

## Exhibit B – Ordinance 783-25

The following sections, paragraphs, and sentences of the *2021 International Residential Code* are hereby amended as follows: Standard type is text from the IRC. Underlined type is text inserted. ~~Lined through type is deleted text from IRC.~~

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

### **Section R102.4; amend to read as follows:**

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

**Exception:** ~~Where enforcement of a code provision would violate the conditions of the listing of the equipment or appliance, the conditions of the listing and manufacturer's instructions shall apply.~~

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

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

#### **DEPARTMENT OF BUILDING SAFETY TOWN OF BARTONVILLE DEPARTMENT OF COMMUNITY DEVELOPMENT**

**R103.1 Creation of enforcement agency.** The ~~department of building safety~~ Town of Bartonville Department of Community Development is hereby created and the official in charge ~~thereof~~ of plan reviews and inspections shall be known as the *building official*.

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

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

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

### **Section R105.2; amend by deleting numbered paragraphs 1, 2, 3, 5, and 10 under subparagraph titled "Building."**

### **Sections R105.3.1.1 and R106.1.4; delete these sections.**

*(Reason: Floodplain provisions are addressed locally.)*

### **Section R108; amend by adding Section 108.7 to read as follows:**

**R108.7 Re-inspection fee.** A fee as established by Town council resolution may be charged when:

1. The inspection called for is not ready when the inspector arrives.
2. No building address or permit card is clearly posted.
3. Approved plans are not on the job site and available to the inspector at time of inspection.
4. The building is locked or work otherwise is not available for inspection when called.
5. The job site is red-tagged twice for the same item.
6. The original red tag has been removed from the job site.
7. Violations exist on the property including failure to maintain erosion control, trash control or tree protection.

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8. Any re-inspection fees assessed shall be paid before additional inspections are conducted on that job site.

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

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

**Section R112; amend in its entirety to read as follows:**

### **SECTION R112**

#### **BOARD OF APPEALS MEANS OF APPEAL**

**R112.1 General Application for appeal.** Any person shall have the right to appeal a decision of the building official to the Board of Adjustment as provided in Section 2.02 of the Denton County Emergency Services District No 1 Land Development Code. ~~In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The building official shall be an ex officio member of said board but shall not have a vote on any matter before the board. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business, and shall render decisions and findings in writing to the appellant with a duplicate copy to the building official.~~

**R112.2. Limitations on authority.** An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply or an equally good or better form of construction is proposed. The board shall not have authority to waive requirements of this code.

**R112.3 Qualifications.** The board of appeals shall consist of members who are qualified by experience and training to pass judgment on matter pertaining to building construction and are not employees of the jurisdiction.

**R112.4 Administration.** The building official shall take immediate action in accordance with the decision of the board.

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

**TOWNHOUSE UNIT.** A single-family dwelling unit separated by property lines in a *townhouse* that extends from foundation to roof and that has a *yard* or *public way* on at least two sides.

*(Reason: To distinguish Townhouses on separate lots.)*

**Table R301.2; amend to read as follows:**

| GROUND<br>SNOW<br>LOAD | WIND DESIGN                                    |                                     |                                     |                                       | SEISMIC<br>DESIGN<br>CATEGORY <sup>f</sup> | SUBJECT TO<br>DAMAGE FROM |                                     |                      | WINTER<br>DESIGN<br>TEMP <sup>e</sup> | ICE BARRIER<br>UNDER-<br>LAYMENT <sup>h</sup> | FLOOD<br>HAZARDS <sup>g</sup> | AIR FREEZING<br>INDEX <sup>i</sup> | MEAN<br>ANNUAL<br>TEMP <sup>j</sup> |
|------------------------|--|-------------------------------------|-------------------------------------|---------------------------------------|--|---------------------------|-------------------------------------|----------------------|---------------------------------------|---|-------------------------------|------------------------------------|-------------------------------------|
|                        | SPEED <sup>d</sup><br>(MPH)                    | Topographic<br>Effects <sup>k</sup> | Special Wind<br>Region <sup>l</sup> | Windborne<br>Debris Zone <sup>m</sup> |  | Weathering <sup>a</sup>   | Frost<br>Line<br>Depth <sup>b</sup> | Termite <sup>c</sup> |                                       |   |                               |                                    |                                     |
| 5 lb/ft <sup>2</sup>   | 115<br>(3 sec-<br>gust)/ 76<br>fastest<br>mile | No                                  | No                                  | No                                    | A  | Moderate                  | 6"                                  | Very<br>Heavy        | 22° F                                 | No  | Local<br>Code                 | 150                                | 64.9°<br>F                          |

