

Analysis of Changes to the 2007 Florida Building Code, Residential

Detailed side-by-side comparison

This Analysis of Changes to the 2007 Florida Codes is intended to provide a comprehensive comparison of the provisions in the 2004 Florida Building Code, Residential (FBCR) and the 2007 Florida Building Code, Residential. The 2003 International Building Code was the base code for the 2004 FBCR. The 2006 International Building Code is the base code for the 2007 FBCR. As a result of changing the base code, specific provisions have changed significantly in addition to other technical changes. 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 description of the topic of the requirements from the 2004 FBCR. The next two columns contain section numbers and a brief description of the topic of the corresponding requirements in the 2007 FBCR. The far right column contains an analysis or comment on the differences between the provisions. For many entries, the basis for the change is also addressed.

This Analysis is not intended to replace or interpret the provisions contained in either the 2004 FBCR or the 2007 FBCR. This information simply points out the differences. The Analysis is not designed to be used without the aide 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 significant differences in the two codes, as well as enabling the user to locate issue specific provisions in the 2007 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 2007 FBCR. In some cases, sections were grouped together due to substantial differences. This grouping enables the context of the differences to be more easily identified.

Chapter 2: Definitions				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
202	-	202	Air-impermeable insulation	Added new definition defined as an insulation with an air permeance equal to or less than 0.02 per ASTM std.
202	Approved	202	Approved	Revised to simply state "acceptable to the building official."

202	Accessory structure	202	Accessory structure	Revised language to remove "an attached or detached building" and add "a structure." Revised definition will assist to clarify confusion of this term as well as to include fences, retaining walls and other structures that are not buildings.
202	Branch interval	202	Branch interval	Revised definition to provide a more current description and updated terminology for what has caused confusion for the plumbing industry.
202	-	202	Balloon frame construction	Added new definition to provide description for a common method of construction.
202	Emergency escape and rescue opening	202	Emergency escape and rescue opening	Revised to add that operable window must be "exterior" to clarify misconception that window could open to adjacent room.
202	Exterior wall	202	Exterior wall	Revised to define exterior wall as exterior boundaries of the building. Previous definition stated to enclose "conditioned space," which eliminated garage walls and provided exemption from fire protection requirements.
202	-	202	Fire separation distance	Added definition serving as the basis for measurements regarding the location of the building on the lot which determines whether or not the exterior walls have to be fire-resistance rated and the amount of openings permitted in the wall.
202	Foam backer board	202	Foam backer board	Added definition to correlate with Chapter 3 re-write of foam plastics.
202	Foam plastic insulation	202	Foam plastic insulation	
202	Foam plastic interior trim	202	Foam plastic interior trim	
202	-	202	Garage door manufacturer	New definition.
202	Gridded water distribution system	202	Gridded water distribution system	New definition for an additional design method of water distribution and used in new sections added to the code.
202	Habitable Space	202	Habitable Space	Revised definition to add sunroom Categories I, II and III as defined in the AAMA/NPEA/NSA 2100 to list of areas that are not considered habitable space.
202	-	202	Permanent label	New definition for term utilized throughout code.
202	-	202	Precast concrete	Added definition for term utilized throughout code and for consistency with Building code.
202	Thermal isolation	202	Thermal isolation	Revised definition to remove term sunroom and state a generic "conditioned space" in description.
202	-	202	Vehicular access door	Added term to clarify use of terms and requirements for exterior wall openings.

202	Vinyl siding	202	Vinyl siding	Added definition to provide description of term and requirements for vinyl siding currently in code.
202	Wall, retaining	202	Wall, retaining	Definition added to correlate with other proposed changes and additions for retaining walls.
202	Water-resistive barrier	202	Water-resistive barrier	Revised definition throughout the code to a concise and consistent definition.
Chapter 3: Building Planning				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R301.1	Design	R301.1	Application	Revised section title for consistency with other sections and revised language in this section to clarify that structures built to the provisions of the code meet the basic requirements for the transference of loads to the foundation.
R301.1.1	Alternative provisions	R301.1.1	Alternative provisions	Revised section to update reference. New reference adds "with Supplement to Standard for Cold-Formed Steel Framing-Prescriptive Method for One-and Two-Family Dwellings."
R301.2.1	Wind limitations	R301.2.1	Wind limitations	List of cladding items for specified for determination of wind loads has been expanded to include wall coverings, curtain walls, and roof coverings. Requires asphalt shingles to comply with Section R905.2.6.
R301.2.1.1.2	Sunrooms	R301.2.1.1.2	Sunrooms	Section revised to specify sunroom categories as referenced in AAMA/NPEA/NSA 2100.
R301.2.1.3	Wind speed conversion	R301.2.1.3	Wind speed conversion	Revised language in section to remove "velocities" to use "basic wind speed" for consistency in terminology.
Table 301.2.1.2	Windborne debris protection fastening schedule for wood structural panels	Table 301.2.1.2	Windborne debris protection fastening schedule for wood structural panels	Revised table to remove "2 1/2" from fastener type description. Added footnote 3 to ensure fasteners are penetrating the wood framing.
Table 301.2.1.3	Equivalent basic wind speeds	Table 301.2.1.3	Equivalent basic wind speeds	Table was updated to reflect re-evaluation by ASCE of the conversions from 3-sec gust to the fastest mile. This evaluation resulted in a modification to the curve and updates are reflected w/in the table.

R301.2.1.4	Exposure category	R301.2.1.4	Exposure category	<p>Added exception to provide intermediate exposure permitted in a transition zone provided that it is determined by a rational analysis method.</p> <p>Exposure C has been revised to clarify the effect of open patches. Requires buildings in Exposure B-type terrain to be categorized as Exposure C where the building is within 100 feet horizontally in any direction of Exposure C-type terrain that extends more than 600 feet and width greater than 150 feet. Exposure C is required to extend downwind for a distance of 1500 feet. For buildings located within 600 feet of inland bodies of water with a fetch of 1 mile or more, roof sheathing uplift and roof-to-wall uplift loads are required to be increased by 20%.</p> <p>Revised item number 4, Exposure D, to replace existing language with "not applicable in Florida."</p>
R301.2.4	Floodplain construction	Table 301.2.4	Floodplain construction	Revised section to add "in whole or in part" to clarify that any structure in flood area, even if in part, shall comply with flood resistant provisions.
R301.3	Story height	R301.3	Story height	Revised section to add: "Floor framing height shall be permitted to exceed these limits provided the story height does not exceed 11' 7 inches."
Table 301.5	Minimum uniformly distributed live loads	Table 301.5	Minimum uniformly distributed live loads	<p>Live loads for attics has been revised to redefine "attics with storage" to "attics with limited storage". New notes "b,g, and h have been added to more specifically define attics "without storage" and attics "with limited storage." Attic spaces served by a fixed stair are required to be designed to support the minimum live load specified for habitable attics and sleeping rooms.</p> <p>Added footnote i. Glazing used in handrail assemblies and guards for safety provision. This addition provides uniformity with Building code.</p>

R302	Location on lot and exterior walls	R302	Exterior wall location	<p>Revised overall Section R302 title to "Exterior Wall Location" to better reflect intent of section.</p> <p>Exterior wall separation, opening, penetrations, and projection requirements are now based upon the fire-separation distance (defined in Chapter 2) instead the horizontal distance between walls as specified in the 2004 Code.</p> <p>Separation requirements, fire-resistance ratings, amount of openings and penetrations, and permitted lengths of projections are all specified in new Table R302.1.</p>
R302.2	Openings	-	-	Deleted section(s). Information now contained in Table 302.1 under grouping for exterior walls.
R302.3	Penetrations	-	-	Deleted section(s). Information now contained in Table 302.1 under grouping for exterior walls.
-	-	Table R302.1	Exterior Walls	New table providing wall separation requirements, fire-resistance ratings, amount of openings and penetrations, and permitted lengths of projections
R303.1	Habitable rooms	R303.1	Habitable rooms	Added new exception 3 permitting sunroom additions and patio covers to provide natural ventilation provided greater than 40% of the walls are open or are enclosed only by insect screening.
R303.6.1	Light activation	R303.6.1	Light activation	Revised section to modify requirement from "every step" to "each floor level" where there are 6 or more risers for requirement of a wall switch for stairway lighting.
-	-	R303.7.2	Sunroom additions (glazed openings)	New section to permitting required glazed openings to open onto sunroom additions (with additional limitations) provided greater than 40% of the walls are open or are enclosed only by insect screening and ceiling height is not less than 7feet.
R305.1	Ceiling height	R305.1	Ceiling height	Section revised to clarify that only 50% of a room's required floor area must have a minimum 7-foot ceiling height, in rooms with sloped ceilings.
R308.3	Human impact loads	R308.3	Human impact loads	Exception permitting polished wired glass complying with ANSI Z97.1, in fire doors and other fire resistant locations has been deleted.

