

**Recommended Amendments to the
2021 International Residential Code**

* Amendments Specific to the City of Murphy
** NCTCOG Recommended Amendment
*** Modified NCTCOG Recommended Amendment

***Section R101.1; Insert jurisdiction name as follows:**

R101.1 Title. These provisions shall be known as the Residential Code for One- and Two-family Dwellings of the City of Murphy and shall be cited as such and will be referred hereinafter referred to as "this code."

(Reason: To call attention to the blank to be filled in.)

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

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

(Reason: Legal wording to recognize locally adopted codes and amendments adopted with referenced codes. Amendment to 2015 IRC carried forward to 2021 IRC.)

***Add Section R104.2.1, Adequate toilet facilities.**

Section R104.2.1, Adequate toilet facilities. Every construction project requiring a building permit within the City limits of the City of Murphy shall have adequate toilet facilities for workers associated with the project. At least one permanent or temporary toilet facility shall be maintained in each subdivision for the employees or subcontractors of each builder holding a permit for a building in that subdivision. A toilet facility must be provided by each builder as long as the builder holds an active building permit in the subdivision. Permanent toilet facility is defined as a room in an existing building or in the building being constructed with a water closet installed in such a room, which conforms to the Plumbing Code and is continuously available to all workers involved in a construction project. Temporary toilet facility is defined as a portable, fully enclosed, chemically sanitized toilet, which is serviced and cleaned at least once each week. In addition to the justifications in the Building Code and in addition to other remedies, the building official may issue a Stop Work Order as described in the Building Code for any work done on a project not in compliance with this section.

(Reason: To clearly define toilet facility requirements. Amendment to 2015 IRC carried forward to 2021 IRC.)

****Section R104.10.1 Flood Hazard areas; DELETE**

(Reason: Flood hazard is addressed by the City of Murphy Flood Damage Prevention Ordinance. Amendment to 2015 IRC carried forward to 2021 IRC.)

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*Section R105.2; change “Building” to read as follows:

Building:

1. Other than storm shelters, one-story detached accessory structures, provided that the floor area does not exceed 200-50 square feet (18.58 m²).
- ~~2. Fences not over 7 feet (2134 mm) high.~~
- ~~3. Retaining walls that are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.~~
- ~~4. Water tanks supported directly upon grade if the capacity does not exceed 5,000 gallons (18927 L) and the ratio of height to diameter or width does not exceed 2 to 1.~~
- ~~5. Sidewalks and driveways.~~
- ~~2. 6. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.~~
- ~~3. 7. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.~~
- ~~4. 8. Swings and other playground equipment.~~
- ~~9. Window awnings supported by an exterior wall which do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.~~
- ~~10. Decks not exceeding 200 square feet (18.58 m²) in area, that are not more than 30 inches (762 mm) above grade at any point, are not attached to a dwelling, do not serve the exit door required by Section R311.4.~~
5. Shingle replacement up to 25% of a roof area.

(Reason: Permits are currently required for fences, retaining walls, water tanks, sidewalks, driveways, and window awnings. Amendment to 2015 IRC carried forward to 2021 IRC.)

*Section R105.3; to read as follows:

Section R105.3, Application for permit.

8. Registration:

a. To obtain a permit the applicant shall be registered as a contractor.

Exception: Homeowners may obtain permits to do work at their residence without being registered.

b. Registration Requirements: Contractor may register by making application on forms provided by the Building Official. Electrical, irrigation, mechanical, and plumbing contractors shall provide proof of required licenses.

Licenses:

Electrical license is a license issued by the State of Texas under provisions of title 8, Occupations Code, Chapter 1305, Administered by the Texas Department of Licensing and Regulation.

Mechanical license is authorization issued by the State of Texas allowing an individual to install air conditioning, heating and ventilating systems or their components.

Plumbing license is a license issued by the State of Texas under the provisions of Article 6243.101, Vernon's Texas Civil Statutes, as amended, (known as "The Plumbing License Law of 1974").

c. Revocation/Suspension: A contractor's registration may be suspended for the following causes:

1. The contractor fails to finalize permits by obtaining the required, approved inspections.

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2. The contractor allows use or occupancy of a structure for which a permit was obtained without first obtaining the required authorization.
3. The contractor has been found by the Building and Fire Codes Appeal Board to have been grossly negligent in the performance of his/her work. For purposes of this Section, a contractor may be found to have acted in a grossly negligent manner if such contractor has received six (6) municipal court convictions for city code violations and if such violations occurred in the twelve (12) month period preceding the revocation/suspension action before the Commission.
4. Expiration, suspension or revocation of required license, bond or insurance.