**{Delete remainder of table Manual J Design Criteria and footnote N.}**

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

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

**Exceptions:** {previous exceptions unchanged}

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

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

### **Section R302.2.6; amend by deleting exception #6.**

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

**Exceptions:**

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

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

### **Section R302.5.1; amend to read as follows:**

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

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

### **Section R302.7; amend to read as follows:**

**R302.7 Under stair protection.** ~~All enclosed space under stairs that is accessed by a door or access panel have "No Access"~~ shall have walls under stair surface of 5/8" fire-rated gypsum board and any soffits protected on the enclosed side with 1/2-inch (12.7 mm) 5/8-inch (15.8 mm) fire-rated gypsum board or one-hour fire-resistive construction.

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

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

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

### **Section R307; amend by creating Section 307.3 to read as follows:**

**R307.3 Blocking.** Required at one toilet at grade level. Blocking per Sec. R307.4 and Figure 307.4, shall be installed at rear wall and one wall adjacent to toilet at the lowest living level where a toilet is provided.

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**Section R307; amend by creating Section 307.4 and Figure 307.4 to read as follows:**

**R307.4 Blocking.** Blocking may be ½" plywood or equivalent or 2 x solid wood blocking flush with wall.

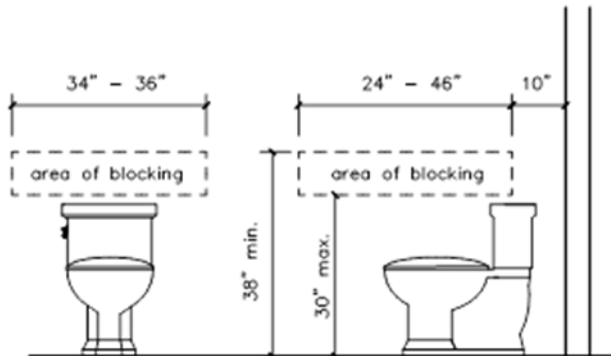


Figure 307.4

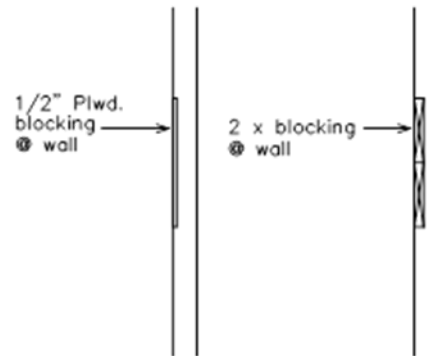


Figure 307.4

**Section R310.2.3; amend to read as follows:**

**R310.2.3 Maximum height from floor.** Where a window is provided as the emergency escape and rescue opening, it shall have the bottom of the clear opening a sill height of not greater than 44 inches (1118 mm) above the floor; where the sill height is below grade, it shall be provided with a window well in accordance with Section R310.2.3. Second or third story windows that are required for emergency escape and rescue shall be provided with an approved fire escape ladder.

**Section R313.2 One and two family dwellings automatic sprinkler systems; delete this section and subsection in their entirety.**

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

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

**Exception:**

1. [existing text remains]
2. Installation, alteration or repairs of all electrically powered mechanical systems or plumbing appliances.
3. Installation, alternation or repairs of mechanical systems that are not fuel fired.

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

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

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

**Section R327.1; amend by creating Section R327.1.1 to read as follows:**

**Section 327.1.1 Adjacency to structural foundation.** Depth of the swimming pool and spa shall maintain a ratio of 1:1 from the nearest building foundation or footing of a retaining wall.