R308.4	Hazardous locations	R308.4	Hazardous locations	Added Exception 9.3 which permits an additionally method of exempting the use of safety glazing adjacent to stairways and landings. Revised section to add exception number 10 to provide exemption for glass block.
R308.6.1	Definitions	R308.6.1	Definitions	Editorial change to replace "more than 15 degrees" with "15 degrees or more" regarding skylight slope.
R308.6.9	Testing and labeling	-	-	Deleted section.
-	-	R309.1.2	Other penetrations	New section requiring penetrations through the separation required in Section R309.2 to be protected by filling the opening around the penetrating item with material to resist the free passage of flame and products of combustion.
R309.2	Separation required	R309.2	Separation required	New language providing specifications for detached garages in close proximity to a dwelling unit.
R310.1	Emergency escape and rescue required	R310.1	Emergency escape and rescue required	Revised section to require emergency escape and rescue openings in all basements, regardless of whether they contain habitable space or not. In addition, added exception for basements used only to house mechanical equipment and with floor area not exceeding 200 sq.ft.
R310.1.4	Operational constraints	R310.1.4	Operational constraints	Revised section to add "or special knowledge" to prevent use of combination locks and or locks w/ an operational sequence on emergency escape openings.
R310.4	Bars, grills, covers and screens	R310.4	Bars, grills, covers and screens	
-	-	R310.5	Emergency escape windows under decks and porches	Added section for allowance of emergency escape windows to be located under decks and porches provided that there is at least 36 inches in height for the exit path.
R311.1	Means of egress	R311.1	Means of egress	Revised "exterior exit balconies" to "exterior egress balconies" for consistency with terminology now used in Chapter 10.
R311.2.1	Attachment	R311.2.1	Attachment	Revised "exterior exit balconies" to "exterior egress balconies" for consistency with terminology now used in Chapter 10. Also revised "exit facilities" to "means of egress components."
R311.4.3	Landings at doors	R311.4.3	Landings at doors	Revised the exception to the first paragraph to clarify that the exception applies to all doors, not doors other than the required exit door. Deleted the exception to the 2nd paragraph.

311.5.8	Special stairways	311.5.8	Special stairways	Section revised to only apply to spiral and bulkhead enclosure stairways. Winders have been deleted from the scope of this section.
R311.6.1	Maximum slope	R311.6.1	Maximum slope	Scope of section revised to require ramps to have a maximum slope of 1:12. The exception permits the slope to be 1:8 if it is technically infeasible to comply because of site constraints.
R312.1	Guards	R312.1	Guards	Revised to add "ramps" to the scope of this section.
-	-	R313.1	Smoke detection and notification	New section requiring smoke alarms to be listed in accordance with UI 217 (relocated text) and installed in accordance with this code and the household fire warning equipment provisions of NFPA 72. Additional criteria specified for household fire alarm systems.
R313.1	Smoke alarms	R313.2	Location	Added new section to include relocated information from R313.1 regarding the locations of detectors. Revisions include removal of audible requirement since a unit is required for each bedroom, and redundant information from R313.1 regarding compliance.
R313.1.1	Alterations, repairs and additions	R313.2.1	Alterations, repairs and additions	Revised section to remove language regarding "interior" alterations to clarify simply "alterations." Exception 2 revised to identify specific examples of the exterior surfaces of dwellings such as replacement of roofing or side, addition or porch or deck. etc.
R314.5	Specific requirements	R314.5	Specific requirements	Revised to clarify that if the requirements of Sections R314.2 through R314.4, Section R314.5 doesn't apply.
-	-	R314.7	Termite damage	New section providing a reference to Section R320.6 for installation of foam plastics in regards to termite damage.
R316.2	Loose fill insulation	R316.2	Loose fill insulation	Editorially revised to require flame spread and smoke developed limits of Section R316.1. Exception revised to clarify that cellulose loose-fill insulation is not required to comply with the flame spread index requirement of CAN/ULC S102.2 provided the insulation complies with Section R316.3.
R317.1	Two-family dwellings	R317.1	Two-family dwellings	New Exception 2 is added to permit the wall assembly to terminate at the ceiling when the ceiling is protected by 5/8 in. Type X gypsum board and an attic draftstop is provided.

R317.2.1	Continuity	R317.2.1	Continuity	Revised section to clarify continuous separation of the townhouse buildings by a fire-resistance-rated wall or assembly, not just a continuous common wall.
R317.2.2	Parapets	R317.2.2	Parapets	Revised exception to item numbers 1 and 2 to add required 2 inch ledgers for decking support required for exception.
R317.3.1	Through penetrations	R317.3.1	Through penetrations	Revised sections to replace the term steel with "tubes" for a more inclusive description. Also revised item number 1 to replace a "maximum" area with "does not exceed" requirement.
R317.3.2	Membrane penetrations	R317.3.2	Membrane penetrations	Revised section's item number(s) 1.1 to add provision for instances of penetrations in both the parallel stud construction and staggered stud construction.
R319.1	Location required	R319.1	Location required	Removed existing AWPA standards and replaced with a reference to AWPA U1 for preservative treated wood.
-	-	R319.1.1	Field treatment	New section pertaining to field treatment that is identical in scope and requirements to Section R320.5.2.
R319.1.1	Ground contact	R319.1.2	Ground contact	Revised section to include wood embedded in concrete into requirements for use of preservative treated wood.
R319.1.2	Geographical areas	R319.1.3	Geographical areas	Editorial change to use term "pressure-preservative-treated" wood (instead of preservative).
R319.1.3	Posts, poles and columns	-	-	Deleted section. Requirements are technically covered in Section R319.1.2..
R319. 1.4	Wood Columns	R319. 1.4	Wood Columns	Section revised with editorial changes and to replace "posts and columns" with " columns."
-	-	R319.1.5	Exposed glued-laminated timbers	Added new section to provide requirements for glue-laminated timbers in exterior use.
R319.3	Fasteners	R319.3	Fasteners	Revised section to state that the requirements for fasteners are outlined in new subsections listed below.
-	-	R319.3.1	Fasteners	Added section for fastener requirements for preservative treated wood. (R319.3.1)
-	-	R319.3.2		Added section for fastener requirements for wood foundations. (R319.3.2)
-	-	R319.3.3		Added section for fastener requirements for fire-retardant-treated wood used in exterior applications or wet or damp locations. (R319.3.3)
-	-	R319.3.4		Added section for fastener requirements for fire-retardant-treated wood used in interior applications. (R319.3.4)

Chapter 4: Foundations				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R401.1	Application	R401.1	Application	Section revised to reference Section R323 for the design of foundations in areas prone to flooding.
R401.3	Drainage	R401.3	Drainage	Exception revised to maintain a minimum 5% slope away from the foundation. Slope criteria for swales and impervious surfaces also provided.
Table R401.4.1	Presumptive load - bearing values	Table R401.4.1	Presumptive load - bearing values	Editorial change to revise "CI" to "CL" in parenthetical reference.
R401.5	Compressible or shifting soil	R401.4.2	Compressible or shifting soil	Relocated and revised section to add "in lieu of a complete geotechnical evaluation" for requirement of soil removal.
R402.1.2	Wood treatment	R402.1.2	Wood treatment	Revised to reference AWPA U1. Requirement for 0.60 retention has been deleted.
R402.2	Concrete	R402.2	Concrete	Revised section to add the description of "moderate or severe" to describe weathering description for use in Table R402.2. Also added "blended cements" to list maximum weights for concrete mixtures and added specific ACI reference "Section 4.2.3."
Table R402.2	Minimum specified compressive strength of concrete	Table R402.2	Minimum specified compressive strength of concrete	Revised table regarding porches and carport slabs to add reference to new footnote f. New footnote f permits the total air content to be reduced to not less than 3% if the specified compressive strength is increased to not less than 4000 psi.
R404	Foundation walls	R404	Foundation and Retaining Walls	Revised title of section for the inclusion of retaining walls.
R404.1	Concrete and masonry foundation walls	R404.1	Concrete and masonry foundation walls	Revised section to reference R404 as opposed to "this section" and revised to add additional reference to ACI 332. New details provided for considering walls laterally supported.

-	-	Table R404.1(1)	Top reactions and prescriptive support for foundation walls	New table(s) added to provide a prescriptive solution for laterally supporting foundation walls.
-	-	Table R404.1(2)	Maximum plate anchor-bolt spacing for supported foundation wall	
-	-	Table R404.1(3)	Maximum aspect ratio, L/W for unbalanced foundations	
Table R404.1.1(1)	Plain masonry foundation walls	Table R404.1.1(1)	Plain masonry foundation walls	Removed requirements for concrete foundation walls to create new Table R404.1.1(5) specific to concrete foundations.
Table R404.1.1(2)	8-inch masonry foundation walls with reinforcing	Table R404.1.1(2)	8-inch masonry foundation walls with reinforcing	
Table R404.1.1(3)	10-inch masonry foundation walls with reinforcing	Table R404.1.1(3)	10-inch masonry foundation walls with reinforcing	
Table R404.1.1(4)	12-inch masonry foundation walls with reinforcing	Table R404.1.1(4)	12-inch masonry foundation walls with reinforcing	
-	-	Table R404.1.1(5)	Concrete Foundation Walls	Added new table for concrete foundation wall requirements.
R404.1.3	Design required	R404.1.3	Design required	Editorial change to clarify that if "either" of the conditions specified exists, foundation walls have to be designed.
R404.4.1	Applicability Limits	R404.4.1	Applicability Limits	Requires ICF foundation walls supporting above grade concrete walls to be reinforced as required for the above grade wall immediately above or Tables R404.4(1) through R404.4(5) whichever is greater.
Table R404.4(1)	5.5-Inch Thick Flat ICF Foundation Walls	Table R404.4(1)	5.5-Inch Thick Flat ICF Foundation Walls	Soil classes in the table have updated and corrected. Reinforcement sizes and spacings have been revised in 3 cells to correlate the requirements in new Table R404.1.1(5).
Table R404.4(2)	7.5-Inch Thick Flat ICF Foundation Walls	Table R404.4(2)	7.5-Inch Thick Flat ICF Foundation Walls	
Table R404.4(3)	9.5-Inch Thick Flat ICF Foundation Walls	Table R404.4(3)	9.5-Inch Thick Flat ICF Foundation Walls	
Table R404.4(4)	Waffle Grid ICF Foundation Walls	Table R404.4(4)	Waffle Grid ICF Foundation Walls	

-	-	R404.5	Retaining walls	New section requiring retaining walls that are not laterally supported at the top and retain in excess of 24 inches of unbalanced fill, to designed to ensure stability against overturning, sliding, excessive foundation pressure and water uplift. Factor of safety of 1.5 is required against lateral sliding and overturning.
R406.1	Concrete and masonry foundation dampproofing	R406.1	Concrete and masonry foundation dampproofing	<p>Scope of section revised to apply to foundation walls that retain earth and enclose "interior spaces and floors below grade."</p> <p>Provisions related to dampproofing the parging have been reorganized for clarity.</p> <p>New exception permits elimination of parging where a material is approved for direct application to masonry.</p>
R406.2	Concrete and masonry foundation waterproofing	R406.2	Concrete and masonry foundation waterproofing	<p>Scope of section revised to apply to foundation walls that retain earth and enclose "interior spaces and floors below grade."</p> <p>Provisions for waterproofing have been reorganized for clarity.</p>
R408.1	Ventilation	R408.1	Ventilation	<p>Revised section to remove the term "cellar" since it is an undefined term.</p> <p>Permits crawl spaces to be unvented when designed by a Florida-licensed engineer or registered architect to eliminate the venting.</p>
R408.2	Openings for under-floor ventilation	R408.2	Openings for under-floor ventilation	Exceptions removed from this section and new section permitting unvented crawl spaces is covered in Section R408.3.