(Reason: To define contractor registration requirements. Amendment to 2015 IRC carried forward to 2021 IRC.)

****Section R105.3.1.1; DELETE**

(Reason: Floodplain provisions are addressed by the City of Murphy Flood Damage Prevention Ordinance. Amendment to 2015 IRC carried forward to 2021 IRC.)

****Section R106.1.4; DELETE**

(Reason: Floodplain provisions are addressed by the City of Murphy Flood Damage Prevention Ordinance. Amendment to 2015 IRC carried forward to 2021 IRC.)

****Section R110 (R110.1 through R110.5); DELETE**

(Reason: Issuing COs for residences is not a common practice in the area. Amendment to 2015 IRC carried forward to 2021 IRC.)

***Section R112; change title to read as follows:**

R112- ~~Board of Appeals~~ Building and Fire Codes Appeal Board

(Reason: The Building and Fire Codes Appeal Board is a unified appeals board for the Fire Department and Building Inspection Department. Amendment to 2015 IRC carried forward to 2021 IRC.)

***Section R112.1; change to read as follows:**

112.1 General. The Building and Fire Codes Appeal Board shall be in accordance with Chapter 24, Article 24.02 of the City of Murphy Code of Ordinances. ~~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... remainder unchanged.... to the building official.~~

(Reason: The Building and Fire Codes Appeal Board is governed by Article 24.02 of the City of Murphy Code of Ordinances. Amendment to 2015 IRC carried forward to 2021 IRC.)

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***Section [A] 112.2, [A] 112.3 and [A] 112.4; DELETE**

(Reason: The Building and Fire Codes Appeal Board is governed by Article 24.02 of the City of Murphy Code of Ordinances. Amendment to 2015 IRC carried forward to 2021 IRC.)

****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 not less than two sides.

(Reason: To distinguish Townhouse Units within a Townhouse building on separate lots.)

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

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

Delete remainder of table Manual J Design Criteria and footnote N

(Reason: To promote regional uniformity. Table Manual J Design Criteria is deleted. Manual J is utilized by third parties and not part of performed plan reviews. This is a reference table only, not needed. Minor change from 2015 IRC amendment.)

****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. Amendment to 2015 IRC carried forward to 2021 IRC.)

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

R302.5.1 Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 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. Amendment to 2015 IRC carried forward to 2021 IRC.)

****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. Amendment to 2015 IRC carried forward to 2021 IRC.)

***Section R309.3; Flood hazard areas: DELETE**

(Reason: Floodplain provisions are addressed by the City of Murphy Flood Damage Prevention Ordinance. Amendment to 2015 IRC carried forward to 2021 IRC.)

***Section R309.5 Fire Sprinklers: DELETE**

(Reason: Fire sprinkler requirements are addressed by the City of Murphy Fire Sprinkler Ordinance. Amendment to 2015 IRC carried forward to 2021 IRC.)

*****Section R313 Automatic Fire Sprinkler Systems: DELETE**

(Reason: This section is adopted as Appendix P. 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. Appendix P will read the same as the 2003, 2006 and 2015 IRC amendments.)

****Section R322 Flood Resistant Construction: DELETE**

(Reason: Floodplain provisions are addressed by the City of Murphy Flood Damage Prevention Ordinance. Amendment to 2015 IRC carried forward to 2021 IRC.)

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*****Section 326.1.1; add 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.

(Reason: To clarify specific distances for pools and spas.)

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

(Reason: An engineered foundation is already required by the City. Applies to additions to residential dwelling foundations. Amendment to 2015 IRC, modified and carried forward to 2021 IRC.)

***Section R404.4 Retaining walls. Delete the section, add new text as follows:**

Section R404.4 Retaining walls. Retaining walls shall be constructed of stone, brick or other masonry materials. Retaining walls exceeding 4 feet in height shall be designed and sealed by a Texas-registered engineer.

(Reason: To have an enforceable and reasonable standard for retaining walls. Amendment to 2015 IRC carried forward to 2021 IRC.)

***Add Subsections R1001.13.1 and R1001.13.2**

R1001.13.1 Outdoor Fireplaces. The placement of outdoor fireplaces shall conform to all building setback requirements for single family dwellings as found in the City of Murphy Code of Ordinances.

R1001.13.2 Fire pits. Fire pits shall be a minimum of 10 feet from property lines, 10 feet from a residence, and 10 feet from any combustible materials. The maximum diameter of a fire pit shall be 3 feet. The maximum height shall be 2 feet.

(Reason: To define the placement and setback requirements for fire pits and fireplaces. Amendments to 2015 IRC carried forward to 2021 IRC.)

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****Chapter 11 [RE] – Energy Efficiency is deleted in its entirety and replaced with the following:**

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 residential provisions of 2021 International Energy Conservation Code.

(Reason: The text of the residential provisions of the 2018 IRC is extracted from the 2018 edition of the International Energy Conservation Code—Residential Provisions and has been editorially revised to conform to the scope and application of this code. The section numbers appearing in parenthesis after each section number are the section numbers of the corresponding text in the International Energy Conservation Code—Residential Provisions. This approach simply minimizes the number of amendments to the IRC. Amendment to 2015 IRC carried forward to 2021 IRC)

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

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

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

(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. minor changes from the 2015 IRC amendment.)

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

M1411.3 Condensate disposal. Condensate from cooling coils and evaporators shall be conveyed from the drain pan outlet to ~~an approved place of disposal~~ the 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. Amendment to 2015 IRC carried forward to 2021 IRC)

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

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

Exception: Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open. Where all appliances

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in the house are of sealed combustion, power-vent, unvented, or electric, the exhaust hood system shall be permitted to exhaust up to 600 cubic feet per minute (0.28 m³/s) without providing makeup air. Exhaust hood systems capable of exhausting in excess of 600 cubic feet per minute (0.28 m³/s) shall be provided with a makeup air at a rate approximately to the difference between the exhaust air rate and 600 cubic feet per minute.

(Reason: Exception requires makeup air equaling the amount above and beyond 400 cfm for larger fan which will address concerns related to "fresh" air from the outdoors in hot humid climates creating a burden on HVAC equipment and negative efficiency impacts from back-drafting and wasted energy. Amendment to 2015 IRC carried forward to 2021 IRC)

****Section G2408.3 (305.5) Private Garages: DELETE**

(Reason: This provision does not reflect standard practice in this area. Amendment to 2015 IRC carried forward to 2021 IRC)

****Section G2415.2. (404.1) CSST; add a second paragraph to read as follows:**

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

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

(Reason: To protect homeowners and plumbers. Amendment to 2015 IRC carried forward to 2021 IRC)

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

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

(Reason: To provide increased protection to piping systems. Amendment to 2015 IRC carried forward to 2021 IRC)

***Section 2415.12.1 (404.13); Individual outside appliances: DELETE**

(Reason: Individual lines should also be buried to 18 inches. Amendment to 2015 IRC carried forward to 2021 IRC.)

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

G2417.4 (406.4) Test pressure measurement. Test pressure shall be measured with a manometer or with a pressure-measuring device designed and calibrated to read, record, or indicate a pressure loss caused by leakage during the pressure test period. The source of pressure shall be isolated before the

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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. Amendment to 2015 IRC carried forward to 2021 IRC)

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

G2417.4.1 (406.4.1) Test pressure. The test pressure to be used shall ~~be not less than 1½ times the proposed maximum working pressure, but not~~ no less than 3 psig (20 kPa gauge) or at the discretion of the Code Official, the piping and valves may be tested at a pressure of at least six (6) inches (152 mm) of mercury, measured with a manometer or slope gauge, irrespective of design pressure. Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe. For tests requiring a pressure of 3 psig, diaphragm gauges shall utilize a dial with a minimum diameter of three- and one-half inches (3 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. Amendment to 2015 IRC carried forward to 2021 IRC.)

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

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

(Reason: To comply with accepted regional practices. Amendment to 2015 IRC carried forward to 2021 IRC)

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

G2420.1.4 Valves in CSST installations. Shutoff valves installed with corrugated stainless steel (CSST) piping systems shall be supported with an approved termination fitting, or equivalent support, suitable for the size of the valves, of adequate strength and quality, and located at intervals so as to

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prevent or damp out excessive vibration but in no case greater than 12-inches from the center of the valve. Supports shall be installed so as not to interfere with the free expansion and contraction of the system's piping, fittings, and valves between anchors. All valves and supports shall be designed and installed so they will not be disengaged by movement of the supporting piping.

(Reason: To provide proper security to CSST valves. These standards were established in this region in 1999 when CSST was an emerging technology. Amendment to 2015 IRC carried forward to 2021 IRC.)

****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. Amendment to 2015 IRC carried forward to 2021 IRC.)

****Section G2422.1.2.3 (411.1.3.3); DELETE Exception 1 and Exception 4.**

G2422.1.2.3 (411.1.3.3) Prohibited locations and penetrations. Connectors shall not be concealed within, or extended through, walls, floors, partitions, ceilings or appliance housings.

Exceptions:

- ~~1. Connectors constructed of materials allowed for piping systems in accordance with Section G2414 shall be permitted to pass through walls, floors, partitions and ceilings where installed in accordance with Section G2420.5.2 or G2420.5.3.~~
- ~~4. Semirigid tubing and listed connectors shall be permitted to extend through an opening in an appliance housing, cabinet or casing where the tubing or connector is protected against damage.~~

(Reason: To comply with accepted regional practices. To ensure the installation of rigid gas connectors. Amendment to 2015 IRC carried forward to 2021 IRC)

****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

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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. Amendment to 2015 IRC carried forward to 2021 IRC.)

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

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

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

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

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

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

***Section P2801.6.1; change 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) in depth and shall be of sufficient size and shape to receive all dripping or condensate from the tank or water heater. The pan shall be drained by an indirect waste pipe having a diameter of not less than 3/4 inch (19 mm). Piping for safety pan drains shall be of those materials indicated in Table 2906.5. ~~Where a pan drain was not previously installed, a pan drain shall not be required for a replacement water heater installation.~~

(Reason: Unpermitted, non-code compliant water heater installations are frequently found not to have a pan drain. All water heaters need a pan drain, when technically feasible. Amendment to 2015 IRC carried forward to 2021 IRC)

****Section 2804.6.1; change to read as follows:**

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

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2. Discharge through an air gap. ~~located in the same room as the water heater.~~
4. Serve a single relief device and shall not connect to piping serving any other relief device or equipment.
Exception: Multiple relief devices may be installed to a single T & P discharge piping system when approved by the administrative authority and permitted by the manufactures installation instructions and installed with those instructions.
5. Discharge to ~~the floor, to the pan serving the water heater or storage tank, to a waste receptor~~ an approved location or to the outdoors.

(Reason: To ensure the T&P discharge piping is installed to a suitable point of termination.)

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

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

(Reason: To allow a double-check valve assembly to be utilized as a backflow prevention device for lawn sprinkler systems. Amendment to 2015 IRC carried forward to 2021 IRC)

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

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

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

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

(Reason: to keep the "process of joining PVC pipe". Amendment to 2015 IRC carried forward to 2021 IRC)

****Section P3112.2 Vent Connection; DELETE and replace with the following:**

P3112.2 Installation. Traps for island sinks and similar equipment shall be roughed in above the floor and may be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye-branch immediately below the floor and extending to the nearest partition and then through the roof to the open air or may be connected to other vents at a point not less than six (6) inches (152 mm) above the flood level rim of the fixtures served. Drainage fittings shall be used on all parts of the vent below the floor level and a minimum slope of one-quarter (1/4) inch per foot (20.9 mm/m) back to the drain shall be

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maintained. The return bend used under the drainboard 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. Amendment to 2015 IRC carried forward to 2021 IRC.)

Appendix M changes on following page. The rest of this page is left blank intentionally.