**Exception:** A sealed engineered design drawing of the proposed new structure shall be submitted for approval.

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

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

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

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

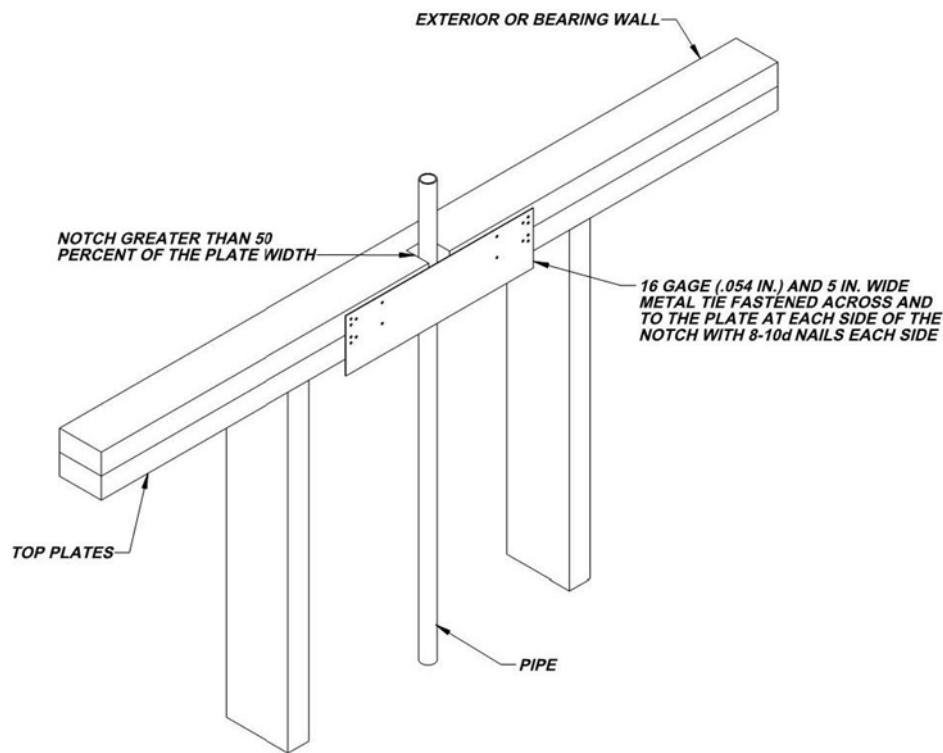
**Section R602.6.1; amend the following:**

**R602.6.1 Drilling and notching of top plate.** When ~~where~~ piping or ductwork is placed in or partly in an exterior wall or interior *load-bearing wall*, necessitating cutting, drilling or notching of the top plate by more than 50 percent of its width, a galvanized metal tie not less than 0.054 inch thick (1.37 mm) (16 Ga) and 4 ~~½ inches (38 mm)~~ 5 inches (127 mm) wide shall be fastened across and to the plate at each side of the opening with not less than eight 10d (0.148 inch diameter) having a minimum length of 1 ½ inches (38 mm) at each side or equivalent. Fasteners will be offset to prevent splitting of the top plate material. The metal tie must extend a minimum of 6 inches past the opening. See figure R602.6.1. *{remainder unchanged}*

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

**Figure R602.6.1; amended to appear and read as follows:**

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



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

**Section R703.8.4.1; amend by adding Section 703.8.4.1.2 to read as follows:**

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

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

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

**Section R806.3; amend by adding Section 806.3.1 to read as follows:**

**R806.3.1 Eave and cornice vents.** Where eave or cornice vents are installed, they shall be a minimum of 3 feet from all window and door openings.

**Section 807.1; amend to read as follows:**

**R807.1 Attic access.** {Existing text remains.} Decking materials for walkway shall be of ½" minimum plywood or 5/8" minimum wafer board. A permanent ladder and/or stairways with a #300 lb. rating for access and removal of equipment shall be provided.

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

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

### **Exceptions:**

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

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

**Chapter 11 [RE] – Energy Efficiency is deleted in its entirety; Reference the 2021 IECC for energy code provisions and recommended amendments.**

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

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

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

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

**Exceptions:** {remaining text unchanged}

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

**Section M1401.4; amend to read as follows:**

**M1401.4 Outdoor-Exterior installations.** Equipment and appliances installed outdoors shall be listed and labeled for outdoor installation. No a/c condensers shall be located in side yards less than 5 feet, unless approved by the Building Official. {remaining text unchanged.}

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

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

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

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

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

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

*(Reason: Reflects standard practice in this area.)*

**Section M1411.3.1.1; amend to read as follows:**

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

*(Reason: Reflects standard practice in this area.)*

**M1503.6 Makeup air required; amend and add exception to read as follows:**

**M1503.6 Makeup air required.** Where one or more gas, liquid or solid fuel-burning appliance that is neither direct-vent nor uses a mechanical draft venting system is located within a dwelling unit's air

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barrier, each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m<sup>3</sup>/s) shall be mechanically or passively provided with makeup air at a rate approximately equal to the difference between exhaust air rate and 400 cubic feet per minute. Such makeup air systems shall be equipped with not fewer than one damper complying with Section M1503.6.2.

**Exception:** Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open. Where all appliances in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m<sup>3</sup>/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m<sup>3</sup>/s) shall be provided with a makeup air at a rate approximately to the difference between the exhaust air rate and 600 cubic feet per minute.

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

### **Section M1601.4.4; amend to read as follows:**

**M1601.4.4 Support.** ~~Factory-made Metal ducts listed in accordance with UL 181 shall be supported in accordance with manufacturer's installation instructions or other approved means. Field- and shop-fabricated fibrous glass Flexible ducts shall be supported in accordance with the SMACNA Fibrous Glass Duct Construction Standards or the NAIMA Fibrous Glass Duct Construction Standards by 1-inch wide 18-gauge solid metal straps with 6" metal saddles at intervals not exceeding 10 feet or in accordance with the manufacturer's installation instructions. Field- and shop-fabricated metal and flexible ducts shall be supported in accordance with SMACNA HVAC Duct Construction Standards Metal and Flexible.~~

### **Section M2005.2; amend to read as follows:**

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

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

### **Section G2404.1 (301.1); amended to read as follows:**

**G2404.1 (301.1) Scope.** This section shall govern the approval and installation of all equipment and appliances that comprise parts of the installations regulated by this code in accordance with Section G2401. All gas meters shall be located on the structure.

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

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

### **Section G2415.2 (404.2) CSST; add a second paragraph and exception to read as follows:**

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

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

**Exception:** Corrugated stainless steel tubing (CSST) shall be a minimum of 1/3" (18 EDH).

*(Reason: To protect homeowners and plumbers.)*



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

**G2415.12 (404.12) Minimum burial depth.** Underground *piping systems* shall be installed a minimum depth of ~~42 inches (305 mm)~~ 18 inches (457 mm) below grade, ~~except as provided for in Section G2415.12.1.~~

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

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

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

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

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

### **Section G2417.4; amend to read as follows:**

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

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

### **Section G2417.4.1; amend to read as follows:**

**G2417.4.1 (406.4.1) Test pressure.** The test pressure to be used shall be ~~no less than 4 ½ times the proposed maximum working pressure, but not less than 3 psig (20 kPa gauge), or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge, irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one half inches (3 ½”), a set hand, 1/10 pound incrementation and pressure range not to exceed 6 psi for tests requiring a pressure of 3 psig. For tests requiring a pressure of 10 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three and one-half inches (3 ½”), a set hand, a minimum of 2/10 pound incrementation and a pressure range not to exceed 20 psi. For welded piping, and for piping carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa) (1/2 psi) and less than 200 inches of water column pressure (52.2 kPa) (7.5 psi), the test pressure shall not be less than ten (10) pounds per square inch (69.6 kPa). For piping carrying gas at a pressure that exceeds 200 inches of water column (52.2 kPa) (7.5 psi), the test pressure shall be not less than one and one-half times the proposed maximum working pressure.~~

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

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

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### **Section G2417.4.2; amend to read as follows:**

**G2417.4.2 (406.4.2) Test duration.** The test duration shall be held for a length of time satisfactory to the *Building Official*, but in no case for ~~be not less than 10~~ fifteen (15) minutes. For welded *pipng*, and for *pipng* carrying gas at pressures in excess of fourteen (14) inches water column pressure (3.48 kPa), the test duration shall be held for a length of time satisfactory to the *Building Official*, but in no case for less than thirty (30) minutes.

(Reason: To comply with accepted regional practices.)

### **Section G2420.1 (406.1); amend by adding Section G2420.1.4 to read as follows:**

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

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

### **Section G2420.5.1 (409.5.1); amend to read as follows:**

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

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

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

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

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

(Reason: To require adequate access to regulators.)

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

(Reason: To comply with accepted regional practices.)

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

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

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

(Reason: Gives code official discretion.)

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

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

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

### **Section 2602.1; amend by amending “Exception,” to read as follows:**

**Exception:** Sanitary drainage ~~piping and systems that convey only the discharge from bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to connect to a public sewer or to a private sewage disposal system provided that the piping or systems are connected to a system in accordance with Section P2910 or P2911 were installed with septic tank or septic system, upon failure or need of repair must be connected to the Town Sanitary Sewer System.~~

### **Section P2603; amend to read as follows:**

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

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

### **Section P2603.5.1 Sewer depth; amend to read as follows:**

**P2603.5.1 Sewer depth.** *Building sewers* that connect to private sewage disposal systems shall be ~~not less than a minimum of [number] inches (mm) below finished grade at the point of septic tank connection.~~ Building sewers shall be ~~not less than [NUMBER]~~ a minimum of 12 inches (304 mm) below grade.

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

### **Section P2604; add Section P2604.2.1 to read as follows:**

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

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

### **Section P2718.1; amend by adding Section P2718.1.1 to read as follows:**

**P2718.1.1 Pan required.** All clothes washing machines on a second floor or above shall have a pan. The pan shall be tested with a water test during construction and exit the exterior of the structure to the outside.

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### **Section P2801.5; amend to read as follows:**

**P2801.5 Prohibited locations.** Water heaters shall be located in accordance with Chapter 20. No tank type water heaters shall be permitted to be installed in New Residential attics. Tank less water heater(s) may be approved for attic installation and shall require a pan and drain the T&P line directly to the outdoor or approved location.

### **Section P2801.6; amend to read as follows:**

**P2801.6 Required pan.** Where a storage tank-type water heater or a hot water storage tank is installed in a location where water leakage from the tank will cause damage, the tank shall be installed in a pan constructed of one of the following:

1. Galvanized steel or aluminum of not less than 0.0236 inch (0.6010 mm) in thickness.
2. Plastic not less than 0.036 inch (0.9 mm) in thickness.
3. Other *approved* materials.

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

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

### **Section P2801.6.1; amend to read as follows:**

**Section P2801.6.1 Pan size and drain.** The pan shall be not less than 1 1/2 inches (38 mm) ~~deep in~~ depth and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a diameter of not less than 3/4 inch (19 mm) ~~diameter~~. Piping for safety pan drains shall be of those materials listed in Table P2906.5. Multiple pan drains may terminate to a single discharge piping system when approved by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions. {existing text unchanged}

*(Reason: Regionally accepted practice.)*

### **Section P2801.7; amend by adding "Exception," to read as follows:**

**Exception:** Electric Water Heater elevation of the ignition source is not required for appliances that are listed as flammable vapor ignition resistant.

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

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

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

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

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

[remainder unchanged]

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

### **Section P2902.5.3; amend to read as follows:**

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

(Reason: To provide clarity.)

### **Section P3003.9.2; amend to read as follows:**

**P3003.9.2 Solvent cementing.** Joint surfaces shall be clean and free from moisture. A purple primer ~~or other approved primer~~ that conforms to ASTM F656 shall be applied. Solvent cement not purple in color and conforming to ASTM D2564, CSA B137.3, ~~or~~ CSA B181.2 or CSA B182.1 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D2855. Solvent cement joints shall be permitted above or below ground.

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

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

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

### **Section P3005.2.1; amend to read as follows:**

**P3005.2.1 Horizontal drains and building drains.** *Horizontal* drainage pipes in buildings shall have cleanouts located at intervals of not more than ~~100 feet (30 480 mm)~~ 75 feet. *Building drains* shall have cleanouts located at intervals not more than ~~100 feet (30 480 mm)~~ 75 feet except where manholes...  
{remaining text unchanged}.

### **Section P3101.2.1; amend to read as follows:**

**P3101.2.1 Venting required.** No flat venting permitted. Every trap and trapped fixture shall be vented in accordance with one of the venting methods specified in this chapter.

### **Section P3111 Combination waste and vent systems; delete this section in its entirety.**

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

### **Section P3112.2; amend to read as follows:**

**P3112.2 Vent connection Installation.** ~~The island fixture vent shall connect to the fixture drain as required for an individual or common vent. The vent shall rise vertically to above the drainage outlet of the fixture being vented before offsetting horizontally or vertically downward. The vent or branch vent for multiple island fixture vents shall extend not less than 6 inches (152 mm) above the highest island fixture being vented before connecting to the outside vent terminal. Traps for island sinks and similar equipment~~

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

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

**END**