

(B) The International Residential Code, ~~2015~~ 2018 Edition, is amended as follows:

(1) Chapter 1, "Scope and Administration," is hereby amended as follows:

Note: For reserved sections herein, refer to the Building Code of the City of Peoria Administrative Provisions for these code requirements.

R101.1 Title. Insert the words "City of Peoria" as the name of jurisdiction.

R101.2 Scope.

The provisions of the International Residential Code for One-and Two-Family Dwellings shall apply to the construction, *alteration*, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and townhouses not more than three stories above *grade plane* in height, with a separate means of egress, and their accessory structures not more than three stories above *grade plane* in height.

Exception: The following shall be permitted to be constructed in accordance with this code. ~~where provided with a residential fire sprinkler system complying with Section P2904:~~

1. Live/work units located in one-and two-family dwellings, or townhouses and complying with the requirements of Section 419 of the International Building Code. Fire suppression required by Section 419.5 of the International Building Code when designed under the International Residential Code for One- and Two-family dwellings shall conform to Section P2904.
2. Owner-occupied lodging houses with five or fewer guestrooms.
3. A care facility with five or fewer persons receiving *custodial care* within a dwelling unit.
4. A care facility with five or fewer persons receiving *medical care* within a dwelling unit.
5. A care facility with five or fewer persons receiving care that ~~are~~ reside within a single-family dwelling.

R101.3 Intent. Reserved.

Section R102, "Applicability" is amended as follows:

R102.1 General. Reserved.

R102.2 other laws. Reserved.

R102.3 Application of reference. Reserved.

Amend Section R102.5 Appendices by adding the following:

R102.5 Appendices. The following appendices are adopted: **APPENDIX A - SIZING AND CAPACITIES OF GAS PIPING; APPENDIX B –SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE AND TYPE B VENTS; APPENDIX C – EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT – VENT VENTING SYSTEMS; APPENDIX D – RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION; APPENDIX G –PIPING STANDARDS FOR VARIOUS APPLICATIONS; APPENDIX H – PATIO COVERS; APPENDIX J – EXISTING BUILDINGS AND STRUCTURES; APPENDIX K – SOUND TRANSMISSION; APPENDIX N – VENTING METHODS; APPENDIX P – SIZING OF WATER PIPING SYSTEMS.; APPENDIX Q – TINY HOUSES; APPENDIX R – LIGHT STRAW-CLAY CONSTRUCTION; APPENDIX S – STRAWBALE CONSTRUCTION; APPENDIX T – SOLAR READY PROVISIONS – DETACHED ONE-AND TWO-FAMILY DWELLINGS**

R102.6 Partial Invalidity. Reserved.

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, the *International Property Maintenance Code* or the Peoria Fire Code, as amended by the City of Peoria, or as is deemed necessary by the *building official* for the general safety and welfare of the occupants and the public.

Chapter 1, “Administration and Enforcement” is amended as follows:

SECTION R103. DEVELOPMENT AND ENGINEERING Reserved.

SECTION R104. DUTIES AND POWERS OF THE BUILDING OFFICIAL Reserved.

SECTION R105. PERMITS Reserved.

SECTION R106. CONSTRUCTION DOCUMENTS Reserved.

SECTION R107. TEMPORARY STRUCTURES AND USES Reserved.

SECTION R108. FEES Reserved.

SECTION R109. INSPECTIONS Reserved.

SECTION R110. CERTIFICATE OF OCCUPANCY Reserved.

SECTION R111. SERVICE UTILITIES Reserved.

SECTION R112. BOARD OF APPEALS Reserved.

SECTION R113. VIOLATIONS Reserved.

SECTION R114. STOP WORK ORDER Reserved.

(2) Chapter 2, "Definitions," is hereby amended as follows:

SECTION R202. DEFINITIONS

Fire separation distance. The distance measured from the building face to one of the following:

1. To the closest interior lot line.
2. To the centerline of a street, an alley, or public way.
3. To an imaginary line between two buildings on the lot. The distance shall be measured at a right angle from the face of the framing.

Standard Plans. Plans authorized by the Development and Engineering Department to be used in construction on a repetitive basis. Standard plans may include options allowing variations to the building design that may alter the interior and exterior appearance.

(3) Chapter 3, "Building Planning," is hereby amended to read as follows:

R301.1.4 Lot corner identification. In construction applications where legally surveyed lot corner identification markers are not readily verifiable or are missing, the building official, when deemed necessary, shall require lot boundary markers to be surveyed and permanently identified in accordance with State law at the owner's or applicant's expense. The survey shall be executed by a registrant licensed to do such work by the Arizona State Board of Technical Registration.

R301.2 Climatic and geographic design criteria. Buildings shall be constructed in accordance with provisions of this code as limited by the provisions of this section.

Amend Table R301.2(1), by inserting the following:

Table R301.2(1)

(Due to space limitations the table could not be reproduced; only the values are listed)

Ground snow load:	0 psf
Wind speed (mph):	115 mph
Topographic effects	No
<u>Special wind region</u>	<u>No</u>
Wind-borne debris zone	No

Seismic design category:	B
Weathering:	<u>Negligible</u>
Frost line depth:	12"
Termite:	Moderate to Heavy
Winter design temperature:	32°
Ice shield underlayment required:	No
Flood hazards:	See Peoria City Code
Air freezing index:	0
Mean annual temperature:	71.2° F

MANUAL J DESIGN CRITERIA^N

Refer to Section M1401.3 and N1103.7 of the 2018 IRC.

~~Elevation:~~

~~Latitude:~~

~~Winter heating:~~

~~Summer cooling:~~

~~Altitude correction factor:~~

~~Indoor temperature design:~~

~~Design temperature cooling:~~

~~Heating temperature difference:~~

~~Cooling temperature difference:~~

~~Wind velocity heating:~~

~~Wind velocity cooling:~~

~~Coincident wet bulb:~~

~~Daily range:~~

~~Winter humidity:~~

~~Summer humidity:~~

For SI: 1 pound per square foot = 0.0479 kPa, 1 mike 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 weathering column shall be filled in with the weathering index, "negligible," "moderate" or "severe" for concrete as determined from Figure R301.2(4). 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. The jurisdiction shall fill in the frost line depth column with the minimum depth of footing below finish grade.

c. The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.

d. The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(5) A]. Wind exposure category shall be determined on a sitespecific basis in accordance with Section R301.2.1.4.

e. The outdoor design dry-bulb temperature shall be selected from the columns of 97^{1/2}-

percent values for winter from Appendix D of the *International Plumbing Code*. Deviations from the Appendix D temperatures shall be permitted to reflect local climates or local weather experience as determined by the building official. [Also see Figure R301.2(1).]

f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.

g. The jurisdiction shall fill in this part of the table with (a) the date of the jurisdictions' entry into the National Flood Insurance Program (dated of adoption of the fires code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and the (c) the panel numbers and dates of the currently effective FIRM' and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended.

h. In accordance with Sections R905.1.2, R905.4.3.1, R905.5.3.1m R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise the jurisdiction shall fill in this part of the table with "NO."

i. The jurisdiction shall fill in this part of the table with the 100-year return period air freezing index (FG-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)."

j. The jurisdiction shall fill in this part of the table with 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, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

l. In accordance with Figure R301.2(5) A, where there are local historical data documenting unusual wind conditions, the jurisdiction shall fill in the part of the table with "YES" and identify any specific requirements. Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

m. In accordance with Section R301.2.1.2 the jurisdiction shall indicate the wind-borne debris wind zones(s). Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

~~n. The jurisdiction shall fill in these sections of the table to establish the design criteria using Table 1a or 1b from ACCA Manual J or established criteria determined by the jurisdiction.~~

o. The jurisdiction shall fill in this section of the table using the Ground Snow Loads.

R301.2.4 Floodplain construction. Buildings and structures constructed in whole or in part in flood hazard areas, and substantial improvement and restoration of substantial damage of buildings and structures in flood hazard areas, shall be designed and constructed in accordance with the Peoria City Code.

Section R301.5, "Live Load" is amended as follows:

**Table R301.5
MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS
(in pounds per square foot)**

USE	LIVE LOAD
Uninhabitable attics without storage	10
Uninhabitable attics with limited storage	20
Habitable attics and attics served with fixed stairs	30 40

Balconies (exterior) and decks	40
Fire escapes	40
Guards and handrails	200
Guard in-fill components	50
Passenger vehicle garages	50
Rooms other than sleeping rooms	40
Sleeping rooms	40
Stairs	40

Section R302, “FIRE-RESISTANT CONSTRUCTION” is amended 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 Section P2904 shall comply with Table R302.1(2).~~

Exceptions:

- ~~1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the fire separation distance.~~
- ~~2. Walls between dwellings and accessory structures located on the same lot.~~
- ~~3. Detached tool sheds and storage sheds, playhouses and similar structures exempted from permits are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.~~
- ~~4. Detached garages accessory to a dwelling located within 2 feet (610 mm) of a lot line are permitted to have roof eave projections not exceeding 4 inches (102 mm).~~
- ~~5. Foundation vents installed in compliance with this code are permitted.~~

R302.2.2 Common walls.

Common walls separating townhouses shall be assigned a fire resistance rating in accordance with Item 1 or 2. The common wall shared by two townhouses shall be constructed without plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be in accordance with chapters 34 through 43. Penetrations of the membrane of common walls for electrical outlet boxes shall be in accordance with section R302.4.

1. Where a fire sprinkler system in accordance with P2904 is provided, the common wall shall not be 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* (as amended by the City of Peoria).

2. Where a fire sprinkler system in accordance with P2904 is not provided, the common wall shall not be 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* (as amended by the City of Peoria).

R302.5.1 Opening protection is amended as follows:.

Openings from a private garage or carport directly into a room used for sleeping purposes or a hallway that only accesses sleeping rooms shall not be permitted. Other openings between the garage or carport and residence shall be equipped with solid wood doors not less than 1 $\frac{3}{8}$ inches (35 mm) in thickness, solid or honeycomb-core steel doors not less than 1 $\frac{3}{8}$ inches (35 mm) thick, or 20-minute fire-rated doors or windows, equipped with a self-closing or automatic closing device.

Amend Section R303 as follows:

Section R303. LIGHT, VENTILATION, AND HEATING AND COOLING

R303.10 Required heating and cooling. Every *dwelling unit* shall be provided with heating and cooling facilities capable of maintaining room temperatures between 70°F (21°C) and 90°F (50°C) at a point 3 feet (914 mm) above the floor and 2 feet (610 mm) from exterior walls in all habitable rooms. The installation of one or more portable space heaters or portable space coolers shall not be used to achieve compliance with this section.

Amend R310, “Emergency Escape and Rescue Openings” as follows:

R310.4 Bars, grilles, covers and screens. Bars, grilles, covers, screens or similar devices are permitted to be placed over emergency escape and rescue openings, bulkhead enclosures, or window wells that serve such openings, provided that the minimum net clear opening size complies with Sections R310.1.1 to R310.2.3, and such devices shall be releasable or removable from the inside without the use of a key, tool, special knowledge or force greater than that required for normal operation of the escape and rescue opening. The dwelling shall be equipped with smoke alarms installed in accordance with Section R314.

