State Building Code Subcommittee of Building Officials
Meeting
Tuesday, September 8, 2015

Department of Accounting and General Services
Comptroller’s Conference Room 410
Kalanimoku Building
1151 Punchbowl Street
Honolulu, Hawaii  96813

West Hawaii Civic Center
Building “E”, First Floor
74-5044 Aun Keohokalole Highway
Kailua-Kona, Hawaii  96740

Telephone Call-In - 800-910-8278 then 6547519

MINUTES

1. Call to Order:  8:37 a.m.

2. Attendees (see attachment).

3. Jim Reinhartd presented comments and recommendations from the American Institute of Architects (AIA) Codes Committee regarding the non-structural provisions for the 2012 International Building Code (IBC) and the 2012 International Residential Code (IRC). (Attached is the document previously sent via email from Jim Reinhartd.)

There was also discussion on the proper Ramseyer formatting of the amendments for the 2012 IBC and 2012 IRC.

4. Next meeting:  Tuesday, October 13, 2015, at 8:00 a.m.

5. Meeting adjourned:  9:00 a.m

Attachments:
1. SBCC Subcommittee Attendee Sign-In Sheet
2. AIA Codes Committee Comments & Recommendations - 2012 IBC & 2012 IRC
DATE: September 8, 2015
TIME: 8:37 a.m.

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via phone:

- Jai Ho Chung
- Craig Stevenson
- Sharen Almado
- Francis Leyva
July 13, 2015

MEMO TO: State Building Code Council
PROJECT: Review of 1012 IBC and IRC
SUBJECT: Honolulu AIA Comments and Recommendations
FROM: Jim Reinhardt, AIA-ME

The Codes Committee of the Honolulu Chapter of the American Institute of Architects (the Committee), in coordination with the AIA Hawaii State Council (the State AIA), and augmented with several neighbor island members, has reviewed the 2012 International Building Code (IBC) and International Residential Code (IRC).

We have also reviewed the amendments to the 2006 IBC which became part of the State Building Code in 2012 and the Committee’s recommended modifications to the 2009 which, for technical reasons, never became the part of the State Building Code.

Please refer to the following pages for the Committee’s recommended amendments.

Respectfully Submitted,

Jim Reinhardt, AIA-ME
State Building Code Council Member
MEMO TO: State Building Code Council
PROJECT: Review of 1012 IBC and IRC
SUBJECT: Hawaii Council AIA Comments and Recommendations
DATE: 13 July 2015
FROM: Jim Reinhardt, AIA-ME

1. 2012 International Residential Code

1.1 Chapter 1: Scope and Administration
   1.1.1 Recommended changes
      1.1.1.1 Recommend identifying the Appendixes which are adopted
      1.1.1.2 R109- Inspections: Need to discuss and clarify Special Inspections. Coordinate with SEAOH.

1.2 Chapter 2: Definitions
   1.2.1 Recommended changes- None

1.3 Chapter 3: Building Planning
   1.3.1 Recommended changes
      R301- Structural Issues- refer to SEAOH Investigative Committee for Structural Provisions for the 2012 IBC.
      1. Re the Wind Maps
         A. Clarify that the Wind Maps are part of the IRC as well as the IBC.
         B. Clearly define the Wind Borne Debris region for IRC
         C. Clarify how to deal with partially enclosed buildings.
         D. Determine how to deal with TMK parcels which are in more than one wind zone.
      R308.2 Jalousy Windows
      1. Put amendment allowing jalousy windows back in. (Was omitted from '06)
      2. Change max blade length from 48" to 36"
      3. Also allowed where safety glass is required- R308.4?
      4. Do we want R308.3 Exception 1?
      R317 & R318- Decay & Termite resistance- Change to HNL language.
      R317.3.1- Note that special fasteners are not required for borate treated wood.
      R319: Site Address- Use the existing county requirements?
      R322: Flood Resistant Construction- Refer to County Flood req’s?
      R323: Storm Shelters- Refer to County requirements?

