC NDS. The use of load duration factors for snow load shall be prohibited. Components of exterior walls shall be fastened in accordance with Table R602.3(1) through R602.3(4). Wall sheathing shall be fastened directly to framing members and, when placed on the exterior side of an exterior wall, shall be capable of resisting the wind pressures listed in Table R301.2(2) adjusted for height and exposure using Table R301.2(3) and shall conform to the requirements of Table R602.3(3). Wall

sheathing used only for exterior wall covering purposes shall comply with Section R703.

Studs shall be continuous from support at the sole plate to a support at the top plate to resist loads perpendicular to the wall. The support shall be a foundation or floor, ceiling or roof diaphragm or shall be designed in accordance with accepted engineering practice.

- (25) Section R802.2 is amended to read as follows:

R802.2 Design and construction. The roof and ceiling assembly shall provide continuous ties across the structure to prevent roof thrust from being applied to the supporting walls. The assembly shall be designed and constructed in accordance with the provisions of this chapter and Figures R606.11(1), R606.11(2) and R606.11(3) or in accordance with AWC NDS. The use of load duration factors for snow load shall be prohibited.

- (26) Section R902.1 is amended to read as follows:

R902.1 Roofing covering materials. Roofs shall be covered with materials as set forth in Sections R904 and R905. Class A or B roofing shall be installed on all new buildings. Class A and B roofing required by this section to be listed shall be tested in accordance with UL 790 or ASTM E 108.

- (27) Section R905.1.2 is deleted in its entirety and replaced with a new section to read as follows:

R905.1.2 Ice Barriers. An ice dam protection underlayment that consists of an approved self-adhering polymer modified bitumen sheet complying with ASTM D1970 shall be used with all roof coverings described in Sections R905.2 through R905.8, and R905.10. This ice dam protection shall extend up the slope of the roof from the eave a minimum of 8 feet 6 inches inside the exterior wall line of the building and shall also extend a minimum of 3 feet up any wall, valley, cricket, chimney or similar construction junction with roofs.

Exception: Detached accessory structures not containing conditioned floor area.

- (28) Section R1004.4 is amended to read as follows:

R1004.4 Unvented gas log heaters. Installation of unvented gas log heaters is prohibited.

- (29) Section R1004 is amended by adding a new subsection to read as follows:

R1004.5 Factory-built fireplace enclosures. Combustible construction enclosing factory-built fireplaces shall be protected on the interior (fireplace) side by not less than 5/8-inch Type X gypsum wallboard.

- (30) Section R1005 is amended by adding a new subsection to read as follows:

R1005.9 Factory-built chimney enclosures. Factory-built chimneys shall be enclosed within a continuous enclosure protected on the interior (flue) by not less than 5/8-inch Type X gypsum wallboard.

Exception: The portion of the chimney located in the same room as the appliance and the portion of the chimney above the finished roof deck are not required to be enclosed.

- (31) Chapter 11 is deleted in its entirety and replaced with a new chapter to read as follows:

**CHAPTER 11
ENERGY EFFICIENCY
SECTION N1101
GENERAL**

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

N1101.2 Compliance. Compliance shall be demonstrated by meeting the requirements of the *International Energy Conservation Code – Residential Provisions*.

- (32) Section M1401 is amended by adding a new subsection to read as follows:

M1401.6. Snow depth. All air intake openings required by this code that terminate outdoors shall be located a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (33) Section M1701 is amended by adding a new subsection to read as follows:

M1701.3. Snow depth. All combustion air openings and ducts terminating on the outside shall be a minimum of 36 inches above final grade. If a ventilated crawl space is utilized as a combustion air source, ventilation louvers must be a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings and duct terminations may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (34) Section M1801.1 is amended by adding a new subsection to read as follows:

M1801.1.1. Enclosure. Portions of venting systems which extend through occupied and storage spaces shall be enclosed to avoid contact with or damage to the installation.

- (35) Section M1804.2.5 is amended to read as follows:

M1804.2.5 Direct vent terminations. Vent terminals for direct-vent *appliances* shall be installed in accordance with the manufacturer's installation instructions. The bottom of the vent terminal and air intake shall be located not less than 36 inches above final grade.

(36) Section M1804.2.6 is amended to read as follows:

M1804.2.6 Mechanical draft systems. Mechanical draft systems shall comply with UL 378 and shall be installed in accordance with their *listing*, the manufacturer's instructions and, except for direct-vent *appliances*, the following requirements:

1. The vent terminal shall be located not less than 3 feet (914 mm) above a forced air inlet located within 10 feet (3048 mm).
2. The vent terminal shall be located not less than 4 feet (1219 mm) below, 4 feet (1219 mm) horizontally from, or 1 foot (305 mm) above any door, window or gravity air inlet into a *dwelling*.
3. The vent termination point shall not be located closer than 3 feet (914 mm) to an interior corner formed by two walls perpendicular to each other.
4. The bottom of the vent terminal shall be located not less than 36 inches (914 mm) above finished ground level.
5. The vent termination shall not be mounted directly above or within 3 feet (914 mm) horizontally of an oil tank vent or gas meter.
6. Power exhauster terminations shall be located not less than 10 feet (3048 mm) from *lot lines* and adjacent buildings.
7. The discharge shall be directed away from the building.

(37) Section M1805 is amended by adding a new subsection to read as follows:

M1805.4 Chimney enclosure. Factory-built chimneys shall be enclosed within a continuous enclosure protected on the interior (flue) by not less than 5/8-inch Type X gypsum wallboard.

Exception: The portion of the chimney located in the same room as the appliance and the portion of the chimney above the finished roof is not required to be enclosed.

(38) Section M2002.4 is amended to read as follows:

M2002.4 Pressure-relief valve. Boilers shall be equipped with pressure-relief valves with minimum rated capacities for the *equipment* served. Pressure-relief valves shall be set at the maximum rating of the boiler. Installation of relief valves shall be in accordance with Section P2804.6.

(39) Section M2101.10 is amended to read as follows:

M2101.10 Tests. Hydronic piping systems shall be tested hydrostatically at a pressure of one and one-half times the maximum system design pressure, but not less than 100 pounds per square inch (689 kPa). The duration of each test shall

be not less than 15 minutes. Hydronic tubing may be tested with a 50 (psi) air test for 30 minutes.

- (40) Section M2103.4 is amended to read as follows:

M2103.4 Testing. Piping or tubing to be embedded shall be tested by applying a hydrostatic pressure of not less than 100 psi (690 kPa). The pressure shall be maintained for 30 minutes, during which the joints shall be visually inspected for leaks. Hydronic tubing may be tested with a 50 (psi) air test for 30 minutes.

- (41) Section M2105.28 is amended to read as follows:

M2105.28 Testing. Before connection header trenches are backfilled, the assembled loop system shall be pressure tested with water at 100 psi (690 kPa) for 15 minutes without observed leaks. Flow rates and pressure loss testing shall be performed and the actual flow rates and pressure drops shall be compared to the calculated design values. If actual flow rate or pressure drop values differ from calculated design values by more than 10 percent, the cause shall be identified and corrective action taken. Assembled loop systems may be tested with a 50 (psi) air test for 30 minutes.

- (42) Section G2406.2 is amended to read as follows:

G2406.2 (303.3) Prohibited locations. Appliances shall not be located in, or obtain combustion air from, sleeping rooms, bathrooms, toilet rooms, storage closets, or surgical rooms, or in a space that opens only into such rooms or spaces, except where the installation complies with one of the following:

1. The *appliance* is a direct-vent *appliance* installed in accordance with the conditions of the listing and the manufacturer's instructions.
2. *Vented room heaters, wall furnaces, vented decorative appliances, vented gas fireplaces, vented gas fireplace heaters and decorative appliances* for installation in vented solid fuel-burning *fireplaces* are installed in rooms that meet the required volume criteria of Section G2407.5.
3. The *appliance* is installed in a room or space that opens only into a bedroom or bathroom, and such room or space is used for no other purpose and is provided with a solid weather-stripped door equipped with an *approved* self-closing device. All *combustion air* shall be taken directly from the outdoors in accordance with Section G2407.6.
4. A clothes dryer is installed in a residential bathroom or toilet room having a permanent opening with an area of not less than 100 square inches (0.06 m²) that communicates with a space outside of a sleeping room, bathroom, toilet room or storage closet.

- (43) Section G2407.11, condition # 8 is amended to read as follows:

8. *Combustion air* intake openings located on the exterior of a building shall have the lowest side of such openings located not less than 36 inches (914 mm) vertically from the adjoining finished ground level.

Exception: With prior approval of the building official, openings and duct terminations may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (44) Section G2417.4.1 is amended to read as follows:

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall be not less than one and one-half times the proposed maximum working pressure, but not less than 10 psig (69 kPa gauge) for threaded pipe, 60 psig for welded pipe, 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*.

- (45) Section G2425.8 is amended to read as follows:

G2425.8 (501.8) Equipment not required to be vented. The following *appliances* shall not be required to be vented:

1. Ranges.
2. Built-in domestic cooking units listed and marked for optional venting.
3. Hot plates and laundry stoves.
4. *Type 1 Clothes dryers* (*Type 1 clothes dryers* shall be exhausted in accordance with the requirements of Section G2439).
5. Refrigerators.
6. Counter *appliances*.

Where the *appliances* and equipment listed in Items 5 through 6 above are installed so that the aggregate input rating exceeds 20 *Btu* per hour per *cubic foot* (207 watts per m³) of volume of the room or space in which such *appliances* are installed, one or more shall be provided with venting *systems* or other *approved* means for conveying the *vent gases* to the outdoor atmosphere so that the aggregate input rating of the remaining *unvented appliances* does not exceed 20 *Btu* per hour per *cubic foot* (207 watts per m³). Where the room or space in which the *appliance* is installed is directly connected to another room or space by a doorway, archway or other opening of comparable size that cannot be closed, the volume of such adjacent room or space shall be permitted to be included in the calculations.

- (46) Section G2425.14 is amended by adding a new subsection to read as follows:

G2425.14.1 Snow depth. Venting systems and air intakes terminating horizontally shall be a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (47) Section G2426.5 is amended by adding a new subsection to read as follows:

G2426.5.1 Enclosure. Portions of venting systems which extend through occupied and storage spaces shall be enclosed to avoid contact with or damage to the installation.

- (48) Section G2427.4.1 is amended by adding a new subsection to read as follows:

G2427.4.1.2 Pressure test required. All plastic piping vent installations shall be tested with a 5 psi air test for 15 minutes, prior to connection and operation of the appliance.

- (49) Section G2427.5.1 is amended to read as follows:

G2427.5.1 (503.5.1) Factory-built chimneys. Factory-built *chimneys* shall be *listed* in accordance with UL103 and installed in accordance with the manufacturer's instructions and Section G2430. Factory-built *chimneys* used to vent *appliances* that operate at a positive vent pressure shall be *listed* for such application.

- (50) Section 2427.6.4.1 is amended to read as follows:

G2427.6.4.1 (503.6.5.1) Decorative shrouds. Decorative shrouds shall not be installed at the termination of gas vents except where such shrouds are listed for use with the specific gas venting system and are installed in accordance with manufacturer's installation instructions.

Exception: Decorative shrouds at the termination of vents serving only gas-fired decorative vented appliances that are constructed entirely of noncombustible materials, provide unobstructed openings to outdoor air on all sides, provide clearances per the appliance manufacturer's instructions, and are approved by the building official.

- (51) **Section G2427.8 (503.8) Venting system termination location.** is amended by changing Items # 2 and 3 to read as follows:

2. A mechanical draft venting system, excluding *direct-vent appliances*, shall terminate not less than 4 feet (1219 mm) below, 4 feet (1219 mm) horizontally from, or 1 foot (305 mm) above any door, operable window or gravity air inlet into any building. The bottom of the vent terminal shall be located not less than 36 inches (914 mm) above finished ground level.

3. The clearances for through-the-wall, direct-vent terminals shall be in accordance with Table G2427.8. The bottom of the vent terminal and the air intake shall be located not less than 36 inches (914 mm) above finished ground level.

- (52) Section G2430 is amended by adding a new subsection to read as follows:

G2430.3 Factory-built chimney enclosures. Factory-built chimneys shall be enclosed within a continuous enclosure protected on the interior (flue) by not less than 5/8-inch Type X gypsum wallboard.

Exception: The portion of the chimney located in the same room as the appliance and the portion of the chimney above the finished roof is not required to be enclosed.

- (53) Section G2431 is amended by adding a new subsection to read as follows:

G2431.2 Snow depth. All air intake openings required by this code that terminate outdoors shall be located a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (54) Section G2432.1 is amended by adding a new subsection to read as follows:

G2432.1.1 Damper. The fireplace damper shall be completely removed to prevent spillage of combustion products into the room.

- (55) Section G2433.1 is amended to read as follows:

G2433.1 (603.1) General. Log lighters are prohibited.

- (56) Section G2445 is deleted in its entirety and replaced with a new section to read as follows:

SECTION G2445 UNVENTED ROOM HEATERS

G2445.1 Prohibited installation. Installation of unvented room heaters is prohibited.

- (57) Section P2503.5.1 is amended to read as follows:

P2503.5.1 Rough plumbing. DWV systems shall be tested on completion of the rough piping installation by water or 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:

- (58) Section P2503.7 is amended to read as follows:

P2503.7 Water-supply system testing. 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, 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.

- (59) Section P2719 is amended by adding a new subsection to read as follows:

P2719.2 Boiler rooms. Boiler rooms, water heater rooms, mechanical rooms, and similar utility spaces shall be equipped with a floor drain or other means suitable for disposing of condensates, relief valve drainage, safety pan drainage, as well

as the accumulation of liquid wastes incidental to cleaning, recharging, and routine maintenance.

- (60) **Section P2804.6.1 Requirements for discharge pipe.**, item # 5 is amended to read as follows:

5. Discharge to the floor, to the pan serving the water heater or storage tank, or to a waste receptor located within conditioned space, or by other approved means within the building.

- (61) Section P2904 is deleted in its entirety and replaced with a new section to read as follows:

**SECTION P2904
DWELLING UNIT FIRE SPRINKLER SYSTEMS**

P2904.1 General. The design and installation of residential fire sprinkler systems shall comply with all applicable provisions of the *Fire Department* and *The International Fire Code*.

- (62) Section P2910.1 is amended to read as follows:

P2910.1 Scope. The provisions of this section shall govern the materials, design, construction and installation of systems for the collection, storage, treatment and distribution of nonpotable water. All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to the State of Colorado Plumbing Code as adopted by the State Plumbing Board.