-	-	R408.3	Unvented crawl space	<p>Added new section to cover exceptions previously listed in Section R408.2.</p> <p>Exception that permitted the elimination of ventilation if warranted by climatic conditions and ventilation openings to the interior are provided has been deleted.</p> <p>Additional requirements were placed on the use of a vapor retarder to eliminate ventilation openings. To apply, the vapor retarder is required in combination with 1) continuously operated mechanical exhaust, conditioned air supply sized as required with perimeter wall insulated, or plenum complying with N110.ABC.3.6 if used as a plenum.</p>
R408.3	Access	R408.4	Access	Editorial revision to require the opening through a perimeter wall to be "not less than" 16" x 24."
Chapter 5: Floors				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	R502.1.1.6	Structural log members	New section providing identification requirements for structural log members.
R502.1.3.2	Bracing	R502.1.3.2	Bracing	Revised section to replace reference to the BCSI Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses with reference to TPI/WTCA BCSI.
Table R503.2.1.1(1)	Allowable spans and loads	Table R503.2.1.1(1)	Allowable spans and loads	Revised table to provide new column for needed "allowable live load" and also added footnote "I" to reference the standard APA E30 for allowable spans not provided in the table.
R503.2.2	Allowable spans	R503.2.2	Allowable spans	Revised to include reference to APA E30 for allowable plywood spans and to correlate with Table R503.2.1(1).
R504.3	Materials	R504.3	Materials	Revised section to replace AWPA "C22" standard with "U1" - the new AWPA hazard classification for wood treatment.
-	-	R506.2.4	Reinforcement Support	New section added to specifically require that where reinforcement is provided in slabs on ground, the reinforcement is to be supported to remain in place from the center to upper third of the slab for the duration of the concrete placement.

Chapter 6: Wall Construction				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	R602.1.1.3	Structural log members	Permits the top course bed joint to have ties to the vertical wall in lieu of requiring the top course of the corbel to be a header course when corbelled masonry is used to support floor or roof-framing members.
R606.3	Corbelled masonry	R606.3	Corbelled masonry	Revised section to provide clarification of the requirement for the top course of corbel when used as a header or load bearing structure.
R606.3.1	Support conditions	R606.12	Support conditions	Section relocated to Section R606.12. New Section R606.12.1 requires each masonry wythe to be supported by at least two-thirds of the wythe thickness
		R606.12.1	Bearing on support	
		R606.12.2	Support at foundation	
R606.9	Reinforcement	R606.9	Reinforcement	Permits the use of Grade 40 reinforcing steel, as well as Grade 60.
Table R606.9.2	Lap splice lengths	Table R606.9.2	Lap splice lengths	Revised table values for #6 and #7 bar. Lap length for bar size #6 was revised from 42 to 34. Lap length for bar size #7 was revised from 59 to 42.
Table R606.9.10.1	Minimum corrosion protection	Table R606.9.10.1	Minimum corrosion protection	Revised ASTM reference number for embedded sheet metal ties from ASTM A 525 to ASTM A 653.
-	-	R606.13	Masonry opening tolerances	New section permitting masonry rough openings to vary in the cross-section dimension specified on the approved plans from -1/4 inches to +1/2 inches.
R609.1.1	Grout	R609.1.1	Grout	Revised section to add requirements for uses of Type M and Type S mortar to be used as grout. In addition to the added provisions, the section also requires a slump test to each batch to assure that it meets the required 8 to 11 inch slump.
R609.2.4	Corner continuity	R609.2.4	Corner continuity	Editorial change to remove redundant wording of title from within the section.
R611.4	Waffle-grid insulating concrete form wall systems	R611.4	Waffle-grid insulating concrete form wall systems	Revised reference for minimum core dimensions.
R611.5	Screen-grid insulating concrete form wall systems	R611.5	Screen-grid insulating concrete form wall systems	
R611.4(2)	Dimensional requirements for cores and webs in waffle-grid and screen-grid ICF walls	-	-	Table deleted.

R611.7.1.2	Vertical steel	R611.7.1.2	Vertical steel	Revised section to remove requirement of lap splice of 24 inches with top horizontal reinforcement. New language clarifies hook requirement and adds reference to R611.7.1.5.
Table R611.7(4)	Spans for waffle-grid ICF wall lintels (#4 bottom bar size)	Table R611.7(4)	Spans for waffle-grid ICF wall lintels (#4 bottom bar size)	Revised table: Maximum allowable clear spans for waffle-grid ICF wall lintels - footnote g to replace reference of "R611.4(2)" with "R611.2."
Table R611.7(5)	Spans for waffle-grid ICF wall lintels (#5 bottom bar size)	Table R611.7(5)	Spans for waffle-grid ICF wall lintels (#5 bottom bar size)	
Table R611.7(6)	Spans for waffle-grid ICF wall lintels in load bearing walls (#4 bottom bar size)	Table R611.7(6)	Spans for waffle-grid ICF wall lintels in load bearing walls (#4 bottom bar size)	Revised footnote h in table for maximum allowable clear spans for waffle-grid ICF wall lintels to replace reference of "R611.4(2)" with "R611.2."
Table R611.7(7)	Spans for waffle-grid ICF wall lintels in load bearing walls (#5 bottom bar size)	Table R611.7(7)	Spans for waffle-grid ICF wall lintels in load bearing walls (#5 bottom bar size)	
Table R611.7(9)	Min. bottom bar ICF lintel reinforcement	Table R611.7(9)	Min. bottom bar ICF lintel reinforcement	Revised table: Minimum bottom bar ICF lintel reinforcement for large clear spans in load bearing walls - footnote g to replace reference of "R611.4(2)" with "R611.2" and to add information for nominal, actual and screen-grid ICF wall thicknesses.
R611.8.2	Ledger bearing	R611.8.2	Ledger bearing	Revised to add additional provisions for accommodations for multiple manufacturers of the ICF product.
R611.8.3	Floor and roof diaphragm construction	R611.8.3	Floor and roof diaphragm construction	Revised language in section for consistency with language throughout code to modify the term "wood structural sheathing" with "wood structural panel."
R613.1	General - Window Installation	R613.1	General - Window Installation	Section revised to require windows to be installed and flashed in accordance with the manufacturer's written installation instructions. Written installation instructions are required to be provided for each window.
-	-	R613.2	Window Sills	<p>New section requiring the lowest part of the clear opening of the window to be a minimum of 24 inches above finished floor where the opening of the operable window is located more than 72 inches above finished grade or the surface below.</p> <p>Exceptions address windows whose openings won't allow a 4-inch diameter sphere to pass and openings that are provided with window guards comply with ASTM F 2006 or ASTM F 2090.</p>

R613.3.1	Testing and labeling	R613.3.1	Testing and labeling	Section revised to include consistent terminology for labeling. Added term "permanent" and the requirement to provide model/series on manufacturer's label.
				The permanent label is limited to only one design pressure rating per reference standard per label.
				Added information regarding the permanent label and design pressure designation requirements. The permanent label is the default label.
				Additional detailed requirements apply.
-	-	R613.3.1.1	Testing and labeling of skylights	Added new section to provide separate section for testing and labeling requirements for skylights. Additional detailed requirements apply.
R613.3.2	Supplemental label	R613.3.2	Supplemental label	Two new exceptions added to allow a comparative analysis of operative windows and glazed doors (Exception 1) and a comparative analysis of fixed windows (Exception 2).
-	-	R613.4.5	Garage door labeling	Added new section for garage door labeling. A permanent label is required. Installation instructions are required to be provided and available on the job site as well.
R613.7.5	Installation instructions for exterior windows and doors	R613.7.5	Installation instructions for exterior windows and doors	Revised section to add reference to ASTM E2112 as an option for installation of windows and doors.
R613.8.1	Flashing, sealants and weatherstripping	R613.8.1	Flashing, sealants and weatherstripping	Section revised to require all fenestration products to be sealed at the juncture of the building wall with a sealant complying with AAMA 800 and ASTM C 920, ASTM C 1281, AA812, or other approved standard.
-	-	R613.8.2	Masonry rough openings	Added new section to address rough openings for windows and doors in masonry and references Section R606.12 for tolerances. The sealant joint is limited to 1/4 inches in width.
-	-	R615.1	Impact resistant coverings	New section providing labeling requirements for impact-resistant coverings. Provisions requiring testing at 1.5 times the design pressure have been relocated from Section R310.2.1.2.
-	-	R615.2	Labeling	New section to address labeling to include reference to section 1714.8.
-	-	R615.2.1	Permanent label	Permanent label required.
-	-	R615.2.2	Information on label	New section outlining specific information required on the label.