1.4 Chapter 4: Foundations
   1.4.1 Recommended changes
      R402, 403, 404- refer to SEAOH
      R404.1.2.3.6.1-4 Termite Hazards- refer to R318 & Hawaii Revisions.
      R406.1 Recommend all basements be waterproofed per R406.2, not dampproofed.
      R406.3 Change to waterproofed per 406.2
      R406.4- Change to waterproofed per 406.2

1.5 Chapter 5: Floors
1.5.1 Recommended changes- None
   R502 - R507: Refer to SEAOH

1.6 Chapter 6: Wall Construction
   1.6.1 Recommended changes
   R605- Do we want to modify because of humidity deterioration?
   R612.4- Modify to allow for custom designed doors.
   R602- R611 & R613: Refer to SEAOH

1.7 Chapter 7: Wall Covering
   1.7.1 Recommended changes- None
   R703: Refer to SEAOH

1.8 Chapter 8: Roof-Ceiling Construction
   1.8.1 Recommended changes
   R806.1- Get input from Rick Beall
   R806.5- Get input from Rick Beall
   R802- 804: Refer to SEAOH

1.9 Chapter 9: Roof Assemblies
   1.9.1 Recommended changes- None

1.10 Chapter 10: Chimneys and Fireplaces
   1.10.1 Recommended changes- None

1.11 Chapter 11: Energy Efficiency
   1.11.1 Delete entire Chapter- Refer to International Energy Efficiency Code

1.12 Chapter 25 thru 33: Plumbing
   1.12.1 Delete Chapter entirely- Refer to Plumbing Code

1.13 Chapter 34 thru 41: Electrical
   1.13.1 Delete Chapter entirely- Refer to Electrical Code

1.14 Chapter 42: Swimming Pools
   1.14.1 Recommended changes- Tim Hiu to discuss with Pool Contractors

1.15 Appendix A- Not adopted.

1.16 Appendix B- Not adopted.

1.17 Appendix C- Not adopted.

1.18 Appendix D- Not adopted.

1.19 Appendix E- Not adopted
1.20 Appendix F- Not adopted.

1.21 Appendix G: Swimming Pools  Adopt??

1.22 Appendix H- Not adopted.

1.23 Appendix I- Not adopted.

1.24 Appendix J- Not adopted.


1.26 Appendix K: Sound Transmission  Adopt ??
    1.26.1 Recommended changes

1.27 Appendix L: Permit Fees- Not adopted.  Refer to County Codes

1.28 Appendix M- Not adopted

1.29 Appendix N- Not adopted.

1.30 Appendix O- Not adopted

1.31 Appendix P- Not adopted.

1.32 Appendix Q- Not adopted.

2. 2012 International Building Code

2.1 Chapter 1: Scope and Application / Administration and Enforcement
    2.1.1 Recommended Changes:
        2.1.1.1 Add the names, etc. as appropriate for adoption for the State of Hawaii
        2.1.1.2 Include adoption of the 2012 IRC
        2.1.1.3 101.4 Referenced Codes: Which ones do we want/need?
        2.1.1.4 Add an Appendix for Indigenous Hawaiian Structures. Questions that should be addressed in the Appendix
            1. Is plumbing or electrical allowed?
            2. Can an IHS be used as a sleeping building?
    2.1.2 Recommend identifying Appendixes adopted

2.2 Chapter 2: Definitions
    2.2.1 Recommended Changes: None

2.3 Chapter 3: Use and Occupancy
    2.3.1 Recommended Changes
308.3 Add a definition of "Assisted Living Facilities" from the '06 State Code
310.2

2.3.2 Are there any unique occupancies we need to add?

2.4 Chapter 4: Special Detailed Requirements Based on Use and Occupancy
2.4.1 Recommended Changes
403.6 Retain the language of '06 State Code 403.8 re Fire Command Stations
420.6 Add the language of '06 State Code 419.4 re Assisted Living Groups

2.5 Chapter 5: General Building Heights and Areas
2.5.1 Recommended Changes: None

2.6 Chapter 6: Types of Construction
2.6.1 Recommended Changes

2.7 Chapter 7: Fire and Smoke Protection Features
2.7.1 Recommended Changes
703.7 Clarify that this is required only in concealed spaces such as above suspended ceilings.
705 Modify Table 705.2 so that the upper limit of the requirements are "less than 2 feet," "less than 5 feet."

2.8 Chapter 8: Interior Finishes
2.8.1 Recommended Changes: None

2.9 Chapter 9: Fire Protection Systems
2.9.1 Recommended Changes
903.1.2 Add a new section with the language of 903.1.2 of the HNL code
903.2.7.1 Delete "International."
903.2.8 Add a new Exception: R-3 residential occupancies
903.2.11.4 Delete "International."
903.3.1.3 Leave this in as it does not require residential fire sprinklers, but only specifies if used?
903.3.5.2 C&C HNL deleted this. Delete from State Code?
903.4.1 C&C HNL deleted this. Delete from State Code?
904.2.1 Delete "International" from 2 places.
905.1 Delete "International."
905.3.3 Leave in?
905.3.7 Delete "International."
906 Recommend return to the '06 IBC language
907.1 Delete "International."
911.1 Replace with '06 State Code 911.1
913 Add a requirement requiring special inspection of fire-protection systems, like HNL 913."