- (63) Section P2911.1 is amended to read as follows:

P2911.1 General. The provisions of this section shall govern the construction, installation, *alteration* and repair of on-site nonpotable water reuse systems for the collection, storage, treatment and distribution of on-site sources of nonpotable water. All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to the State of Colorado Plumbing Code as adopted by the State Plumbing Board.

- (64) Section P2912.1 is amended to read as follows:

P2912.1 General. The provisions of this section shall govern the construction, installation, *alteration*, and repair of rainwater collection and conveyance systems for the collection, storage, treatment and distribution of rainwater for nonpotable applications. All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to the State of Colorado Plumbing Code as adopted by the State Plumbing Board.

- (65) Section P2913.1 is amended to read as follows:

P2913.1 General. The provisions of this section shall govern the construction, installation, *alteration* and repair of systems supplying nonpotable reclaimed water.

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All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to the State of Colorado Plumbing Code as adopted by the State Plumbing Board.

- (66) Section P3009.1 is amended to read as follows:

P3009.1 Scope. The provisions of this section shall govern the materials, design, construction and installation of subsurface landscape irrigation systems connected to nonpotable water from on-site water reuse systems. All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to the State of Colorado Plumbing Code as adopted by the State Plumbing Board.

- (67) Section P3103.1 is amended to read as follows:

P3103.1 Roof extension. Open vent pipes that extend through a roof that do not meet the conditions of Section P3103.1.2 or P3103.1.3 shall terminate not less than 12 inches (306 mm) above the roof.

- (68) Chapters 34, 35, 36, 37, 38, 39, 40, 41, 42 and 43 are deleted in their entirety. The corresponding and applicable sections of the *International Code Council Electrical Code Administrative Provisions* and *The National Electrical Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of Part VIII – Electrical, of the *International Residential Code*.

- (69) The *International Residential Code* is further amended by adding a new chapter to read as follows:

CHAPTER 45

FIRE HAZARD MITIGATION REQUIREMENT FOR NEW CONSTRUCTION

SECTION 4501

GENERAL

4501.1 Purpose. The purpose of this chapter is to establish minimum design and construction standards for the protection of life and property from fire, within the Wildland Urban Interface. These provisions are meant to aid in the prevention and suppression of fires and lessen the hazards to structures from wildland fires as well as the hazards to wildlands from structure fires.

4501.2 Scope. All new building construction, including any additions and decks, shall be compliant to the applicable provisions of Sections 4501.2.1 through 4501.2.6.

Exception: Temporary buildings and buildings or structures used for the sole purpose of providing shelter for agricultural implements, farm products, livestock or poultry.

4501.2.1 Class A roof. A Class A roof shall be provided on all structures.

4501.2.2 Roof repair. The roof covering on buildings or structures in existence prior to adoption of this code that are replaced or have 25 percent or more replaced in a 12-month period shall be replaced with a roof assembly that complies with a Class A rating when tested in accordance with ASTM E 108 or UL790.

4501.2.3 Gutters and downspouts. Gutters and downspouts shall be constructed of *noncombustible* material. Gutters shall be provided with an approved means to prevent the accumulation of leaves and debris in the gutter.

4501.2.4 Exterior glazing. Exterior windows, window walls and glazed doors, windows within exterior doors, and skylights shall be either multilayered glazed panels, tempered glass, glass block or have a fire protection rating of not less than 20 minutes.

4501.2.5 Soffit and gable vents. All soffit and gable vents shall have a maximum 3/16 inch opening.

4501.2.6 Defensible space. A defensible space shall be provided in accordance with the *International Fire Code*, Appendix Chapter P.

4501.2.6.1 Permit required. A defensible space permit, and corresponding inspections, shall be obtained from the Summit Fire and EMS Authority, in accordance with the *International Fire Code*.

4501.3 Fees. The fees for a defensible space permit shall be as specified in §65-13 Construction Permit Fee Schedule, of the Code of Ordinances of the Town of Frisco, Colorado.

(70) The *International Residential Code* is further amended by adding a new chapter to read as follows:

CHAPTER 46
SUSTAINABLE BUILDING CODE
SECTION 4601
GENERAL

4601.1 Scope. All new building construction and construction adding additional conditioned square footage shall be compliant to the following Sustainable Building Code and Sustainable Building Code Checklist.

SECTION 4602
SUSTAINABLE BUILDING CODE CHECKLIST

4602.1 Sustainable building code checklist /new SFR:

MANDATORY REQUIREMENTS, 2018 IECC - Residential Provisions

- All projects to comply with all applicable requirements of the International Residential Code.
- Forced air-furnace system, minimum 91% AFUE.
- Radiant heating system, minimum 91% AFUE.
- High-efficacy lamps, minimum 75%.
- Energy efficient water heater.

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- Electric, minimum 0.95 energy factor
- Gas, minimum 0.67 energy factor.
- Recycling; HC3 information to be provided at permit issuance.
- Provide an electrical car charging rough in, including a blanked electrical box, and a raceway terminating in the electrical panel.
- Provide PV ready construction including a metal raceway from the electrical panel to the roof location where the panels will be installed, including a roof jack, a #8 copper ground, a 2 pull blank in the electrical panel and an electrical conduit from the electrical panel out to the electric meter.

Please complete the following calculations and then choose from the secondary measures for every point incurred. Your plans and inspections will be reviewed and inspected according to the above mandatory requirements and your secondary choices. LEED-H, ICC-700, Green Globes certified or alternate approved third party certified program is acceptable in place of this document.

Square footage of new conditioned (heated) space _____ ÷ 1000 sq. feet = _____

Number of outdoor fireplaces and/or fire pits _____

Hot Tub _____

Square footage of heated outdoor surfaces _____ ÷ 100 sq. feet = _____

Square footage of air conditioned space _____ ÷ 500 sq. feet = _____

Total Points Incurred *rounded to next highest whole number* _____

SECONDARY CHOICES

- Energy Star appliances throughout.
- Soil Composting.
- Air movement at all ceilings > 15'.
- Insulated exterior wall sheathing.
- Blower door test of 3.0 ACH or less. *Air Changes per Hour @ 50 Pascals.*
- SIP panel construction at walls. *Structural Insulated Panel.*
- SIP panel construction at ceiling.
- Roof framing 60% or greater renewable or engineered lumber.
- Floor framing 80% or greater renewable or engineered lumber.
- Beams and headers 80% or greater renewable or engineered lumber.
- Energy heels at trusses, 12" or greater.
- ICF foundation. *Insulated Concrete Forms.*
- Insulated headers (80% minimum at R-10).
- Greater than R-23 in walls.
- Greater than R-49 in ceiling.
- U-factor of .30 or lower on 80% of fenestrations.
- Conditioned crawlspace or slab on grade.
- High efficiency boiler, AFUE 95% or greater. *Annual Fuel Utilization Efficiency.*
- High efficiency furnace, AFUE 95% or greater.
- Boiler or furnace centrally located; no mechanical run longer than 2/3 the distance of the greatest diagonal dimension of the home.
- HRV or ERV system installed.
- Side arm water heater served by boiler.
- 50 year roof or greater warranty.
- Alternative energy sources: *1000 British Thermal Units/Kilowatt/Photovoltaic.*
 - Active solar space heating system 1 pt/25MBTU _____

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- Active solar domestic hot water system 1 pt/25MBTU _____
- Ground source heating/cooling system 1 pt/25MBTU _____
- Solar generated (PV) electric system 1 pt/2.5KW _____
- Wind generated electric system 1 pt/2.5KW _____
- Dual flush toilets or Watersense toilets.
- Motion sensors on a minimum of 80% of exterior lights.
- Programmable thermostats.
- No recessed lights in the exterior insulated ceilings.
- OVE framing. *Optimal Value Engineering.*
- Bamboo, concrete, stone or cork flooring, 1 pt/50%.
- HERS rating. *Home Energy Rating.*
 - 2 pts for performing HERS rating _____
 - 4 pts HERS Index of 70 or less _____
 - 8 pts HERS Index of 55 or less _____
 - 12 pts HERS Index of 40 or less _____
- Innovative Product, Design or Technology (Points awarded by Building Official)

_____ **Total Points Awarded for Secondary Choices**

_____ **Total Points incurred from other side**

_____ **Total Net Points** must be greater than or equal to zero

(71) **Section AF103.5.3 Vent pipe.** is amended by adding a new exception to read as follows:

Exception: The radon vent pipe is allowed to terminate within the structure provided it is sealed to withstand a minimum pressure of 5 psi.

(72) **Section AF103.6.1 Vent pipe.** is amended by adding a new exception to read as follows:

Exception: The radon vent pipe is allowed to terminate within the structure provided it is sealed to withstand a minimum pressure of 5 psi.

§ 65-4. Amendments to the *International Fire Code.*

(1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Fire Code* of The Town of Frisco, hereinafter referred to as “this code.”

(2) Section 102.4 is amended to read as follows:

102.4 Application of building code. The design and construction of new structures shall comply with the *International Building Code* or *International Residential Code* and the *International Fire Code*, and any *alterations*, additions, changes in use or changes in structures required by this code, which are within the

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scope of the *International Building Code* or *International Residential Code*, shall be made in accordance therewith.

(3) Section 105.1.2 item #2 is amended to read as follows:

2. Construction permits. A construction permit allows the applicant to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, the likes of which are regulated by this code. A construction permit also allows the applicant to install or modify systems and equipment for which a permit is required by Section 105.7.

(4) Section 105.4.1 is amended to read as follows:

105.4.1 Submittals. *Construction documents* and supporting data shall be submitted in two or more sets with each application for a permit and in such form and detail as required by the *fire code official*. The *construction documents* shall be prepared by a registered design professional where required by the jurisdiction in which the project is to be constructed.

(5) Section 105.6.30 is amended to read as follows:

105.6.30 Mobile food preparation vehicles. A permit is required for mobile food preparation vehicles equipped with appliances.

(6) **Section 105.6.32 Open burning.** is amended by deleting the exception.

(7) Section 105.7 is amended to read as follows:

105.7 Required Construction Permits. The *fire code official* is authorized to issue construction permits for work, or the likes of which are regulated by this code and as set forth in Section 105.7.1 through 105.7.26.

(8) Section 105.7.25 is amended to read as follows: (the Exceptions remain unchanged)

105.7.25 Temporary membrane structures and tents. A construction permit is required to erect an air-supported temporary membrane structure, a temporary stage canopy or a tent having an area in excess of 200 square feet (18.58 m²).

(9) Section 105.7 is amended by adding a new subsection to read as follows:

105.7.26 Wildfire mitigation. The holder of a construction permit is required to perform defensible space requirements of Appendix P that does not fall under a voluntary wildfire mitigation program.

(10) Section 109 Board of Appeals, is deleted in its entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for the board of appeals of the *International Fire Code*.

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(11) Section 110 Violations, is deleted in its entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for violations of the *International Fire Code*.

(12) Section 111.4 is amended to read as follows:

111.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine as determined by the court.

(13) Section 202 General Definitions, is amended by amending portions of the existing list of definitions to read as follows:

CONTROLLED BURNING. Any fire intentionally ignited to meet specific land management objectives, such as to reduce flammable fuels, restore forest or ecosystem health, recycle nutrients, or prepare an area for new trees or vegetation. Controlled burning may also be known by the terms “Prescribed Burning” or “Pile Burning.”

DEFENSIBLE SPACE. The selection, location, grouping, and maintenance of vegetation on the property in such a manner that the opportunity for fire to burn directly to a structure is minimized.

FIRE AREA. The aggregate floor area enclosed and bounded by *fire walls* meeting the requirements of Section 706 of the *International Building Code* and *exterior walls* or *horizontal assemblies* of a building. Areas of the building not provided with surrounding walls shall be included in the fire area if such areas are included within the horizontal projection of the roof or floor next above. For buildings constructed under the *International Residential Code*, the fire area is the aggregate floor area enclosed and bounded by exterior walls of a building.

FIREWISE® LANDSCAPING is defined as trees, shrubs, and other materials which meet the criteria for fire resistant landscaping.

GROUND FUELS. All combustible materials on, in or near the ground such as grass, duff, loose surface litter, tree or shrub roots, rotting wood, leaves, peat, or sawdust that typically support combustion.

MITIGATION. Action that moderates the severity of a fire hazard or risk.

MOBILE FOOD PREPARATION VEHICLES. Vehicles that contain cooking equipment for the purpose of preparing and serving food to the public. Vehicles intended for private recreation shall not be considered mobile food preparation vehicles.

MOBILE FUELING. The operation of dispensing liquid fuels from tank vehicles into the fuel tanks of vehicles. Mobile fueling may also be known by the terms “Mobile fleet fueling,” “Wet fueling,” and “Wet hosing,” or “Hot fueling.”

OCCUPANCY CLASSIFICATION. For the purposes of this code, certain occupancies are defined as follows:

Institutional Group I-1.

Five or fewer persons receiving custodial care. A facility with five or fewer persons receiving custodial care shall be classified as Group R-3 or shall comply with the *International Residential Code* provided an *automatic sprinkler system* is installed in accordance with Section 903.3.1.3.

Institutional Group I-2.

Five or fewer persons receiving medical care. A facility with five or fewer persons receiving medical care shall be classified as Group R-3 or shall comply with the *International Residential Code* provided an *automatic sprinkler system* is installed in accordance with Section 903.3.1.3.

Residential Group R-3.

Care facilities within a dwelling. Care facilities for five or fewer persons receiving care that are within a single-family dwelling are permitted to comply with the *International Residential Code* provided an *automatic sprinkler system* is installed in accordance with Section 903.3.1.3.

PERMANENT FIRE RING. Is a permanently constructed fixture without air gaps in surrounding sides and has a solid bottom or earthen bottom free of roots and other organic material, used to contain campfires and prevent them from spreading and turning into wildfires.

PORTABLE OUTDOOR FIREPLACE. A commercially designed and manufactured device that is purchased that has a screen preventing ember emissions from the device.

RECREATIONAL FIRE. An outdoor fire on private land contained to a commercially designed and manufactured fireplace, a permanent outdoor fireplace, or a portable outdoor fireplace that is assembled, located, and operated in accordance with the manufacturer's or designer's instructions. The fire shall not exceed a total fuel area of 3 feet (914 mm) or less in diameter and 2 feet (610mm) or less in height. A non-toxic fuel source such as wood or gas (i.e. propane or natural gas) must be used and the fire is intended for pleasure, religious, ceremonial, cooking, warmth or similar purposes. Recreational fire shall not be used for the purpose of waste removal or trash incineration.

STRUCTURE IGNITION ZONE. The area around a specific structure and associated accessory structures, including all vegetation that contains potential ignition sources and fuels.