-	-	R615.2.3	Location of label	Requirements for location of the label are outlined for specific types of impact-resistant coverings.
-	-	R615.3	Installation	Requires installation in accordance with the manufacturer's installation instructions and Product Approval.
-	-	R616	Prescriptive requirements for window installation in wood frame construction	New section added to provide provisions for the installation of windows in building utilizing a membrane/drainage system of not more than 3 stories in height.
Chapter 7: Wall Covering				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	R702.3.7	Horizontal gypsum board diaphragm ceilings	Added new section to provide provisions for residential that have already been incorporated into the building volume to allow gypsum board to be used as a horizontal diaphragm to resist lateral shear forces.
-	-	Table R702.3.7	Shear capacity table	Added new table: Shear capacity for horizontal wood-framed gypsum board diaphragm ceiling assemblies; this table provides member spacing, shear value, and min.fastener size requirements.
-	-	R702.4.2	Cement, fiber-cement and glass mat gypsum	New section requiring the use of cement, fiber-cement, or glass mat gypsum as backers for wall tile in tub and shower areas and wall panels in shower areas.
R702.4.2	Gypsum backer	R702.3.8	Water-resistant gypsum backing board	Provisions relocated from Section R702.4.2 and R702.4.3 with editorial clarifications.
R702.4.3	Limitations	R702.3.8.1	Water-resistant gypsum limitations	
R703.1	General-exterior covering	R703.1	General-exterior covering	Revised and expanded the scope for exterior covering to address water drainage to the exterior. Exception provided for concrete and masonry walls. Exception 2 excludes compliance with the means of drainage requirements where the exterior wall envelope has been demonstrated to resist wind-driven rain in accordance with ASTM E 331 with conditions as specified.

R703.2	Weather-resistant sheathing paper	R703.2	Weather-resistant sheathing paper	Revised to require one layer of No. 15 asphalt felt complying with ASTM D 226 Type 1 or other approved water-resistive materials applied over studs or sheathing of all exterior walls.
Table R703.4	Weather-resistant siding attachment table	Table R703.4	Weather-resistant siding attachment table	Table revised to require a water-resistive barrier under all exterior siding materials. Other clarifications provided as specified in the Table.
R703.5.1	Application	R703.5.1	Application	Revised language from "weather-resistant" to "water-resistive barrier."
-	-	R703.6.5	Fenestration	Added new section to state: The juncture of exterior plaster and fenestration products shall be sealed with a sealant complying with Section R613.8.1.
R703.7.4	Anchorage	R703.7.4	Anchorage	Revised language to add the term "nominal" to the 1-inch requirement of sheathing material.
R703.7.4.2	Air space	R703.7.4.2	Air space	Revised language to add the term "nominal" to the 1-inch requirement of sheathing material. Language permitting the omission of the weather-resistant membrane or asphalt-saturated felt over water-repellant sheathing materials has been deleted.
R703.7.4.3	Mortar or grout fill	R703.7.4.3	Mortar or grout fill	Removed the 1" dimension for the space, and simply stated "air space" due to the possible misconception that the requirement is to obtain an absolute dimension. Editorial revisions to change language to "water-resistive barrier" where applicable.
R703.8	Flashing	R703.8	Flashing	Revised section to correlate with techniques common to the industry and highlighted in ASTM E2112 regarding flashing and integration with the water-resistive barrier. The revision adds installation specifics (installed in shingle-fashion). Item 1 revised to require flashing at exterior window and door openings to extend to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage.
R703.9.1	Weather-resistive barrier	R703.9.1	Water-resistive barrier	Revised title and terminology within section for consistency in code and serves as a better description of its purpose.

Chapter 8: Roof-Ceiling Construction				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R802.1.4.2.2	Lumber	R802.1.4.2.2	Lumber	New reference to ASTM D 6841 for use in developing the modification factors for temperature and humidity as specified.
R802.1.6.3	Bracing	R802.1.6.3	Bracing	Revised section to replace reference to the BCSI Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses with reference to TPI/WTCA BCSI.
-	-	R802.1.7	Structural log members	Added new section to provide grading requirements for logs used as structural members.
R803.2.2	Allowable spans	R803.2.2	Allowable spans	Revised section to add reference to APA E30.
R806.1	Ventilation required	R806.1	Ventilation required	New exception permits elimination attic venting where attic spaces are designed by a professional engineer or architect to eliminate the venting.
R806.2	Minimum area	R806.2	Minimum area	Revised section clarify that the vapor retarder is to be installed in the warm-in-winter side of the ceiling.
R806.3	Vent clearance	R806.3	Vent and insulation clearance	Revised section title and added editorial change to include "and" to clarify that the 1-inch space is required not only at the vent location but throughout enclosed attics and rafter spaces.
R806.4	Conditioned attic assemblies	R806.4	Unvented attic assemblies	Section permitting unvented attic assemblies has been rewritten for clarity. The title change clarifies that the attic space does not have to be actively conditioned but does operate at near-conditioned space temperature and humidity.
Chapter 9: Roof Assemblies				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R903.2.1	Locations	R903.2.1	Locations	Revised section by relocating provision permitting the omission of flashing at hip and ridge junctions to an exception for clarity.
R903.3	Coping	R903.3	Coping	Revised section information regarding parapet walls to removed the language, "or sealed" and that a width no less than the "cross section" (remove term thickness) of the parapet wall.

-	-	R903.4.2	One and two-family dwellings and private garages	Added new section to provide requirements for gutters, leaders and downspouts.
R904.4.2	Fasteners/Screws	R904.4.2	Fasteners/Screws	Section revised to require wood screws to conform to ASME B 18.6.1. New language permits the use of ASTM A 641, TAS 114, or ASTM B117 for demonstration of corrosion resistance.
R904.4.3	Fasteners/Clips	R904.4.3	Fasteners/Clips	Revised section corrosion resistance measure from "1.50" oz per sq.ft. to "0.90" oz per sq.ft and revised ASTM reference.
R905.1	Roof covering application	R905.1	Roof covering application	New language clarifies that roof coverings have to be designed for component and cladding loads as specified in Tables R301.2(2) and R301.2(3) unless otherwise specified.
-	-	R905.2.4.1	Wind resistance of asphalt shingles	Added new section which provides reference of asphalt shingle installation and ASTM standards for fastening.
R905.2.8.3	Crickets and saddles	R905.2.8.3	Crickets and saddles	Section revised to clarify that a cricket or saddle is required to be installed on the ridge side of any chimney "or penetration" greater than 30 inches wide "as measured parallel with the ridge."
R905.2.8.4	Sidewall flashing	R905.2.8.4	Sidewall flashing	Revised section to add "or continuous "L" flashing method as an alternate method.
R905.2.8.5	Other flashing	R905.2.8.5	Reserved	Removed content of section and added "reserved."
R905.3.3	Underlayment	R905.3.3	Underlayment	Revised to clarify that underlayment complying with ASTM D 6380 is required to be Class M.
R905.3.3.1	Slope and underlayment requirements	R905.3.3.1	Slope and underlayment requirements	Revised section to remove information regarding low-sloped roofs and add reference to FRSA/TRI manual.
R905.3.3.2	High sloped roofs	R905.3.3.2	Reserved	Deleted section as reference to the FRSA/TRI manual for slope and underlayment requirements is covered I Section R905.3.3.1.
R905.3.6	Fasteners	R905.3.6	Fasteners	Permits compliance with the FRSA/TRA manual as an alternative.
R905.4.3	Underlayment	R905.4.3	Underlayment	Revised section to add ASTM D 4869 as an additionally compliance standard of underlayment for metal shingles.
R905.4.4	Material standards	R905.4.4	Material standards	Editorial revisions for clarity.
R905.4.5	Application	R905.4.5	Application	Section revised to clarify that metal roof shingles have to be designed to meet the specified wind loads. Language requires the product approval to state the allowable uplift resistance for the attachment system.

-	-	R905.6.7	Resistance to uplift	New section added to clarify that slate and slate-type shingles have to be designed to meet the specified wind loads. Language requires the product approval to state the allowable uplift resistance for the attachment system.
Table R905.8.5	Wood shake materials	Table R905.8.5	Materials - wood shake	Revised table for preservative-treated taper sawn southern pine material to revise referenced standard to new AWPA "U1" standard.
R905.10.2	Slope	R905.10.2	Slope	Revised section to reorganize into items 1-3 for slope requirements. Item #2 provides additional information regarding lap sealant, which assists to clarify that lap sealant installation shall comply with manufacturer's instructions
R905.10.3	Material standards	R905.10.3	Material standards	New language clarifies that metal-sheet roof coverings are to be naturally corrosion resistant or provided with corrosion resistance in accordance with Table R905.4.4.
R905.12.2	Material standards	R905.12.2	Material standards	Revised section to remove RMA reference standards. These standards are no longer active or maintained.
R905.13.2	Material standards	R905.13.2	Material standards	Revised section to add reference to ASTM D 6754 and ASTM D 6878 for compliance of thermoplastic single-ply roofing.
R905.15.2	Material standards	R905.15.2	Material standards	Revised section to add reference to ASTM D 6694 for compliance of liquid-applied coatings.
-	-	R906.2	Material standards	Added new section and table to provide requirements for physical properties of roof insulation used as above deck components of roof assemblies.
-	-	Table R906.2	Material standards for roof insulation	
Chapter 10: Chimneys and Fireplaces				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R1001	Masonry chimneys	R1001	Masonry fireplaces	Revised title of section per re-organization of chimney and fireplace information in this chapter. Purpose was to organize logically from the ground up.
R1003.12	Clay flue lining (installation)	-	-	Deleted section due to redundancy.
R1006	Factory built chimneys	R1002	Masonry heaters	Revised title of section(s) per re-organization of chimney and fireplace information in this chapter.
R1006.1	Masonry heaters installation	R1002.1	Masonry heaters definition	Revised section to add new information to define masonry heaters.
-	-	R1002.2	Masonry heaters installation	Added new section to provide installation requirements for masonry heaters.