2.10 Chapter 10: Means of Egress
2.10.1 Recommended Changes
1001.3 Delete the word "International." Do this as global replacement.
1001.5 Add a section requiring an exit plan as part of the permit drawings
1002.1 Replace "area of refuge" with "area of rescue assistance."
1006.3 Add 6. Enclosed stairways of buildings more than 2 stories in height.
1007.2-9 Change "refuge" to "rescue assistance."
1007.3- Exception 2 Change "refuge" to "rescue assistance."
1007.4- Exceptions 1, 2, 3 and 4: Change "refuge" to "rescue assistance."
1007.6- Exception 2 Change "refuge" to "rescue assistance" in 6 places.
1007.7.2 Change "refuge" to "rescue assistance."
1007.7.4 Change "10 feet (3048 mm)" to "20 feet (6 M)."
1007.8- Exception 1 Change "refuge" to "rescue assistance."
1013.2 After exception #7, "Openings or portions of openings in exterior walls which are less than 30 inches above a floor shall be provided with at least one rail between 30 inches and 36 inches above the floor when such openings are located on floor more than 5 feet above the adjacent grade or finished floor and are not provided with structurally adequate safety glass installations or other barriers to prevent a person from falling through the openings.

Openable windows or portions of openable windows located on floors more than 5 feet above the adjacent grade or finished floor shall be provided with guards as specified in this section, when such windows less than 42 inches above the floor in Group R-1 and R-2 Occupancies and less than 36 inches in Group R-3 and R-4 Occupancies. Guards are not required where such windows are provided with securely installed screens or permanently installed opening limiters complying with ASTM F2090 or other equal or better barriers to young children falling through such openings. (A slightly modified version of HNL amendment #144)

1013.3 After exception #5, add, "Guardrails in Group R-1 and R-2 Occupancies shall not contain: (1) horizontal rails other than top and bottom rails, or (2) cutouts or indentations greater than 1-3/4 inches in width or protrusions that may provide a foothold for young children."
(HNL Amendment #145)

1018.4 Amend exception 2 to read: "In occupancies in Groups B, E, F, I-1, M, R-1, R-2, R-4, S and U, where the building is equipped with an automatic fire sprinkler system in accordance with Section 903.3.1, the length of the dead-end corridor shall not exceed 50 feet (15,240 mm)."
(HNL Amendment 146)

1021 This section has been completely rewritten and needs to be examined and considered.
1026.2 1- Why should I-2 Occupancies (Medical care facilities) be excluded from having exterior exit stairways and ramps?
2- Delete "for buildings not exceeding six stories above grade plane or
which are not high-rise buildings."
1029.2.1 Add and exception to read: "Glass jalousy bladed windows may be used for emergency escape or rescue windows." (HNL Amendment #148)

2.11 Chapter 11: Accessibility
2.11.1 Delete in its entirety and replace with:

"1101 Scope. Buildings or portions of buildings shall be accessible to persons with disabilities in accordance with the following regulations
1. For construction of buildings or facilities of the state and county governments, compliance with Section 103-50, HRS, administered by the Disability and Communication Access Board, State of Hawaii.
2. Americans with Disabilities Act, administered and enforced by the U.S. Department of Justice.
2.1 Department of Justice's ADA Standards for Accessible Design
3. Fair Housing Act, administered and enforced by the U.S. Department of Housing and Urban Development Guidelines administered and enforced by HUD, include:
3.1 HUD recognized 'Safe Harbors' for compliance with the Fair Housing Act's design and construction requirements
4. Other pertinent laws relating with disabilities shall be administered and enforced by agencies responsible for their enforcement.
Prior to the issuance of a building permit, the owner (or the owner's representative, professional architect, or engineer shall submit a statement that all requirements, relating to accessibility for persons with disabilities, shall be complied with.

2.12 Chapter 12: Interior Environment
2.12.1 Recommended Changes

1203.1 Delete "International" from all references to the International Mechanical Code.
1203 Get input from Rick Beall
1206.3.3 Delete "International."
1208 Do we need this? Each county has a Housing Code. Does the State need one?
1209.3 Delete "International."

2.13 Chapter 13: Energy Efficiency
2.13.1 Delete in its entirety and replace with the 2015 International Energy Conservation Code as amended.