TREE CROWN is the needle or leaf bearing part of a tree. The crown edge is the tree's drip edge.

WILDLAND-URBAN INTERFACE. An area where wildland fuels abut structures, with a clear line of demarcation between residential, business, and public structures and wildland fuels.

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- (14) Section 304.1.2 is amended to read as follows:

304.1.2 Vegetation. Weeds, grass, vines or other growth that is capable of being ignited and endangering property, shall be cut down and removed by the *owner* or occupant of the premises. Vegetation clearance requirements in urban-wildland interface areas shall be in accordance with Appendix P, local codes, policies, and ordinances.

- (15) **Section 304.3.3 Capacity exceeding 1.5 cubic yards.** is amended by adding a new exception to read as follows:

3. Storage in a structure shall not be prohibited where the structure is in compliance with local codes, policies, and ordinances as mandated by the authority having jurisdiction.

- (16) **Section 304.3.4 Capacity of 1 cubic yard or more.** is amended by adding a new exception to read as follows:

3. Storage in a structure shall not be prohibited where the structure is in compliance with local codes, policies, and ordinances as mandated by the authority having jurisdiction.

- (17) Section 308.1.4 is amended to read as follows:

308.1.4 Open-flame cooking devices. Charcoal burners, wood pellet burners, and other open-flame cooking devices shall not be operated on combustible balconies or within 10 feet (3048mm) of combustible construction.

Exceptions:

1. One- and two-family *dwellings*.
2. Where buildings, balconies and decks are protected by an *automatic sprinkler system*.
3. LP-gas cooking devices having LP-gas container with a water capacity not greater than 48 pounds [nominal 20 pound (9.1 kg) LP-gas capacity].
4. Where a more restrictive code, policy, or ordinance exists.

- (18) **Section 311.2.2 Fire Protection.** Exception 3 is amended to read as follows:

3. Where *approved* by the *fire code official*, fire alarm and sprinkler systems are permitted to be placed out of service in seasonally occupied buildings: that will not be heated; where fire protection systems will be exposed to freezing temperatures; where *fire areas* do not exceed 6,000 square feet (557.42 m²); and/or that do not store motor vehicles or hazardous materials.

- (19) Section 315.3 is amended to read as follows:

315.3 Storage in buildings. Storage of materials in buildings shall be orderly and stacks shall be stable. Storage of combustible materials shall be separated from

heaters or heating devices by distance or shielding so that ignition cannot occur. Storage room doors shall be provided with approved signs.

(20) **Section 315.3.1 Ceiling clearance.** Exceptions are amended to read as follows:

1. The 2-foot (610 mm) ceiling clearance is not required for storage along walls in nonsprinklered areas of buildings where the shelving does not exceed 30 inches (762 mm) in depth.
2. The 18-inch (457 mm) ceiling clearance is not required for storage along walls in areas of buildings equipped with an *automatic sprinkler system* in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3 where the shelving does not exceed 30 inches (762 mm) in depth.

(21) Section 315.3.3 is amended to read as follows:

315.3.3 Equipment rooms. Combustible material shall not be stored in boiler rooms, mechanical rooms, electrical equipment rooms, and other rooms where a potential ignition source exists, as determined by the fire code official.

(22) Section 319.1 is amended to read as follows:

319.1 General. Mobile food preparation vehicles that are equipped with appliances shall comply with this section.

(23) Section 319.4.1 is amended to read as follows:

Fire protection for cooking equipment. Cooking equipment that produces smoke or grease-laden vapors shall be protected by automatic fire extinguishing systems in accordance with Section 904.12.

(24) Section 319.8 is amended to read as follows:

319.8 LP-gas systems. Where LP-gas systems provide fuel, such systems shall comply with Chapter 61 and Sections 319.8.1 through 319.8.5.

(25) Section 403.12.3 is amended to read as follows:

403.12.3 **Crowd managers.** Where facilities or events involve a gathering of 500 people or more, crowd managers shall be provided in accordance with Sections 403.12.3.1 through 403.12.3.3.

(26) **Section 403.12.3.1 Number of crowd managers.** Exceptions are amended to read as follows:

1. Outdoor events with fewer than 500 persons in attendance shall not require crowd managers.
2. Assembly occupancies used exclusively for religious worship with an occupant load not exceeding 500 shall not require crowd managers.

3. The number of crowd managers shall be reduced where, in the opinion of the *fire code official*, the fire protection provided by the facility and the nature of the event warrant a reduction.

(27) Section 505.1 is amended to read as follows:

505.1 Address identification. New and existing buildings shall be provided with *approved* address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be not less than 5 inches (127 mm) high, unless otherwise approved, with a minimum stroke width of 1/2 inch (12.7 mm). Where required by the *fire code official*, address identification shall be provided in additional *approved* locations to facilitate emergency response. Where access is by means of a private road and the building cannot be viewed from the *public way*, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.

(28) Section 508.1 is amended to read as follows:

508.1 General. Where required by other sections of this code, buildings, structures, or facilities that are more than 4 stories (including basements) in height or are greater than 50,000 square feet (4645 m²) within surrounding exterior walls, and in all buildings classified as high-rise buildings by the *International Building Code*, a fire command center for fire department operations shall be provided and shall comply with Sections 508.1.1 through 508.1.5

(29) Section 603.6 is amended by adding a new subsection to read as follows:

603.6.6 Chimneys & Heating Appliances. Chimneys and fireboxes for solid, fuel burning appliances shall be inspected annually by a qualified individual or company. They shall be inspected for soundness, corrosion, proper support, and freedom from combustible deposits. A certificate of inspection in a form acceptable to the fire code official shall be forwarded to the fire department upon completion.

(30) Section 603.9 is amended to read as follows:

603.9 Gas & utility meters. Above-ground gas & utility meters, regulators and piping subject to damage shall be protected by a barrier complying with Section 312 or otherwise protected in an *approved* manner. Gas & utility meters and piping shall be protected from snow & ice shedding from a roof area. Snow & ice build-up around gas & utility meters shall be kept clear at all times.

(31) Section 606 is amended by adding a new subsection to read as follows:

606.9 Communication. All elevators shall be equipped with two-way communication equipment and the equipment shall be operable at all times.

Exception: One- and two-family dwellings.

- (32) Section 701.2 is amended to read as follows:

701.2 Fire-resistance-rated construction. The *fire-resistance rating* of the following *fire-resistance-rated* construction shall be maintained and shall be marked in an approved manner:

- (33) Section 701.3 is amended to read as follows:

701.3 Smoke barriers. The *fire-resistance rating* and smoke-resistant characteristics of *smoke barriers* shall be maintained and shall be marked in an approved manner on the rated construction feature.

- (34) Section 803.13 is amended to read as follows:

803.13 Laminated products factory produced with or without an attached wood substrate. Laminated products factory produced with or without an attached wood substrate shall comply with one of the following:

- (35) Section 901.4.2 is amended to read as follows:

901.4.2 Non-required fire protection systems. A *fire protection system* or portion thereof not required by this code, the *International Building Code*, or the *International Residential Code*, shall be installed throughout a building for complete protection provided such installed system meets the applicable requirements of this code, the *International Building Code*, or the *International Residential Code*.

- (36) Section 901.4.3 is amended to read as follows:

901.4.3 Fire areas. Where buildings, or portions thereof, are divided into *fire areas* so as not to exceed the limits established for requiring a *fire protection system* in accordance with this chapter, such *fire areas* shall be separated by *fire walls* constructed in accordance with the *International Building Code* or *horizontal assemblies* constructed in accordance with the *International Building Code*, or both, having a fire-resistance rating of not less than that determined in accordance with the *International Building Code*.

- (37) Section 901.7 is amended to read as follows:

901.7 Systems out of service. Where a required *fire protection system* is out of service, the fire department shall be notified immediately and where required by the *fire* department, the building shall either be evacuated or an *approved* fire watch shall be provided for all occupants left unprotected by the shutdown until the *fire protection system* has been returned to service.

- (38) Section 901.9 is amended to read as follows:

901.9 Termination of monitoring services. For fire protection systems required to be monitored by the authority having jurisdiction, notice shall be made to the *fire code official* whenever system monitoring services are terminated. Notice shall be

made in writing, to the *fire code official*, by the provider of the monitoring service being terminated.

- (39) Section 903.2.1 is amended to read as follows:

903.2.1 Group A. An *automatic sprinkler system* shall be provided throughout buildings used as Group A occupancies as provided in this section.

- (40) Section 903.2.1.1 is amended to read as follows:

903.2.1.1 Group A-1. An *automatic sprinkler system* shall be provided throughout buildings containing Group A-1 occupancies where one of the following conditions exists:

1. The *fire area* exceeds 6,000 square feet (557 m²).
2. The *fire area* has an *occupant load* of 50 or more.

- (41) Section 903.2.1.2 is amended to read as follows:

903.2.1.2 Group A-2. An *automatic sprinkler system* shall be provided throughout buildings containing Group A-2 occupancies where one of the following conditions exists:

1. The *fire area* exceeds 5,000 square feet (464 m²).
2. The *fire area* has an *occupant load* of 50 or more.

- (42) Section 903.2.1.3 is amended to read as follows:

903.2.1.3 Group A-3. An *automatic sprinkler system* shall be provided throughout buildings containing Group A-3 occupancies where one of the following conditions exists:

1. The *fire area* exceeds 6,000 square feet (557 m²).
2. The *fire area* has an *occupant load* of 50 or more.

- (43) Section 903.2.1.4 is amended to read as follows:

903.2.1.4 Group A-4. An *automatic sprinkler system* shall be provided throughout buildings containing Group A-4 occupancies where one of the following conditions exists:

1. The *fire area* exceeds 6,000 square feet (557 m²).
2. The *fire area* has an *occupant load* of 50 or more.

- (44) Section 903.2.1.6 is amended to read as follows:

903.2.1.6 Assembly occupancies on roofs. Where an occupied roof has an assembly occupancy with an *occupant load* exceeding 50, an *automatic sprinkler system* shall be provided throughout the building in accordance with Section 903.3.1.1 or 903.3.1.2.

- (45) Section 903.2.1.7 is amended to read as follows:

903.2.1.7 Multiple fire areas. An *automatic sprinkler system* shall be provided where multiple fire areas of Group A-1, A-2, A-3 or A-4 occupancies share exit or *exit access* components and the combined *occupant load* of these fire areas is 50 or more.

(46) Section 903.2.2 is amended to read as follows:

903.2.2 Ambulatory care facilities. An *automatic sprinkler system* shall be installed throughout the entire building containing an ambulatory care facility where either of the following conditions exist at any time:

1. Four or more care recipients are incapable of self-preservation.
2. One or more care recipients that are incapable of self-preservation are located at other than the level of exit discharge serving such a facility.

(47) Section 903.2.3 is amended to read as follows:

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

1. Throughout all Group E *fire areas* greater than 6,000 square feet (557 m²) in area.
2. The Group E fire area is located on a floor other than a level of exit discharge serving such occupancies.
3. The Group E fire area has an occupant load of 50 or more.

(48) Section 903.2.4 is amended to read as follows:

903.2.4 Group F-4. An *automatic sprinkler system* shall be provided throughout all buildings containing a Group F occupancy where one of the following conditions exists:

1. Where a Group F *fire area* exceeds 6,000 square feet (557 m²).
2. Where a Group F *fire area* is located more than two stories above grade plane.
3. Where the combined area of all Group F *fire areas* on all floors, including mezzanines and basements exceeds 6,000 square feet (557 m²).
4. A Group F occupancy used for the manufacture of upholstered furniture or mattresses exceeds 2,500 square feet (232 m²).

(49) **Section 903.2.6 Group I.** Exception # 3 is amended to read as follows:

3. In buildings where Group I-4 day care is provided on levels other than the *level of exit discharge*, an *automatic sprinkler system* in accordance with Section 903.3.1.1 shall be installed.

(50) Section 903.2.7 is amended to read as follows:

903.2.7 Group M. 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 6,000 square feet (557 m²).
2. A Group M *fire area* is located more than two stories above grade plane.
3. The combined area of all Group M *fire areas* on all floors, including any mezzanines, exceeds 6,000 square feet (557 m²).
4. A Group M occupancy used for the display and sale of upholstered furniture or mattresses exceeds 5,000 square feet (464 m²).

(51) Section 903.2.9 is amended to read as follows:

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

1. A Group S-1 *fire area* exceeds 6,000 sq. ft. (557 m²).
2. A Group S-1 *fire area* is located more than two stories above grade plane.
3. The combined area of all Group S-1 *fire areas* on all floors, including any mezzanines, exceeds 6,000 square feet (557 m²).
4. A Group S-1 *fire area* used for the storage of commercial motor vehicles where the *fire area* exceeds 5,000 square feet (464 m²).
5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds 2,500 square feet (232 m²).

(52) **Section 903.2.9.1 Repair garages.** conditions # 1 and 2 are amended to read as follows:

1. Buildings having two or more stories above grade plane, including *basements*, with a *fire area* containing a repair garage exceeding 6,000 square feet (557 m²).
2. Buildings no more than one-story above grade plane with a *fire area* containing a repair garage exceeding 6,000 square feet (557 m²).

(53) Section 903.2.9.2 is amended to read as follows:

903.2.9.2 Bulk storage of tires. Buildings and structures where the area for the storage of tires exceeds 10,000 cubic feet (283 m³) shall be equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1.

(54) **Section 903.2.10 Group S-2 enclosed parking garages.** condition # 1 is amended to read as follows:

1. Where the *fire area* of the enclosed parking garage exceeds 6,000 square feet (557 m²).

(55) Section 903.2.11.1 is amended to read as follows:

903.2.11.1 Stories without openings. An *automatic sprinkler system* shall be installed throughout all buildings, where the floor area of the story exceeds 1,500 square feet (139 m²) and where the story does not comply with the following criteria for exterior wall openings:

- (56) Section 903.2.11.1.2 is amended to read as follows:

903.2.11.1.2 Openings on one side only. Where openings in a story are provided on only one side and the opposite wall of such story is more than 75 feet (22 860 mm) from such openings, the building shall be equipped throughout with an *approved automatic sprinkler system*, or openings shall be provided on not fewer than two sides of the story.

- (57) Section 903.2.11.1.3 is amended to read as follows:

903.2.11.1.3 Basements. Where any portion of a *basement* is located more than 75 feet (22,860 mm) from openings required by Section 903.2.11.1, or where walls, partitions or other obstructions are installed that restrict the application of water from hose streams, the building shall be equipped throughout with an *approved automatic sprinkler system*.

- (58) **Section 903.2.11.3 Buildings 55 feet or more in height.** is amended by deleting all Exceptions.

- (59) Section 903.2 is amended by adding two new subsections to read as follows:

903.2.13 Group B or Mixed Occupancies. An automatic sprinkler system shall be provided throughout all buildings containing Group B or mixed occupancies where one of the following conditions exists:

1. The fire area exceeds 6,000 sq. ft. (557 m²).
2. Where the combined fire areas of Group B and mixed occupancies on all floors including mezzanines and basements is greater than 6,000 sq. ft. (557 m²).

903.2.14 Buildings Constructed under the *International Residential Code*. An automatic sprinkler system installed in accordance with Section 903.3.1.3 shall be provided throughout all detached one and two-family dwellings and multiple single-family dwellings (townhouses), complying with the requirements of the *International Residential Code*, whose total aggregate fire area exceeds 6,000 square feet (557 m²).

Exception: Unless otherwise required by more restrictive local codes, policies, amendments, ordinances, or plat notes.

- (60) Section 903.3.1.3 is amended to read as follows:

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

- (61) Section 903.3.8 is amended to read as follows:

903.3.8 Limited area sprinkler systems. Limited area sprinkler systems as required in the *International Residential Code* shall be in accordance with the standards listed in Section 903.3.1 except as provided in Sections 903.3.8.1 through 903.3.8.5.

- (62) Section 903.4 is amended to read as follows:

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

Exceptions:

1. *Automatic sprinkler system* valves, pumps, and tanks in one- and two-family *dwellings*.
2. Jockey pump control valves that are sealed or locked in the open position.
3. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
4. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.

- (63) **Section 905.3 Required installations.** is amended by deleting the Exception.

- (64) Section 905.3.1 is amended to read as follows:

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

1. The floor level of the highest story is more than 20 feet (6035 mm) above the lowest level of fire department vehicle access,
2. The floor level of the lowest story is located more than 20 feet (6035 mm) below the highest level of fire department vehicle access.

- (65) Section 905.3 is amended by adding a new subsection to read as follows:

905.3.2 Building Area. In buildings exceeding 10,000 sq. ft. (929 m²) within surrounding exterior walls, an approved Class I standpipe system shall be provided where any portion of the building's interior is more than 140 feet (42.67 m) of travel, vertically and/or horizontally, from the nearest point of fire department vehicle access.

- (66) **Section 905.4 Location of Class I standpipe hose connections.** Conditions # 1 and 6 are amended to read as follows:

1. In every required *interior exit stairway*, a hose connection shall be provided for each story above and below grade plane. Hose connections shall be located at the intermediate landing unless otherwise *approved* by the *fire code official*.

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6. Where the most remote portion of a nonsprinklered floor or story is more than 140 feet (42672 mm) from a hose connection or the most remote portion of a sprinklered floor or story is more than 200 feet (60960 mm) from a hose connection, the *fire code official* is authorized to require that additional hose connections be provided in *approved* locations.

(67) Section 907.6.6 is amended to read as follows:

907.6.6 Monitoring. Fire protection systems required by this chapter, the *International Building Code*, or the *International Residential Code*, shall be monitored by an *approved* supervising station in accordance with NFPA 72.

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

1. Single- and multiple-station smoke alarms required by Section 907.2.10.
2. Smoke detectors in Group I-3 occupancies.

(68) Section 915.1 is amended to read as follows:

915.1 General. Carbon monoxide detection shall be installed in new buildings in accordance with Sections 915.1.1 through 915.6 and in accordance with Colorado Revised Statutes. Carbon monoxide detection shall be installed in existing buildings in accordance with Section 1103.9 and in accordance with Colorado Revised Statutes.

(69) **Section 1010.1.9.4 Locks and latches.** Condition 2.2 is amended to read as follows:

2.2. A readily visible, durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS. The sign shall be in letters 1 inch (25 mm) high on a contrasting background.

(70) Section 1103.5 is amended to read as follows:

1103.5 Sprinkler systems. An *automatic sprinkler system* shall be provided in existing buildings in accordance with Sections 1103.5.1 through 1103.5.5.

(71) Section 1103.5 is further amended by adding four new subsections to read as follows:

1103.5.5 Additions and alterations to existing buildings. Existing buildings constructed prior to adoption of this code, with a fire area exceeding 6,000 square feet (557 m²), undergoing additions, alterations or remodel work shall be evaluated under the *International Fire Code*, for the need for additional fire protection. Portions of buildings separated by approved fire walls as outlined in Chapter 7, Section 707 of the *International Building Code* may be considered as separate buildings.

1103.5.5.1 Existing buildings with a fire area not exceeding 6,000 sq. ft. (557 m²). An automatic sprinkler system shall be provided throughout a

building undergoing an addition and/or alteration work whose new aggregate fire area of the building exceeds 6,000 square feet (557 m²).

1103.5.5.2 Existing buildings with a fire area exceeding 6,000 sq. ft. (557 m²). An automatic sprinkler system shall be provided throughout a building undergoing addition work that increases the fire area of the existing building.

1103.5.5.3 Alterations to existing buildings with a fire area exceeding 6,000 sq. ft. (557 m²). An automatic sprinkler system shall be provided throughout a building when the area undergoing alterations equals or exceeds 50% of the aggregate fire area of the building.

Exception: Alterations limited to the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using the same materials, elements, equipment or fixtures that serve the same purpose.

- (72) Section 1103.6.1 is amended to read as follows:

1103.6.1 Existing multi-story buildings. Existing buildings with occupied floors located more than 40 feet (12192 mm) above the lowest level of fire department access or more than 40 feet (12192 mm) below the highest level of fire department access shall be equipped with standpipes.

- (73) Section 1103.9 is amended to read as follows:

1103.9 Carbon monoxide alarms. Carbon monoxide alarms shall be installed in existing dwelling units and sleeping units where those units include any of the conditions identified in Sections 915.1. The carbon monoxide alarms shall be installed in the locations specified in Section 915.2 and the installation shall be in accordance with Section 915.4.

- (74) **Section 2403.2.7 Welding warning signs.** is amended by changing the sign language to read as follows:

NO WELDING
THE USE OF WELDING OR
SIMILAR SPARK-PRODUCING
EQUIPMENT IN OR NEAR THIS AREA
IS DANGEROUS BECAUSE OF FIRE
AND EXPLOSION HAZARDS. WELDING
AND CUTTING SHALL BE DONE ONLY
UNDER THE SUPERVISION OF THE
PERSON IN CHARGE.

- (75) Section 3103.2 is amended to read as follows:

3103.2 Approval required. Tents and membrane structures having an area in excess of 200 square feet (19 m²) shall not be erected, operated or maintained for any purpose without first obtaining a permit and approval from the *fire code official*.

Exception:

Tents used exclusively for recreational camping purposes.

- (76) Section 3103.6 is amended to read as follows:

3103.6 Construction documents. A detailed site and floor plan for tents or membrane structures shall be provided with each application for approval. The tent or membrane structure floor plan shall indicate details of the *means of egress* facilities, seating capacity, arrangement of the seating and location and type of heating and electrical equipment. The *construction documents* shall include an analysis of structural stability.

- (77) Section 3105.2 is amended to read as follows:

3105.2 Approval. Temporary special event structures in excess of 200 square feet (18.58 m²) shall not be erected, operated or maintained for any purpose without first obtaining approval and a permit from the *fire code official* and the building official.

- (78) **Section 5001.1 Scope.** Exception # 10 is amended to read as follows:

10. The storage of wines in wooden barrels and casks.

- (79) Section 5104.2.2 is amended to read as follows:

5104.2.2 Aerosol cooking spray products. Storage of aerosol cooking spray products in A, B, E, F, M and R occupancies shall not be more than 1,000 pounds (454 kg) net weight.

- (80) **Section 5701.2 Nonapplicability.** condition # 10 is amended to read as follows:

10. The storage of wines in wooden barrels and casks.

- (81) **Chapter 80 REFERENCED STANDARDS** is amended by adding the following to the existing list of standards:

NFPA 1 – 2015 Fire Code, Chapter 38.

- (82) **Table B105.1(1) REQUIRED FIRE FLOW FOR ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES** is amended by deleting both references to Section P2904 of the *International Residential Code*.

- (83) Section D103.6 is amended to read as follows:

D103.6 Signs. Where required by the *fire code official*, fire apparatus access roads shall be marked with permanent NO PARKING—FIRE LANE signs complying with Figure D103.6. Signs shall have a minimum dimension of 12 inches (305 mm) wide by 18 inches (457 mm) high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road as required

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by Section D103.6.1 or D103.6.2 and at intervals as required by the Fire Code Official.

- (84) Section J101.1 is amended to read as follows:

J101.1 Scope. New buildings shall have a building information sign(s) that shall comply with Sections J101.1.1 through J101.7. Existing buildings may be brought into conformance with Sections J101.1 through J101.9 when one of the following occurs:

- (85) Section N103.3 is amended to read as follows:

N103.3 Crowd managers. Where events involve a gathering of more than 500 people, trained crowd managers shall be provided in accordance with Section 403.12.3.

- (86) The *International Fire Code* is further amended by adding a new appendix chapter to read as follows:

APPENDIX O FIRE REGULATIONS

This appendix helps land management agencies reduce fire risk and prevent wildfires within Summit County where there is above average exposure to the Wildland Urban Interface (WUI).

SECTION O101 GENERAL

O101.1 Scope. This appendix is intended to identify the restrictions to recreational fires, open burning, fire management, smoking, and using internal combustion engines under conditions not covered by any Federal, State, or Local fire restrictions.

SECTION O201 DEFINITIONS

O201.1 Definitions. The following terms are defined in Chapter 2:

Controlled Burning
Open Burning
Permanent Fire Ring
Portable Outdoor Fireplace
Recreational Fire

SECTION O301 RECREATIONAL FIRE

O301.1 Recreational Fire. Outdoor recreational fires on private property shall be allowed under the following conditions:

1. A valid permit has been issued.
2. The fire is contained to:

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- 2.1 Permanent outdoor fireplace or fire ring with a screen to reduce the spread of embers.
- 2.2 Portable outdoor fireplace that is assembled, located, and operated in accordance with the manufacturer's instructions with a screen to reduce the spread of embers.
- 2.3 A commercially designed chiminea with a screen to reduce the spread of embers.
3. The area directly underneath the fireplace or chiminea is barren of flammable material.
4. The fireplace or chiminea is located at least 15 feet (4.572 m) from any flammable material and/or structure.
5. The fire is contained within an approved fireplace or fire ring and the fire has a total fuel area of 3 feet (914 mm) or less in diameter and 2 feet (1.2192 m) or less in height and utilizes a non-toxic fuel source such as wood or charcoal.

Exceptions:

1. Fires built within designated dispersed camping sites or picnic areas contained within a permanent metal fire ring as long as the fire has a total fuel area of 3 feet (0.9144 m) or less in diameter and 2 feet (1.2192 m) or less in height and utilizes a wood or charcoal.
2. Fires contained within a fireplace, stove, wood burning stove, or pellet stove designed for and located within a fully enclosed permanent structure.

O301.2 Fire Prevention Measures. Individuals operating a fire in compliance with the O301.1 shall provide the following safety equipment to prevent the spread of the fire:

1. The fire shall be constantly attended by a responsible adult.
2. The fire shall be extinguished and cool to the touch prior to leaving the site unattended.
3. There shall be available for immediate utilization one of the following:
 - 3.1 A portable fire extinguisher with a minimum 2A-10B:C rating.
 - 3.2 A 5 gallon container filled with water.
 - 3.3 A charged garden hose available for immediate utilization.

SECTION O401 CONTROLLED BURNING

O401.1 Controlled burning. Burning for the purposes of meeting specific land management objectives, such as to reduce flammable fuels, restore ecosystem health, recycle nutrients, or prepare an area for new trees or vegetation shall be allowed under the following conditions:

1. A valid permit has been issued.
2. The fire shall be constantly attended by a responsible adult.
3. The fire shall be extinguished and cool to the touch prior to leaving the site unattended.
4. Within the approved burn site, the fire has a total fuel area of 8 feet (2.4384 m) or less in diameter and 4 feet (1.2192 m) or less in height.
5. There shall be available for immediate utilization one of the following:
 - 5.1 A portable fire extinguisher with a minimum 2A-10B:C rating.
 - 5.2 A 5 gallon container filled with water.
 - 5.3 A charged garden hose available for immediate utilization.

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6. The approved burn area is located at least 50 feet (15.24 m) from any flammable material and/or structure.

O401.2 Fire Management. Fires caused or administered by any Federal, State, or Local officer or member of an organized rescue or firefighting force shall be permitted if the following conditions are met:

1. Notice is given to the fire department or Fire Code Official.
2. The fire is performed as part of an official duty.

O401.3 Restrictions. The Fire Code Official has the right to restrict controlled burning to certain times of the year outside the scope of Federal, State, or Local fire restrictions.

SECTION O501 SMOKING

O501.1 Outdoor Smoking. Outdoor smoking shall be permitted under the following conditions:

1. The individual smoking shall be at least 3 feet (0.914 m) away from natural vegetation and/or flammable materials.
2. All burning objects shall be properly extinguished and disposed of in a sealed container.

SECTION O601 USE OF INTERNAL COMBUSTION ENGINES

O601.1 General. The operation of a chainsaw, trimmer, mower, or similar internal combustion engine driven equipment shall be permitted under the following conditions:

1. The operator shall have a 2A-10B:C rated dry chemical fire extinguisher available for immediate use.
2. The engine shall be equipped with an approved spark arresting device.

SECTION O701 FIREWORKS AND EXPLOSIVES

O701.1 Fireworks. The use and sale of recreational fireworks shall be prohibited.

Exception: Fireworks permitted under Town or County codes and/or ordinances.

O701.2 Explosives. The use and sale of recreational explosives including explosive targets or tracer ammunition shall be prohibited.

Exception: Explosives permitted under Town or County codes and/or ordinances.

SECTION O801 OPEN FLAME DEVICES

O801.1 Open flame torch devices. The use of any open flame torch device shall be permitted under the following conditions:

1. A valid permit has been issued.
2. The operator shall have a 2A-10B:C rated dry chemical fire extinguisher available for immediate use.

The use of the device shall be at least 15 feet (4.572m) away from natural vegetation and/or flammable materials.

- (87) The *International Fire Code* is further amended by adding a new appendix chapter to read as follows:

APPENDIX P WILDFIRE MITIGATION

This appendix provides requirements for wildfire mitigation where not otherwise regulated by local ordinances.