Add the following section, as amended:

SECTION R313 AUTOMATIC FIRE SPRINKLER SYSTEMS

R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in *townhouses*, as required by the Peoria Fire Code.

Exception: An automatic residential fire sprinkler system shall not be required when *additions* or *alterations* are made to existing *townhouses* that do not have an automatic residential fire sprinkler system installed, unless required by the Peoria Fire Code.

R313.1.1 Design and installation. Automatic residential fire sprinkler systems for *townhouses* shall be designed and installed in accordance with the Peoria Fire Code.

R313.2 One- and two-family ~~detached~~ dwellings automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in ~~detached~~ one- and two-family *dwellings*, as required by the Peoria Fire Code.

Exception: An automatic residential fire sprinkler system shall not be ~~installed~~ required for in additions or alterations to existing buildings that are not already provided with an automatic residential sprinkler system, unless as required by the Peoria Fire Code.

R313.2.1 Design and installation. Automatic residential fire sprinkler systems shall be designed and installed in accordance with the Peoria Fire Code.

Amend Section R320, "Accessibility" as follows:

R320.2 Model Home Complex

R320.2.1 No-step entrance. At least one single family dwelling as part of a Model Home Complex, as described in the Peoria Zoning Ordinance, shall have a no-step entrance as described in Section R320.2.2

R320.2.2 Dwellings. Residential single family dwellings, as part of a Model Home Complex, as described in the Zoning Ordinance, shall have a route of travel as described herein. The route of travel shall be a continuous no-step path connecting each subdivision sales office or public way to the primary entry.

The route of travel shall conform to the following requirements:

1. The running slope shall not exceed ~~1:20~~1:12.
2. Routes of travel complying with this section are not required to have handrails.
3. The route of travel shall be a firm, stable, and slip resistant surface for a minimum width of 36 inches (914 mm) continuous and clear for a height of 7 feet (2.134 m) above the route.
4. The entry to the model home shall have a maneuvering space of a minimum 48 inches (1219 mm) by 48 inches (1219 mm) on the exterior side of the entry door.
5. The threshold at the entry shall not exceed ½ inch (13 mm).
6. The no step entry shall be identified by a readily viewable sign.

R322 FLOOD-RESISTANT CONSTRUCTION RESERVED

Amend SECTION R326 SWIMMING POOLS, SPAS AND HOT TUBS as follows:

GENERAL

R326.1 General. The design and construction of swimming pools, spas, and hot tubs shall comply with the provisions of this section ~~International Swimming Pool and Spa Code.~~

DEFINITIONS

R326.2 Definitions. For the purpose of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See Swimming pool.

BARRIER. A fence, wall building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See Swimming pool.

IN-GROUND POOL. See Swimming pool.

RESIDENTIAL. That which is situated on the premises of a detached one or two-family dwelling or a one-family townhouse not more than three stories in height.

SPA, NONPORTABLE. See Swimming pool.

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating equipment are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 18 inches (457 mm) deep. This includes in-ground, above ground and on-ground swimming pools, hot tubs, spas, and fixed in place wading pools.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by walls of said structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

R326.3 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/APSP/ICC NSPI-5 ~~as listed in Section AG108.~~

R326.3.1 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/APSP/ICC NSPI-4 ~~as listed in Section AG108.~~

R326.3.2 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools designed and constructed in compliance with ASCE 24.

R326.3.3 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/APSP/ICC NSPI-3 ~~as listed in Section AG108.~~

R326.3.4 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/APSP/ICC NSPI-6.

R326.4 Application. The provisions of this section shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near drownings by restricting access to swimming pools, spas and hot tubs.

R326.4.1 Outdoor swimming pool. It is the responsibility of the property owner and any other person in responsible charge of a swimming pool to ensure that the required swimming pool barrier, including all gates, doors, locks, latches, and other portions of the barrier are maintained safe and in good working order at all times. No person shall alter or remove any portion of a swimming pool barrier, except to repair, reconstruct, or replace the barrier in compliance with the provisions of this section. All barriers shall be installed, inspected, and approved prior to plastering or filling with water. An outdoor swimming pool, including an in-ground, aboveground or on-ground pool, hot tub or spa shall be provided with a barrier which shall comply with the following:

1. The top of the barrier shall be at least 5 feet (1524 mm) above grade measured on the side of the barrier which faces away from the swimming pool. Such height shall exist around the entire perimeter of the barrier and for a distance of 3 feet (914 mm) measured horizontally from the outside of the required barrier.
2. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool.
3. The maximum clearance at the bottom of the barrier may be increased to 4 inches (102 mm) when grade is a solid, non-removable surface.
4. Where the top of the pool structure is above grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
5. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
6. Solid barriers which do not have openings, such as a masonry or stonewall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

7 4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

8 5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

9 6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) square and provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 inches (44 mm). The mesh shall not be less than 11 gage.

10 ~~7~~. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1.75 inches (44 mm).

11 ~~8~~. Access gates shall comply with the requirements of Section R326.4.1, items 1 through 10 ~~7~~, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. ~~Gates other than pedestrian access gates need not be self-closing or self-latching and shall be equipped with a padlock or similar locking device.~~

If a set of double gates or multiple gates is the only access to the yard area where the pool is located, they shall have not fewer than one leaf secured in place and the adjacent leaf shall be self-closing and be secured with a self-latching device. The gate and barrier shall not have openings larger than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the latch release mechanism. The self-latching device shall comply with the requirements of Section 3109.5.2.11. If a pedestrian gate is present in conjunction with the double or multiple gates, the double or multiple gates need not be self-closing or self-latching and shall be equipped with a padlock or similar locking device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:

11~~8~~.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate, and

~~118~~.2. The gate and barrier shall have no opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

~~129~~. Where a building wall serves as part of the barrier, one of the following conditions shall be met:

~~129~~.1. The pool shall be equipped with a key operated powered safety cover in compliance with ASTM F1346. The keyed pool cover switch shall be located not less than 54 inches (1372 mm) above the floor or adjacent ground level and where the entire pool cover can be visually inspected; or

~~129~~.2. All doors leading from the building, directly into a yard with a swimming pool, shall swing away from the pool, shall be self-closing and self-latching, and shall be equipped with a locking device. The release mechanism for the latch, shall be located not less than 54 inches (1372 mm) above the floor. A locking latch which uses a key, electronic opener, or integral combination lock may be located at any height on the door. Sliding doors shall not form any part of a required barrier unless the self-closing and self-latching mechanism is specifically approved.

12.3. Multi panel sliding doors or walls shall meet the requirements of Section R326.4.1.12.2 or shall be secured in place by a permanent fastening method that requires a tool to remove. If a sliding glass door or panel is the only door to the pool area, it shall meet the requirements of Section R326.4.1.12.2.

~~129~~.4. Windows used for emergency escape or rescue which face into a yard with a swimming pool shall be equipped with a latching device located not less than 54 inches (1372 mm) above the floor. All other operable windows facing into a yard with a swimming pool shall be equipped with a screwed in place wire mesh screen, a keyed lock that prevents opening the window more than 4 inches (102 mm), or a latching device not less than 54 inches (1372 mm) above the floor.

~~129.35~~. Pet doors with direct access to the pool are not allowed.

Exception: One and two family dwellings, in an age restricted community, are not required to have the house wall serve as a barrier requirement, as long as there are no children under the age of 6 permanently residing on the property.

~~1310~~. Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps:

~~1340~~.1. The ladder or steps shall be capable of being secured in an inaccessible position with a lock or latch located 54 inches (1372 mm) above the adjacent ground level, or

~~1340~~.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section 326.4.1, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

~~1444~~. Where there are natural barriers between properties, such as lakes and solid rock vertical cliffs not less than 10 feet (3048 mm) in height and a slope of not less than 1 horizontal to 10 vertical, fence barriers shall not be required between properties where the natural barrier exists. To ensure proper natural barriers are maintained, barrier fences shall project a minimum of 24 inches (610 mm) into lakes to where there is at least 24 inches (610 mm) depth from the lake surface to the top of the submerged horizontal member or the lake bottom when there is no submerged horizontal member. There shall be no horizontal member less than 45 inches above the lake surface. Where the solid rock cliff extends above the property, the intersecting barriers, with the solid rock cliff, shall not allow passage of a 4 inch diameter (102 mm) sphere.

R326.4.2 Indoor swimming pool. All walls surrounding an indoor swimming pool shall comply with Section R326.4.1

R326.4.3 Prohibited locations. Barriers shall be located not less than 45 inches (1143 mm), measured horizontally from permanent structures, equipment or similar objects so as to prohibit them from being used to climb the barriers.

R326.4.4 Barrier exceptions.

1. For portable spas and hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section R326, shall be exempt from the provisions of R326.4.1, Item 12 ~~9~~.
2. For spas and hot tubs, a hard safety cover which is latched or locked may be used provided the spa or hot tubs not more than 8 feet (2.44 m) in width at any point.
3. Existing swimming pools located on a one-family dwelling property on or before July 20 ~~May 1~~, 2017 need not be retroactively fitted with a barrier between the dwelling and the pool provided all occupants of the dwelling are at least six years of age or older or there is a door alarm. The alarm shall be listed in accordance with UL 2017. All other portions of the swimming pool barrier separating properties shall be installed and maintained as required by Section 326.4.1.
 - (a) This exception does not eliminate an owner's responsibility for providing a temporary barrier or otherwise physically restricting visiting children's direct access from the dwelling to the swimming pool.
 - (b) This exception shall expire and the required permanent barrier shall be retroactively installed between the dwelling and the swimming pool whenever:

- (1) One or more children under six years of age become occupants of the property.
- (2) There is a change of use or character to the primary building occupancy on the property.
- (3) A new pool or spa is being installed on the same property including spa additions to the existing swimming pool.

R326.5 Suction Entrapment Avoidance. Pools, spas, hot tubs, catch basins and other similar bather accessible bodies of water associated with swimming pool construction shall be designed to produce circulation throughout the body of water and provide means to protect against user suction entrapment in accordance with ANSI/APSP-7.

R326.5.1 Surface skimming or perimeter overflow system. To avoid suction entrapment, fully submerged suction outlets (main drains) shall not be required in swimming pools, wading pools, spas, hot tubs and catch basins. Surface skimming or perimeter overflow system shall be permitted in lieu of fully submerged suction outlet fittings and shall provide 100% of the required system flow.

R326.5.2 Fully submerged suction outlets (main drains). Fully submerged manufactured suction outlets (main drains) for use in swimming pools, wading pools, hot tubs and catch basins shall be listed by a nationally recognized testing laboratory in accordance with ASME/ANSI A112.19.9M.

Exception: Custom designed suction outlet fittings certified by a licensed professional engineer that conform to Sect 3. General requirements of ASME/ANSI A112.19.8M.

R326.5.3 Methods of entrapment avoidance. Entrapment avoidance of fully submerged suction outlets can be achieved by one of the following methods:

R326.5.3.1 Dual Drains. A minimum of two (2) suction outlets shall be provided for each pump or pumps in the suction outlet system, separated by a minimum of three feet (3') [91.44 cm] measured from center to center of suction pipes or located on two (2) different planes; i.e. one (1) on the bottom and one (1) on the vertical wall, or one (1) each on two (2) separate vertical walls. These suction outlets shall be plumbed such that water is drawn through them simultaneously through a common line to the system. Each suction outlet fitting shall be rated for the maximum system flow.