-	-	R1002.3	Masonry heaters footings and foundation	Added new section to provide footings and foundation requirements for masonry heaters.
-	-	R1002.4	Masonry heaters - seismic	Added new section as "reserved."
-	-	R1002.5	Masonry heaters clearance	Added new section to provide clearance requirements for combustible materials and added exceptions 1 and 2.
R1001	Masonry fireplaces	R1003	Masonry chimneys	Revised title of section per re-organization of chimney and fireplace information in this chapter.
R1001.1	Masonry chimney definition	R1003.1	Masonry chimney definition	Revised section previously titled "general" to provide a title reflective of section changes.
-	-	R1003.2	Masonry chimney footings and foundations	Added new section to provide footings and foundation requirements for masonry chimneys previously not provided.
-	-	R1003.10.1	Masonry veneer chimneys	Added section to address veneer requirements for chimneys.
Table R1001.11(2)	Net cross-sectional area of square and rectangular flue sizes	Table R1003.14(2)	Net cross-sectional area of square and rectangular flue sizes	Relocated table and revised to designate the flue liners by their nominal exterior dimension.
R1001.17.1	Flue area - Option 1	R1003.15.1	Flue area - Option 1	Revised section to add reference to "cross-sectional areas of clay flue liners provided by Tables R1001.11(1) and R1001.11(2)." By adding methodology used in Option 2, to also be used in Option 1, the options are consistent.
R1001.16	Chimney fire blocking	R1003.19	Chimney fire blocking	Revised section to removed requirement for specific 1 inch space depth and to add that blocking shall be self-supporting.
R1002	Masonry heaters	R1006	Factory-built chimneys	Revised title of section per re-organization of chimney and fireplace information in this chapter.
R1002.3	Solid-fuel appliances	R1005.3	Solid-fuel appliances	Revised section to add reference to Type HT requirements. Appliances are required to be marked Type HT, Residential Type and Building Heating Appliance Chimney information provided.
R1005	Factory-built chimneys	R1006	Exterior air supply	Revised title of section per re-organization of chimney and fireplace information in this chapter.

Chapter 13: General Mechanical System				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
M1302.1	General	M1302.1	General	Revised section to restate intent for clarity and to add that appliances be specifically listed for the application in which they are used. This revision will assist to clarify the requirement and possible misapplication of a product.
M1303.1	Label information	M1303.1	Label information	Revised section to add items 5 requiring that the labeling include maintenance instructions and equipment efficiency.
M1305.1	Appliance access for inspection service, repair and replacement	M1305.1	Appliance access for inspection service, repair and replacement	Revised section to clarify the location of the mandatory 30 inches of maintenance space by adding that it's 30 inches deep and 30 inches wide in front of the control side to service an appliance.
M1305.1.4	Appliances under floors	M1305.1.4	Appliances under floors	New exception permits the passageway to be unlimited in length provided it is unobstructed and not less than 6 feet high and 22 inches wide.
M1305.1.4.3	Electrical requirements	M1305.1.4.3	Electrical requirements	Revised terminology for consistency in code from "lighting fixture" to "luminaires."
M1307.3.1	Ground mounted units	-	-	Deleted section.
M1307.4	Hydrogen generating and refueling operations	M1307.4	Hydrogen generating and refueling operations	Revised section to delete specific requirements limiting number of hydrogen-fueled vehicles and/or floor area. The intent of this limitation is covered with the intent of sizes and openings in subsequent sections.
M1307.4.1	Natural Ventilation	M1307.4.1	Natural Ventilation	Revised section to add the limited square footage of 850 and also added maximum rated output capacity.
M1307.4.1.1	Two openings	M1307.4.1.1	Two openings	Revised sections editorially to clarify opening requirements.
M1307.4.2	Mechanical ventilation	M1307.4.2	Mechanical ventilation	Revised section to require that equipment with ignition sources will be located such that the source of ignition is below the mechanical ventilation outlets.
-	-	M1308.3	Foundations and supports	Added new section to include equipment installations per this chapter with those requiring foundation and supports to protect from problems associated with grade level installations.

Chapter 14: Heating and Cooling Equipment				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
M1406.2	Clearances	M1406.2	Clearances	Revised terminology for consistency in code from "lighting figure" to "luminaries."
M1410.1	General	M1410.1	General	Revised section to add reference ASTM E 1509, which specifically addresses pellet fuel-burning appliances.
M1411	Refrigeration cooling equipment	M1411	Heating and cooling equipment	Revised section title.
M1411.3.1	Auxiliary and secondary drain systems	M1411.3.1	Auxiliary and secondary drain systems	Revised section to add necessary prescriptive language that will provide proper discharge for condensing liquid. Revised items 3 and 4 to add UL 508 reference standard for detection devices.
-	-	M1411.3.1.1	Water level monitoring devices	Added new section to provide requirements to prevent overflow due to stoppages that occur at the site of the drain hole.
M1411.4	Auxiliary drain pan	M1411.4	Auxiliary drain pan	Added new section and exception (and renumbered subsequent sections) to add requirement for auxiliary drain pan.
Chapter 15: Exhaust Systems				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	M1501	General	Added new section titled "General" and renumbered subsequent sections.
-	-	M1501.1	Outdoor discharge	Added new section to address where exhausts must (and shall not) terminate.
M1501.1	General - clothes dryer exhaust	M1502.1	General - clothes dryer exhaust	Revised general section to divide into subsections for clarity.
M1501.1	General - clothes dryer exhaust	M1502.2	Clothes dryer exhaust duct termination	Revised section to add requirement that exhaust terminate not less than 3 feet in any direction from openings into buildings.
M1501.1	General - clothes dryer exhaust	M1502.4	Clothes dryer transition ducts	Created new subsection from initial general information to provide transition duct requirements and reference standards.
M1501.1	General - clothes dryer exhaust	M1502.5	Clothes dryer duct construction	Created new subsection from initial general information to provide duct construction requirements and reference standards.

M1501.3	General - clothes dryer exhaust	M1502.6	Clothes dryer duct length	Revised section title from "length limitation" to "duct length" for clarity of section intent and relocated information to new section. In addition, the exception for a booster fan was eliminated due to the fans not having a listing and labeling required for installation.
M1506.2	Mechanical ventilation recirculation of air	M1506.2	Mechanical ventilation recirculation of air	Revised section to add and clarify that moisture laden air must also be discharged to outdoors.
Chapter 16: Duct System				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
M1601.1.1	Duct insulation	M1601.1.1	Duct insulation	Revised to add this section (was reserved) to provide reference to N1110.ABC.2 for duct insulation requirements.
M1601.1.2	Underground duct systems	M1601.1.2	Underground duct systems	Revised section to relocate information from M1601.17 FBC-R '04 to provide underground duct system requirements in section for construction.
1601.6.2	Flexible air ducts and flexible air connectors	M1601.2	Flexible air ducts and flexible air connectors	Relocated from Section 1601.6.2.
M1601.12	Condensation	M1601.3.9	Condensation	Relocated section to "duct construction" under M1601.6.
M1601.13	Location	M1601.3.10	Location	Relocated section to "duct construction" under M1601.
M1601.14	Mechanical protection	M1601.3.11	Mechanical protection	Relocated section to "duct construction" under M1601.
M1601.15	Weather protection	M1601.3.12	Weather protection	Relocated section to "duct construction" under M1601.
M1601.16	Registers, grills and diffusers	M1601.3.13	Registers, grills and diffusers	Relocated section to "duct construction" under M1601.
M1601.4.1 - M1601.4.5	Registers, grills and diffusers	-	-	Deleted "reserved sections M1601.4.1 - 1601.4.5.
M1601.9	Cavities of the building structure	M1601.9	Cavities of the building structure	Revised section to add reference to N1110.ABC.2.1 referencing appropriate section for energy provisions in residential code.
M1601.11	Air distribution systems	M1601.11	Air distribution systems	Revised section to add reference to N1110.ABC.2.1 referencing appropriate section for energy provisions in residential code.
Chapter 17: Combustion Air				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
M1703.2.1	Size of openings	M1703.2.1	Size of openings	Revised section to provide inclusion of this section for provisions for combustion air when taken from direct opening to the outside and not just where "communicating" by means of ducting.

Chapter 19: Special Fuel-Burning Equipment				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	M1904	Gaseous Hydrogen Systems	Added new section to provide users with guidance to applicable codes and regulations pertaining to gaseous hydrogen systems and their installations.
-	-	M1904.1	Installation	
Chapter 20: Boilers and Water Heaters				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
M2006.3	Pool heater valves	M2006.3	Pool heater valves	Revised section to eliminate language regarding pressure relief valves used for this application since the national standard requires an open system and thereby eliminating the need for a pressure relief valve.
Chapter 21: Hydronic Piping				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
Table M2101.1	Hydronic piping materials	Table M2101.1	Hydronic piping materials	Revised table to add footnote 1 (above ground applications) to cross-linked Polyethylene (PEX).
				Revised PEX Fittings material to remove the term "plastic" from the material title. Also revised approved joints and fittings and added two applicable ASTM reference standards.
				Added new material Polypropylene (PP) since now allowed in hot and cold water distribution piping and radiant heating systems.
Table M2101.9	Hanger spacing intervals	Table M2101.9	Hanger spacing intervals	Added new material Polypropylene (PP) to the table since now allowed in hot and cold water distribution piping and radiant heating systems.
M2103.1	Piping materials	M2103.1	Piping materials	Revised section to add "or polypropylene (PP)" to provided list of materials.
M2103.2	Piping joints for floor heating systems	M2103.2	Piping joints for floor heating systems	Revised section to add item number 5 to include cold expansion, compression and insert fitting as installation methods.
M2104.2	Piping joints for low temperature piping	M2104.2	Piping joints for low temperature piping	Revised section to add item number 3 to clarify that polypropylene tubing shall be installed in accordance with manufacturer's instructions.

Chapter 22: Special Piping and Storage Systems				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	M2201.7	Tanks abandoned or removed	Added new section to require removal of abandoned exterior fill and vent piping due to potential hazards. Removal shall comply with the Florida Fire Prevention Code.
Chapter 24: Fuel Gas				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
G2401.1	General	G2401.1	General	Revised section to remove exception.
2403	Definitions: Approved	2403	Definitions: Approved	Language revised from "approved by the code official or authority having jurisdiction" to "acceptable to the code official or authority having jurisdiction."
2403	-	2403	Definitions: Connector, Appliance	New definition added defining "appliance connector."
2403	Definitions: Connector	2403	Definitions: Connector, chimney or vent	The term "connector" was changed to "connector, chimney or vent" in recognition of the specific function of that type of connector.
2403	-	2403	Definitions: Dwelling unit	New definition for "dwelling unit" added. Definition is consistent with the FBCB definition of "dwelling unit."
2403	Definitions: Fuel gas	2403	Definitions: Fuel gas	Hydrogen gas has been removed from the definition of "fuel gas" due to lack of being used in the code.
2403	Definitions: Mechanical exhaust system	2403	-	Definition of mechanical exhaust system has been deleted.
2403	Definitions: Point of delivery	2403	Definitions: Point of delivery	Definition of point of deliver, for undiluted LPG systems is revised to be the outlet of the first regulator that reduces the pressure to 2 psig or less.
2403	Definitions: Regulator, medium-pressure (MP Regulator)	2403	Definitions: Regulator, medium-pressure (MP Regulator)	Definition is revised to define MP Regulators as those that reduce the pressure from the range of greater than 0.5 psig and less than or equal to 5 psig.
2403	-	2403	Definitions: Vent piping	New definition of vent piping added. Subcategories include "breather" and "relief."
G2404.3	Listed and labeled	G2404.3	Listed and labeled	New language added requiring appliances to be listed and labeled for the application in which they are used.

-	-	G2404.10	Auxiliary drain pan	New section requiring category IV condensing appliances to be provided with auxiliary drain pans where damage to any building component could occur as a result of stoppage in the condensate drainage system. Auxiliary drain pan is not required for appliances that automatically shut down.
-	-	2405.3	Engineered wood products	New section prohibiting cuts, notches and bored holes in engineered wood products except where permitted by the manufacturer's recommendations.
G2406.2	Prohibited locations	G2406.2	Prohibited locations	Section revised and reorganized for clarity and consistency in interpretation.
2407.11	Combustion air ducts	2407.11	Combustion air ducts	Item 1 revised to clarify that the "or other material" is to have equivalent corrosion resistance, strength, and rigidity as galvanized steel. Exception to item 7 has been revised to remove the requirement that the appliance be installed in accordance with its listing.
2414.5.3	Corrugated stainless steel tubing	2414.5.3	Corrugated stainless steel tubing	Section revised to simply require corrugated stainless steel tubing to be listed in accordance with ANSI LC 1/CSA 6.26.
-	-	2414.6.3	Regular vent piping	New section requiring plastic pipe, tubing and fittings used to connect regulator vents to remote vent terminations to be PVC conforming to UL 651. PVC vent piping is prohibited from being installed indoors.
G2415.1	Prohibited locations	G2415.1	Prohibited locations	Section revised to prohibit piping installed downstream of the point of delivery from extending through any townhouse unit other than the unit served.
G2415.5	Protection against physical damage	G2415.5	Protection against physical damage	Revised section from 1" to "1 1/2" conservative distance of holes from nearest edge to protect against nail and screw punctures.
G2415.6	Piping in solid floors	G2415.6	Piping in solid floors	"Casing" changed to "conduit" throughout section. New language added that requires the conduit to be vented above grade to the outdoors and installed to prevent the entry of water and insects.
2417.6.3	Test for leakage	2417.6.3	Leak check	"Test" changed to "check."

G2420.1.1	Valve approval	G2420.1.1	Valve approval	Section revised to refer to Table 409.1.1 standards applicable to shutoff valves per the pressure and application. New Table 409.1.1 specifies the applicable reference standards for shutoff valves based on the pressure and application of the valve.
		Table G2420.1.1	Manual gas valve standards	
G2421.1	Pressure regulators	G2421.1	Pressure regulators	Section revised to require line gas pressure regulators to be listed as complying with ANSI Z21.80.
G2421.3	Venting of regulators	G2421.3	Venting of regulators	Section revised to simply require vents for regulators to be vented directly to the outdoors for clarity. Vent is required to be designed to prevent the entry of insects, as well as water and foreign objects.
-	-	G2421.3.1	Vent piping	New section added primarily to specify the conditions under which vent lines can, and cannot, be manifolded. Requires vent piping serving relief vents to be run independently to the outdoors. Vent piping serving only breather vents is permitted to be connected in a manifold arrangement as applicable.
G2422.1	Connecting appliances	G2422.1	Connecting appliances	<p>Scope revised to limit the application of this section to connections to the piping system, "except as required by Section 411.1.1. See new Section 411.1.1.</p> <p>New Item 2 has been added recognizing the use of CSST as a piping material for connecting appliances to the piping system.</p> <p>Item 3 (Item 4 in 2007 Code) has been revised to refer to ANSI Z21.24 instead of the manufacturers installation instructions for appliance connectors.</p> <p>New Item 8 permits listed and labeled outdoor appliance connectors in compliance with ANSI Z21.75/CSA 6.27.</p>
G2422.2	Appliance fuel connectors	G2422.1.2	Connector installation	Revised entire section G2422.2 to provide new sections G2422.1.2 through G2422.1.2.4 to provide clarity by providing specific sections and to allow for applicable exceptions to become relevant to its appropriate section.
		G2422.1.2.1	Maximum length	
		G2422.1.2.2	Minimum size	
		G2422.1.2.3	Prohibited locations and penetrations	
		G2422.1.2.4	Shutoff valve	

-	-	G2426.7	Protection against physical damage	New section requiring protection of vents with shield plates in concealed locations where a vent installed through holes and notches in studs, joists, and rafters that are less than 1.5 inches from nearest edge of the member.
-	-	G2427.3.5	Above-ceiling air-handling spaces	New section providing specific requirements for venting systems that pass through an above-ceiling air-handling space or nonducted portion of an air-handling system.
G2427.4.2	Special gas vent	G2427.4.2	Special gas vent	Installation in accordance with the listing has been deleted.
G2427.5.5.3	Unsafe chimneys	G2427.5.5.3	Unsafe chimneys	Provisions for repairing, rebuilding, relining, or replacing a vent or chimney revised to refer to NFPA 211.
G2427.6.4	Offsets	G2427.6.9.2	Vent offsets	Scope of section revised to state "Type B and L vents sized in accordance with Item 2 or 3 of Section 503.6.9.1." "Equipment" changed to "appliances."
G2427.6.5	Gas vent termination	G2427.6.4	Gas vent termination	Item 1 has been reorganized into 2 items for clarity.
G2427.7.2	Cold climate	G2427.7.2	Cold climate	"Equipment" changed to "appliances." New language defines cold climate as regions where the 99-percent winter design temperature is below 32° F.
G2427.10.2.3	Residential-type appliance connectors	G2427.10.2.3	Residential-type appliance connectors	Includes Category I appliances in the scope of this section.
G2427.10.9	Length of vent connector	G2427.10.9	Length of vent connector	Language permitted "Except as provided for in Section G2427.10.3" has been deleted and replace with "except for engineered systems."
G2427.10.14	Passage through ceilings, floors or walls	G2427.10.14	Passage through ceilings, floors or walls	Language prohibiting vent connectors from passing through any ceiling floor or fire-resistance-rated wall has been deleted. Section revised to prohibit single-wall metal pipe connectors from passing through any wall, floor or ceiling except as permitted in Section G2427.7.4 and G2427.10.15. The exception for vent connectors made of listed Type B or Type L vent material has been deleted.
G2428.2.7	Liner system sizing	G2428.2.7	Liner system sizing and connections	New language added that requires connections between chimney liners and listed double-wall connectors to be made with listed adapters designed for such purpose.

G2428.2.9	Chimney and vent location	G2428.2.9	Chimney and vent location	<p>New language added stating that a Type B vent is not considered to be exposed to the outdoors where it passes through an unventilated enclosure or chase insulated to a value of not less than R8.</p> <p>Installation in accordance with the listing has been deleted from the exception.</p>
-	-	G2428.2.13	Draft hood conversion accessories	New section that requires draft hood conversion accessories for use with masonry chimneys venting listed Category I fan-assisted appliances to be in accordance with the listing and the manufacturer's installation instructions.
-	-	G2428.3.9.1	Tee and wye fittings	New section requiring tee and wye fittings connected to a common vent to be considered as part of the common vent and constructed of materials consistent with the common vent.
G2428.3.15	Liner system sizing	G2428.3.15	Liner system sizing and connections	<p>New language added that requires where double-wall connectors are required, tee and wye fittings used to connect to the common vent chimney liner to be listed for double-wall fittings.</p> <p>New language added that requires connections between chimney liners and listed double-wall fittings to be made with listed adapters designed for such purpose.</p>
G2428.3.16	Chimney and vent location	G2428.3.16	Chimney and vent location	<p>New language added stating that a Type B vent is not considered to be exposed to the outdoors where it passes through an unventilated enclosure or chase insulated to a value of not less than R8.</p> <p>Installation in accordance with the listing has been deleted from the exception.</p>
-	-	G2428.3.19	Draft hood conversion accessories	New section that requires draft hood conversion accessories for use with masonry chimneys venting listed Category I fan-assisted appliances to be in accordance with the listing and the manufacturer's installation instructions.
G2436.1	General for vented wall furnaces	G2436.1	General for vented wall furnaces	Revised section(s) to delete ANSI Z21.49 reference standard since its no longer used to design gas space heating appliances.
G2437.1	General for floor furnaces	G2437.1	General for floor furnaces	