SECTION P101 GENERAL

P101.1 Scope. This appendix provides a methodology for reducing wildland fire ignition hazards around structures that will be located in a wildland-urban interface area and provides minimum requirements to reduce the potential of structure ignition from wildland fires while ensuring continuity between required and voluntary mitigation activities.

SECTION P201 DEFINITIONS

P201.1 Definitions. The following terms are defined in Chapter 2:

Defensible Space
Firewise® Landscaping
Ground Fuels
Mitigation
Structure Ignition Zone
Tree Crown
Wildland-Urban Interface

SECTION P301 FUEL MODIFICATION AREA

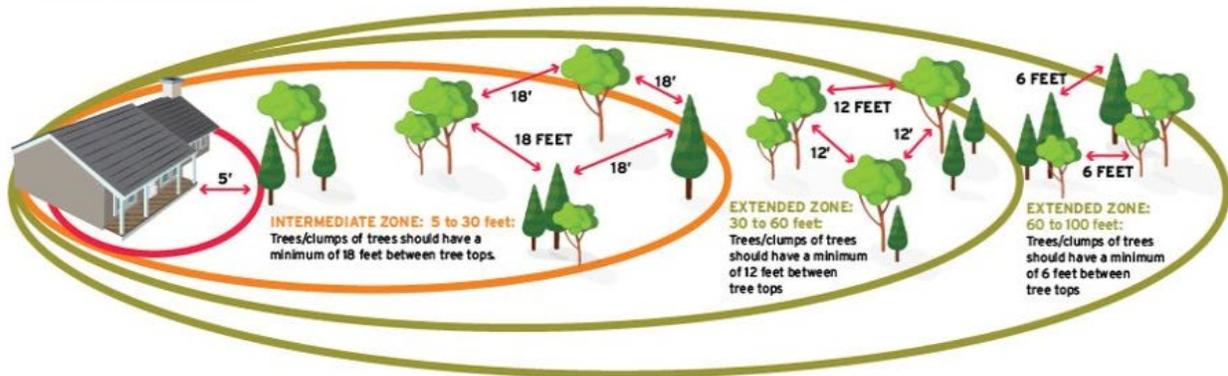
P301.1 General. The property shall be divided into three zones. These zones are (Figure P301):

1. The Immediate Zone -- 0 to 5 feet from the furthest attached exterior point of the home
2. The Intermediate zone -- 5 to 30 feet from the furthest attached exterior point of the home.
3. The Extended Zone, 30 to 60 feet and 60 to 100 feet from the furthest attached exterior point of the home.

Exception:

1. Nothing in this appendix shall require the removal of healthy trees, shrubs, and other landscaping materials required by a Town or the County as part of an approved landscaping plan.
2. Property past a property line.

FIGURE P301



SECTION P401 THE IMMEDIATE ZONE

P401.1 General. This is the most important zone of the defensible space, according to the Firewise® program, to take immediate action on as it is the most vulnerable to embers. The following specific standards apply to the creation of defensible space within the Immediate Zone:

1. All dead and diseased trees, shrubs, and other landscaping materials shall be removed.
2. All vegetation and combustible and flammable materials shall be moved away from exterior walls, under the eaves, and/or decks. This includes:
 - 2.1 Mulch
 - 2.2 Ground fuels
 - 2.3 Flammable plants
 - 2.4 Leaves and needles
 - 2.5 Firewood piles

SECTION P501 THE INTERMEDIATE ZONE

P501.1 General. This is the landscaping/hardscaping zone of the defensible space through the use of careful landscaping or creating breaks that can help influence and decrease fire behavior. The following specific standards apply to the creation of defensible space within the Intermediate Zone:

1. All dead and diseased trees, shrubs, and other landscaping materials shall be removed.
2. Removal of ladder fuels (vegetation under trees) shall occur so a surface fire cannot reach the crowns of the trees.
 - 2.1 Limb up trees to a height of 10 feet. For shorter trees, trim to a height of 1/3 of the overall tree height.
3. Trees shall be spaced to have a minimum of eighteen feet between the crowns with the distance increasing with the percentage of slope.
4. Firewise® trees and shrubs in this zone should be limited to small clusters of a few each to break up the continuity of the vegetation across the landscape.
5. Irrigated trees, shrubs, and other landscaping material shall be preserved if they are limbed to remove dead branches and well-spaced to reduce the risk of a fire spreading to other vegetation or structures.

**SECTION P601
THE EXTENDED ZONE UP TO 60 FEET**

P601.1 General. This zone focuses on interrupting a fire's path and keeping the flames smaller and on the ground by:

1. All dead and diseased trees, shrubs, and other landscaping materials shall be removed.
2. The accumulation of ground litter and debris shall be disposed of or dispersed.
3. Small conifers growing between mature trees shall be removed.
4. Vegetation adjacent to storage or other outbuildings shall be removed.
5. Trees shall be spaced to have a minimum of twelve feet between the crowns with the distance increasing with the percentage of slope.

**SECTION P701
THE EXTENDED ZONE OVER 60 FEET**

P701.1 General. This zone focuses on interrupting a fire's path and keeping the flames smaller and on the ground by:

1. All dead and diseased trees, shrubs, and other landscaping materials shall be removed.
2. The accumulation of ground litter and debris shall be disposed of or dispersed.
3. Small conifers growing between mature trees shall be removed.
4. Vegetation adjacent to storage or other outbuildings shall be removed.
5. Trees shall be spaced to have a minimum of six feet between the crowns with the distance increasing with the percentage of slope.

§65-5. Amendments to the *International Code Council Electrical Code Administrative Provisions.*

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Electrical Code—Administrative Provisions* of The Town of Frisco and shall be cited as such. The *ICC Electrical Code - Administrative Provisions* in combination with the separately adopted *National Electrical Code* will be referred to herein as “this code.”

- (2) Section 201.3 is amended to read as follows:

201.3 Terms defined in other codes. Where terms are not defined in this code and are defined in the *International Building Code, International Energy Conservation Code, International Fire Code, International Fuel Gas Code, International Mechanical Code, International Plumbing Code, International Residential Code*, or NFPA 70, such terms shall have meanings ascribed to them as in those codes.

- (3) Chapter 3, Sections 401.1 and 401.2 concerning organization and enforcement are deleted in its entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code

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of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of this code.

- (4) Section 401.3 is deleted in its entirety and replaced with a new section to read as follows:

401.3 Work exempt from permits. The following work shall be exempt from the requirements for a permit:

1. Listed cord and plug connected temporary decorative lighting.
2. Reinstallation of attachment plug receptacles, but not the outlets therefor.
3. Repair or replacement of branch circuit overcurrent devices of the required capacity in the same location.
4. Temporary wiring for experimental purposes in suitable experimental laboratories.
5. Electrical wiring, devices, appliances, apparatus or equipment operating at less than 25 volts and not capable of supplying more than 50 watts of energy.
6. Portable motors or other portable appliances energized by means of a cord or cable having an attachment plug end to be connected to an approved receptacle when that cord or cable is permitted by this code.
7. Repair or replacement of fixed motors, transformers or fixed approved appliances of the same type and rating in the same location.
8. Repair or replacement of current-carrying parts of any switch, contactor or control device.
9. Repair or replacement of electrodes or transformers of the same size and capacity for signs or gas tube systems.
10. The wiring for temporary theater, motion picture, television stage sets, or special event facilities.
11. Low-energy power, control, and signal circuits of Class II and Class III as defined in this code.
12. The installation, alteration, or repair of electrical wiring, apparatus, or equipment, or the generation, transmission, distribution or metering of electrical energy, or in the operation of signals or the transmission of intelligence by public or private utilities in the exercise of their function as a serving utility.

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

- (5) Sections 402, 403, 404, Chapters 5 and 6, and Section 701 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *Electrical Code*.

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- (6) Sections 702.1.7 through 702.8 are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *Electrical Code*.
- (7) Chapters 8, 9, 10, 11, and Sections 1202 and 1203 are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *Electrical Code*.

§65-6. Amendments to the *International Mechanical Code*.

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Mechanical Code* of The Town of Frisco, hereinafter referred to as “this code.”
- (2) Sections 103, 104, 105, and 106.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Mechanical Code*.
- (3) Sections 106.3 through 106.5.3, and 107.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Mechanical Code*.
- (4) Sections 107.2.1 through 107.6, 108, 109 and 110 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Mechanical Code*.
- (5) Section 202 is amended by adding the following definition within the alphabetical order of the existing definitions.

FIRE DEPARTMENT. The chief officer of Summit Fire and EMS Authority or the chief officer’s authorized representative.
- (6) **Section 401.4 Intake opening location.** is amended by adding a new condition to read as follows:
 5. All air intake openings required by this code that terminate outdoors shall be located a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (7) Section 701 is amended by adding a new subsection to read as follows:

701.3 Snow depth. All combustion air openings and ducts terminating on the outside shall be a minimum of 36 inches above final grade. If a ventilated crawl space is utilized as a combustion air source, ventilation louvers must be a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings and duct terminations may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (8) Section 802.3 is amended by adding a new subsection to read as follows:

802.3.1 Enclosure. Portions of venting systems which extend through occupied and storage spaces shall be enclosed to avoid contact with or damage to the installation.

- (9) **Section 804.3.4 Horizontal terminations.** requirement # 6 is amended to read as follows:

6. The bottom of the vent termination shall be located not less than 36 inches (914 mm) above finished grade.

- (10) Section 805 is amended by adding a new section to read as follows:

805.8 Chimney enclosure. Factory-built chimneys shall be enclosed within a continuous enclosure protected on the interior (flue) by not less than 5/8-inch Type X gypsum wallboard.

Exception: The portion of the chimney located in the same room as the appliance and the portion of the chimney above the finished roof is not required to be enclosed.

- (11) Section 903.3 is amended to read as follows:

903.3 Unvented gas log heaters. An unvented gas log heater shall not be installed in a factory-built fireplace.

- (12) Section 1208.1 is amended to read as follows:

1208.1 General. Hydronic piping systems shall be tested hydrostatically at one and one half times the maximum system design pressure, but not less than 100 psi (689 kPa). The duration of each test shall be not less than 15 minutes. Hydronic tubing may be tested with a 50 (psi) air test for 30 minutes.

- (13) Section 1210.10 is amended to read as follows:

1210.10 Tests. Before connection header trenches are backfilled, the assembled loop system shall be pressure tested with water at 100 psi (689 kPa) for 15 minutes, in which time there shall not be observed leaks. Flow and pressure loss testing shall be performed and the actual flow rates and pressure drops shall be compared to the calculated design values. If actual flow rate or pressure drop values differ from calculated design values by more than 10 percent, the cause shall be identified and corrective action taken. Assembled loop systems may be tested with a 50 (psi) air test for 30 minutes.

§65-7. Amendments to the *International Plumbing Code*.

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Plumbing Code* of the Town of Frisco hereinafter referred to as “this code.”

- (2) Section 101.3 is amended to read as follows:

101.3 Intent. The purpose of this code is to establish minimum standards to provide a reasonable level of safety, health, property protection and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of plumbing equipment and systems. The intent of this code is to meet or exceed the requirements of the State of Colorado Plumbing Code. When technical requirements, specifications or standards in the Colorado Plumbing Code conflict with this code, the more restrictive provision shall apply.

- (3) Sections 103, 104, 105 and 106.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Plumbing Code*.
- (4) Sections 106.3 through 106.6.3, and 107.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Plumbing Code*.
- (5) Sections 107.2.1 through 107.7, 108, 109 and 110 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Plumbing Code*.
- (6) Section 202 is amended by adding the following definition within the alphabetical order of the existing definitions.

FIRE DEPARTMENT. The chief officer of Summit Fire and EMS Authority or the chief officer’s authorized representative.

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- (7) Section 305.4.1 is amended to read as follows:

305.4.1 Sewer depth. Building sewers shall be installed in accordance with the standards and approval of the Frisco Sanitation District.

- (8) Section 312.3 is amended to read as follows:

312.3 Drainage and vent air test. An air test shall be made by forcing air into the system until there is a uniform gauge pressure of 5 psi (34.5 kPa) or sufficient to balance a 10-inch (254 mm) column of mercury. This pressure shall be held for a test period of not less than 15 minutes. Any adjustments to the test pressure required because of changes in ambient temperatures or the seating of gaskets shall be made prior to the beginning of the test period.

- (9) Section 312.5 is amended to read as follows:

312.5 Water supply system test. Upon completion of a section of or the entire water supply system, the system, or portion completed, shall be tested and proved tight under a water pressure not less than the working pressure of the system; or by an air test of not less than 50 psi (344 kPa). This pressure shall be held for not less than 15 minutes. The water utilized for tests shall be obtained from a potable source of supply. The required tests shall be performed in accordance with this section and Section 107.

- (10) Section 312.6 is amended to read as follows:

312.6 Gravity sewer test. Testing of the building sewer shall be in accordance with the standards and approval of the Frisco Sanitation District.

- (11) Section 312.7 is amended to read as follows:

312.7 Forced sewer test. Testing of the building sewer shall be in accordance with the standards and approval of the Frisco Sanitation District.

- (12) **Section 403.2 Separate facilities.** Is amended by changing Exception 2 to read as follows:

2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 30 or fewer.

- (13) Section 413 is amended by adding a new subsection to read as follows:

413.5 Boiler rooms. Boiler rooms, water heater rooms, mechanical rooms, and similar utility spaces shall be equipped with a floor drain or other means suitable for disposing of condensates, relief valve drainage, safety pan drainage, as well as the accumulation of liquid wastes incidental to cleaning, recharging, and routine maintenance.

- (14) **Section 504.6 Requirements for discharge piping.**, condition # 5 is amended to read as follows:

5. Discharge to the floor, to the pan serving the water heater or storage tank, to a waste receptor located within conditioned space, or by other approved means within the building.

(15) Section 701.2 is amended to read as follows:

701.2 Connection to sewer required. Sanitary drainage piping from plumbing fixtures in buildings and sanitary drainage piping systems from premises shall be connected to a public sewer.

(16) Section 903.1 is amended to read as follows:

903.1 Roof extension. Open vent pipes that extend through a roof shall be terminated not less than 12 inches (305 mm) above the roof. Where a roof is to be used for assembly or as a promenade, observation deck, sunbathing deck or similar purposes, open vent pipes shall terminate not less than 7 feet (2134 mm) above the roof.

(17) Section 1106.1 is amended to read as follows:

1106.1 General. The size of the vertical conductors and leaders, building storm drains, building storm sewers, and any horizontal branches of such drains or sewers shall be based on the 100-year hourly rainfall rate of two (2) inches (50.8 mm) per hour.

(18) Section 1109.1 is deleted in its entirety and replaced with a new section to read as follows:

1109.1 Combination sanitary and storm public sewer. Combination sanitary and storm drains or sewers are prohibited.

(19) Section 1301.1 is amended to read as follows:

1301.1 Scope. The provisions of Chapter 13 shall govern the materials, design, construction and installation of systems for the collection, storage, treatment and distribution of nonpotable water. All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to the State of Colorado Plumbing Code as adopted by the State Plumbing Board.

(20) Section 1401.1 is amended to read as follows:

1401.1 Scope. The provisions of this chapter shall govern the materials, design, construction and installation of subsurface landscape irrigation systems connected to nonpotable water from on-site water reuse systems. All non-potable water sources and reclaimed water systems are to be compliant to this code and the latest version of any amendments to State of Colorado Plumbing Code as adopted by the State Plumbing Board.

§65-8. Amendments to the *International Fuel Gas Code*.

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Fuel Gas Code* of the Town of Frisco, hereinafter referred to as “this code.”
- (2) Sections 103, 104, 105, and 106.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Fuel Gas Code*.
- (3) Sections 106.3 through 106.6.3, and 107.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Fuel Gas Code*.
- (4) Sections 107.2.1 through 107.2.5.3 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Fuel Gas Code*.
- (5) Sections 107.4 through 107.6, 108, 109 and 110 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Fuel Gas Code*.
- (6) **Section 303.3 Prohibited locations.** is amended by deleting exceptions # 3 and 4 in their entirety.
- (7) Section 304.11, condition # 8 is amended to read as follows:
 8. *Combustion air* intake openings located on the exterior of a building shall have the lowest side of such openings located not less than 36 inches (914 mm) vertically from the adjoining finished ground level.

Exception: With prior approval of the building official, openings and duct terminations may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.
- (8) Section 406.4.1 is amended to read as follows:

406.4.1 Test pressure. The test pressure to be used shall be no less than 1-1/2 times the proposed maximum working pressure, but not less than 10 psig (69 kPa gauge) for threaded pipe, 60 psig for welded pipe, 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 *pipng* greater than 50 percent of the specified minimum yield strength of the pipe.

- (9) Section 501.8 is amended to read as follows:

501.8 Appliances not required to be vented. The following appliances shall not be required to be vented.

1. Ranges
2. Built-in domestic cooking units *listed* and marked for optional venting
3. Hot plates and laundry stoves
4. Type 1 clothes dryers (Type 1 clothes dryers shall be exhausted in accordance with the requirements of Section 614.)
5. A single booster-type automatic instantaneous water heater, where designed and used solely for the sanitizing rinse requirements of a dishwashing machine, provided that the heater is installed in a commercial kitchen having a mechanical exhaust system. Where installed in this manner, the draft hood, if required, shall be in place and unaltered and the draft hood *outlet* shall be not less than 36 inches (914 mm) vertically and 6 inches (152 mm) horizontally from any surface other than the heater.
6. Refrigerators
7. Counter appliances
8. Direct-fired make-up air heaters
9. Other appliances *listed* for unvented use and not provided with flue collars
10. Specialized equipment of limited input such as laboratory burners and gas lights.

Where the appliances listed in items 5 through 10 above are installed so that the aggregate input rating exceeds 20 British thermal units (Btu) per hour per cubic foot (207 watts per m³) of volume of the room or space in which such appliances are installed, one or more shall be provided with venting systems or other approved means for conveying the vent gases to the outdoor atmosphere so that the aggregate input rating of the remaining unvented appliances does not exceed 20 Btu per hour per cubic foot (207 watts per m³). Where the room or space in which the *appliance* is installed is directly connected to another room or space by a doorway, archway, or other opening of comparable size that cannot be closed, the volume of such adjacent room or space shall be permitted to be included in the calculations.

- (10) Section 501.14 is amended by adding a new subsection to read as follows:

501.14.1 Snow depth. Venting systems and air intakes terminating horizontally shall be a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

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- (11) Section 502.5 is amended by adding a new subsection to read as follows:
- 502.5.1 Enclosure.** Portions of venting systems which extend through occupied and storage spaces shall be enclosed to avoid contact with or damage to the installation.
- (12) Section 503.4.1 is amended by adding a new subsection to read as follows:
- 503.4.1.2 Pressure test required.** All plastic piping vent installations shall be tested with a 5 psi air test for 15 minutes, prior to connection and operation of the appliance.
- (13) Section 503.5.1 is amended to read as follows:
- 503.5.1 Factory-built chimneys.** Factory-built chimneys shall be listed in accordance with UL103 and installed in accordance with the manufacturer's installation instructions and Section 506. Factory-built chimneys used to vent appliances that operate at a positive vent pressure shall be *listed* for such application.
- (14) Section 503.6.5.1 is amended to read as follows:
- 503.6.5.1 Decorative shrouds.** Decorative shrouds shall not be installed at the termination of gas vents except where such shrouds are *listed* for use with the specific gas venting system and are installed in accordance with manufacturer's installation instructions.
- Exception:** Decorative shrouds at the termination of vents serving only gas-fired decorative vented appliances that are constructed entirely of noncombustible materials, provide unobstructed openings to outdoor air on all sides, provide clearances per the appliance manufacturer's instructions, and are approved by the building official.
- (15) **Section 503.8 Venting system termination location.** is amended by changing Items # 2 and 3 to read as follows:
2. A mechanical draft venting system, excluding *direct-vent appliances*, shall terminate not less than 4 feet (1219 mm) below, 4 feet (1219 mm) horizontally from, or 1 foot (305 mm) above any door, operable window or gravity air inlet into any building. The bottom of the vent terminal shall be located not less than 36 inches (914 mm) above finished ground level.
 3. The clearances for through-the-wall, direct-vent terminals shall be in accordance with Table 503.8. The bottom of the vent terminal and the air intake shall be located not less than 36 inches (914 mm) above finished ground level.
- (15) Section 506 is amended by adding a new subsection to read as follows:
- 506.4 Factory-built chimney enclosures.** Factory-built chimneys shall be enclosed within a continuous enclosure protected on the interior (flue) by not less than 5/8-inch Type X gypsum wallboard.

Exception: The portion of the chimney located in the same room as the appliance and the portion of the chimney above the finished roof is not required to be enclosed.

- (17) Section 601 is amended by adding a new subsection to read as follows:

601.2 Snow depth. All air intake openings required by this code that terminate outdoors shall be located a minimum of 36 inches above final grade.

Exception: With prior approval of the building official, openings may be protected from snow accumulation and drifting by decks, roofs, cantilevers, or similar means providing equivalent protection.

- (18) Section 602.1 is amended by adding a new subsection to read as follows:

602.1.1 Damper. The fireplace damper shall be completely removed to prevent spillage of combustion products into the room.

- (19) Section 603.1 is amended to read as follows:

603.1 General. Log lighters are prohibited.

- (20) Section 621 is deleted in its entirety and replaced with a new section to read as follows:

SECTION 621 UNVENTED ROOM HEATERS

621.1 Prohibited installation. Installation of unvented room heaters is prohibited.

§65-9. Amendments to the *International Energy Conservation Code*. [Amended 04-14-20, Ord. 20-04]

- (1) Section C101.1 is amended to read as follows:

C101.1 Title. This code shall be known as the *Energy Conservation Code* of the Town of Frisco, and shall be cited as such. It is referred to herein as “this code.”

- (2) **C101.6 Summit Sustainable Building Code. (SSBC)** In addition to the requirements of Section C101.5, new buildings shall comply with the Summit Sustainable Building Code, in accordance with Sections C101.6.1 and C101.6.2.

C101.6.1 Residential SSBC. All new structures classified as Residential Group R-2, R-3 or R-4 occupancies above 3 stories and not more than 5 stories shall comply with amended Section R101.6 of this code.

C101.6.2 Commercial SSBC. All new structures defined as a *Commercial Building* in Chapter 2 other than those described in Section C101.6.1, shall comply with amended sections C401.2, C404.11 and C405.10.

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- (3) Sections C103 through C105.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Energy Conservation Code – Commercial Provisions*.
- (4) Sections C105.3 through C109 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Energy Conservation Code – Commercial Provisions*.
- (5) Section C202 is amended by adding the following new definitions within the alphabetical order of the existing definitions:

ELECTRIC VEHICLE (EV). A vehicle registered for on-road use, primarily powered by an electric motor that draws current from a rechargeable storage source that is charged by being plugged into an electrical current source.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The electrical conductors and associated equipment external to the *electric vehicle* that provide a connection between the premises wiring and the *electric vehicle* to provide *electric vehicle* charging.

EV CAPABLE SPACE. A designated parking space which is provided with a listed raceway capable of accommodating a 40-ampere minimum 208/240-volt dedicated branch circuit for each future *EVSE Installed* parking space. Raceways shall not be less than trade size 1 (nominal 1-inch inside diameter). Raceways shall originate at the main service or subpanel and shall terminate into a listed cabinet, box, or enclosure in close proximity to the proposed location of the *EV Capable* parking spaces. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum 208/240-volt dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overprotection device.

EV READY SPACE. A designated parking space which is provided with one minimum 40-ampere, 208/240-volt dedicated branch circuit for *EVSE* servicing electric vehicles. The circuit shall terminate in a suitable termination point such as a receptacle, junction box, or an *EVSE*, and be located in close proximity to the proposed location of the *EV Ready* parking space.

EVSE INSTALLED SPACE. A parking space with *electric vehicle supply equipment* capable of supplying a 40-ampere dedicated branch circuit rated at 208/240 volt from a building electrical panel board.

- (6) Section C302.1 is amended to read as follows:

C302.1 Design conditions. The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72° F (22° C) for heating and minimum of 75° F (24° C) for cooling. The winter design dry-bulb (F) shall be -13, heating degree days shall be 11,019, and climate zone 7. The winter design dry-bulb (F) shall be -13, heating degree days shall be 11,019, and climate zone 7.

(7) Section C401.2 Is amended to read as follows:

C401.2 Application. Commercial buildings shall comply with one of the following:

1. The requirements of ANSI/ASHRAE/IESNA 90.1. The building's annual energy cost shall achieve savings 25 percent or greater than the baseline building energy model developed using ASHRAE 90.1 Energy Cost Budget protocol.
2. The requirements of Sections C402 through C405 and C408. In addition, commercial buildings shall comply with amended Section C406 and tenant spaces shall comply with Section C406.1.1.
3. The requirements of Sections C402.5, C403.2, C403.3 through C403.3.2, C403.4 through C403.4.2.3, C403.5.5, C403.7, C403.8.1 through C403.8.4, C403.10.1 through C403.10.3, C403.11, C403.12, C404, C405, C407, and C408. The building energy cost shall be equal to or less than 75 percent of the standard reference design building.

(8) Section C404 is amended by adding a new section to read as follows:

C404.11. Building Water Use Reduction. Where required by Section C101.6.2, building water consumption shall be regulated by this section.

C404.11.1 Plumbing Fixtures and Fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following requirements, as shown in Table C404.11.1:

- a. **Water closets (toilets) – flushometer valve type.** For single-flush, maximum flush volume shall be determined in accordance with ASME A112.19.2/CSA B45.1 and shall not exceed 1.28 gal (4.8 L). For dual-flush, the full-flush volume shall not exceed 1.28 gal (4.8L) per flush. Dual-flush fixtures shall also comply with the provisions of ASME A112.19.14.
- b. **Water closets (toilets) – tank-type.** Tank-type water closets shall be certified to the performance criteria of the USEPA WaterSense Tank-Type High-Efficiency Toilet Specification and shall have a maximum full-flush volume of 1.28 gal (4.8 L). Dual-flush fixtures shall also comply with the provisions of ASME A112.19.14.
- c. **Urinals.** Maximum flush volume, when determined in accordance with ASME A112.19.2/CSA B45.1, shall not exceed 0.5 gal (1.9 L). Flushing urinals shall comply with the performance criteria of the USEPA

WaterSense Specification for Flushing Urinals. Nonwater urinals shall comply with ASME A112.19.19 (vitreous china) or IAPMO Z124.9 (plastic) as appropriate.

- d. Public lavatory faucets.** Maximum flow rate shall not exceed 0.5 gpm (1.9 L/min) when tested in accordance with ASME A112.18.1/CSA B125.1.
- e. Public metering self-closing faucet.** Maximum water use shall not exceed 0.25 gal (1.0 L) per metering cycle when tested in accordance with ASME A112.18.1/CSA B125.1.
- f. Residential bathroom lavatory sink faucets.** Maximum flow rate shall not exceed 1.5 gpm (5.7 L/min) when tested in accordance with ASME A112.18.1/CSA B125.1. *Residential* bathroom lavatory sink faucets shall comply with the performance criteria of the USEPA WaterSense High-Efficiency Lavatory Faucet Specification.
- g. Residential kitchen faucets.** Maximum flow rate shall not exceed 1.8 gpm (6.8 L/min) when tested in accordance with ASME A112.18.1/CSA B125.1. Kitchen faucets shall be permitted to temporarily increase the flow greater than 1.8 gpm (6.8 L/min) but shall not exceed 2.2 gpm (8.3 L/min) and must automatically revert to the established maximum flow rate of 1.8 gpm (6.8 L/min) upon physical release of the activation mechanism or closure of the faucet valve.
- h. Residential showerheads.** Maximum flow rate shall not exceed 2.0 gpm (7.6 L/min) when tested in accordance with ASME A112.18.1/CSA B125.1. *Residential* showerheads shall comply with the performance requirements of the USEPA WaterSense Specification for Showerheads.
- i. Residential shower compartment (stall) in dwelling units and guest rooms.** The allowable flow rate from all shower outlets (including rain systems, waterfalls, bodysprays, and jets) that can operate simultaneously shall be limited to a total of 2.0 gpm (7.6 L/min).

Exception: Where the area of a shower compartment exceeds 2600 in.² (1.7m²), an additional flow of 2.0 gpm (7.6 L/min) shall be permitted for each multiple of 2600 in.² (1.7m²) of floor area or fraction thereof.
- j. Water-bottle filling stations.** *Water-bottle filling stations* shall be an integral part of, or shall be installed adjacent to, not less than 50% of all drinking fountains installed indoors on the premises.

**TABLE C404.11.1
PLUMBING FIXTURES AND FITTINGS REQUIREMENTS**

PLUMBING FIXTURE	MAXIMUM
Water Closets (toilets) – flushometer single-flush valve type	Single-flush volume of 1.28 gal (4.8 L)
Water Closets (toilets) – flushometer dual-flush valve type	Full-flush volume of 1.28 gal (4.8 L)
Water Closets (toilets) – single-flush tank-type	Single-flush volume of 1.28 gal (4.8 L)
Water Closets (toilets) – dual-flush tank-type	Full-flush volume of 1.28 gal (4.8 L)

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Urinals	Flush volume 0.5 gal (1.9 L)
Public lavatory faucets	Flow rate – 0.5 gpm (1.9 L/min)
Public metering self-closing faucet	0.25 gal(1.0 L) per metering cycle
Residential bathroom lavatory sink faucets	Flow rate – 1.5 gpm (5.7 L/min)
Residential kitchen faucets	Flow rate – 1.8 gpm (6.8 L/min) ^a
Residential showerheads	Flow rate – 2.0 gpm (7.6 L/min)
Residential shower compartment (stall) in dwelling units and guest rooms	Flow rate from all shower outlets total of 2.0 gpm (7.6 L/min)

a. With provision for a temporary override to 2.2 gpm (8.3 L/min) as specified in Section C404.11.1(g)

C404.11.2 Appliances.

a. Clothes washers and dishwashers installed within dwelling units shall comply with the ENERGY STAR® Program Requirements for Clothes Washers and ENERGY STAR Program Requirements for Dishwashers. Maximum water use shall be as follows:

1. Clothes washers – Maximum water factor (WF) of 5.4 gal/ft³ of drum capacity (0.72 L/L of drum capacity).
2. Dishwashers – Standard-size dishwashers shall have a maximum WF of 3.8 gal/full operating cycle (14.3 L/full operating cycle). Compact sizes shall have a maximum WF of 3.5 gal/full operating cycle (13.2 L/full operating cycle). Standard and compact size shall be defined by ENERGY STAR criteria.

b. Clothes washers installed in publicly accessible spaces (*Informative Note:* e.g., multifamily and hotel common areas), and coin- and card-operated clothes washers of any size used in laundromats, shall have a maximum WF of 4.0 gal/ft³ of drum capacity normal cycle (.053 L/L of drum capacity normal cycle).

c. Commercial dishwashers in commercial food-service facilities shall meet all ENERGY STAR requirements as listed in the ENERGY STAR Program Requirements for Commercial Dishwashers, Version 2.0.

C404.11.3 Commercial Food Service Operations. Commercial food service operations (*Informative Note:* e.g., restaurants, cafeterias, food preparation kitchens, caterers, etc.):

- a. Shall use high-efficiency prerinse spray valves (i.e., valves that function at 1.3 gpm [4.9 L/min] or less and comply with a 26 second performance requirement when tested in accordance with ASTM F2324),
- b. Shall use dishwashers that comply with the requirements of the ENERGY STAR Program for Commercial Dishwashers,
- c. Shall use boilerless/connectionless food steamers that consume no more than 2.0 gal/h (7.5 L/h) in the full operational mode,

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- d. Shall use combination ovens that consume not more than 10 gal/h (38 L/h) in the full operational mode,
- e. Shall use air-cooled ice machines that comply with the requirements of the ENERGY STAR Program for Commercial Ice Machines, and
- f. Shall be equipped with hands-free faucet controllers (foot controllers, sensor activated, or other) for all faucet fittings within the food preparation area of the kitchen and the dish room, including pot sinks and washing sinks.

C404.11.4 Medical and Laboratory Facilities. Medical and laboratory facilities, including clinics, hospitals, medical centers, physician and dental offices, and medical and nonmedical laboratories of all types shall:

- a. Use only water-efficient steam sterilizers equipped with (1) water-tempering devices that allow water to flow only when the discharge of condensate or hot water from the sterilizer exceeds 140°F (60°C) and (2) mechanical vacuum equipment in place of venturi-type vacuum systems for vacuum sterilizers.
- b. Use film processor water-recycling units where large-frame x-ray films of more than 6 in. (150 mm) in either length or width are processed. Small dental x-ray equipment is exempt from this requirement.
- c. Use digital imaging and radiography systems where the digital networks are installed.
- d. Use a dry-hood scrubber system or, if the applicant determines that a wet-hood scrubber system is required, the scrubber shall be equipped with a water recirculation system. For perchlorate hoods and other applications where a hood wash-down system is required, the hood shall be equipped with self-closing valves on those wash-down systems.
- e. Use only dry vacuum pumps unless fire and safety codes (*Informative Note: e.g., International Fire Code*) for explosive, corrosive, or oxidative gases require a liquid ring pump.
- f. Use only efficient water treatment systems that comply with the following criteria:
 - 1. For all filtration processes, pressure gages shall determine and display when to backwash or change cartridges.
 - 2. For all ion exchange and softening processes, recharge cycles shall be set by volume of water treated or based on conductivity or hardness.
 - 3. For reverse osmosis and nanofiltration equipment with capacity greater than 27 gal/h (100 L/h), reject water shall not exceed 60% of the feed water and shall be used as scrubber feed water or for

other beneficial uses on the project site.

4. Simple distillation is not acceptable as a means of water purification.

g. With regard to food service operations within medical facilities, comply with Section C404.11.3.

(9) Section C405 is amended by adding a new subsection to read as follows:

C405.10. Electric vehicle charging for new construction. New buildings shall be provided with electric vehicle charging in accordance with this section and the National Electrical Code (NFPA 70). When parking spaces are added or modified without an increase in building size, only the new parking spaces are subject to this requirement.

C405.10.1. Group A, B, E, I, M, R, and S-2 occupancies. Group A, B, E, I, M, R occupancies with three or more dwelling units and/or sleeping units, and open or enclosed parking garages under S-2 occupancy shall be provided with *electric vehicle* charging in accordance with Table C405.10.1. Calculations for the number of spaces shall be rounded up to the nearest whole number. All *EVSE Installed and EV Capable Spaces* are to be included in the calculation for the number of minimum vehicle spaces required.

**TABLE C405.10.1
EVSE INSTALLED AND EV CAPABLE SPACE REQUIREMENTS**

Total Number of Parking Spaces	Minimum Number of EVSE Installed Spaces	Minimum Number of EV Capable Spaces
1-10	1	-
11-15	2	3
16-19	2	4
20-25	2	5
26+	2	20% of total parking spaces

C405.10.2 Identification. Construction documents shall designate all *EV Capable Spaces, EV Ready Spaces, and EVSE Installed Spaces* and indicate the locations of conduit and termination points serving them. The circuit breakers or circuit breaker spaces reserved for the *EV Capable Spaces, EV Ready Spaces, and EVSE Installed Spaces* shall be clearly identified in the panel board. The conduit for *EV Capable Spaces* shall be clearly identified at both the panel board and the termination point at the parking space.

C405.10.3 Accessible Parking. Where new *EVSE Installed Spaces* and/or new *EV Capable Spaces* and new accessible parking are both provided, parking facilities shall be designed so that at least one accessible parking space shall be *EV Capable* or *EVSE Installed*.

(10) Section C406.1 is deleted and replaced with a new section to read as follows:

C406.1 Requirements. Buildings shall comply with the three following provisions:

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1. On-site supply of renewable energy in accordance with amended Section C406.5.
2. Installation of a dedicated outdoor air system for certain HVAC equipment in accordance with amended Section C406.6.
3. One additional efficiency package selected from the following:
 - a. More efficient HVAC performance in accordance with Section C406.2.
 - b. Reduced lighting power in accordance with Section C406.3.
 - c. Enhanced lighting controls in accordance with Section C406.4.
 - d. High-efficiency service water heating in accordance with Section C406.7.
 - e. Enhanced envelope performance in accordance with Section C406.8.
 - f. Reduced air infiltration in accordance with Section C406.9.

Exception: Where the total on-site renewable energy required by provision 1 is at least 10 percent of the total energy used within the building for mechanical and service water heating equipment and lighting regulated in Chapter 4, compliance with provisions 2 and 3 shall not be required.

- (11) Section C406.5 is amended to read as follows:

C406.5 On-site renewable energy. The total minimum ratings of on-site renewable energy systems shall be not less than 3 percent of the energy used within the building for building mechanical and service water heating equipment and lighting regulated in Chapter 4.

- (12) Section C406.6 is amended by adding a new subsection to read as follows:

C406.6.1 Energy Recovery system. Where the supply airflow rate of a fan system exceeds 30 cfm of outside air, the system shall include an energy recovery system. The energy recovery system shall be configured to provide a change in the enthalpy of the outdoor air supply of not less than 50 percent of the difference between the outdoor air and return air enthalpies, at design conditions. Where an air economizer is required, the energy recovery system shall include a bypass or controls that permit operation of the economizer as required by Section C403.5.

- (13) Section R101.1 is amended to read as follows:

R101.1 Title. This code shall be known as the *Energy Conservation Code* of the Town of Frisco, and shall be cited as such. It is referred to herein as “this code.”

- (14) Section R101 is amended by adding a new subsection to read as follows:

R101.6 Summit Sustainable Building Code. (SSBC) In addition to the requirements of Section R101.5, new structures defined as *Residential Buildings* in Chapter 2, and those required by Section C101.6.1 of this code, shall comply with the Department of Energy Zero Energy Ready Home National Program, and amended Section R404.2.

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Exception: New residential structures submitted for permit between July 1, 2020 and December 31, 2020 shall be registered, designed, and inspected in accordance with the Department of Energy's Zero Energy Ready Home National Program, as a training exercise, that will be monitored and evaluated by the SSBC Technical Advisory Group. Full compliance with Section R101.6 shall be required on buildings submitted for permit commencing January 1, 2021.

- (15) Sections R103 through R105.1 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Energy Conservation Code – Residential Provisions*.
- (16) Sections R105.3 through R109 concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Energy Conservation Code – Residential Provisions*.
- (17) Section R202 is amended by adding the following new definitions within the alphabetical order of the existing definitions:

ELECTRIC VEHICLE (EV). A vehicle registered for on-road use, primarily powered by an electric motor that draws current from a rechargeable storage source that is charged by being plugged into an electrical current source.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The electrical conductors and associated equipment external to the *electric vehicle* that provide a connection between the premises wiring and the *electric vehicle* to provide *electric vehicle* charging.

EV CAPABLE SPACE. A designated parking space which is provided with a listed raceway capable of accommodating a 40-ampere minimum 208/240-volt dedicated branch circuit for each future *EV Ready* or *EVSE Installed* parking space. Raceways shall not be less than trade size 1 (nominal 1-inch inside diameter). Raceways shall originate at the main service or subpanel and shall terminate into a listed cabinet, box, or enclosure in close proximity to the proposed location of the *EV Capable* parking spaces. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum 208/240-volt dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overprotection device.

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EV READY SPACE. A designated parking space which is provided with one minimum 40-ampere, 208/240-volt dedicated branch circuit for *EVSE* servicing electric vehicles. The circuit shall terminate in a suitable termination point such as a receptacle, junction box, or an *EVSE*, and be located in close proximity to the proposed location of the *EV Ready* parking space.

EVSE INSTALLED SPACE. A parking space with *electric vehicle supply equipment* capable of supplying a 40-ampere dedicated branch circuit rated at 208/240 volt from a building electrical panel board.

- (18) Section R302.1 is amended to read as follows:

R302.1 Interior Design conditions. The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72° F (22° C) for heating and minimum of 75 °F (24 °C) for cooling. The winter design dry-bulb (F) shall be -13, heating degree days shall be 11,019, and climate zone 7.

- (19) Section R401.2 is amended to read as follows:

R401.2 Compliance. Projects shall comply with the Summit Sustainable Building Code in accordance with amended Section R101.6.

- (20) Table R402.1.2, not including the footnotes, is deleted and replaced with a new table to read as follows:

**TABLE R402.1.2
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ⁱ	FLOOR R-VALUE	BASEMENT ^c WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
7	0.30 ^k	0.55	NR	49	20+5 ^h or 13+10 ^h or 23 ^j	19/21	38 ^g	15/19	10, 4ft	15/19

- (21) Table R402.1.2 footnotes are amended by adding two new footnotes to read as follows:

j. Applicable only to additions or alterations in accordance with Chapter 5, 1,500 square feet or less, where the wall cavity is insulated with a minimum R-23 blown or sprayed insulation and the reductions in ceiling insulation permitted by Sections R402.2.1 or R402.2.2 have not been used.

k. A fenestration U-factor of 0.32 is permitted for additions, alterations, or repairs in accordance with Chapter 5, if affecting 60% or less of the buildings total existing fenestrations.

- (22) Section R402.2.10 is amended to read as follows:

R402.2.10 Slab-on-grade floors. Slab-on-grade floors with a floor surface less than 40 inches below grade shall be insulated in accordance with Table R402.1.2.

The insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table R402.1.2 by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the *building*. Insulation extending away from the *building* shall be protected by pavement or by not less than 10 inches (254 mm) of soil. The top edge of the insulation installed between the *exterior wall* and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the *exterior wall*.

(23) Section R404 is amended by adding a new subsection to read as follows:

R404.2 Electric vehicle charging for new construction. New construction shall facilitate the future installation and use of *electric vehicle supply equipment* in accordance with this section and the *National Electrical Code (NFPA 70)*.

R404.2.1 One- and two-family dwellings and townhouses. For each dwelling unit, provide at least one *EV Ready Space*. The branch circuit shall be identified as “EV Ready” in the service panel or subpanel directory, and the termination shall be marked as “EV Ready.”

Exceptions:

1. *EV Ready Spaces* are not required where no parking spaces are provided.
2. This section does not apply to parking spaces used exclusively for trucks for delivery vehicles.

R404.2.2 Multifamily dwellings (three or more units). *EV Ready* and *EV Capable Spaces* shall be provided in accordance with Table R404.2.2. Where the calculation of percent served results in a fractional parking space, it shall round up to the next whole number. The service panel or subpanel circuit directory shall identify the spaces reserved to support EV charging, as “EV Ready” or “EV Capable.” The raceway location shall be permanently and visibly marked as “EV Capable.”

**TABLE R404.2.2
EV READY SPACE AND EV CAPABLE SPACE REQUIREMENTS**

Total Number of Parking Spaces	Minimum Number of EV Ready Spaces	Minimum Number of EV Capable Spaces
1-10	1	-
11-15	1	3
16-19	2	4
20-25	2	5
26+	2	20% of total parking spaces

R404.2.3 Identification. Construction documents shall designate all *EV Capable Spaces*, *EV Ready Spaces*, and *EVSE Installed Spaces* and indicate the locations of conduit and termination points serving them. The circuit breakers or circuit breaker spaces reserved for the *EV Capable Spaces*, *EV*

Ready Spaces, and *EVSE Installed Spaces* shall be clearly identified in the panel board. The conduit for *EV Capable Spaces* shall be clearly identified at both the panel board and the termination point at the parking space.

R404.2.4 Accessible Parking Where new *EV Ready Spaces* and new accessible parking are both provided, parking facilities shall be designed so that at least one accessible parking space shall be *EV Ready* or *EVSE Installed*.

- (24) Section R501.1 is amended by adding a new subsection to read as follows:

R501.1.2 Energy audit required. Permit applications for additions, alterations, or repairs to an existing building where the total valuation is \$50,000 or more, shall include an energy audit for the existing structure, prior to permit issuance. The energy audit recommendations and/or conclusions may, but shall not be required to increase the scope of work submitted for permit.

Exceptions:

1. Work involving the exterior surfaces of *dwellings*, such as the replacement of roofing or siding, the *addition* or replacement of windows or doors, or the addition of a porch or deck.
2. Installation, alteration or repairs of plumbing or mechanical systems.

§65-10. Amendments to the *International Existing Building Code*.

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the *Existing Building Code* of the Town of Frisco, hereinafter referred to as “this code.”

- (2) Section 101.4.2 is amended to read as follows:

101.4.2 Buildings previously occupied. The legal occupancy of any building existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the *International Fire Code*, or as is deemed necessary by the *building official* for the general safety and welfare of the occupants and the public.

- (3) Sections 103 through 115, concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Existing Building Code*.

- (4) Section 302.3 is amended to read as follows::

302.3 Additional codes. *Alterations, repairs, additions and changes of occupancy* to, or relocation of, *existing buildings* and structures shall comply with the provisions for *alterations, repairs, additions and changes of occupancy* or relocation, respectively, in this code and the *International Energy Conservation*

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Code, International Fire Code, International Fuel Gas Code, International Mechanical Code, International Plumbing Code, International Residential Code and NFPA 70. Where provisions of the other codes conflict with provisions of this code, the provisions of this code shall take precedence.

- (5) Section 1301.3.2 is amended to read as follows:

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

- (6) Section 1301.4 is amended to read as follows:

1301.4 Investigation and evaluation. For proposed work covered by this section, the building owner shall cause the *existing building* to be investigated and evaluated in accordance with the provisions of Sections 1301.4 through 1301.9 by a design professional licensed to practice in the State of Colorado.

§65-11. Amendments to the *International Swimming Pool and Spa Code*.

- (1) Section 101.1 is amended to read as follows:

101.1 Title. These regulations shall be known as the Swimming Pool and Spa Code of the Town of Frisco, hereinafter referred to as “this code.”

- (2) Sections 103 through 108, concerning administration and enforcement are deleted in their entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration and enforcement of the *International Swimming Pool and Spa Code*.

§65-12. Amendments to the *Uniform Code for Abatement of Dangerous Buildings*.

- (1) Section 102.1 is amended to read as follows:

102.1 Purpose. It is the purpose of this code to provide a just equitable and practicable method, to be cumulative with and in addition to any other remedy provided by the Building Code or otherwise available by law, whereby buildings or structures which from any cause endanger the life, limb, health, morals, property, safety or welfare of the general public or their occupants may be required to be repaired, vacated or demolished.

- (2) Section 203 is deleted and replaced with a new section to read as follows:

SECTION 203 – VIOLATIONS

203.1 Unlawful Acts. It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the same to be done in violation of this code.

203.2 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed in this section. Any violation of this code shall be punishable by a fine not to exceed one thousand dollars (\$1,000.00) and/or imprisonment not to exceed one (1) year or both by such fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

- (3) Section 204 is amended to read as follows:

SECTION 204 – INSPECTION OF WORK

All buildings or structures within the scope of this code and all construction work for which a permit is required shall be subject to inspection by the building official in accordance with and in the manner provided by this code and Sections 110 and 1704 of the Building Code.

- (4) **Section 205 – Board of Appeals** is deleted in its entirety. The corresponding and applicable sections of the *International Building Code*, as adopted and amended in Chapter 65 of the Code of Ordinances of the Town of Frisco, Colorado, shall be the provisions for administration of the *Uniform Code for Abatement of Dangerous Buildings*.

- (5) Section 301 is amended to read as follows:

SECTION 301 – GENERAL

For the purpose of this code, certain terms, phrases, words and their derivatives shall be construed as specified in either this chapter or as specified in the Building Code. Where terms are not defined by this code or the building code, they shall have their ordinary accepted meanings within the context with which they are used. Words used in the masculine gender include the feminine and the feminine the masculine.

BUILDING CODE is the *International Building Code* or *International Residential Code*, whichever is applicable, promulgated by the International Code Council, as adopted by this jurisdiction.

DANGEROUS BUILDING is any building or structure deemed to be dangerous under the provisions of Section 302 of this code.

- (6) Section 302, item 13 is amended to read as follows:

13. Whenever any building or structure has been constructed, exists or is maintained in violation of any specific requirement or prohibition applicable to such building or structure provided by the building regulations of this jurisdiction, as specified in the Building Code or of any law or ordinance of this state or jurisdiction relating to the condition, location or structure of buildings.

§65-13. Construction Permit Fee Schedule.

A. BUILDING PERMIT FEES

- (1) **Permit fees.** The fee for each permit for which a building permit application is received shall be as set forth in Table 65-13 A(1).
- (2) **Plan review fees.** When submittal documents are required by the building code, a plan review fee shall be paid at the time of submitting the submittal documents for plan review. Said plan review fee shall be 65 percent of the building permit fee as set forth in Section 65-13 A(1). The plan review fees specified in this section are separate fees from the permit fees specified in Section 65-13 A(1) and are in addition to the permit fees. When submittal documents are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the rate shown in Table 65-13 F(1).
- (a) Deferred submittal plan review fees. When the project involves deferred submittal items as defined in the building code, the plan review fee shall be equal to the amount of the permit fee as set forth in Section 65-13 A(1).

**Table 65-13 A(1)
BUILDING PERMIT FEES**

TOTAL VALUATION	FEE
\$1.00 to \$500.00	\$50.00
\$500.01 to \$2,000.00	\$50.00 for the first \$500.00 plus \$1.25 for each additional \$100.00, or fraction thereof, to and including \$2,000.00
\$2,000.01 to \$25,000.00	\$69.25 for the first \$2,000.00 plus \$14.00 for each additional \$1,000.00, or fraction thereof, to and including \$25,000.00
\$25,000.01 to \$50,000.00	\$391.25 for the first \$25,000.00 plus \$10.10 for each additional \$1,000.00, or fraction thereof, to and including \$50,000.00
\$50,000.01 to \$100,000.00	\$643.75 for the first \$50,000.00 plus \$7.00 for each additional \$1,000.00, or fraction thereof, to and including \$100,000.00
\$100,000.01 to \$500,000.00	\$993.75 for the first \$100,000.00 plus \$5.60 for each additional \$1,000.00, or fraction thereof, to and including \$500,000.00
\$500,000.01 to \$1,000,000.00	\$3233.75 for the first \$500,000.00 plus \$4.75 for each additional \$1,000, or fraction thereof, to and including \$1,000,000.00
\$1,000,000.01 and up	\$5608.75 for the first \$1,000,000.00 plus \$3.65 for each additional \$1,000.00, or fraction thereof

B. ELECTRICAL PERMIT FEES

- (1) **Permit fees.** The fee for each permit shall be as set forth in Table 65-13 B(1).
- (2) **Plan Review Fees.** The plan review fees for electrical work shall be 65 percent of the electrical permit fee as set forth in Section 65-13 B(1). The plan review fees specified

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in this section are separate from the permit fees specified in Section 65-13 B(1) and are in addition to the permit fees. When submittal documents are incomplete or changed so as to require additional plan review, an additional plan review fee shall be paid as set forth in Table 65-13 B(1).

**Table 65-13 B(1)
ELECTRICAL PERMIT FEES**

RESIDENTIAL FEES: This includes construction and extensive remodeling and additions to modular homes, duplexes, condominiums and townhouses (based on the enclosed living area).	
UNIT AREA	PERMIT FEE
Not more than 1,000 sq. ft.	\$120.00
Over 1,000 sq. ft., and not more than 1,500 sq. ft.	\$168.00
Over 1,500 sq. ft., and not more than 2,000 sq. ft.	\$216.00
Over 2,000 sq. ft.	\$216.00 plus \$9.60 per 1000 sq. ft. or fraction thereof over 2,000 sq.ft.
ALL OTHER FEES: All other permit fees shall be computed on the dollar value of the electrical installation, including time and material, and such fees shall be computed as follows:	
VALUATION	PERMIT FEE
Not more than \$2000.00	\$120.00
More than \$2,000.00	\$9.60 per thousand or fraction thereof plus \$120.00
Temporary Power Permit	\$65.00
Hot Tub Electrical Permit	\$120.00
Additional plan review	\$65.00 per hour or fraction thereof
Reinspection on all above	\$65.00

C. MECHANICAL PERMIT FEES

(1) **Permit fees.** The fee for each permit shall be determined by multiplying total mechanical value or valuation by a constant of 0.0075. The minimum fee for any mechanical permit shall be \$50.00. The determination of value or valuation shall be as set forth in Section 109.3 of the *International Building Code*. Mechanical permit valuation set by the building official for projects without accurate total valuation by the applicant will be determined as a percentage of total building valuation by multiplying the total building valuation by a constant of 0.10.

(2) **Plan review fees.** The plan review fees for mechanical work shall be equal to 65 percent of the mechanical permit fee as set forth in Section 65-13 C(1). The plan review fees specified in this section are separate fees from the permit fees specified in Section 65-13 C(1) and are in addition to the permit fees. When submittal documents are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the rate shown in Table 65-13 F(1).

D. PLUMBING PERMIT FEES

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(1) Permit Fees. The fee for each plumbing permit shall be determined by multiplying total mechanical value or valuation by a constant of 0.0075. The minimum fee for any mechanical permit shall be \$50.00. The determination of value or valuation shall be as set forth in Section 109.3 of the *International Building Code*. Mechanical permit valuation set by the building official for projects without accurate total valuation by the applicant will be determined as a percentage of total building valuation by multiplying the total building valuation by a constant of 0.10.

(2) Plan review fees. The plan review fees for mechanical work shall be equal to 65 percent of the plumbing permit fee as set forth in Section 65-13 D(1). The plan review fees specified in this section are separate fees from the permit fees specified in Section 65-13 D(1) and are in addition to the permit fees. When submittal documents are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the rate shown in Table 65-13 F(1).

E. ELEVATOR PERMIT AND CERTIFICATE OF INSPECTION FEES

(1) Permit Fees. The fee for each permit shall be as set forth in Table 65-13 E(1).

(2) Additional plan review fees. When submittal documents are incomplete or changed so as to require additional plan review, an additional plan review fee shall be charged at the rate shown in Table 65-13 E(1).

**Table 65-13 E(1)
ELEVATOR PERMIT FEES**

New Installations:	Fee
1. Passenger or freight elevator, lula, escalator, moving walk:	
Valuation up to and including \$50,000.00	\$5000.00
Valuation \$50,000.00 to \$199,999.....	\$500.00 plus \$20.00 for each \$1,000.00 or fraction thereof over \$50,000.00
Valuation \$200,000 and up	\$3,500.00 plus \$10.00 for each \$1,000.00 or fraction thereof over \$200,000.00
2. Lift, dumbwaiter or private residence elevator:	
Up to and including \$20,000.00 of valuation.....	\$350.00
Over \$20,000.00 of valuation	\$350.00 plus \$10.00 for each \$1,000.00 or fraction thereof over \$20,000.00
3. Work performed without a permit	Double the Permit Application Fee
Major Alterations:	

BUILDING CONSTRUCTION AND HOUSING STANDARDS

Valuation up to and including \$10,000.00.....	\$350.00
Valuation \$10,001 to \$25,000.....	\$500.00
Valuation \$25,001 and up	\$500.00 plus \$20.00 for each \$1,000.00 or fraction thereof over \$25,001
Work performed without a permit	Double the Permit Application Fee
Other Inspection Fees:	Fee
1 Inspections outside of normal hours, per hour (minimum charge – two hours)	\$150.00
2. Reinspection of non-operational conveyances, per hour.....	\$150.00
3. Inspections for which no fee is specifically indicated, per hour (minimum charge – one hour)	\$150.00
4. Additional plan review, per hour (minimum charge – one hour)	\$150.00

(3) **Annual certificate of inspection fees.** The fee for each annual certificate of inspection shall be as set forth in Table 65-13 E(3).

Table 65-13 E(3)
ELEVATOR ANNUAL CERTIFICATE OF INSPECTION FEES ^{1, 2}

Description	Fee
Elevator up to 3 stops.....	\$225.00
Elevator with 4 to 6 stops	\$275.00
Escalator, per hour.....	\$100.00
Dumbwaiter	\$ 225.00
Lift	\$ 225.00

- ¹ Each elevator or moving walk unit powered by one motor shall be considered as a separate escalator or moving walk.
- ² Residential elevators do not require certificates of inspection.

F. OTHER INSPECTIONS AND FEES

(1) **Other construction permit fees.** Other inspections and fees associated with these permits and the services provided by the building official shall require payment of fees as listed in Table 65-13 F(1).

Table 65-13 F(1)
OTHER INSPECTIONS AND FEES

BUILDING CONSTRUCTION AND HOUSING STANDARDS

Description	Fee
1. Inspections outside of normal business hours (minimum charge – two hours)	\$65.00 per hour¹
2. Reinspection fees assessed²	\$65.00
3. Inspections for which no fee is specifically indicated (minimum charge – one hour)	\$65.00 per hour¹
4. For use of outside consultants for plan checking or inspections, or both	Actual costs³
5. Additional plan review (minimum charge – one hour)	\$65.00 per hour¹
6. Residential photovoltaic permit	\$75.00
7. Hot tub/spa installation permit	\$50.00
8. Residential Re-roof permit (IRC dwellings)	\$100.00
9. Defensible space permit fee	\$150.00
9. Clerical time for researching or duplicating records, or both (minimum charge – one hour)	\$65.00 per hour¹

¹ Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employee involved.

² Reinspection fees shall be paid physically in person to the office of the Department of Building Safety.

³ Actual costs include administrative and overhead costs.

§65-14. Unlawful Acts and Penalties.

(A) Unlawful Acts. It shall be unlawful for any person, firm or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert or demolish, equip, use, occupy or maintain any building or structure or cause or permit the same to be done in violation of this Chapter or of any code adopted by reference pursuant to Section 65-1 herein.

(B) Penalties. Any violation of any provision of this Chapter or of any code adopted by reference pursuant to Section 65-1 herein shall be punishable by a fine not to exceed one thousand dollars (\$1,000.00) and/or imprisonment not to exceed one (1) year or both by such fine and imprisonment.