2.14 Chapter 14: Exterior Walls
2.14.1 Recommended Changes- None

2.15 Chapter 15: Roof Assemblies and Rooftop Structures
2.15.1 Recommended Changes
1503.4 and 1504.1 Delete "International."
1503.4 Add new sections to read:
"General. Roofs shall be sloped a minimum of 1 unit vertical in 4 units horizontal (2 percent slope) for drainage unless designed for water accumulation in accordance with section 1611 and approved by the building official. Size of leaders, conductors and storm drains shall be sized on the basis of Figure 1611.1 of Section 1611 and the Plumbing Code.

Roof Drains. Unless roofs are sloped to drain over the roof edges, roof drains shall be installed at each low point of the roof.

Concealed Piping. Roof drains and overflow drains, where concealed within the construction of the building, shall be installed in accordance with the Plumbing Code.

2.16 Chapter 16: Structural Design
  2.16.1 Refer to SEAOH

2.17 Chapter 17: Structural Tests and Special Inspections
  2.17.1 Refer to SEAOH

2.18 Chapter 18: Soils and Foundations
  2.18.1 Refer to SEAOH

2.19 Chapter 19: Concrete
  2.19.1 Refer to SEAOH

2.20 Chapter 20: Aluminum
  2.20.1 Refer to SEAOH

2.21 Chapter 21: Masonry
  2.21.1 Refer to SEAOH

2.22 Chapter 22: Steel
  2.22.1 Refer to SEAOH

2.23 Chapter 23: Wood
  2.23.1 Refer to SEAOH

2.24 Chapter 24: Glass and Glazing
  2.24.1 Recommended changes:
  2403.5 Revise to read: "Louvered Windows or Jalousies. Regular plate or patterned glass louvered windows and jalousies shall be no thinner than nominal 7/32 inch and no longer than 36 inches. When other glass types are used, design shall be submitted to the building official for approval. Exposed glass edges shall be smooth. Wired glass with wire exposed on longitudinal edges shall not be used in jalousies or louvered windows.
  2406 What about safety glazing requirements? Glazing in doors? Glazing adjacent to doors, glazing near wet surfaces, glazing adjacent to stairs and
ramps, glazing adjacent to the bottom stair landing. Discuss with Shawn Moseley.

2.25 Chapter 25: Gypsum Board and Plaster
2.25.1 Refer to SEAOH

2.26 Chapter 26: Plastic
2.26.1 Recommended Changes
2.26.2

2.27 Chapter 27: Electrical
2.27.1 Delete in its entirety and replace with 2012 NEC

2.28 Chapter 28: Mechanical Systems
2.28.1 Delete in its entirety and replace with ?WHAT?

2.29 Chapter 29: Plumbing Systems
2.29.1 Delete in its entirety and replace with the 2012 Uniform Plumbing Code

2.30 Chapter 30: Elevators and Conveying Systems

2.31 Chapter 31: Special Construction
2.31.1 Recommended Changes

2.32 Chapter 32: Encroachments into the Public Right-of Way
2.32.1 Recommended Changes

2.33 Chapter 33: Safeguards during Construction
2.33.1 Recommended Changes

2.34 Chapter 34: Existing Structures
2.34.1 Delete in its entirety and replace with the 2012 International Existing Building Code.

2.35 Chapter 35: Referenced Standards
2.35.1 Recommended Changes- None

2.36 Appendix A: Employee Qualifications
2.36.1 Not adopted:

2.37 Appendix B: Board of Appeals
2.37.1 Not adopted:
2.38 Appendix C: Group U- Agricultural Buildings
   2.38.1 Not adopted:

2.39 Appendix D: Fire Districts
   2.39.1 Not adopted:

2.40 Appendix E: Supplementary Accessibility Requirements
   2.40.1 Not adopted:

2.41 Appendix F: Rodentproofing
   2.41.1 Not adopted:

2.42 Appendix G: Flood-Resistant Construction
   2.42.1 Not adopted:

2.43 Appendix H: Signs
   2.43.1 Not adopted:

2.44 Appendix I: Patio Covers
   2.44.1 Not adopted:

2.45 Appendix J: Grading
   2.45.1 Not adopted:

2.46 Appendix K: Administrative Provisions
   2.46.1 Not adopted:

2.47 Appendix L: Earthquake Recording Instrumentation
   2.47.1 Not adopted:

2.48 Appendix M: Tsunami-Generated Flood Hazard
   2.48.1 Not adopted: