

# ***Analysis of Changes for the 5<sup>th</sup> Edition (2014) of the Florida Codes***

## ***Changes to the Florida Building Code, Residential***

This *Analysis of Changes for the 5<sup>th</sup> Edition (2014) of the Florida Codes* is intended to provide a comprehensive comparison of the provisions in the *2010 Florida Building Code, Residential* (FBCR) and the *5<sup>th</sup> Edition (2014) of the Florida Building Code, Residential*. The *2009 International Residential Code* was the base code for the 2010 FBCR. The *2012 International Residential Code* is the base code for the 5<sup>th</sup> Edition (2014) of the FBCR. As a result of changing the base code and Florida-specific amendments, certain provisions and criteria of the code have changed. This *Analysis* will serve a useful tool to facilitate the transition to the new code.

This *Analysis* is arranged so that comparable provisions in the two codes can be easily located. The left two columns contain section numbers and a brief overview of the corresponding requirements from the 2010 FBCR. The next two columns contain section numbers and a brief overview of the corresponding requirements in the 5<sup>th</sup> Edition (2014) of the FBCR. The far right column contains a brief analysis or comment on the differences between the provisions.

This *Analysis* is not intended to replace or interpret the provisions contained in either the 2010 FBCR or the 5<sup>th</sup> Edition (2014) of the FBCR. This information simply points out the differences. The *Analysis* is not designed to be used without the aid of the representative code books, as all the details pertaining to a specific section may or may not be provided. However, this *Analysis* will provide an easy means for identifying differences in the two codes, as well as enabling the user to locate issue specific provisions in the 5<sup>th</sup> Edition (2014) of the FBCR by means of a numbered section cross reference.

This *Analysis* provides a cross-reference for the majority of the sections that changed in the 5<sup>th</sup> Edition (2014) of the FBCR. In some cases, sections were grouped together due to substantial differences. This grouping enables the extent of the differences to be more readily identified.

Notable changes deemed to be the most significant or to have the greatest impact have been highlighted in **yellow**.

**Note:** Seismic loading and snow loading provisions in the code are no longer reserved (deleted) in the 5<sup>th</sup> Edition (2014) of the FBCR, even though they do not apply in the State of Florida. While they are technically new sections and provisions to the Florida Codes, they are not shown here in this *Analysis* because they do not apply to construction in the State of Florida.

| 2010 FBCR                                  |   | 5 <sup>th</sup> Edition of the FBCR |  |   |
|--|---|-------------------------------------|--|---|
| Section                                    | Requirement   | Section                             | Requirement  | Analysis  |
| <b>Chapter 1: Scope and Administration</b> |   |                                     |  |   |
| R101.2                                     | Scope   | R101.2                              | Scope  | New exception permits small bed and breakfasts to be constructed in accordance with the FBCR. Applies to owner-occupied houses with five or fewer guestrooms. Exception 1 revised to require fire suppression for live/work units in accordance with Section P2904. |
| <b>Chapter 2: Definitions</b>              |   |                                     |  |   |
| R202                                       | Definitions: Awning                                   | -                                   | -  | Definition deleted.   |
| R202                                       | Definitions: Balloon-frame construction               | -                                   | -  | Definition deleted.   |
| R202                                       | Definitions: Basement                                 | R202                                | Definitions: Basement                              | Definition has been revised to be consistent with the FBCB. The phrase “partly or completely below grade” has been changed to “not a story above grade plane”.  |
| R202                                       | Definitions: Building integrated photovoltaic roofing | -                                   | -  | Definition deleted. See “Photovoltaic modules/shingles”.  |
| R202                                       | Definitions: Canopy                                   | -                                   | -  | Definition deleted.   |
| R202                                       | Definitions: Circular stairs                          | -                                   | -  | Definition deleted.   |
| R202                                       | Definitions: Combination waste and vent system        | R202                                | Definitions: Combination waste and vent system     | Revised to add lavatories to combination waste and vent systems.  |
| R202                                       | Definitions: Conditioned space                        | R202                                | Definitions: Conditioned space                     | Revised to remove the reference to the FBCEC and provide specific requirements for what constitutes a conditioned space.  |
| -  | -   | R202                                | Definitions: Exterior wall covering                | New definition of exterior wall covering added from the FBCB.   |
| R202                                       | Definitions: Flame spread index                       | R202                                | Definitions: Flame spread index                    | Revised to add UL 723 as an option for determining the flame spread index of materials.   |
| R202                                       | Definitions: Floodplain management ordinance          | R202                                | Definitions: Local floodplain management ordinance | Definition revised to add the word “local”.   |
| R202                                       | Definitions: Framework                                | -                                   | -  | Definition deleted.   |
| -  | -   | R202                                | Definitions: Guest room                            | New definition of guest room added applying to room or rooms used or intended to be used by guests for living or sleeping purposes.   |

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| -    | -                                    | R202 | Definitions: Gray water                                      | New definition of gray water added to apply to gray water gray water recycling systems.   |
| R202 | Definitions: Heating                 | -    | -  | Definition deleted.   |
| -    | -                                    | R202 | Definitions: Local exhaust                                   | New definition of local exhaust applicable to a system using one or more fans to exhaust air from a specific room or rooms.               |
| -    | -                                    | R202 | Definitions: Lodging house                                   | New definition added applicable to dwellings occupied as a single-family unit where rent is paid for guest rooms.                         |
| R202 | Definitions: Openings                | -    | -  | Definition deleted.   |
| -    | -                                    | R202 | Definitions: Pan flashing                                    | New definition applicable to flashing at the base of an opening.  |
| -    | -                                    | R202 | Definitions: Performance category                            | New definition applicable to identification requirements for wood structural panels consistent with DOC PS1 and DOC PS2.                  |
| R202 | Definitions: Permanent label         | -    | -  | Definition deleted.   |
| -    | -                                    | R202 | Definitions: Photovoltaic modules/shingles                   | New definition applicable to roof coverings composed of flat-plate photovoltaic modules fabricated into shingles.                         |
| R202 | Definitions: Plans                   | -    | -  | Definition deleted.   |
| R202 | Definitions: Plumbing fixture        | R202 | Definitions: Plumbing fixture                                | Definition revised for clarity and to update the language.  |
| R202 | Definitions: Riser                   | R202 | Definitions: Riser   | Definition revised to clarify that a riser is also a vertical component of a step or stair.   |
| -    | -                                    | R202 | Definitions: Site built single-family residential structures | New definition of site built single-family residential structure.   |
| R202 | Definitions: Smoke-developed index   | R202 | Definitions: Smoke-developed index                           | Revised to add UL 723 as an option for determining the smoke-developed index of materials.  |
| R202 | Definitions: Spiral stairs           | -    | -  | Definition deleted.   |
| R202 | Definitions: Story above grade plane | R202 | Definitions: Story above grade plane                         | Revised to be consistent with the FBCB. Item 2 has been deleted.  |
| R202 | Definitions: Street                  | -    | -  | Definition deleted.   |
| -    | -                                    | R202 | Definitions: Structural composite lumber                     | New definition of structural composite lumber.  |
| -    | -                                    | R202 | Definitions: Third-party certification agency                | New definition intended to provide the means by which compliance with the code referenced product standards is demonstrated and verified. |

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| -                                   | -   | R202            | Definitions: Third-party certified  | New definition intended to provide the means by which compliance with the code referenced product standards is demonstrated and verified.  |
| -                                   | -   | R202            | Definitions: Third-party tested   | New definition intended to provide the means by which compliance with the code referenced product standards is demonstrated and verified.  |
| R202                                | Definitions: Vapor permeable membrane   | R202            | Definitions: Vapor permeable membrane   | Definition revised from being material specific to an adjective.   |
| R202                                | Definitions: Vehicular access door  | -               | -   | Definition deleted.  |
| -                                   | -   | R202            | Definitions: Whole-house mechanical ventilation system  | New definition for whole house ventilation.  |
| <b>Chapter 3: Building Planning</b> |   |                 |   |  |
| Table R301.2(4)                     | Garage Door Loads for a Building with a Mean Roof Height of 30 Feet Located in Exposure B | Table R301.2(4) | Nominal (ASD) Garage Door Loads for a Building with a mean Roof Height of 30 Feet Located in Exposure B | Table has been updated for consistency with the strength design-level wind speeds, $V_{ult}$ , shown in Figure R301.2(4)A. Loads in table are still shown as nominal or ASD loads.                               |
| R301.2.1                            | Wind limitations  | R301.2.1        | Wind design criteria  | Section reformatted for clarity. New language requires a continuous load path to transmit the applicable forces from the roof assembly to the foundation.  |
| R301.2.1.1                          | Design criteria   | R301.2.1.1      | Wind limitations  | Section reformatted for clarity.   |
| R301.2.1.1.1                        | Design  | R301.2.1.1.1    | Aluminum structure design   | Revised to clarify that screen enclosures are permitted to be design in accordance with Section 2002 of the FBCB.  |
| R301.2.1.1.3                        | Wind loads on rooftop structures and equipment  | -               | -   | Section deleted  |
| ;                                   | ;   | R301.2.1.1.3    | Alternative design method for screen enclosures   | New section pertaining to an alternative method for designing screen enclosures that relies on the screening material to be removed, retracted, opened, or cut to reduce the anticipated loads on the structure. |
| R301.2.1.2                          | Protection of openings  | R301.2.1.2      | Protection of openings  | “Windows” has been changed to read “glazed openings”. New language refers to Section R301.2.1.2.1 for establishing wind zones for the applicable missile types in  |

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|               |  |              |   | ASTM E 1996. Item 3, which required ventilation openings in an exterior wall into an attic space to be protected in wind-borne debris regions has been deleted. Language requiring impact resistant coverings to be tested at 1.5 times the design pressure has been relocated to Section R615.1.  |
| -             | -  | R301.2.1.5   | Topographic wind effects                    | New section addressing topographic effects such as certain hills, escarpments, and 3 dimensional ridges that cause a wind "speed-up" effect. Requires compliance with ASCE 7 for such features or the simplified topographic wind speed up method in Section R301.2.1.5.1.   |
| R301.2.4      | Floodplain construction                            | R301.2.4     | Floodplain construction                     | Relocates the exception for floodways to the body of the section for clarification. No technical change.   |
| R301.2.4.1    | Alternate provisions (flood hazard areas)          | R301.2.4.1   | Alternate provisions (flood hazard areas)   | Revised to clarify the option of using ASCE 24.  |
| Figure R301.3 | Determining Number of Stories Above the Foundation | -            | -   | Figure deleted.  |
| 301.3         | Story height                                       | 301.3        | Story height                                | Revised to clarify that the wind provisions in the FBCR are limited to the story heights specified in this section.  |
| Table R301.5  | Minimum Uniformly Distributed Live Loads           | Table R301.5 | Minimum Uniformly Distributed Live Loads    | Revised to clarify the applicable required live loads in attics.   |
| R301.7        | Allowable Deflections of Structural Members        | R301.7       | Allowable Deflections of Structural Members | Revised to clarify that the deflection limits apply to wind loads as well as live loads.   |
| R302.1        | Exterior walls                                     | R302.1       | Exterior walls                              | Section revised to specify exterior wall minimum fire-resistance ratings based on whether the building is sprinklered in accordance with Section P2904. To use the minimum fire-resistance ratings based on fire separation distance permitted by the 2010 FBCR, the building would have to be sprinklered in accordance with Section P2904. New table requires greater fire separation distances for the same fire-resistance ratings in buildings not equipped with an automatic sprinkler system in |

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|              |   |                 |   | accordance with Section P2904. Exception for buildings located on zero lot lines has been deleted.   |
| -            | -   | Table R302.1(1) | Exterior walls  | New table for unsprinklered buildings that prescribes greater fire separation distances for the same minimum fire-resistance ratings permitted in the 2010 FBCR.   |
| Table R302.1 | Exterior Walls  | Table R302.1    | Exterior walls – Dwellings with Fire Sprinklers   | Revised to require the building to be sprinklered in accordance with Section P2904 to use the minimum fire-resistance ratings and fire separation distances permitted by the 2010 FBCR.                  |
| R302.2.2     | Parapets  | R302.2.2        | Parapets  | The exception for a parapet in Item 2 has been revised to require no openings or penetrations in the roof within 4 feet of the common walls. Achieves consistency with the FBCB.                         |
| R302.5.1     | Opening protection (between the garage and the residence)                                   | R302.5.1        | Opening protection (between the garage and the residence)                                   | Revised to require doors between the garage and residence to be equipped with self-closing devices.  |
| R302.9.4     | Alternate test method (flame spread index and smoke-developed index for walls and ceilings) | R302.9.4        | Alternate test method (flame spread index and smoke-developed index for walls and ceilings) | Revised to add maximum heat release of not more than 800 kw. Textile wall and ceiling materials are permitted to be tested in accordance with NFPA 286. Reorganized for clarity.                         |
| R302.10.1    | Insulation flame spread index and smoke-developed index)                                    | R302.10.1       | Insulation flame spread index and smoke-developed index)                                    | New exception requiring foam plastic insulation to comply with Section R316.   |
| R302.10.4    | Exposed attic insulation  | R302.10.4       | Exposed attic insulation  | Language requiring exposed foam plastic insulation materials to comply with Section R316 has been deleted. Change to Section R302.10.1 requires all foam plastic insulation to comply with Section R316. |
| R302.11.1    | Fireblocking materials  | R302.11.1       | Fireblocking materials  | Revised to permit cellulose insulation as a fireblocking material.   |
| R303.1       | Habitable rooms   | R303.1          | Habitable rooms   | Exception 1 has been revised to refer to Section M1507 for whole-house mechanical ventilation systems which are now covered in that section.   |
| R303.3       | Bathrooms   | R303.3          | Bathrooms   | Exception for glazed areas has been revised to refer to Section M1507.4 for ventilation  |

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|          |                                      |          |                                       | rates.  |
| -        | -                                    | R303.4   | Mechanical ventilation                | New section requiring whole-house mechanical ventilation in accordance with Section 1507.3 where the air infiltration rate is less than 5 air changes per hour.   |
| R303.4.1 | Intake openings                      | R303.5.1 | Intake openings                       | Revised to require intake openings to be located a minimum of 3 feet below the contaminant source where the source of contaminant is located within 10 feet of an intake opening.   |
| R308.3.1 | Impact test (glazing)                | R308.3.1 | Impact test (glazing)                 | Revised to use the higher test criteria as the default value with the referenced tables relaxing the requirements for specific applications.  |
| R308.4   | Hazardous locations (glazing)        | R308.4   | Hazardous locations (glazing)         | Entire section reorganized for clarity and usability of the code.   |
| R308.6.9 | Testing and labeling of skylights    | R308.6.9 | Testing and labeling of skylights     | Label requirements have been revised to only require the label to include the manufacturer, performance grade rating and approved inspection agency.  |
| R309.4   | Automatic garage door openers        | R309.4   | Automatic garage door openers         | Revised to require automatic garage door openers to also be labeled in accordance with UL 325.  |
| -        | -                                    | R309.5   | Fire sprinklers                       | New section requiring garages to be protected by fire sprinklers where the garage wall has been design based on Table R302.1(2) (fire separation distance and minimum fire-resistance ratings for exterior walls of sprinklered buildings). |
| R310.1   | Emergency escape and rescue required | R310.1   | Emergency escape and rescue required  | Revised to require the sill height of emergency escape and rescue openings to be measure from the finished floor to the bottom of the clear opening.  |
| -        | -                                    | R310.2.2 | Drainage (window wells)               | New section requiring proper drainage of window wells.  |
| R311.3   | Landings at doors                    | R311.3   | Floors and landings at exterior doors | Exception permitting the landing to be omitted for doors with a stairway of two or fewer risers on the exterior side of the door has been deleted. New exception permits the landing to be less than 36 inches in the                       |

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|            |   |              |   | direction of travel for exterior balconies less than 60 square feet and only accessible from a door. Landing slope is now limited to 2 percent.   |
| R311.3.1   | Floor elevations at the required egress doors | R311.3.1     | Floor elevations at the required egress doors | Revised to clarify that the threshold height is to be measured to the finished floor or landing and that it is the exterior floor or landing that is permitted to be up to 7 ¾ inches below the top of the threshold when other criteria are met. |
| R311.3.2   | Floor elevations for other exterior doors     | R311.3.2     | Floor elevations for other exterior doors     | Exception revised to remove the requirement that the door does not swing over the stairway.   |
| -          | -   | R311.7.3     | Vertical rise (stairs)                        | New section limiting the vertical rise of a flight of stairs to 12 feet. The language exists as an exception to Section R311.7.5 Landings for stairways in the 2010 FBCR.   |
| R311.7.4.1 | Riser height                                  | R311.7.5.1   | Risers  | Language pertaining to risers in Section R311.7.4.3 has been relocated to Section R311.7.5.1 for clarity  |
| -          | -   | R311.7.5.2.1 | Winder treads                                 | Provisions for winder treads previously located within Section R311.7.4.2 have been relocated to a new stand alone section.   |
| R311.7.4.3 | Profile                                       | R311.7.5.3   | Nosings                                       | Reference to "leading edge or the tread" has been changed to "nosing".  |
| R311.7.5   | Landings for stairways                        | R311.7.6     | Landings for stairways                        | New criteria added for landings of shapes other than square or rectangular.   |
| R311.7.9.3 | Circular stairways                            | -            | -   | Section deleted.  |
| R314.1     | Smoke detection and notification              | R314.1       | Smoke detection and notification              | Revised to require smoke alarms to be labeled in accordance with UL 217.  |
| R314.3     | Location                                      | R314.3       | Location                                      | Interconnection requirements have been relocated to a new stand alone Section R314.5.   |
| R314.4     | Power source                                  | R314.4       | Power source                                  | Interconnection requirements have been relocated to a new stand alone Section R314.5. New exception was added to allow the use of 10-year non-removable and non-replaceable batteries lieu of retrofitting hard wired smoke alarms.               |

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| -         | -   | R314.5    | Interconnection   | New section pertaining to interconnection of smoke alarms relocated from Section R314.3 and R314.4. Exception has been revised to remove the physical interconnection requirement of all alarms where listed wireless alarms are installed and all alarms sound upon activation.  |
| R316.4    | Thermal barrier (foam plastic)  | R316.4    | Thermal barrier (foam plastic)  | Prescriptive testing requirements for the thermal barrier separating foam plastic have been deleted and replaced with a reference to NFPA 275   |
| R316.5.3  | Attics  | R316.5.3  | Attics  | Revised to add 1.5 inch thick cellulose loose-fill insulation as another acceptable material for use as an ignition barrier.  |
| R316.5.9  | Interior trim   | R316.5.9  | Interior trim   | Revised to add UL 723 as an option for determining the flame spread index.  |
| R316.5.11 | Sill plates and headers   | R316.5.11 | Sill plates and headers   | Revised to add UL 723 as an option for determining the flame spread and smoke-developed index.  |
| -         | -   | R316.5.13 | Floors  | New section permitting foam plastic to be used in products used for walking surfaces such as SIPs. The thermal barrier can be omitted when on the walking surface when the foam plastic is covered by a minimum ½ inch thick wood structural panel. The thermal barrier is required on the underside of such a surface when the underside of the floor system is exposed to the interior of the building. |
| R317.3    | Fasteners and connectors in contact with preservative-treated and fire-retardant-treated wood | R317.3    | Fasteners and connectors in contact with preservative-treated and fire-retardant-treated wood | Revised to clarify that nuts and washers are also include in the scope of this section.   |
| R317.3.1  | Fasteners for preservative-treated wood   | R317.3.1  | Fasteners for preservative-treated wood   | Revised to clarify that nuts and washers are also include in the scope of this section. New exception added for plain carbon steel fasteners in SBX/DOT and zinc borate preservative-treated wood in interior, dry environments.  |
| R317.3.2  | Fastenings for wood   | R317.3.2  | Fastenings for wood foundations.  | Revised to clarify that nuts and washers are  |

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|                               | foundations.   |            |  | also include in the scope of this section.   |
| R317.3.3                      | Fasteners for fire-retardant-treated wood used in exterior applications or wet or damp locations | R317.3.3   | Fasteners for fire-retardant-treated wood used in exterior applications or wet or damp locations | Revised to clarify that nuts and washers are also include in the scope of this section.  |
| R317.3.4                      | Fasteners for fire-retardant-treated wood used in interior applications                          | R317.3.4   | Fasteners for fire-retardant-treated wood used in interior applications                          | Revised to clarify that nuts and washers are also include in the scope of this section.  |
| -                             | -  | R317.4.1   | Labeling (wood/plastic composites)   | New section requiring that deck boards and stair treads bear a label indicating compliance with ASTM D 7032. Requires handrails and guardrails, or their packaging, to bear a label indicating compliance with ASTM D 7032.  |
| R322.3.2                      | Elevation requirements (flood hazard)  | R322.3.2   | Elevation requirements (flood hazard)  | Revised to clarify that the use of mat or raft foundations that are above eroded grade is not consistent with the NFIP regarding foundations in V zones.   |
| R322.3.3                      | Foundations  | R322.3.3   | Foundations  | Revised to clarify that the use of mat or raft foundations that are above eroded grade is not consistent with the NFIP regarding foundations in V zones. New language added requiring that the space below the elevated building be either free of obstruction or, in enclosed with walls, meeting the requirements of Section R322.3.4. |
| <b>Chapter 4: Foundations</b> |  |            |  |  |
| 401.1                         | Application  | 401.1      | Application  | "Areas prone to flooding" has been changed to "flood hazard areas". Exception for wood foundations has been reformatted.   |
| R403.1.4                      | Minimum depth  | R403.1.4   | Minimum depth  | Section revised reference new section pertaining to frost protection.  |
| -                             | -  | R403.1.4.1 | Frost protection   | New section applicable to frost protection of foundations.   |
| -                             | -  | R403.1.6   | Foundation anchorage   | New section providing minimum anchorage requirements for sill plates and walls supported directly on continuous foundations.   |
| -                             | -  | R403.3     | Frost-protected shallow  | New section providing prescriptive   |

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|                |  | Table R403.3(1)<br>Table R403.3(2)<br>Table R403.3(3)<br>Table R403.3(4)<br>Figure R403.3(1)<br>Figure R403.3(2) | foundations                       | requirements for frost-protection of shallow foundations.   |
| R403.4.1       | Crushed stone footings   | R403.4.1   | Crushed stone footings            | Section revised to require crushed stone footings to be consolidated using a vibratory plate in a maximum of 8-inch lifts.  |
| R404.1.1.1     | Masonry foundation walls   | R404.1.1.1   | Masonry foundation walls          | Language prohibiting the use of rubble stone masonry foundation walls where the design wind speed, $V_{ult}$ , is greater than 115 mph has been deleted.          |
| R404.1.1.1.1   | Bond beams, footing dowels and foundation wall reinforcing, wood or steel light-framed first story walls | -  | -                                 | Section deleted.  |
| R404.1.1.1.2   | First story walls of wood or steel light-frame   | -  | -                                 | Section deleted.  |
| R404.1.2.3.6.1 | Stay-in-place forms  | R404.1.2.3.6.1   | Stay-in-place forms               | Revised to required flat ICF wall systems to conform to ASTM E 2634.  |
| -              | -  | R404.1.9   | Isolated masonry piers            | New section providing prescriptive criteria for isolated masonry piers used as foundations for raised wood floor systems.   |
| R404.1.5.3     | Pier and curtain wall foundations  | R404.1.5.3   | Pier and curtain wall foundations | Language prohibiting pier and curtain wall foundations where the design wind speed, $V_{ult}$ , is greater than 115 mph has been deleted.                         |
| R404.2.7       | Anchorage of wood and steel light-frame wall systems   | -  | -                                 | Section deleted.  |
| R405.1         | Concrete or masonry foundations  | R405.1   | Concrete or masonry foundations   | Section revised to require perforated drains to be surrounded with an approved filter membrane or for a filter membrane is required to cover the washed gravel or |

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|                                     |   |               |   | crushed rock covering the drain.  |
| R408.1                              | Ventilation                                       | R408.1        | Ventilation                                       | Exception permitting crawl spaces designed by a Florida-licensed engineer or architect to eliminate the venting has been deleted.   |
| R408.3                              | Unvented crawl space                              | R408.3        | Unvented crawl space                              | Revised to allow the option of attaching and sealing the vapor retarder to the insulation.  |
| R408.7                              | Flood resistance                                  | R408.7        | Flood resistance                                  | Revised to change Areas prone to flooding” to “flood hazard areas”.   |
| <b>Chapter 5: Floors</b>            |   |               |   |   |
| -                                   | -   | <b>R501.3</b> | <b>Fire protection of floors</b>                  | <b>New section requiring floors to be covered with minimum ½ inch gypsum board or 5/8 inch wood structural panel on the underside. Exceptions provided for sprinklers and certain crawl spaces.</b> |
| R502.1.1.3                          | End-jointed lumber                                | R502.1.3      | End-jointed lumber                                | Revised to require end-jointed lumber used in assemblies requiring a fire resistance rating to have “Heat Resistant Adhesive” or “HRA” included in its grade mark.                                  |
| R502.1.7                            | Exterior wood/plastic composite deck boards       | -             | -   | Section deleted. Deck requirements have been relocated to Section 507.  |
| -                                   | -   | R502.1.7      | Structural composite lumber                       | New section referring to ASTM D 5456 for structural capacities of structural composite lumber.  |
| R503.2.1                            | Identification and grade (wood structural panels) | R503.2.1      | Identification and grade (wood structural panels) | Revised to correlate with the updated DOC PS1 and PS2 standards.  |
| R503.2.1.1                          | Subfloor and combined subfloor underlayment       | R503.2.1.1    | Subfloor and combined subfloor underlayment       | Revised to correlate with the updated DOC PS1 and PS2 standards.  |
| R506.1                              | General (concrete floors on ground)               | R506.1        | General (concrete floors on ground)               | Revised to permit the use of ACI 332 to design concrete slab-on-ground.   |
| R506.2.3                            | Vapor retarder                                    | R506.2.3      | Vapor retarder                                    | Revised to permit the vapor retarder to be omitted from all garages.  |
| -                                   | -   | R507          | Decks   | Requirements for decks have been relocated and consolidated into new Section R507   |
| <b>Chapter 6: Wall Construction</b> |   |               |   |   |
| R602.1.1.1                          | End-jointed lumber                                | R602.1.1      | End-jointed lumber                                | Revised to require end-jointed lumber used in assemblies requiring a fire resistance rating to have “Heat Resistant Adhesive” or “HRA” included in its grade mark.                                  |

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| -              | -   | R602.1.4     | Structural composite lumber                       | New section referring to ASTM D 5456 for structural capacities of structural composite lumber.  |
| R604.1         | Identification and grade (wood structural panels) | R604.1       | Identification and grade (wood structural panels) | Revised to add ANSI/APA PRP 210 for wood structural panels.   |
| R606.1         | General (masonry construction)                    | R606.1       | General (masonry construction)                    | Revised to add TMS 403 as an option for masonry construction.   |
| R606.1.1       | Professional registration not required            | R606.1.1     | Professional registration not required            | Revised to add TMS 403 to the scope of this section.  |
| R606.6.1       | Pier cap  | R606.6.1     | Pier cap  | Adds masonry cap blocks as an option for capping hollow piers.  |
| R606.8.1       | Stack bond  | R606.8.1     | Joint reinforcement stack bond                    | Section no longer only applies to unreinforced masonry laid in stack bond. Requires joint reinforcement to be a minimum of 9 gage.  |
| R607.1         | Mortar  | R607.1       | Mortar  | Revised to require mortar for use in masonry construction to be either Type M or S with a $f'_m$ of 1500 psi.   |
| Table R607.1   | Mortar Proportions                                | Table R607.1 | Mortar Proportions                                | Types N and O mortar have been deleted from the table.  |
| R607.3         | Installation of wall ties                         | R607.3       | Installation of wall ties                         | Section reorganized for clarity.  |
| R609.1.1       | Grout   | R609.1.1     | Grout   | Reference to testing in accordance with ASTM C 1019 has been deleted. Language requiring a slump test has been deleted.   |
| Table R609.1.2 | Grout Space Dimensions and Pour Heights           | -            | -   | Table deleted.  |
| R609.1.4       | Grout placement                                   | R609.1.4     | Grout placement                                   | Revised to clarify that all cells containing reinforcement or anchor bolts to be grouted solid. Specifications for grout and grout placement have been relocated to this section. |
| R609.1.5       | Cleanouts   | R609.1.5     | Cleanouts   | Revised to require an opening for cleanouts of sufficient size to permit removal of debris. Minimum opening dimension is 3 inches.  |
| -              | -   | R611.4.4     | Flat ICF wall systems                             | New section requiring flat ICF wall system forms to conform to ASTM E 2634.   |
| R612.2         | Window sills                                      | R312.2       | Window fall protection                            | Provisions for window fall protection have been relocated to Section R312.2   |
| R612.3         | Window opening limiting                           | R312.2.2     | Window opening control devices                    | Prescriptive criteria deleted from the code   |

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|  | devices  |  |  | and replaced with a reference to ASTM F 2090.  |
| R612.6.1   | Comparative analysis label (windows)                       | R612.3.1   | Comparative analysis label (windows)                             | Specific requirements for operable and non-operable windows and doors to achieve a different than the design value have been revised.                          |
| R612.7   | Vehicular access doors                                     | R612.4   | Garage doors   | Garage door provisions consolidated into a single section.   |
| R612.12.1  | Sealants   | -  | -  | Section deleted and relocated to the body of Section R703.8.   |
| R613.2   | Applicability limits (structural insulated panels)         | R613.2   | Applicability limits (structural insulated panels)               | Wind speed limit for using the provisions of Section R613 have been revised from $V_{asd}$ of 130 mph to $V_{asd}$ of 120 mph.                                 |
| Table R613.3.2<br>Table R613.5(1)<br>Table R613.5(2) | Panel properties for wood structural panel facing material | Table R613.3.2<br>Table R613.5(1)<br>Table R613.5(2) | Panel properties for wood structural panel facing material       | Tables have been revised to reflect the facing materials common available in the marketplace.  |
| R616   | Soffit   | -  | -  | Section deleted.   |
| <b>Chapter 7: Wall Covering</b>                      |  |  |  |  |
| -  | -  | R702.7   | Vapor retarders  | New section requiring vapor retarders to be installed on the interior side of frame walls in Zones 5, 6, 7, 8 and Marine 4.                                    |
| -  | -  | R702.7.1   | Class III vapor retarders  | New section permitting the use of Class III vapor retarders where conditions of Table R702.7.1 are met.  |
| -  | -  | R702.7.2   | Material vapor retarder class                                    | New section pertaining to vapor retarder class.  |
| -  | -  | R702.7.3   | Minimum clear air spaces and vented openings for vented cladding | New section prescribing minimum air spaces for vented cladding.  |
| R703.1.3   | Load resistance  | R703.1.3   | Load resistance  | Language requiring manufactured soffits to be labeled has been deleted.  |
| R703.2   | Weather-resistant sheathing paper                          | R703.2   | Water-resistive barrier  | New exception permits the omission of the water-resistive barrier under paperbacked stucco lath when the paper backing is an approved water-resistive barrier. |
| R703.3.3   | Attachment (wood, hardboard, and wood structural panel)    | R703.3.3   | Attachment (wood, hardboard, and wood structural panel siding)   | Prescriptive fastening tables (Tables R703.3.3(1) and R703.3.3(2)) have been   |

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|              | siding)   |              |   | deleted. Attachment is now required in accordance with the WFCM.  |
| R703.3.3.4   | Minimum thickness (wood, hardboard, and wood structural panel siding) | R703.3.3.4   | Minimum thickness (wood, hardboard, and wood structural panel siding) | Prescriptive tables (Tables R703.3.4(1) and R703.3.4(2)) have been deleted. Minimum thicknesses are now required to be in accordance with the WFCM.   |
| Table R703.4 | Weather-resistant Siding Attachment and Minimum Thickness             | Table R703.4 | Weather-resistant Siding Attachment and Minimum Thickness             | Revised to recognize ANSI/APA PRP 210 for wood structural panel siding products. Note g has been revised to clarify that wood or wood structural panel sheathing is used fasteners have to be driven into the studs to achieve sufficient fastener penetration.   |
| -            | -   | R703.6.1     | Lath (exterior plaster)   | Prescriptive requirements for lath and lath attachments have been added.  |
| -            | -   | R703.6.2     | Plaster   | New section providing prescriptive requirements for plastering with Portland cement plaster.  |
| -            | -   | R703.6.2.1   | Weep screeds  | New section providing prescriptive requirements for weep screeds.   |
| R703.6.3     | Water-resistive barrier   | R703.6.3     | Water-resistive barrier   | Provisions completely rewritten. Where cement plaster is applied over wood-based sheathing, a water resistive barrier in accordance with Section R703.2 is required in addition to a water-resistive vapor-permeable barrier with a performance equivalent to two layers of Grade D paper. Each layer is required to be installed independently such that each layer provides a continuous plane. Exception provided for a water-resistive barrier with a water resistance equal to or greater than that of 60-minute Grade D paper or a designed drainage space. |
| R703.6.4     | Pneumatically placed Portland cement plaster                          | -            | -   | Section deleted.  |
| R703.6.5     | Fenestration  | -            | -   | Section deleted.  |
| -            | -   | R703.6.4     | Application   | New section requiring each coat of plaster to be kept in a moist condition for at least 48 hrs prior to the application of the next coat unless the application is installed in   |

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|               |                                   |                  |   | accordance with ASTM C 926.  |
| -             | -                                 | R703.6.5         | Curing  | New section addressing the curing process.   |
| R703.7        | Stone and masonry veneer, general | R703.7           | Stone and masonry veneer, general   | Revised to limit veneers installed over a backing of wood or cold-formed steel to the first story ave grade plan and not exceeding 5 inches in thickness. Exception for one- and two-family dwellings permitting masonry veneer up to 30 feet in height above a noncombustible foundation with an additional 8 feet for gable ends has been deleted. New exception permits heights to be in accordance with Table R703.7(1). |
| Figure R703.7 | Masonry veneer details            | Figure R703.7    | Masonry veneer details  | Figure revised to require that as an alternate to the air space, the space be grouted instead or mortared.   |
| -             | -                                 | Table R703.7(1)  | Stone or Masonry Veneer Limitations and Requirements, Wood or Steel Framing, Seismic Design Categories A, B and C | New table specifying height limits for masonry veneer over wood or steel framing.  |
| R703.7.3.2    | Maximum span                      | R703.7.3.2       | Maximum span  | New limitation added for the allowable span of masonry veneer over an opening. Requires that the height of the masonry veneer above the opening not exceed the requirements in Table R703.7.2.   |
| -             | -                                 | Table R703.7.3.2 | Height of Masonry Veneer Above Openings   | New table providing limitations on the height of masonry veneers above an opening to qualify for the 18 foot 3 inch maximum span.  |
| R703.7.4      | Anchorage                         | R703.7.4         | Anchorage   | Revised to refer to Table R703.7.4 for attachment and air space requirements for masonry veneer.   |
| -             | -                                 | Table R703.7.3.4 | Tie Attachment and Air Space Requirements   | New table specifying minimum tie requirements and maximum and minimum air space requirements based on the backing and tie material for masonry veneers.  |
| R703.4.1      | Size and spacing (veneer ties)    | R703.4.1         | Size and spacing (veneer ties)  | Tie spacing requirements have been revised to match those in TMS 402/ACI 530/ASCE 5.   |
| R703.7.4.2    | Air space                         | -                | -   | Section deleted.   |
| R703.7.4.3    | Mortar or grout fill              | R703.7.4.2       | Grout fill  | Revised to require the air space to be filled  |

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|   |  |             |  | with grout instead of mortar as an alternate to the air space.   |
| R703.8                                      | Flashing   | R703.8      | Flashing   | Revised to require pan flashing at the sill of exterior window and door openings where flashing instructions or details are not provided.  |
| R703.11.2.2                                 | Design wind pressure rating (vinyl siding installed over foam plastic sheathing) | R703.11.2.2 | Design wind pressure rating (vinyl siding installed over foam plastic sheathing) | Section reorganized for clarity. Revised to lower the vinyl siding pressure adjustment to 0.27 (with or without gypsum board on the inside) for ultimate wind speeds greater than 130 mph and less than 140 mph. Where ultimate wind speeds are equal to or greater than 140 mph, the foam sheathing has to be installed over a sheathing material designed and attached to separately resist 100% of the wind load. |
| -   | -  | R703.12.1   | Clearances (adhered masonry veneer)  | New section requiring adhered masonry veneer to be installed a minimum of 4 inches above earth, 2 inches above paved areas, or ½ inch above exterior walking surfaces supported by the same foundation which supports the wall.  |
| -   | -  | R703.12.2   | Flashing at foundation (adhered masonry veneer)                                  | New section specifying flashing requirements for adhered masonry veneer.   |
| R703.13                                     | Metal veneers.   | -           | -  | Section deleted. Subsections R703.13.1, R703.13.2, and R703.13.3 are also deleted.   |
| Table R703.13                               | Minimum Thickness of Weather Coverings   | -           | -  | Table deleted.   |
| R703.14                                     | Weather protection   | -           | -  | Section deleted.   |
| R703.15                                     | Drained assembly wall over mass wall assembly                                    | -           | -  | Section deleted.   |
| R704  | Inspection for termites  | R318.7      | Inspection for termites  | Section relocated.   |
| <b>Chapter 8: Roof-Ceiling Construction</b> |  |             |  |  |
| R802.1.3                                    | End-jointed lumber   | R802.1.2    | End-jointed lumber   | Revised to require end-jointed lumber used in assemblies requiring a fire resistance rating to have "Heat Resistant Adhesive" or "HRA" included in its grade mark.   |
| R802.1.4                                    | Fire-retardant-treated wood  | R802.1.3    | Fire-retardant-treated wood  | Revised to permit UL 723 for flame spread index of fire-retardant-treated wood.  |
| -   | -  | R802.1.6    | Structural composite lumber  | New section referring to ASTM D 5456 for   |

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|            |  |              |  | structural capacities of structural composite lumber.   |
| R802.1.8   | Cutting and notching                               | R802.1.8     | Cutting, drilling and notching                     | Revised to add drilling to the scope of the section.  |
| R802.1.8.1 | Sawn lumber  | R802.1.8.1   | Sawn lumber  | Revised to delete specific notching, drilling and cutting limits for sawn lumber and refers to Section R502.1.11.1 which specifies the same requirements. Exception for cantilevered portions of rafters has been relocated to new Section R802.1.8.1.1   |
| -          | -  | R802.1.8.1.1 | Cantilevered portions of rafters                   | New section extracted from the exception to Section R802.1.8.1. Remaining portion of the rafter is permitted to be 3 ½ inches in depth. New Figure R802.1.8.1 depicts the details shown in this section.  |
| -          | -  | R802.1.8.1.2 | Ceiling joist taper cut                            | New section limiting taper cuts at the end of the ceiling joist to not exceed one-fourth the depth of the member. New Figure R802.1.8.1.2 depicts the details shown in this section.  |
| R802.1.9   | Uplift resistance                                  | -            | -  | Section deleted. Tables R802.1.9(1) and R802.1.9(2) also deleted.   |
| R803.2.1   | Identification and grade (wood structural panels)  | R803.2.1     | Identification and grade (wood structural panels)  | Revised to require wood structural panels to be identified for grade, bond classification, and Performance Category.  |
| R803.2.3.1 | Sheathing fastenings (wood structural panel roofs) | R803.2.3.1   | Sheathing fastenings (wood structural panel roofs) | Dimensions of the specified ring shank nail have been revised. Ring diameter has been revised to be a minimum of 0.010 over shank diameter. Wind speeds specified in this section have been updated to ultimate wind speeds.  |
| R806.1     | Ventilation required                               | R806.1       | Ventilation required                               | Language added requiring ventilation openings to open directly to the outside air. Exception permitting unvented attics designed to eliminate the venting has been deleted. New exception permits the omission of venting when determined not necessary by the code official due to atmospheric or climatic conditions. |
| R806.2     | Minimum area                                       | R806.2       | Minimum area                                       | To qualify for the reduced net free   |

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|                                   |                           |          |  | ventilation area, the cross-ventilation requirements have been changed to require at least 40 and not more than 50 percent of the required ventilating area to be located in the upper portion of the attic or rafter space.  |
| -                                 | -                         | R806.4   | Installation and weather protection                    | New section requiring ventilators to be installed in accordance with the manufacturer's installation instructions.  |
| R806.4                            | Unvented attic assemblies | R806.5   | Unvented attic and unvented enclosed rafter assemblies | New Item 4 requires in Climate Zones 5,6,7 and 8 that any air-permeable insulation shall be a Class II vapor retarder, or have a Class III vapor retarder coating in direct contact with the underside of the insulation. Revised to allow unvented roof construction for cathedral ceilings. New Item 5.4 requires preformed insulation board used as the air-impermeable insulation layer, to be sealed at the perimeter of each individual sheet interior surface. |
| <b>Chapter 9: Roof Assemblies</b> |                           |          |  |   |
| R902.1                            | Roof covering materials   | R902.1   | Roof covering materials                                | The term "property line" has been changed to "lot line". New exception added classifying copper sheets installed over combustible decks as Class A roof assemblies. Metal sheets and shingles are now classified as Class A roof assemblies   |
| R903.2.2                          | Crickets and saddles      | R903.2.2 | Crickets and saddles                                   | Revised to clarify that the measurement of the chimney or penetration triggering a cricket or saddle is to be measure perpendicular to the slope. New exception for skylights installed in accordance with Section R308.6 and flashed in accordance with the manufacturer's installation instructions.  |
| R903.3                            | Coping                    | R903.3   | Coping   | Language requiring metal coping to comply with ANSI/SPRI/ES-1 or RAS 111 has been deleted.  |
| R905.2.2                          | Slope (asphalt shingles)  | R905.2.2 | Slope (asphalt shingles)                               | Specific amount and type of underlayment required has been deleted with a reference to underlayment in accordance with Section  |

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|            |  |            |  | R905.2.7.  |
| R905.2.3   | Underlayment                                 | R905.2.3   | Underlayment                                 | ASTM D 4869 Type IV has been added as an underlayment option.  |
| R905.2.5   | Fasteners                                    | R905.2.5   | Fasteners                                    | Exception for preserving the architectural appearance from below has been deleted.   |
| R905.2.1   | Nail component of plastic cap nails          | -          | -  | Section deleted.   |
| R905.2.7   | Underlayment application                     | R905.2.7   | Underlayment application                     | Underlayment requirements have been significantly revised. For roof slopes of 2:12 to less than 4:12, a two layer system is required. For roof slopes of 4:12 and greater, a single layer is permitted but underlayment is required to be ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757 (all are equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced. Self-adhered underlayment complying with ASTM D 1970 is also permitted. |
| R905.4.3   | Underlayment (metal roof shingles)           | R905.4.3   | Underlayment (metal roof shingles)           | Revised to specifically require Type II or IV if ASTM D 4869 underlayment is used.   |
| R905.4.3.3 | Underlayment application                     | R905.4.3.3 | Underlayment application                     | Underlayment requirements have been significantly revised. A two layer or single layer system is permitted. If a single layer system is used, underlayment is required to be ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757 (all are equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced. Self-adhered underlayment complying with ASTM D 1970 is also permitted.  |
| R905.5.3   | Underlayment (mineral-surfaced roll roofing) | R905.5.3   | Underlayment (mineral-surfaced roll roofing) | Revised to specifically require Type II or IV if ASTM D 4869 underlayment is used.   |
| -          | -  | R905.5.3.3 | Underlayment application                     | New section specifying types and attachment of underlayment. A two layer or single layer system is permitted. If a single layer system is used, underlayment is required to be ASTM D 226 Type II, ASTM  |

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|          |  |            |  | D 4869 Type IV, or ASTM D 6757 (all are equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced. Self-adhered underlayment complying with ASTM D 1970 is also permitted.   |
| R905.6.3 | Underlayment (slate and slate-type shingles) | R905.6.3   | Underlayment (slate and slate-type shingles) | Revised to also permit ASTM D 226 Type II, ASTM D 6757 and ASTM D 1970 underlayment. Revised to specifically require Type II or IV if ASTM D 4869 underlayment is used.   |
| -        | -  | R905.6.3.3 | Underlayment application                     | New section specifying types and attachment of underlayment. A two layer or single layer system is permitted. If a single layer system is used, underlayment is required to be ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757 (all are equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced. Self-adhered underlayment complying with ASTM D 1970 is also permitted. |
| -        | -  | R905.7.3.3 | Underlayment application (wood shingles)     | New section specifying types and attachment of underlayment. A two layer or single layer system is permitted. If a single layer system is used, underlayment is required to be ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757 (all are equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced.   |
| -        | -  | R905.8.3   | Underlayment (wood shakes)                   | New section requiring underlayment to comply with ASTM D 226 Type I or II, or ASTM D 4869 Type II or IV.  |
| -        | -  | R905.8.3.3 | Underlayment application                     | New section specifying types and attachment of underlayment. A two layer or single layer system is permitted. If a single layer system is used, underlayment is required to be ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757 (all are   |

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|  |                                     |  |                                     | equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced.   |
| -  | -                                   | R905.8.3.4                                     | Interlayment                        | New section requiring interlayment to comply with ASTM D 226 Type I.  |
| R905.9.2                                       | Material standards (built-up roofs) | R905.9.2                                       | Material standards (built-up roofs) | Revised to permit built-up roofs to comply with UL 55A.   |
| -  | -                                   | R905.10.5                                      | Underlayment (metal panels)         | New section requiring underlayment to comply with ASTM D 226 Type I or II, ASTM D 4869 Type II or IV, ASTM D 6757, or ASTM D 1970.  |
| -  | -                                   | R905.10.5.2                                    | Underlayment application            | New section specifying types and attachment of underlayment. A two layer or single layer system is permitted. If a single layer system is used, underlayment is required to be ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757 (all are equivalent to a 30 lb. underlayment). Required fastening of underlayment to roof has been significantly enhanced. Self-adhered underlayment complying with ASTM D 1970 is also permitted. |
| R905.15<br>R905.15.1<br>R905.15.2<br>R905.15.3 | Liquid-applied coatings             | R905.15<br>R905.15.1<br>R905.15.2<br>R905.15.3 | Liquid-applied roofing              | Terminology changed to "Liquid-applied Roofing".  |
| -  | -                                   | R905.17  | Photovoltaic systems                | New section pertaining to design and installation of rooftop mount photovoltaic systems. Systems are required to be designed for wind loads as components and cladding and to be installed in accordance with the manufacturer's installation instructions. Photovoltaic panels and modules are required to be listed and labeled in accordance with UL 1703.   |
| -  | -                                   | R907   | Reroofing                           | Reroofing requirements that in previous versions of the codes were located in the Existing Building Code, are now also located in the FBCR. Mitigation requirements applicable to site-built single family  |

dwelling built prior to the Florida Building Codes are now also located in the FBCR.

| <b>Chapter 10: Chimneys and Fireplaces</b>                |                                       |            |                                       |  |
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| R1002.5   | Masonry heater clearance              | R1002.5    | Masonry heater clearance              | Exception 2 revised to clarify that masonry heaters have to be listed, as well as labeled, in accordance with UL 1482.   |
| -   | -                                     | 1003.9.1   | Chimney caps                          | New section requiring masonry chimneys to have a concrete, metal or stone cap.   |
| -   | -                                     | 1003.9.3   | Rain caps                             | New section specifying minimum net free area when rain caps are used.  |
| R1003.11.1  | Residential-type appliances (general) | R1003.11.1 | Residential-type appliances (general) | Revised to require flue lining systems complying with UL 1777 to be labeled.   |
| R1004.2   | Hearth extensions                     | R1004.2    | Hearth extensions                     | Revised to require listed and labeled hearth extensions to comply with UL 1618.  |
| -   | -                                     | R1005.7    | Factory built chimney offsets         | New section prohibiting offsets incorporated in factory-built chimneys from being at an angle of more than 30 degrees from vertical. Limits the number of elbows to 4.       |
| <b>Chapter 12: Mechanical Administration</b>              |                                       |            |                                       |  |
| -   | -                                     | M1202.1    | Additions, alterations or repairs     | New section addressing additions, alterations, and repairs.  |
| -   | -                                     | M1202.2    | Existing installations                | New section clarifying that existing systems are permitted to be continued to be used and maintained that are lawfully in existence at the time of the adoption of the code. |
| -   | -                                     | M1202.3    | Maintenance                           | New section requiring existing and new mechanical systems to be maintained.  |
| <b>Chapter 13: General Mechanical System Requirements</b> |                                       |            |                                       |  |
| -   | -                                     | M1301.2    | Identification                        | New section requiring each length of pipe and tubing, and each fitting used in a mechanical system to bear the identification of the manufacturer.                           |
| -   | -                                     | M1301.3    | Installation of materials             | New section requiring all materials to be installed in strict accordance with the standards under which the materials are accepted and approved.                             |
| -   | -                                     | M1301.4    | Plastic pipe, fitting and components  | New section requiring plastic pipe, fittings and components to be third-party certified as conforming to NSF 14.   |

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| -  | -                         | M1301.5     | Third-party testing and certification | New section requiring piping, tubing, and fittings to be either tested by an approved third-party testing agency or certified by an approved third-party certification agency.   |
| M1303.1  | Label information         | M1303.1     | Label information                     | Item 4 revised to remove redundant language.   |
| M1305.1.1  | Furnaces and air handlers | M1305.1.1   | Furnaces and air handlers             | Revised to reduce the furnace clearance along sides, back and top from 4 inches to 3 inches.   |
| M1305.1.3  | Appliances in attics      | M1305.1.3   | Appliances in attics                  | Maximum passageway length has been increased to 20 feet. Exception permits the passageway length to be 50 feet where it is not less than 6 feet high and 22 inches wide for its entire length.   |
| M1305.1.3.2                                      | Air-handling units        | -           | -                                     | Section deleted.   |
| M1305.1.4.1                                      | Ground clearance          | M1305.1.4.1 | Ground clearance                      | Exception for changeouts or new installations in existing buildings where equipment is replaced that has a support platform approved under a previous code has been deleted.   |
| M1307.2.1  | Wind resistance           | -           | -                                     | Section deleted.   |
| -  | -                         | M1307.3     | Elevation of ignition source          | New section requiring equipment and appliances with an ignition source located in garages to be elevated such that the ignition source is not less than 18 inches above the floor. Exception states that elevation of the ignition source is not required for appliances listed as flammable vapor ignition resistant. |
| -  | -                         | M1307.3.1   | Protection from impact                | New section prohibiting appliances from being installed in a location subject to vehicle damage unless protected by approved barriers.   |
| <b>Chapter 14: Heating and Cooling Equipment</b> |                           |             |                                       |  |
| M1401.2  | Access                    | M1401.2     | Access                                | New exception stating access is not required for ducts, piping, or other components approved for concealment. Revised to clarify that the scope of this section applies to appliances as well as equipment.  |
| M1401.3  | Sizing                    | M1401.3     | Sizing                                | Revised to clarify that the scope of this  |

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|           |  |           |  | section applies to appliances as well as equipment.  |
| M1401.4   | Exterior installations                               | M1401.4   | Exterior installations                               | Revised to clarify that the scope of this section applies to appliances as well as equipment. Language referring to required ground clearance has been added.  |
| M1405.1   | General (baseboard convectors)                       | M1405.1   | General (baseboard convectors)                       | Revised to require electric baseboard heaters to be listed and labeled in accordance with UL 1042.   |
| M1406.1   | General (radiant heating systems)                    | M1406.1   | General (radiant heating systems)                    | Revised to require radiant heating systems to be listed for the application.   |
| M1406.3   | Installation of radiant panels                       | M1406.3   | Installation of radiant panels                       | Revised to remove the reference to nail and staple fasteners and add the term "mechanical fasteners" to apply to other fastening methods. Other methods of fastening are required to be in accordance with the panel manufacturer's installation instructions. |
| M1406.5   | Gypsum panels  | -         | -  | Section deleted.   |
| M1407.1   | General (duct heaters)                               | M1407.1   | General (duct heaters)                               | Revised to require electric duct heaters to comply with UL 1996.   |
| M1408.1   | General (vented floor furnaces)                      | M1408.1   | General (vented floor furnaces)                      | Revised to clarify that UL 729 is only applicable to oil-fired floor furnaces.   |
| M1409.1   | General (vented wall furnaces)                       | M1409.1   | General (vented wall furnaces)                       | Revised to clarify that UL 729 is only applicable to oil-fired floor furnaces.   |
| M1411.3.1 | Auxiliary and secondary drain systems                | M1411.3.1 | Auxiliary and secondary drain systems                | Revised to recognize a water level detection device as an auxiliary protection method and not just an alternative to a separate overflow drain line.   |
| M1411.5   | Insulation of refrigerant piping                     | M1411.5   | Insulation of refrigerant piping                     | Revised to require insulation for piping and fittings for refrigerant vapor lines to have a thermal resistivity of at least R-3.   |
| M1411.6   | Locking access port caps                             | M1411.6   | Locking access port caps                             | Revised to permit refrigerant circuit access ports located outdoors to be secured to prevent unauthorized access in an approved manner in lieu of a locking-type tamper-resistant cap.   |
| M1412.1   | Approval of equipment (absorption cooling equipment) | M1412.1   | Approval of equipment (absorption cooling equipment) | Requires absorption equipment to comply with UL 1995.  |
| M1413.1   | General (evaporative cooling)                        | M1413.1   | General (evaporative cooling)                        | Sections combined and reorganized for  |

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|                                       | equipment)                              |             | equipment)                                | clarity.  |
| M1412.2                               | Protection of potable water             |             |   |   |
| <b>Chapter 15: Exhaust Systems</b>    |   |             |   |   |
| M1502.4.1                             | Material and size (dryer exhaust ducts) | M1502.4.1   | Material and size (dryer exhaust ducts)   | Minimum metal thickness of exhaust ducts has been changed to 0.016 inches.  |
| M1502.4.2                             | Duct installation                       | M1502.4.2   | Duct installation                         | Support intervals for ducts have been changed from 4 feet to 12 feet. New language requiring ducts to be seal in accordance with Section M1601.4.1 and mechanically fastened. Screw protrusions are limited to 1/8 inch.  |
| M1502.4.4.1                           | Specified length (dryer exhaust)        | M1502.4.4.1 | Specified length (dryer exhaust)          | The maximum length of the exhaust duct has been increased to 35 feet. New language stating that the maximum length of the exhaust duct does not include the transition duct. The exception for clothes dryer booster fans has been deleted.   |
| M1503.1                               | General (range hoods)                   | M1503.1     | General (range hoods)                     | Revised to require range hood exhaust to be independent from all other exhaust systems.   |
| -                                     | -                                       | M1506.2     | Exhaust openings                          | New section addressing the location of exhaust openings.  |
| M1507.1                               | General (mechanical ventilation)        | M1507.1     | General (mechanical ventilation)          | Revised to distinguish local exhaust from whole-house mechanical ventilation.   |
| -                                     | -                                       | M1507.3     | Whole-house mechanical ventilation system | New section addressing the design of whole-house mechanical ventilation systems.  |
| -                                     | -                                       | M1507.4     | Local exhaust rates                       | New section addressing minimum exhaust capacities for local exhaust systems.  |
| <b>Chapter 16: Duct Systems</b>       |   |             |   |   |
| Chapter 16                            | Duct Systems                            | Chapter 16  | Duct Systems                              | Duct systems requirements have been completely revised. All Florida-specific amendments (except Section M1602.4 Balanced Return Air, which is unchanged from the 2010 FBCR) have been deleted and the requirements are consistent with the base code. Requirements for duct system design pertaining to energy conservation are now contained in the FBCEC. |
| <b>Chapter 18: Chimneys and Vents</b> |   |             |   |   |
| 1804.2.6                              | Mechanical draft systems                | 1804.2.6    | Mechanical draft systems                  | Revised to require mechanical draft systems   |

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|  |   |               |   | to comply with UL 378.  |
| <b>Chapter 19: Special Appliances, Equipment and Systems</b> |   |               |   |   |
| M1901.1  | Clearances                                  | M1901.1       | Clearances                                  | Revised to require the installation of a cooking appliance or microwave oven over a cooking appliance to be in accordance with Section M1504.1. Requires clearances for domestic open-top broiler units to be in accordance with Section M1505.1.         |
| M1901.2  | Cooking appliances                          | M1901.2       | Cooking appliances                          | Revised to require appliances to be listed and labeled for household use. Electric cooking appliances are required to comply with UL 1026 or UL 858. Solid-fuel-fired fireplace stoves are required to comply with UL 737.                                |
| -  | -   | M1901.3       | Prohibited location                         | New section prohibiting the installation of cooking appliances design, tested, listed and labeled for use in commercial occupancy, within dwelling units or any area where domestic cooking operations occur.   |
| M1902.2  | Installation (sauna heaters)                | M1902.2       | Installation (sauna heaters)                | New language requires sauna heaters to comply with UL 875.  |
| M1903.2  | General (stationary fuel cell power plants) | M1903.2       | General (stationary fuel cell power plants) | Revised to require stationary fuel cell power plants to comply with ANSI/CSA America FC 1.  |
| <b>Chapter 20: Boilers and Water Heaters</b>                 |   |               |   |   |
| M2001.1.1  | Standards (boilers)                         | M2001.1.1     | Standards (boilers)                         | Revised to require solid-fuel-fired boilers to be listed and labeled in accordance with UL 2523.  |
| M2005.1  | General (water heaters)                     | M2005.1       | General (water heaters)                     | New language requires thermal solar water heaters to comply with Chapter 23 and UL 174. Solid-fuel-fired water heaters are required to comply with UL 2523. Language requiring commercial electric water heaters to comply with UL 1453 has been deleted. |
| M2006.1  | General (pool heaters)                      | M2006.1       | General (pool heaters)                      | Editorial revision to require compliance, not just testing, with the standards referenced.  |
| <b>Chapter 21: Hydronic Piping</b>                           |   |               |   |   |
| Table M2101.1  | Hydronic pipe                               | Table M2101.1 | Hydronic pipe                               | ASTM F 2769 has been added as a reference standard for raised temperature polyethylene. ASTM F 877 and ASTM F   |

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|   |                                       |           |                                       | 1807 have been added as reference standards for copper and copper alloys. ASTM F 2159 and ASTM F 2735 have been added as reference standards for plastic.  |
| <b>Chapter 22: Special Piping and Storage Systems</b> |                                       |           |                                       |  |
| M2201.5   | Oil gauges (oil tanks)                | M2201.5   | Oil gauges (oil tanks)                | New language requires liquid-level gauges to comply with UL 180.   |
| M2204.2   | Shutoff valves (oil pumps and valves) | M2204.2   | Shutoff valves (oil pumps and valves) | Revised to require valves to comply with UL 842.   |
| <b>Chapter 23: Thermal Solar Energy Systems</b>       |                                       |           |                                       |  |
| M2301.2.2   | Roof-mounted collectors               | M2301.2.2 | Roof-mounted collectors               | Revised to require roof-mounted solar collectors that serve as a roof covering that are installed in the HVHZ to comply with Chapter 44.   |
| M2301.2.7   | Roof and wall penetrations            | M2301.2.7 | Roof and wall penetrations            | Revised to require roof and wall penetrations in the HVHZ to be flashed and sealed in accordance with Chapter 44.  |
| -   | -                                     | M2302     | Photovoltaic solar energy systems     | New section providing for the design, construction, installation, alteration, and repair of photovoltaic equipment and systems.  |
| <b>Chapter 24: Fuel Gas</b>                           |                                       |           |                                       |  |
| G2403   | Definitions: Appliance                | G2403     | Definitions: Appliance                | Definition revised to remove reference to "gas" as many appliances use solid and oil fuels as permitted by the code.   |
| G2403   | Definitions: Design Flood Elevation   | G2403     | Definitions: Design Flood Elevation   | New language added to clarify the determination of the design flood elevation for map areas designated as Zone AO. Where a depth is not specified on the map, the depth is required to be taken as 2 ft. |
| -   | -                                     | G2403     | Definitions: Combustible Assembly     | New definition added describing a combustible assembly as one that is constructed of materials that are not defined as noncombustible  |
| -   | -                                     | G2403     | Definitions: Combustible Material     | New definition added describing combustible material as any material that is no defined as noncombustible  |
| -   | -                                     | G2403     | Definitions: Excess Flow Valve (EFV)  | New definition added describing an EFV valve as one that is designed to activate when the fuel gas pass through it exceeds a   |

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|          |  |         |  | prescribed rate.   |
| -        | -  | G2403   | Definitions: Flashback Arrestor Check Valve              | New definition added for flashback arrestor check valves as referenced in Section 410.5.   |
| G2403    | Definitions: Fuel Gas Utilization Equipment              | -       | -  | Definition has been deleted because it's no longer used in the FBCFG   |
| G2403    | Definitions: Joint, Mechanical                           | G2403   | Definitions: Joint, Mechanical                           | Press joints are added to the definition as appropriate mechanical joints.   |
| -        | -  | G2403   | Definitions: Noncombustible Materials                    | New definition added describing the testing and criteria for a material to meet to be defined as noncombustible.   |
| G2403    | Definitions: Point of Delivery                           | G2403   | Definitions: Point of Delivery                           | New language added that eliminates a coverage gap for LP gas systems. Point of delivery for LP gas systems is now defined to be the outlet of the service pressure regulator, exclusive of line gas regulators, in the system. |
| G2403    | Definitions: Regulator, Service Pressure                 | G2403   | Definitions: Regulator, Service Pressure                 | Definition revised to provide two distinct definitions, one for natural gas and one for LP.  |
| -        | -  | G2403   | Definitions: Third-party certification agency            | New definition intended to provide the means by which compliance with the code referenced product standards is demonstrated and verified.  |
| -        | -  | G2403   | Definitions: Third-party certified                       | New definition intended to provide the means by which compliance with the code referenced product standards is demonstrated and verified.  |
| -        | -  | G2403   | Definitions: Third-party tested                          | New definition intended to provide the means by which compliance with the code referenced product standards is demonstrated and verified.  |
| G2404.2  | Other fuels  | G2404.2 | Other fuels  | Revised to refer to Section G2407 for combustion and dilution air for gas-fired appliances. For combustion and dilution air for appliances operating with fuels other than fuel gas are regulated by Chapter 17.               |
| G2404.11 | Fuel types   | -       | -  | Section deleted.   |
| G2409.1  | Scope of clearance reductions for combustible materials. | G2409.1 | Scope of clearance reductions for combustible materials. | Adds gypsum board as one of the combustible materials regulated by this  |

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|           |   |           |                                   | section for reduction in required clearances.   |
| G2409.3.1 | Appliances installed in rooms that are large in comparison with the size of the appliances    | G2409.3.1 | Appliances clearances             | Revised to refer to the manufacturers instruction for clearances for air-conditioning appliances  |
| G2409.3.2 | Appliances installed in rooms that re not large in comparison with the size of the appliances |           |                                   |   |
| G2409.3.3 | Clearance reductions  | G2409.3.2 | Clearance reduction               | Revised to clarify that reduced clearances have to be allowed by the manufacturer's instructions.   |
| G2409.3.5 | Clearance from supply ducts   | G2409.3.4 | Clearance from supply ducts       | Revised for clarity   |
| G2410.1   | Grounding   | G2410.1   | Grounding                         | Section revised to simply state that gas piping shall not be used as a grounding electrode.   |
| G2411.1.1 | CSST  | G2411.1.1 | CSST                              | Revised to require the bonding jumper to connect to a metallic pipe or fitting between the point of delivery and first downstream CSST fitting. Requires gas piping systems that contain one or more segments of CSST to be bonded in accordance with this section. |
| G2412.2   | Liquefied petroleum gas storage   | G2412.2   | Liquefied petroleum gas storage   | Language describing the LP gas storage systems covered by this section (container, regulators, piping and all components upstream to the point of delivery) has been deleted.   |
| G2412.5   | Identification  | G2412.5   | Identification                    | Revised to require black steel pipe to be identified by a yellow label marked "Gas". Exception stating this section only applies where gas piping could be confused with other piping has been deleted.   |
| -         | -   | G2412.9   | Identification                    | New section requiring manufacturer identification on each length of pipe and tubing and each fitting, utilized in a fuel gas system. New exception added requiring the manufacturer identification for fitting and pipe nipples to be on each piece or on packaging |
| G2413.2   | Maximum gas demand  | G2413.2   | Maximum gas demand                | Revised for clarity.  |
| G2414.6   | Plastic pipe, tubing and fittings   | G2414.6   | Plastic pipe, tubing and fittings | Requires Polyethylene plastic pipe, tubing  |

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|           |   |           |   | and fittings for fuel gas to conform the 2009 edition of ASTM D 2513. Plastic other than polyethylene plastic pipe is required to conform to the 2008 edition of ASTM D 2513.   |
| -         | -   | G2415.1   | Installation of materials                     | New section requiring installation compliance in accordance with the applicable referenced standards or the manufacturer's installation instructions where specific standards do not exist. Language added the clarifies that provisions of the code apply where they differ from the manufacturer's installation instructions. |
| -         | -   | G2415.2   | CSST  | New section requiring CSST piping systems to be installed in accordance with the terms of their approval, conditions of the listing, manufacturer's installation instructions, and the code.  |
| G2422.1.6 | Outdoor appliance connectors                  | -         | -   | Section permitting outdoor gas hose connectors to be connected to portable outdoor gas-fired equipment has been deleted.  |
| G2415.16  | Prohibited devices                            | G2415.18  | Prohibited devices                            | New exception added to clarify that approved EFV (excessive flow valves) are allowed where the gas piping system has been sized to accommodate its pressure drop.   |
| -         | -   | G2417.1.6 | Pipe clearing                                 | New section requiring the interior of the pipe to be cleared of foreign material prior to testing.  |
| G2417.6.4 | Placing appliances and equipment in operation | G2417.6.4 | Placing appliances and equipment in operation | Revised to clarify that the connections to the appliances also have to be checked for leakage.  |
| G2417.7   | Purging                                       | G2417.7   | Purging                                       | Entire section on purging has been significantly revised and update.  |
| G2419.4   | Sediment trap                                 | G2419.4   | Sediment trap                                 | New figure is added to provide a graphic illustration of how a sediment trap should be constructed. New language adds decorative vented appliances for installation in vented fireplaces and gas fire places to the   |

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|                 |                                 |                 |                                 | exemption list of appliances that do not need to be equipped with a sediment trap   |
| Table G2420.1.1 | Manual Gas Valve Standards      | Table G2420.1.1 | Manual Gas Valve Standards      | Standard CSA Requirement 3-88 has been removed as a recognized standard from the table in favor of the ASME B16.44 standard.  |
| -               | -                               | G2421.4         | Excess flow valves              | New section adds new installation and safety requirements for excess flow valves from the National Fuel Gas Code.   |
| -               | -                               | G2421.5         | Flashback arrestor check valve  | New section adds requirements for flashback arrestor valves to be installed where fuel gas is used with oxygen in an hot work operation.  |
| G2427.1         | General (venting of appliances) | G2427.1         | General (venting of appliances) | Revised to simply state that the venting of appliances is to be in accordance with Section G2427.2 through G2427.16.  |
| G2427.10.6      | Flow resistance                 | -               | -                               | Section deleted.  |
| G2428.2.9       | Chimney and vent locations      | G2428.2.9       | Chimney and vent locations      | New language requiring the vent to be enclosed for vents not considered to be exposed to the outdoor or engineered when the vent extends outdoors above the roof more 5 feet higher than required by Figure G2427.6.3 and terminating in accordance with Section G2427.6.3. |
| -               | -                               | G2428.2.17      | Height entries                  | New section allowing interpolation of height entries in Tables G2428.2(1) and G2428.2(2). If interpolation is not used, lower values are to be used for FAN MAX and NAT MAX and higher values are to used for FAN MIN.  |
| G2428.3.16      | Chimney and vent locations      | G2428.3.16      | Chimney and vent locations      | New language requiring the vent to be enclosed for vents not considered to be exposed to the outdoor or engineered when the vent extends outdoors above the roof more 5 feet higher than required by Figure G2427.6.3 and terminating in accordance with Section G2427.6.3. |
| -               | -                               | G2428.3.24      | Height entries                  | New section allowing interpolation of height entries in Tables G2428.3(1) and G2428.3(2). If interpolation is not used, lower values are to be used for FAN MAX   |

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|  |  |           |                                       | and NAT MAX and higher values are to be used for FAN MIN.  |
| G2442.4  | Circulating air ducts for forced-air warm-air furnaces | -         | -                                     | Section G2442.4 is deleted because it is already covered in Section G2442.7. Section G2442.7 is preferred because it provides a clearer description of the type of installation where ducts are required for safety and efficiency.  |
| G2442.5  | Prohibited sources                                     | G2442.4   | Prohibited sources                    | Section revised to allow mechanical rooms to be used as plenums. New language allows forced air systems serving only a garage to obtain return air from the garage.  |
| G2451.1  | General – infrared radiant heaters                     | G2451.1   | General – infrared radiant heaters    | The test standard for infrared radiant heaters has been changed from ANSI Z83.6 to ANSI Z83.19 or Z83.20 as requirements for infrared radiant are now covered in these new standards.  |
| -  | -  | G2454     | Outdoor decorative appliances         | New section requiring permanently fixed-in-place outdoor decorative appliances to be tested in accordance with ANSI Z21.97 and installed in accordance with the manufacturer's installation instruction.   |
| <b>Chapter 25: Plumbing Administration</b>       |  |           |                                       |  |
| P2502.1  | Existing building sewers and drains                    | P2502.1   | Existing building sewers and drains   | Revised to allow existing sewers and drains to be used with new systems when found by examination and/or test to conform to the requirements in the code.  |
| P2503.4  | Gravity sewer test                                     | P2503.4   | Building sewer                        | Revised to require at least a 10-foot head of water during the test.   |
| P2503.5.1  | Drainage and vent water test                           | P2503.5.1 | Rough plumbing                        | Revised to permit an air test of the DWV system for piping systems other than plastic. Requires each section to be filled with water to a point not less than 10 feet above the highest fitting connection in that section, or to the highest point in the completed system. |
| P2503.8.2  | Testing (backflow prevention devices)                  | P2503.8.2 | Testing (backflow prevention devices) | Editorially revised to clarify that the devices within the scope of this section are all backflow preventer assemblies.  |
| <b>Chapter 26: General Plumbing Requirements</b> |  |           |                                       |  |

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| P2601.2                              | Connections to drainage system   | P2601.2       | Connections to drainage system                  | New exception permitting bathtubs, showers, lavatories, clothes washers, and laundry trays to discharge to gray water system.  |
| P2603.3                              | Breakage and corrosion   | P2603.3       | Breakage and corrosion                          | Language requiring pipes passing through or under walls to be protected from breakage has been deleted as it's already covered in other sections.  |
| P2603.5                              | Pipes through footings or foundation walls   | P2603.4       | Pipes through foundation walls                  | Pipes pass under footings do not require a relieving arch or pipe sleeve as the footing itself acts as a relieving arch.   |
| Table P2605.1                        | Piping Support   | Table P2605.1 | Piping Support                                  | Adds hanger spacing requirements for polyethylene of raised temperature (PE-RT) pipe.  |
| P2606.1                              | Sealing of annular spaces  | P2603.4       | Sleeves   | Revised for consistency with the FBCEC.  |
| P2608.1                              | Identification   | P2609.1       | Identification                                  | Requires identification of any markings required by applicable referenced standards.   |
| P2608.4                              | Third-party testing and certification  | P2609.4       | Third-party testing and certification           | Revised to require all plumbing products and materials to be listed by a third-party certification agency as complying with the referenced standards.  |
| Table P2608.4                        | Products and Materials Requiring Third Party Testing and Third Party Certification | -             | -   | Table deleted.   |
| <b>Chapter 27: Plumbing Fixtures</b> |  |               |   |  |
| Table P2701.1                        | Plumbing Fixtures, Faucets and Fixture Fittings                                    | Table P2701.1 | Plumbing Fixtures, Faucets and Fixture Fittings | Home laundry equipment and household dishwashing machines deleted from table. Entry for suction fittings for use in swimming pools, etc. has been deleted.   |
| P2702.1                              | Plumbing fixtures  | P2702.1       | Plumbing fixtures                               | New exception to required strainers added for hub drains and standpipes.   |
| P2706.1                              | Waste receptors  | P2706.1       | Waste receptors                                 | Attics, crawl spaces, interstitial spaces above ceilings, and below floors are added as locations where waste receptors are not permitted to be installed. New exception permits clothes washer standpipes in bathrooms. |
| P2709.1                              | Construction (shower receptors)  | P2709.1       | Construction (shower receptors)                 | Revised to address "where shower receptors have a finished curb threshold"   |

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|                                  |                                      |           |  | instead of requiring a “finished curb threshold”.   |
| P2709.2                          | Lining required                      | P2709.2   | Lining required  | Revised to require the lining material to extend not less than 2 inches beyond or around the rough jambs and not less than 2 inches above finished thresholds. Exceptions have been deleted.  |
| P2709.2.1                        | PVC sheets                           | P2709.2.1 | PVC sheets   | Minimum thickness has been deleted.   |
| P2709.2.2                        | Chlorinated polyethylene sheets      | P2709.2.2 | Chlorinated polyethylene sheets                        | Minimum thickness has been deleted.   |
| -                                | -                                    | P2709.2.4 | Liquid type, load bearing, bonded waterproof materials | New section requiring liquid type, load bearing, bonded waterproof materials to comply with ANSI A118.10.   |
| P2713.1                          | Bathtub waste outlets and overflows  | P2713.1   | Bathtub waste outlets and overflows                    | Section revised for clarity.  |
| P2713.3                          | Bathtub and whirlpool bathtub valves | P2713.3   | Bathtub and whirlpool bathtub valves                   | CSA B 125.3 is added as standard for water-temperature limiting devices.  |
| P2721.2                          | Bidet water temperature              | P2721.2   | Bidet water temperature                                | Adds CSA B125.3 as additional compliance option for water temperature limiting devices.   |
| -                                | -                                    | P2722.5   | Water closet personal hygiene devices                  | New section requiring personal hygiene devices integral to water closets to comply with ASME A112.4.2.  |
| -                                | -                                    | P2724.1   | Temperature-actuated mixing valves                     | New section requiring temperature-actuated mixing valves to comply with ASSE 1017.  |
| <b>Chapter 28: Water Heaters</b> |                                      |           |  |   |
| P2801.5                          | Required pan                         | P2801.5   | Required pan   | Revised to clarify a pan is required for storage tank water heaters and hot water storage tanks, not tankless-type water heaters. Specific locations where a pan is required have been deleted and refers to locations where leakage from the tank will cause damage. Language requiring electric water heaters to be installed in a metal or high impact plastic pan has been deleted. |
| P2801.6                          | Water heaters installed in garages   | P2801.6   | Water heaters installed in garages                     | Revised to require water heaters having an ignition source to be elevated such that the source of ignition is not less than 18 inches above the garage floor. New exception for appliances that are listed as flammable   |

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|  |  |                    |  | vapor ignition resistant.   |
| P2803.6.2  | Relief outlet waste  | -                  | -  | Section deleted (subsection P2803.6.2.1 deleted as well).   |
| <b>Chapter 29: Water Supply and Distribution</b> |  |                    |  |   |
| P2901.1  | Potable water required   | P2901.1            | Potable water required   | Revised to require all nonpotable water systems to be identified not just the systems in buildings.   |
| P2902.1  | General (backflow preventers)  | P2902.1            | General (backflow preventers)  | Revised for clarity.  |
| Table P2902.3                                    | Application for Backflow Preventers  | Table P2902.3      | Application for Backflow Preventers  | Terminology revised for consistency with ASSE standards. Reference standard CSA B64.1.3 added for spill resistant pressure vacuum breakers. |
| P2902.3.4  | Pressure-type vacuum breakers  | P3902.3.4          | Pressure vacuum breaker assemblies   | Terminology revised for consistency with ASSE standards.  |
| P2902.4.2  | Deck-mounted and integral vacuum breakers                                  | P2902.4.2          | Deck-mounted and integral vacuum breakers                                  | Terminology revised for consistency with ASSE standards.  |
| P2902.5.3  | Lawn irrigation systems  | P2902.5.3          | Lawn irrigation systems  | Terminology revised for consistency throughout the code.  |
| P2902.5.4  | Connections to automatic fire sprinkler systems                            | P2902.5.4          | Connections to automatic fire sprinkler systems                            | Terminology revised for consistency throughout the code.  |
| P2902.5.4.1                                      | Additives or nonpotable source   | P2902.5.4.1        | Additives or nonpotable source   | Terminology revised for consistency throughout the code.  |
| P2903.1  | Water supply system design criteria  | P2903.1            | Water supply system design criteria  | Option of sizing of the water service pipe system in accordance with Table P2903.2b has been deleted.                                       |
| Table P2903.2b                                   | Minimum water service size   | -                  | -  | Table deleted.  |
| P2903.3.1  | Maximum pressure   | P2903.3.1          | Maximum pressure   | CSA B356 has been added as an approved standard for water pressure reducing valves.   |
| Table (P2903.6(1))                               | Conversions from Water Supply Fixture Unit to Gallon Per Minute Flow Rates | Table (P2903.6(1)) | Conversions from Water Supply Fixture Unit to Gallon Per Minute Flow Rates | In table heading, "Flush Valves" changed to "Flushometer Valves".   |
| P2904.1  | General (dwelling unit fire sprinkler systems)                             | P2904.1            | General (dwelling unit fire sprinkler systems)                             | Revised to emphasize that it is permissible to install a partial system when residential sprinklers are not required.                       |
| P2904.2.4.2                                      | Obstructions to coverage   | P2904.2.4.2        | Obstructions to coverage   | New language added that specifies minimum spacing to obstructions for fire sprinklers is required in accordance with new Table P2904.2.4.2. |

|                                      |  |                   |   |   |
|--------------------------------------|--|-------------------|---|---|
| -                                    | -  | Table P2904.2.4.2 | Minimum Separation from Obstruction                   | New table added that specifies minimum spacing to obstructions for fire sprinklers.   |
| P2904.3.1                            | Nonmetallic pipe and tubing                    | P2904.3.1         | Nonmetallic pipe and tubing                           | Revised to add PE-RT to the scope of this section.  |
| P2904.6.2(8)                         | Allowable Pipe Length for ¾ inch PEX Tubing    | P2904.6.2(8)      | Allowable Pipe Length for ¾ inch PEX and PE-RT Tubing | Revised to add PE-RT to the scope of this table.  |
| P2904.6.2(9)                         | Allowable Pipe Length for 1 inch PEX Tubing    | P2904.6.2(9)      | Allowable Pipe Length for 1 inch PEX and PE-RT Tubing | Revised to add PE-RT to the scope of this table.  |
| -                                    | -  | P2905.2.1         | Lead content of drinking water pipe and fittings      | New section requiring the pipe, fittings, joints, valves, faucets, and fixture fittings used to supply water for drinking or cooking to comply with NSF 272 and have a weighted average lead content of 0.25 percent or less. |
| Table P2905.4                        | Water Service Pipe                             | Table P2905.4     | Water Service Pipe                                    | New reference standards added. Reference standards have been added for polyethylene of raised temperature (PE-RT) pipe.   |
| Table P2905.5                        | Water Distribution Pipe                        | Table P2905.5     | Water Distribution Pipe                               | Reference standards have been added for polyethylene of raised temperature (PE-RT) pipe.  |
| Table P2905.6                        | Pipe Fittings                                  | Table P2905.6     | Pipe Fittings   | Reference standards have been added for polyethylene of raised temperature (PE-RT) pipe.  |
| -                                    | -  | P2905.19          | Polyethylene of raised temperature plastic            | New section providing criteria for joints between polyethylene of raised temperature plastic tubing and fittings.   |
| -                                    | -  | P2905.19.1        | Flared joints   | New section for flared joints for polyethylene of raised temperature plastic tubing and fittings  |
| -                                    | -  | P2905.19.2        | Mechanical joints                                     | New section for mechanical joints for polyethylene of raised temperature plastic tubing and fittings  |
| P2908.1                              | Design (drinking water treatment units)        | P2908.1           | Design (drinking water treatment units)               | CSA B483.1 added as new reference standard for drinking water treatment units.  |
| P2908.2                              | Reverse osmosis drinking water treatment units | P2908.2           | Reverse osmosis drinking water treatment units        | CSA B483.1 added as a new reference standard for point-of-use reverse osmosis drinking water treatment units.   |
| <b>Chapter 30: Sanitary Drainage</b> |  |                   |   |   |
| P3001.2                              | Protection from freezing                       | P3001.2           | Protection from freezing                              | Section reorganized for clarity.  |

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|--------------------------|--|-------------|--|--|
| P3002.3.1                | Drainage   | P3002.3.1   | Drainage   | Adds new language indicating this section is not applicable to tubular waste fitting used to convey vertical flow upstream of the trap seal liquid level of a fixture trap.    |
| P3003.19                 | Floor and wall drainage connections              | P3003.19    | Joints between drainage piping and water closets | Revised to permit joints between drainage piping and water closets to be made with a waste connector and sealing gasket in addition to floor flanges.                          |
| P3003.19.1               | Floor flanges                                    | -           | -  | Section deleted.   |
| P3003.19.2               | Securing floor and outlet fixtures               | -           | -  | Section deleted.   |
| P3007.3.3                | Discharge piping                                 | P3007.3.3   | Discharge piping and fittings                    | Revised to refer to Sections P3007.3.3.1 and P3007.3.3.2 for discharge pipe and fitting serving sump pumps and ejectors.   |
| -                        | -  | P3007.3.3.1 | Materials  | Requires pipe and fitting materials to be constructed of brass, copper, CPVC, ductile iron, PE, or PVC.  |
| -                        | -  | P3007.3.3.2 | Ratings  | Requires pipe and fittings to be rated for the maximum system operating pressure and temperature.  |
| P3007.3.5                | Ejector connection to the drainage system        | P3007.3.5   | Ejector connection to the drainage system        | Revised to permit soil waste stacks, waste stacks, and horizontal branch drains as acceptable points of termination for ejector discharge lines.                               |
| Appendix O               | Gray water recycling systems                     | P3009       | Gray water recycling systems                     | New section providing materials, design, construction, and installation criteria for gray water recycling systems.   |
| <b>Chapter 31: Vents</b> |  |             |  |  |
| P3103.2                  | Freezing   | P3103.2     | Frost closure                                    | Revised to require vent extensions through a roof or wall to be not less than 3 inches in diameter where the 97.5-percent value for outside design temperature is 0°F or less. |
| P3103.4                  | Prohibited use                                   | P3103.4     | Prohibited use                                   | Section revised to clarify that vent terminals should not be used to support any piece of equipment.   |
| P3103.5                  | Location of vent terminal                        | P3103.5     | Location of vent terminal                        | Section revised to require vent terminals to be at least 3 feet above any opening if it is within 10 feet of an opening.   |
| P3111.2                  | Installation (combination waste and vent system) | P3111.2     | Installation (combination waste and vent system) | Revised to change the term "drain" to "waste".   |

|   |   |            |   |  |
|---|---|------------|---|--|
| P3111.3   | Size  | P3111.3    | Size  | New language permitting the horizontal length of a combination drain and vent systems to be unlimited.               |
| P3113.4.1   | Sewage pumps and sewage ejectors other than pneumatic | P3113.4.1  | Sewage pumps and sewage ejectors other than pneumatic                             | Revised to require that the drainage below the sewer level to be vented as gravity system.                           |
| <b>Part VIII: Electrical</b>  |   |            |   |  |
| Applicable electrical provisions from NFPA 70 are now printed directly in the code (Chapters 34 through 43).  |   |            |   |  |
| <b>Chapter 41: Swimming Pools</b>   |   |            |   |  |
| Chapter 41  | Swimming Pools  | Chapter 45 | Private Swimming Pools  | Provisions relocated to Chapter 45.  |
| <b>Chapter 44: High-Velocity Hurricane Zones</b>  |   |            |   |  |
| Provisions of the High-Velocity Hurricane Zones in the FBCR have been deleted and replaced with specific references to the building code for applicable criteria. |   |            |   |  |
| <b>Appendix D: Recommended Procedure for Safety Inspection of an Existing Appliance Installation</b>  |   |            |   |  |
| -   | -   | Appendix D | Recommended Procedure for Safety Inspection of an Existing Appliance Installation | New appendix which is an excerpt from the FBCFG.   |
| <b>Appendix H: Patio Covers</b>   |   |            |   |  |
| -   | -   | Appendix H | Patio Covers  | New appendix for the construction of patio covers.   |
| <b>Appendix I: Private Sewage Disposal</b>  |   |            |   |  |
| -   | -   | Appendix I | Private Sewage Disposal   | New appendix requiring private sewage disposal systems to conform to the International Private Sewage Disposal Code. |
| <b>Appendix J: Existing Buildings and Structures</b>  |   |            |   |  |
| -   | -   | Appendix J | Existing Buildings and Structures   | New appendix applicable to existing buildings.   |
| <b>Appendix K: Sound Transmission</b>   |   |            |   |  |
| -   | -   | Appendix K | Sound Transmission  | New appendix applicable to sound transmission.   |
| <b>Appendix L: Permit Fees</b>  |   |            |   |  |
| -   | -   | Appendix L | Permit Fees   | New appendix applicable to permit fees.  |
| <b>Appendix M: Home Day Care – R-3 Occupancy</b>  |   |            |   |  |
| -   | -   | Appendix M | Home Day Care   | New appendix applicable to home day care R-3 occupancies.  |
| <b>Appendix N: Venting Methods</b>  |   |            |   |  |
| -   | -   | Appendix N | Venting Methods   | New appendix providing examples of various venting methods   |

| <b>Appendix O: Automatic Vehicular Gates</b>                     |   |            |   |  |
|--|---|------------|---|--|
| -  | - | Appendix O | Automatic Vehicular Gates                     | New appendix applicable to automatic vehicular gates. Gray water recycling systems are now covered in new Section P3009. |
| <b>Appendix P: Sizing of Water Piping System</b>                 |   |            |   |  |
| -  | - | Appendix P | Sizing of Water Piping System                 | New appendix outlining two procedures for sizing a water piping system.  |
| <b>Appendix Q: ICC International Residential Code Electrical</b> |   |            |   |  |
| -  | - | Appendix Q | ICC International Residential Code Electrical | New appendix providing a cross reference of the FBCR electrical provisions to the National Electrical Code.              |