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*** Appendix M, Requirements for Group R, Division 3.1 Occupancies; to read as follows:
REQUIREMENTS FOR GROUP R DIVISION 3.1 OCCUPANCIES “In-Home Day Care”**

Section AM101 – Definition

For the purpose of this division, Group R, Division 3.1 Occupancies or “In-Home Day Care” shall be a Single-family detached residence used for the purpose of providing daycare. The use is allowed in the caretaker’s residence under these three options:

1. Provides care for less than 24 hours a day to no more than six children under the age of fourteen, plus no more than six additional elementary school-age children (age five to thirteen). The total number of children (counting the caretaker’s own children) is no more than twelve at any time. Registration with the Texas Department of Protective and Regulatory Services is required, unless exempted by state law.
2. Provides care for less than 24 hours a day for seven to twelve children (including the caretaker’s and staff’s children) under the age of 14. A license from the Texas Department of Protective and Regulatory Services is required. Care provided to nine or more children that does not comply with Option 1 requires a Specific Use Permit as defined in local zoning.
3. All group day care homes which were licensed by the State of Texas or had a license application pending on or before October 25, 1993, are considered to be a legal use in residential districts and will not require SUP approval as long as a valid license is maintained for the operation in its original location and it provides care for less than 24 hours a day for no more than twelve children (including the caretaker’s and staff’s children) under the age of 14.

Section AM102 - Construction, Height and Allowable Area

AM102.1 General. Building or parts of buildings classified as R-3.1 because of the use and character of the occupancy shall comply with the provisions for an R-3.1 occupancy with the exception of the provisions located in this appendix chapter.

AM102.2 Special Provisions. All rooms or spaces used for the purpose of providing daycare shall be located on the ground floor. All stairways or ramps providing access to areas above or below the ground floor shall be made inaccessible to children by means of an approved permanent barrier located at the ground floor.

AM102.3. A Certificate of Occupancy is required for all buildings containing R-3.1 occupancy. Such Certificate of Occupancy must be renewed annually in conjunction with the State mandated inspections conducted by the Fire Department. The Certificate of Occupancy will only be renewed when it is determined by the Fire Department that the building complies with all the provisions of this Chapter. Application for the Certificate of Occupancy shall be made in the Office of the Building Official and a fee shall be collected as prescribed in the Administrative Code.

Section AM103 - Location of Lot

AM103.1. For requirements for fire resistance of exterior walls and openings, refer to Section R302.

Section AM104 - Access and Exit Facilities and Emergency Escapes

AM104.1. No room or space used for the purpose of daycare may be enclosed by doors equipped with double-keyed dead bolts. An approved emergency plan shall be posted and maintained in the facility.

Recommended Amendments to the 2021 International Residential Code

Section AM105 – Light, Ventilation and Heating

AM105.1 For requirements for light, ventilation and heating Section R303, Light, Ventilation and Heating.

Section AM106 – Minimum Room Areas

AM106.1. For requirements of room dimensions, refer to Section R304, Minimum Room Areas

Section AM107 - Smoke Detectors and Fire Extinguishing Equipment

AM107.1. Every habitable room in buildings housing R-3.1 Occupancies shall be equipped with an approved smoke detector. All such smoke detectors shall be interconnected in such a manner that if smoke is detected by a detector, all of the detectors will alarm.

Exceptions: An approved heat detector may be substituted for the required smoke detector located in the kitchen in R-3.1 Occupancies.

All other requirements for smoke detection equipment for R-3.1 Occupancies must be met.

AM107.2. Kitchens in buildings housing R-3.1 Occupancies shall be equipped with an approved 2A:10-B: C fire extinguisher. An additional approved 2A:10-B: C fire extinguisher shall be located in the area of the building used for daycare purposes.

Section AM108 - Heating

AM108.1. All equipment used for heating and air conditioning and all water heaters shall comply with the provisions for such equipment found in Part V – Mechanical, Part VI – Fuel Gas and Part VII – Plumbing of this code.

**Recommended Amendments to the
2021 International Residential Code**

***Appendix P, Section AP101, Section R325 of the 2003 and 2006 IRC as amended and codified by City Ord. 05-01-632 is retained and adopted as Appendix P to read as follows:**

AP101 Fire Sprinklers

R325 Automatic Sprinkler Systems

An automatic sprinkler system shall be installed in all new buildings 6,000 square feet and greater, and in all existing buildings that are enlarged to be 6,000 square feet or greater, and in building greater than 6,000 square feet which are enlarged. Only gross floor area within the exterior walls shall be used to calculate the building area.

Exception: The floor areas of covered patios and porches open entirely on at least one side, except for guardrails, need not be included in the calculation of the area of the building.

(Reason: 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. (2003 IRC, as amended and codified by city Ord. 05-01-632) Same as 2003, 2006 and 2015 amendment.)