G2445.7	Unvented log heaters	G2445.7	Unvented decorative room heaters	Revised section title and content to add "decorative room" to description.
G2445.7.1	Ventless firebox enclosures	G2445.7.1	Ventless firebox enclosures	Added new section to provide listed firebox enclosure for gas-fired unvented decorative room heaters.
G2446.1	General for vented room heaters	G2446.1	General for vented room heaters	Revised section to delete ANSI Z21.49 reference standard since its no longer used to design gas space heating appliances.
G2451.2	Support for infrared radiant heaters	G2451.2	Support for infrared radiant heaters	Revised section to remove the ambiguous terms "safely and adequately" due to inability to enforce.
Chapter 25: Plumbing Administration				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
P2503.6	Water-supply system testing	P2503.6	Water-supply system testing	Revised section requirement to add a duration to the test specified. A 15 minute duration provides consistency with other testing as well as provides sufficient time to determine leakage.
Chapter 26: General Plumbing Requirements				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
P2601.1	General Scope	P2601.1	General Scope	Revised section to add that any systems or equipment not addressed in this chapter shall comply with provisions of the Florida Building Code, Plumbing.
P2601.2	Connection	P2601.2	Connection	Revised section to add "sanitary" for description of connection to drainage system. Also revised language to state "required by" as opposed to "provided by" Chapter 8.
P2604.1	Trenching and bedding	P2604.1	Trenching and bedding	Revised language in this section to clarify requirement for solid and continuous load-bearing support in trenches for piping.
Table P2605.1	Piping support	Table P2605.1	Piping support	Added new material Polypropylene (PP) to the table (1" and 1 1/4") since now allowed in hot and cold water distribution piping and radiant heating systems.

Chapter 27: Plumbing Fixtures				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
Table P2701.1	General Scope	Table P2701.1	General Scope	Revised table to add appropriate CSA reference standard to several materials to allow for an alternate means of compliance. Revised table item "plumbing fixture waste fittings" to add reference standard ASME A112.18.2.
P2702.2	Material for tail pieces and traps	P2702.2	Waste fittings	Revised section title. Revised scope to remove specifications but to add reference standards for ASME, ASTM, and CSA, which provide details of deleted specifications and requirements.
P2705.1	General installation	P2605.1	General installation	Revised section item number 4 to revise the term "accessible" to "usable" as this term is misused in this context. The intent is to make the fixture usable for the occupant.
P2708.1	Showers - general	P2708.1	Showers - general	Revised section to provide installation dimension for replacement receptor. Section now provides dimensional information for tub replacement showers and new shower installs as well as criteria for the minimum width of shower-compartment access doors.
-	-	P2708.1.1	Access	Added new section to provide specific requirement for minimum clear width of shower opening of 22 inches.
P2708.3	Shower control valves	P2708.3	Shower control valves	Revised section to add CSA B125 for additional design alternative. Revised language to clarify that multiple gang showers are also covered in this section. Added statement that in-line thermostatic valves are not considered to a compliant device for this section/application.
-	-	P2708.4	Hand-held showers	Added new section to provide referenced standards for the fittings and backflow devices for handheld showers.
P2709.2	Lining required	P2709.2	Lining required	Revised section to add ASTM D4551 reference standard.
-	-	P2709.2.1	PVC sheets	Added new section (and renumbered subsequent sections) to add PVC sheets, already common to industry use, to allowable materials and the requirements for this material.

-	-	P2709.2.2	Chlorinated polyethylene (CPE) sheets	Added new section (and renumbered subsequent sections) to add chlorinated polyethylene (CPE) sheets, already common to industry use. CPE is now an allowable materials section also adds requirements for this material.
-	-	P2713.3	Bathtub and whirlpool bathtub valves	Added new section to clarify provisions for protection of occupants from scalding. New section provides temperature limit of 120 degrees and ASSE compliance standard.
P2719.1	Minimum size	P2719.1	Floor drains	Revised section title and content to remove specification for free area of strainer since it's contained in ASME. Also added requirement for access to drain and cleaning capability.
P2720.1	Access panel	P2720.1	Access panel	Revised section to clarify required access opening size, location, and opening cover for the purpose of accessing the pump for maintenance and replacement.
-	-	P2721.2	Bidet tempered water supply	Added new section to clarify provisions for temperature limit of 110 degrees and ASSE 1070 compliance standard.
P2722.1	General - fixture fitting	P2722.1	General - fixture fitting	Revised section to add CSA B125 for additional design alternative.
P2722.2	Hot water	P2722.2	Hot water	Revised section to clarify installation of hot water designation on the left hand side when facing the outlet. Also revised exception to add CSA B125 standard.
-	-	P2722.3	Hose-connected outlets	Revised section (and renumbered subsequent section) to add CSA B125 for additional standard and ASME referenced standard for backflow device compliance for hose-connected outlets.
Chapter 28: Water heaters				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
P2801.4	Prohibited locations	P2801.4	Prohibited locations	Revised section to remove exceptions and to rely on the reference to Chapter 20 for boilers and water heaters.
P2801.5.1	Pan size and drain	P2801.5.1	Pan size and drain	Revised section to add requirement for piping materials of drain pan to comply with Table P2904.5.

Chapter 29: Water Supply and Distribution				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
Table P2902.2	Application for backflow preventers	Table P2902.2	Application for backflow preventers	Revised table to add the CSA B64 standard to the "applicable standards" portion of the table to enable additional compliant standard/manufacturer.
-	-	P2902.2	Plumbing fixtures	Added new section and renumbered subsequent sections. The addition provides a specific reference standards for backflow prevention devices for use in plumbing fixture fittings.
P2902.2.2	Atmospheric-type vacuum breakers	P2902.3.2	Atmospheric-type vacuum breakers	Revised section to add the CSA B64 standard to enable additional compliant standard/manufacturer.
P2902.2.4	Pressure-type vacuum breakers	P2902.3.4	Pressure-type vacuum breakers	
P2902.2.5	Reduced pressure principle backflow preventers	P2902.3.5	Reduced pressure principle backflow preventers	
P2902.2.6	Double check-valve assemblies	P2902.3.6	Double check-valve assemblies	
P2903.4	Thermal expansion	P2903.4	Thermal expansion control	Revised title of section and section content to provide scope. Remaining content of existing section was divided into subsequent new subsections for clarity. (see below)
-	-	P2903.4.1	Pressure-reducing valve	Added new subsection, which updates to require either an internal bypass feature in the pressure-reducing valve or a relief valve or expansion tank.
-	-	P2903.4.2	Backflow prevision device or check valve	Added new subsection, which applies to storage-type water-heating systems where expansion concerns are minimal as compared to the P2903.4.1.
P2903.8	Parallel water distribution system manifolds	P2903.8	Gridded and parallel water distribution system manifolds	Revised section title and section content to reflect the addition of the gridded water distribution option added for alternate design method.
P2903.8.2	Minimum size	P2903.8.2	Minimum size	Revised section to add specifications for length of distribution line and pressure at the meeting to determine minimum size. This is consistent with the <i>Building</i> code.
P2903.8.3	Maximum length	-	-	Deleted section information and moved to new Minimum Size section P2903.8.2.
-	-	P2903.9.4	Valve requirements	Added new section for valve requirements and standards (ANSI/NSF 61) not previously provided.

P2904.3	Polyethylene plastic piping installation	P2904.3	Polyethylene plastic piping installation	Revised section to remove joining methods and to add reference to subsequent subsections in the chapter addressing the methods in greater detail.
-	-	P2904.3.1	Heat-fusion joints	Added new section to provide heat-fusion joining requirements and reference to ASTM D 2657.
-	-	P2904.3.2	Mechanical joints	Added new section to provide mechanical joining according to manufacturer's instructions.
-	-	P2904.4.1	Dual check-valve-type backflow preventer	Added new section for valve requirements and CSA B64 standard not previously provided.
P2904.4	Water service pipe	P2904.4	Water service pipe	Revised section to add information necessary because many areas have working water service pressures in excess of 160 psi. Additions to this section aids to eliminate incorrect selection of piping materials.
Table P2904.4.1	Water service pipe	Table P2904.4.1	Water service pipe	Revised table to add the CSA appropriate standard portion of the table to enable additional compliant standard/manufacturer. Added "Polypropylene (PP) plastic pipe or tubing" and "Cross-linked polyethylene/aluminum/high density polyethylene (PEX-AL-HDPE)" reference standard ASTM F1986 standard.
P2904.5.1	Under concrete slabs	P2904.5.1	Under concrete slabs	Revised section to include the allowance of Polypropylene (PP) pipe or tubing.
Table P2904.5 and Table P2904.6	Water distribution pipe and pipe fittings	Table P2904.5 and Table P2904.6	Water distribution pipe and pipe fittings	Revised table to add the CSA appropriate standard portion of the table to enable additional compliant standard/manufacturer. Added Polypropylene (PP) plastic pipe or tubing and reference standard ASTM F1986 standard.
P2904.9.1.2	CPVC plastic pipe	P2904.9.1.2	CPVC plastic pipe	Revised section to add requirement for primer application; and, also added exceptions 1-4 listing where primer is not
P2904.9.1.3	PVC plastic pipe	P2904.9.1.3	PVC plastic pipe	Revised section to add language to add the term "purple" to identify the type of primer required.
P2904.9.1.4.2	Mechanical joints	P2904.9.1.4.2	Mechanical joints	Revised section to add ASTM 877 standard to cover requirements, test methods and markings for crosslinked polyethylene plastic.
-	-	P2904.10	Polypropylene (PP) plastic	Added section to provide polypropylene (PP) plastic scope and references to sections in this chapter for requirements.
-	-	P2904.10.1	Heat-fusion joints	Added new section to provide heat-fusion joining requirements and reference to ASTM D 2657.

-	-	P2904.10.2	Mechanical joints	Added new section to add requirement to provide mechanical joining according to manufacturer's instructions.
Chapter 30: Sanitary Drainage				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
P3002.1	Piping within buildings	P3002.1	Piping within buildings	Revised section to add reference to additional Table P3002.2.
-	-	Table P3002.1(1)	Above-ground drainage and vent pipe	Tables P3002.1 and P3002.2 were deleted and replaced with Tables P3002.1(1), P3002.1(2), P3002.2 and P3002.3 to reorganize to a more user-friendly set of tables. The additional tables provide primer information, and deleted obsolete material uses.
-	-	Table P3002.1(2)	Underground building drainage and vent pipe	
-	-	Table P3002.2	Building sewer pipe	
-	-	Table P3002.3	Pipe fittings	
P3002.2	Building sewer	P3002.2	Building sewer	Revised section to remove "cast iron pipe" as it is not suitable for forced main sewer piping.
P3002.3	Fittings	P3002.3	Fittings	Revised section to add new reference to added table P3002.4.
P3003.3 - P3003.4.4	Joint requirements	-	-	These sections were deleted to accommodate new sections P3003.3 - P3003.18.
-	-	P3003.3 - P3003.17	Joints and connections	Revised entire section to reorganize information. Previously, not all materials were listed and information was not organized in a consistent manner. This reorganization provides each listed material, its reference standards and applicable requirements.
-	-	P3003.18	Joints and connections	Relocated information from P3003.4 section to address Joints between different materials and expanded information into subsections to address each specific material.
P3005.2.2	Spacing	P3005.2.2	Spacing	Revised section to provide consistency of requirement by adding a method of measurement from the upstream entrance of the cleanout.
P3005.2.4	Change of direction	P3005.2.4	Change of direction	Revised language to clarify requirements for a cleanout where there is a change of direction greater than 45 degrees.

P3005.2.7	Building drain and building sewer junction	P3005.2.7	Building drain and building sewer junction	Revised section to remove the location description of "close proximity" for the cleanout requirement and add specific language for size and location.
P3005.2.9	Cleanout size	P3005.2.9	Cleanout size	Deleted section content and related table which lists sizes that do not exist. Section was re-written for appropriate information regarding nominal sizes. Exception also added P-trap information not previously provided.
Table P3005.2	Cleanout size	-		
Chapter 31: Vents				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
-	-	P3102.1	Required vent extension	Replaced sections P3102.1-P3102.3 with revised sections in an organized format to include requirement, installation and size for vent stacks. Reorganization also removes ambiguous
-	-	P3102.2	Installation	
-	-	P3102.3	Size	
P3105.2	Fixture drains	P3105.2	Fixture drains	Revised section to remove exception of Section 3105.3. This section previously allowed the creation of an S-trap and was removed.
P3105.3	Vertical leg for waste drains	-	-	Removed section and Figure P3105.3 due to the configuration of an S-trap.
P3108.1	Wet vent permitted	P3108.1	Horizontal wet vent permitted	Revised section title to add "horizontal" to vent description. Revised section to remove reference to figures P3108.1(1), P3108.1(2) and P3108.1(3).
-	-	Figure(s) P3108.1(1) - P3108.2(2)	Venting risers	Deleted figures since they are non-mandatory and could be confused as the "only" way to achieve compliance.
P3108.2	Vent connections	P3108.2	Vent connections	Revised section to add language to clarify intent by distinguishing requirements for dry vent and wet vent connections.
P3108.3	Size	P3108.3	Size	Revised section to add additional information on sizing to clarify requirements of dry vent and wet vent.
P3108.4	Vertical wet vent	P3108.4	Vertical wet vent permitted	Revised section title for editorial change to add "permitted" and added wet-vented to describe appropriate connection since only wet-vented fixture drains are required to connect independently to the vertical wet vent.
-	-	P3108.5	Trap weir to wet vent distances	Added new section to clarify the maximum permitted distances from the trap weirs to vent fittings.
P3109.2	Stack installation	P3109.2	Stack installation	Revised section to remove reference to Figure P3109.2 and to add clarification that offsets are permitted below the lowest fixture drain connection and above the highest fixture drain connection.

-	-	Figure P3109.2	Wet stack venting riser	Deleted figure since it is non-mandatory and could be confused as the to the "only" way to achieve compliance.
P3109.3	Stack vent	P3109.3	Stack vent	Revised section to correct possible misinterpretation that the stacks must be the same size. The revision modifies the language from "equal to" to "not less than."
P3110.4	Waste stack size	P3110.4	Waste stack size	Revised section to remove reference to Figure P3110.4.
-	-	Figure P3110.4	Circuit vent riser	Deleted figure since it is non-mandatory and could be confused as the to the "only" way to achieve compliance.
P3111.2	Installation	P3111.2	Installation	Revised section to remove listed items applicable to vent systems to avoid possible conflicts with provided list in Section 912.
Chapter 32: Traps				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
P3201.2	Trap seals and trap seal protection	P3201.2	Trap seals and trap seal protection	Revised section to move exception to main section since it provides additional requirements, not an exception.
P3201.5	Prohibited trap designs	P3201.5	Prohibited trap designs	Revised section, item number 3 to remove reference to Section P3105.3 since this section was deleted from FBCR.
P3201.6	Number of fixtures per trap	P3201.6	Number of fixtures per trap	Revised section to remove ambiguous statement "as close as possible to fixture outlet" and add specific "30-inches measured from the center line of fixture outlet."
Table P3201.7	Size of traps and trap arms for plumbing fixtures	Table P3201.7	Size of traps and trap arms for plumbing fixtures	Revised table to correct shower trap size from 2 1/2 to 1 1/2 to match plumbing code. Also modified table to add information for minimum trap sizes based on flow rates for shower heads.
Chapter 41: Swimming Pools				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R4101.2	Main outlet	R4101.2	Main suction outlet	Revised title to add the term "suction."
R4101.3	Mechanical requirements	R4101.3	Mechanical requirements	Revised section to replace term "plumbing" with "process piping."
R4101.6.1	Conformance standard	R4101.6.1	Conformance standard	Revised section to provide additional conformance standard: ANSI/APSP 7.
R4101.6.3	Water velocity	R4101.6.3	Water velocity	Revised section to require the main suction outlet velocity to comply with ANSI/APSP 7.
R4101.6.6	Entrapment protection for suction outlets	R4101.6.6	Entrapment protection for suction outlets	Section revised by deleting existing test providing a direct reference to ANSI/APSP 7. All subsections deleted as well.

R4101.8.4	Combination valves	R4101.8.4	Combination valves	Revised section to require combination valves to be installed per the manufacturer's installation instructions.
R4101.19	Final inspection	R4101.19	Final inspection	Revised to require the final inspection to be performed before filling the pool with water. Exception added requiring vinyl and fiberglass pools to be filled with water upon installation.
R4101.20	Filters	R4101.20	Filters	Revised section for clarity.
Chapter 44: High-Velocity Hurricane Zones				
2004 FBCR		2007 FBCR		Analysis
Section	Requirement	Section	Requirement	
R4402.2.1	Definitions	R4402.2.1	Definitions	Revised FMRC to the term "FM Approvals."
Table R4402.4.2	Minimum slope	Table R4402.4.2	Minimum slope	Revised table to remove structural metal panel and slope from the table.
-	-	R4403.7.3.6.4	Top rail	Added new section to provide provisions for glass use in railings and to include testing to TAS 201.
R4405.8.5.5	Exterior balcony slabs	R4405.8.5.5	Exterior balcony slabs	Revised section to remove specific requirements listed in items 1-5 and to add 'in accordance with provisions of ACI 318.'.
R4407.3.3	Masonry	R4407.3.3	Masonry	Section revised to clarify that flexural tension is permitted in un-reinforced masonry per ACI 530.
R4408.9.4.7	Metal building	-	-	Deleted section.
-	-	R4409.13.3.2.5	Unvented attic assemblies	Section permitting unvented attic assemblies has been rewritten for clarity. The title change clarifies that the attic space does not have to be actively conditioned but does operate at near-conditioned space temperature and humidity.
R4409.15.2	Fences	R4409.15.2	Fences	Editorial change to add "feet" for the nominal dimensions provided as well as the corresponding metric dimension.
R4410.2	General for glass and glazing	R4410.1.2	General for glass and glazing	Revised numbering for Section R4410 to group wall cladding and workmanship under the general scope.
R4410.3		R4410.1.3		
R4410.4		R4410.1.4		
R4410.2.3.2.1.1	Glazed curtain wall	R4410.2.3.2.1.1	Glazed curtain wall	Revised section to add exception number 3, which provides exemption of "pass through" windows with 5' overhangs from water infiltration test.

R4410.2.3.2.5	Operative analysis	R4410.2.3.2.5	Operative analysis	Revised section to update number 7 in the list of conditions for compliance of operable windows and glazed doors for comparative analysis. Removed pass through window requirement and added new information for maximum cyclic pressure test per TAS203.
R4410.2.3.2.6	Comparative analysis	R4410.2.3.2.6	Comparative analysis	Revised section to add number 8 in the list of conditions for compliance of fixed glass windows for comparative analysis to add new information for maximum cyclic pressure test per TAS203.
R4410.2.3.3.6	Glazing	R4410.2.3.3.6	Glazing	Revised to correct "engaugement" to "engagement."
-	-	R4410.2.3.4	Gaskets	Added new section to provide applicable ASTM standards for gaskets used in glazing systems.