R326.5.3.2 Channel Drain System. One or more channel gates shall be acceptable as protection against suction entrapment if they are 3 inches or greater in width and 31 inches or greater in length and fastened to prevent removal as specified in ASME/ANSI A112.19.8M.

R326.5.3.3 Gravity flow system. A Gravity Flow system shall be acceptable as protection against suction entrapment if it has one or more submerged suction outlet(s) with approved cover/grates in any combination fed by gravity into a collection tank vented to atmosphere. However, a modulating float valve allowing direct suction is not permitted.

R326.5.3.4 Combination Inlet/Outlet Fixtures for Swim Jets. Combination Inlet/Outlet Fixtures shall be acceptable as protection against suction entrapment for a Swim Jet system not related to the filtration system, if they are manufactured and have their own dedicated pump(s), and the suction outlet and the return are located in a single fitting.

R326.5.3.4 Venturi Debris Removal Systems. Venturi Debris Removal Systems shall be acceptable as protection against suction entrapment if they are intended to remove debris through a single, floor mount suction outlet where low pressure is created by the entrainment of water with a deck mount canister that is not directly or indirectly connected to a pump's suction. The single action outlet shall have an approved cover/gate.

R326.6 Shallow Water Suction Outlets. Where all suction fittings are located less than 24 inches below normal operating water level, one of the following shall be required:

1. gravity flow system
2. one (1) additional drain
3. vent system to atmosphere
4. suction vacuum release device tested and approved for the purpose by a nationally recognized testing laboratory in accordance with ASME A112.19.17.

R326.7 Wall Vacuum Fittings. Where provided, the vacuum cleaner fitting(s) shall be located in an accessible position(s) at least 6 inches and no greater than 18 inches below the water level and shall comply with ~~IAPMO SPS-4/ANSI/APSP-7~~.

SECTION R326.8 ABBREVIATIONS

R326.8.1 General.

ANSI. American National Standards Institute
11 West 42nd Street, New York, NY 10036

ASTM. American Society for Testing and Materials
1916 Race Street, Philadelphia, PA 19103

~~APSP NSPI. National Spa and Pool Institute Association of Pool & Spa Professionals~~
2111 Eisenhower Avenue, Alexandria, VA 22314
UL – Underwriters Laboratories, Inc.

333 Pfingsten Road
Northbrook, Illinois 60062-2096

SECTION 326.9 STANDARDS

R326.9.1 General.

ANSI/NSPI

ANSI/ ~~APSP/ICC NSPI-3-99~~ Standard for Permanently Installed Residential Spas

ANSI/ ~~APSP/ICC NSPI-4-99~~ Standard for Above-ground/On-ground Residential Swimming Pools

~~ANSI/ APSP/ICC NSPI-5-99~~ **Standard for Residential In-ground Swimming Pools**

ANSI/ ~~APSP/ICC NSPI-5-2003~~ Standard for Residential Portable Spas

ANSI/ASME A112.19.8M-1987 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, Hot Tubs and Whirlpool Bathing Appliances

ASTM

ASTM F 1346-91 (~~2010/1996~~) Performance Specification For Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs

ASME

ASME A112.19.17 Manufacturers Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pools

~~IAPMO~~

~~IAPMO SPS-4-2009 Special Use Suction Fittings for Swimming pools, spas and hot tubs (for suction side automatic swimming pool cleaners)~~

SECTION R3287 FIREPLACE RESTRICTIONS

R3287.1 Definitions

For purposes of this article, the following words and terms shall be defined as follows:

Fireplace: A built-in-place masonry hearth and fire chamber or a factory-built appliance, designed to burn solid fuel or to accommodate gas or electric log insert or similar device, and which is intended for occasional recreational or aesthetic use, not for cooking, heating, or industrial processes.

Solid fuel: Includes, but is not limited to, wood, coal, or other non-gaseous or non-liquid fuels, including those fuels defined by the Maricopa County Air Pollution Control Officer as “inappropriate fuel” to burn in residential wood burning devices.

Woodstove: A solid-fuel burning heating appliance including a pellet stove, which is either freestanding or designed to be inserted into a fireplace.

R3287.2 General

No person, firm or corporation shall construct or install a fireplace or a wood stove, and the Building Official shall not approve or issue a permit to construct or install a fireplace or a wood stove, unless the fireplace or wood stove complies with one of the following:

1. A fireplace which has a permanently installed gas or electric log insert;
2. A fireplace, wood stove or other solid fuel burning appliance which has been certified by the United States Environmental Protection Agency as conforming to 40 Code of Federal Regulations part 60, subpart AAA;
3. A fireplace, woodstove or other solid fuel burning appliance that has been tested and listed by a nationally recognized testing agency to meet performance standards equivalent to those adopted by 40 code of Federal Regulations part 60, subpart AAA;
4. A fireplace, wood stove or other solid fuel burning appliance which as been determined by the Maricopa County Air Pollution Control Officer to meet performance standards equivalent to those adopted by 40 Code of Federal Regulations part 60, subpart AAA, as in effect on July 1, 1990.
5. A fireplace which has a permanently installed wood stove insert which complies with subparagraph 2, 3, or 4 above.

Exceptions: The following installations are not regulated and are not prohibited by this section:

1. Furnaces, boilers, incinerators, kilns, and other similar space heating or industrial process equipment.
2. Cook stoves, barbecue grills, and similar appliances designed primarily for cooking.
3. Fire pits, barbecue grills, and other outdoor fireplaces.

R3287.3 Fireplace or wood stove alterations prohibited.

Fireplaces constructed or installed on or after ~~May 1, 2017~~ June 30, 1990 that contain a gas or electric log insert or a woodstove insert, shall not be altered to directly burn wood or any other solid fuel. ~~On or after May 1, 2017,~~ No person, firm, or corporation shall alter a fireplace, woodstove, or other solid-fuel burning appliance in any manner that would void its certification or operational compliance with the provisions of this section.

Fireplaces constructed or installed on or after ~~May 1, 2017,~~ June 30, 1990, shall not be altered without first obtaining a permit from the City to ensure compliance with this section.

Add a new SECTION R 328 SOUND ATTENUATION to read as follows:

R3298.1 Sound Attenuation. Buildings shall be subject to the following provisions:

1. Buildings shall be designed for a maximum interior noise level of 45 decibels.
2. Exterior wall penetrations by pipe ducts or conduits shall be caulked.
3. Mailboxes shall not be used through the door or wall.
4. Windows shall have two panes of glass and sound transmission rating of STC-22. All operable windows shall be weather stripped and airtight in accordance with ASTM R-283-84-T Standard. Perimeter window frames shall be sealed to airtight specifications.
5. All non-glazed portions of exterior side-hinged doors shall be solid-core wood or insulated hollow metal or at least one and three-quarters inch thick and fully weather stripped. The perimeter doorframes shall be sealed to airtight specifications.
6. Fireplaces shall be provided with well fitting dampers, unless otherwise prohibited elsewhere in the Code.
7. Exterior walls shall be at least four inches in nominal depth and shall be finished on the outside with block, siding, sheathing, or stucco on one-inch Styrofoam. R-13 fiberglass or cellulose insulation shall be installed continuously throughout the wall cavity. Total insulation R-value of the exterior wall assembly shall be R-18.
8. Attics and roof rafter spaces shall be insulated with a minimum insulation R-value of at least R-30.

If the specified requirements of section R328-324 are not met, the Building Official may approve as an alternative, a certification by an architect or engineer registered pursuant to Title 32, Chapter 1 to achieve a maximum interior noise level of forty-five (45) decibels at time of final construction.

(4) Chapter 4, "Foundations," is hereby amended as follows:

Amend **SECTION R401.1 FOUNDATIONS** to read as follows:

R401.1 Application. The provisions of this chapter shall control the design and construction of the foundation and foundation spaces for all buildings. In addition to the provisions of this chapter, the design and construction of foundation in flood hazard areas

shall be in accordance with the Peoria City Code. Wood foundations shall be designed and installed in accordance with AWC PWF.

R401.3 Drainage. All lot drainage shall comply with the requirements of the Peoria City Code. Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection that does not create a hazard. Lots shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6 inches (152 mm) within the first 10 feet (3048 mm).

Exception: Where lot lines, walls, slopes or other physical barriers prohibit 6 inches (152 mm) of fall within 10 feet (3048 mm) of the building foundation shall be sloped a minimum of 2 percent away from the building.

R401.4.1 Geotechnical evaluation.

In lieu of a complete geotechnical evaluation the load-bearing values in Table R401.4.1 shall be assumed. A complete geotechnical evaluation is required for presumptive load-bearing values greater than 1500 pounds per square foot (72kPa).

TABLE R401.4.1
PRESUMPTIVE LOAD-BEARING
VALUES OF FOUNDATION MATERIALS^a

<u>CLASS OF MATERIAL</u>	<u>LOAD-BEARING PRESSURE (pounds per square foot)</u>
<u>Crystalline bedrock</u>	<u>12,000</u>
<u>Sedimentary and foliated rock</u>	<u>4,000</u>
<u>Sandy gravel and gravel (GW and GP)</u>	<u>3,000</u>
<u>Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW, SP, SM c, SC c, GM, and GC)</u>	2,000 <u>1500</u>
<u>Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL c, ML, MH, and CH c)</u>	4,500 <u>1000</u>

For SI: 1 pound per square foot = 0.0479kPa

a. Where soil tests are required by Section R401.4, the allowable bearing capacities of the soil shall be part of the recommendations.

b. Where the building official determines that in-place soils with an allowable bearing capacity of less than ~~4500~~ 1000 psf are likely to be present at the site, the allowable bearing capacity shall be determined by a soils investigation.

c. This soil classification may be prone to expansive, collapsible or cyclic properties with changes to soil moisture content.

Amend Section R403.1.1 Minimum size to read as follows:

R403.1.1 Minimum size. The minimum width, W, and thickness, T, for concrete footings shall be in accordance with Tables R403.1(1) through R403.1(3) and Figure R403.1(1 or R403.1.3, as applicable. The footing width shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. Footing projections, P, shall be not less than 2 inches (51 mm) and shall not exceed the thickness of the footing. Footing thickness and projection for fireplaces shall be in accordance with Section R1001.2. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table R401.4.1 Footings for wood foundations shall be in accordance with the details set forth in Section R403.2, and Figures R403.1(2) and R403.1(3).

Exception: For enclosure of existing carport and patio covers, non-bearing wood framed exterior walls within the projection of the existing roof may be supported on an existing, uncracked concrete slab. The minimum slab thickness shall be 3.5 inches and the construction shall comply with the requirements of R317 for protection against decay.

(5) Chapter 5, "Floors," is hereby amended as follows:

Amend Section R502.3.1 to read as follows:

R502.3.1 Sleeping areas and attic joists. Table R502.3.1(2) shall be used to determine the maximum allowable span of floor joists that support sleeping areas and *attics* that are accessed by means of a fixed stairway in accordance with Section R311.7 provided that the design live load does not exceed 40 pounds per square foot (1.92 k Pa) and the design dead load does not exceed 20 pounds per square foot (0.96 kPa). The allowable span of ceiling joists that support *attics* used for limited storage or no storage shall be determined in accordance with Section R802.4.

(6) Chapter 6, "Wall Construction," is hereby amended as follows:

~~Amend Section R602.3, "Design and construction" by amending Table R602.3(1) as follows:~~

~~Braced Wall Line Spacing^b (feet) — Method LIB~~

Amend Section R606.12 "Seismic requirements" as follows:

R606.12 Seismic requirements.

All new masonry elements shall meet the minimum reinforcing requirements of R606.12.2.2.3, R606.12.2.3.2 and R606.12.2.3.3. In addition, The seismic requirements of this section shall apply to the design of masonry and the construction of masonry building elements located Seismic Design Category D0, D1, or D2. Townhouses in

Seismic Design Category C shall comply with the requirements of Section R606.12.2. These requirements shall not apply to glass unit masonry conforming to Section R610, anchored masonry veneer conforming to Section R703.8 or adhered masonry veneer conforming to Section R703.12.

(7) Chapter 11, "Energy Efficiency," is hereby amended as follows:

Amend Section N1101.15 RESNET Testing & Inspection Protocol to read as follows:

N1101.15 RESNET Testing & Inspection Protocol. The residential Energy Services Network (RESNET) Mortgage Industry National Home Energy Rating System Standards Protocol for third party testing and inspections, shall be deemed to meet the requirements of sections N1102.4.1.1, N1102.4.1.2 and N1103.3.2, and shall meet the following conditions:

1. Third Party Testing and Inspections shall be completed by RESNET certified Raters or Rating Field Inspectors and shall be subject to RESNET Quality Assurance Field Review procedures.
2. Sampling in accordance with Chapter 6 of the RESNET Standards shall be performed by Raters or Rating Field Inspectors working under a RESNET Accredited Sampling Provider.
3. Third Party Testing is required for the following items:
 - a. N1102.4.1.1 – Building Envelope – Thermal and Air Barrier Checklist.
 - b. N1102.4.1.2 – Testing – Air Leakage Rate.
 - c. N1103.3.2 – Sealing – Duct Tightness.
4. The other requirements identified as "mandatory" in Chapter 11 shall be met.
5. Alternate testing and inspection programs and protocols shall be allowed when approved by the Code Official.

Amend N1103.3.1 (R403.3.1) as follows:

N1103.3.1 (R403.3.1) Insulation (Prescriptive). Supply and return ducts in attics shall be insulated to a minimum of R-8 where 3 inches (76.2 mm) in diameter and greater and R-6 where less than 3 inches (76.2 mm) in diameter. Supply and return ducts in other portions of the building shall be insulated to a minimum of R-6 where 3 inches (76.2 mm) in diameter or greater and R-4.2 where less than 3 inches (76.2 mm) in diameter.

Exceptions:

1. Ducts or portions thereof located completely inside the building thermal envelope.

2. Supply and return ducts may be insulated to a minimum of R-6 when one or more of the following conditions are met:

- 2.1. Minimum SEER rating of space heating/cooling system is increased to 16.
- 2.2. Maximum U-factor is decreased to 0.30 for all fenestration products and maximum SHGC is decreased to 0.22 for all fenestration products.
- 2.3. Wall cavity insulation minimum R-value is increased to R-19.
- 2.4. Residential buildings that meet section R102.1.1 or R405 of the 2018~~5~~ International Energy Conservation Code.

Amend N1106.4(R406.4) “ERI-based compliance” as follows:

**TABLE N1106.4 (R406.4)
MAXIMUM ENERGY RATING INDEX**

CLIMATE ZONE	ENERGY RATING INDEX ^a
1	52 <u>57</u>
2	59 ¹ <u>57</u>
3	51 <u>57</u>
4	54 <u>62</u>
5	55 <u>61</u>
6	54 <u>61</u>
<u>7</u>	53 <u>58</u>
<u>8</u>	53 <u>58</u>

¹Energy generated from on-site renewable energy shall not be included in the calculation of the Energy Rating Index value.

a. Where on-site renewable energy is included for compliance using the ERI analysis of Section N1106.4, the building shall meet the mandatory requirements of Section N1106.2, and the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table N1102.1.2 or Table N1102.1.4.

(8) Chapter 13, “General Mechanical System Requirements”, is hereby amended as follows:

Add a new section as follows:

Amend Section M1307.7 Liquefied Petroleum Appliances to read as follows:

M1307.7 Liquefied Petroleum Appliances. LPG *appliances* shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

(9) Chapter 24, “Fuel Gas”, is hereby amended to read as follows:

Add a new paragraph to G2406.2 Prohibited locations, by adding exception number 7:

- 4= 7. Liquefied Petroleum Appliances. LPG appliances shall not be installed in an attic, pit or other location that would cause a ponding or retention of gas.

Amend Section G2415.12 by replacing the first paragraph with the following:

G2415.12 (404.12) Minimum burial depth. Underground piping systems shall be installed a minimum depth of 12 inches (305 mm) below grade for metal piping and 18 inches (457mm) for plastic piping.

Amend Section G2415.12 by deleting subparagraph G2415.12.1 in its entirety.

- (10) Chapter 39, "Power and Lighting Distribution", is hereby amended to read as follows:

Amend by adding a new section E3901.9 "Basements, garages and accessory buildings" as follows:

E3901.9 Basements, garages and accessory buildings.

Not less than one receptacle outlet, in addition to any provided for specific equipment, shall be installed in each separate unfinished portion of a basement; in each vehicle bay at not less than (18) inches (457 mm) and not more than 5.5 feet (1676 mm) above the floor in attached garages; in each vehicle bay at not less than (18) inches (457 mm) and not more than 5.5 feet (1676 mm) above the floor in detached garages that are provided with electric power and in accessory buildings that are provided with electric power. [210.52(G)(1), (2), and (3)]

Amend by adding a new section E3902.14.1 "Indoor damp locations" as follows:

E3902.14.1 Indoor damp locations.

125-volt, single-phase, 15 and 20 ampere receptacles installed in indoor damp locations shall have ground-fault circuit-interrupter protection for personnel.

Amend Section E3908.8 "Types of equipment grounding conductors" to read as follows:

E3908.8 Types of equipment grounding conductors. The equipment grounding conductor run with or enclosing the circuit conductors shall be one or more or a combination of the following:

- (1) A copper, aluminum, or copper-clad aluminum conductor. This conductor shall be solid or stranded; insulated, covered, or bare; and in the form of a wire or a busbar of any shape. [250.118(1)]
- (2) Rigid metal conduit. [250.118(2)]
- (3) Intermediate metal conduit. [250.118(3)]
- (4) Electrical metallic tubing with an additional equipment grounding conductor sized in accordance with Table E3908.12. [250.118(4)]
- (5) Armor of Type AC cable in accordance with Section E3908.4. [250.118(8)] ~~Listed flexible metal conduit meeting all the following conditions:~~
 - a. ~~The conduit is terminated in listed fittings.~~

- b. ~~The circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.~~
 - c. ~~The combined length of flexible metal conduit and flexible metallic tubing and liquid tight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).~~
 - d. ~~If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.~~
- (6) Type MC cable that provides an effective ground path in accordance with one or more of the following: ~~Listed liquid tight flexible metal conduit meeting all the following conditions:~~
- 6.1. It contains an insulated or uninsulated equipment grounding conductor in compliance with Item 1 of this section.
 - 6.2. The combined metallic sheath and uninsulated equipment grounding/bonding conductor of interlocked metal tape-type MC cable that is listed and identified as an equipment grounding conductor.
 - 6.3. The metallic sheath or the combined metallic sheath and equipment grounding conductors of the smooth or corrugated tube-type MC cable that is listed and identified as an equipment grounding conductor. [250.118(10)]
- a. ~~The conduit is terminated in listed fittings.~~
 - b. ~~For metric designators 12 through 16 (trade sizes 3/8 through 1/2), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.~~
 - c. ~~For metric designators 21 through 35 (trade sizes 3/4 through 1-1/4), the circuit conductors contained in the conduit are protected by overcurrent devices rated not more than 60 amperes and there is no flexible metal conduit, flexible metallic tubing, or liquid tight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes 3/8 through 1/2) in the ground-fault current path.~~
 - d. ~~The combined length of flexible metal conduit and flexible metallic tubing and liquid tight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).~~
 - e. ~~If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.~~
- (7) Other electrically continuous metal raceways and auxiliary gutters. [250.118(13)]
Flexible metallic tubing where the tubing is terminated in listed fittings and meeting the following conditions:
- a. ~~The circuit conductors contained in the tubing are protected by overcurrent devices rated at 20 amperes or less.~~
 - b. ~~The combined length of flexible metal conduit and flexible metallic tubing and liquid tight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).~~

(8) Surface metal raceways listed for grounding. [250.118(14)] ~~Armor of Type AG cable as provided in 320.108.~~

(11) Appendix J to the International Residential Code, "Existing Buildings and Structures", is hereby amended to read as follows:

Amend Section AJ102.1 General to read as follows:

AJ102.1 General. Regardless of the category of work being performed, the work shall not cause the structure to become unsafe or adversely affect the performance of the building; shall not cause an existing electrical, mechanical or plumbing system to become unsafe, hazardous, insanitary or overloaded; and unless expressly permitted by these provisions, shall not make the building any less conforming to this code or to any previously approved alternative arrangements than it was before the work was undertaken.

Amend Section AJ102.1.1 Historic Buildings to read as follows:

AJ102.1.1 Historic Buildings. The provisions of this code relating to the construction, repair, alteration, addition, restoration and movement of structures, and change of occupancy shall not be mandatory for historic buildings where such buildings are judged by the building official to not constitute a distinct life safety issue. Historic Buildings include any building or structure that is listed or preliminarily determined to be eligible for listing in the National Register of Historic Places; or determined by the Secretary of the U.S. Department of Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined to qualify as an historic district; or designated as historic under a state or local historic preservation program that is approved by the Department of Interior.

Amend Section AJ401.2 Door and window dimensions to read as follows:

AJ401.2 Door and window dimensions. Minor reductions in the clear opening dimensions of replacement doors and windows that result from the use of different materials shall be allowed, whether or not they are permitted by this code.

Exception: Emergency escape and rescue openings.

If existing clear opening dimensions exceed the light and ventilation requirements of section R303 and for emergency escape and rescue openings in Section 301, the reduction in dimensions shall not make the windows non-compliant with these sections.

Amend Section AJ501.5.2 Electric service replacement or upgrade to read as follows:

AJ501.5.2 Electrical service replacement or upgrade. Service to the one-family dwelling unit shall be a minimum of 100 amperes, three-wire capacity and service equipment shall be dead front having no live parts exposed whereby accidental contact could be made.

Exception: Existing service of 60 amperes, three-wire capacity, and feeders of 30 ampere or larger two or three-wire capacity shall be accepted if adequate for the electrical load being served.

(12) Appendix Q to the International Residential Code, "Tiny Houses", is hereby amended to read as follows:

Appendix Q, Section AQ102 "Definitions" is amended as follows:

TINY HOUSE. A dwelling that is no more than 400 square feet (37m²) and no less than 200 square feet (18.58m²) or less in floor area excluding lofts.