CUSTOMER ENERGY CONSERVATION PLAN REVIEW CHECKLIST

This checklist is provided as a reference tool and is not intended to be exhaustive of all possible requirements. It may also include more items than a specific set of plans may require.

Referenced Codes:

- 2021 International Energy Conservation Code (IECC)
- Unified Development Code (UDC)
- COSA Chapter 10 Amendments (Chapter 10)

| # | GENERAL REQUIREMENTS | | ✓ | N/A |
|---|---|---|---|---|
| 1. | Provide a description of the scope of work: | | | |
| | a. | New Building | | |
| | b. | Existing Building | | |
| 2. | If an existing building, provide more detail of the scope or work. | | | |
| | 1. | Additions C502 | | |
| | 2. | Alterations C503 | | |
| | 3. | Repairs C504 | | |
| | 4. | Change of Occupancy C505 | | |
| 3. | Provide occupancy group | | | |
| 4. | Was a Preliminary Plan Review (PPR) meeting held IB 116? If so, please include documentation or PPR number. | | | |
| 5. | Was a Code Modification Request (CMR) for an alternative material, design and/or method of construction requested for this project IB 114? If so, please include documentation. | | | |
| 6. | If this is a phased permit application, provide partial permits (site work, foundation, demo permit, etc.), if applicable. | | | |
| 7. | Registered design professional and licenses and registration to comply with IB 103. | | | |
| 8. | Provide pages 18 and 19 of IB 221 – Commercial Energy Commissioning Checklist | | | |

| # | COMMERCIAL BUILDING SHALL COMPLY WITH ONE OF THE FOLLOWING (C402) | | ✓ | N/A |
|---|---|---|---|---|
| | a. | Prescriptive Method (Proceed to Page 2) | | |
| | b. | Total Building Performance Method (Skip to Page 6) | | |

| ***PRESCRIPTIVE METHOD FOR COMMERCIAL PROJECTS*** | | | | |
|---|---|---|---|---|
| **#** | **BUILDING ENVELOPE REQUIREMENTS** | | ✓ | **N/A** |
| 1. | Insulation requirements should be met by one of the following: | | | |
| | a. | R-Value | | |
| | b. | U-, C-, or F- Value | | |
| | c. | Component Performance Alternative | | |
| 2. | Opaque swinging doors shall comply with Table C402.1.4. | | | |
| 3. | Provide verification of minimum thermal resistance in roof assembly based on construction materials used in roof assembly C402.2.1 | | | |
| 4. | Provide verification of the minimum thermal resistance of materials installed in the wall cavity C402.2.2 | | | |
| 5. | Provide verification of the thermal properties of the floor assemblies over outdoor air or unconditioned space based on the construction materials used in the floor assembly C402.2.3 | | | |
| 6. | Provide verification of the minimum thermal resistance of the insulation for unheated or heated slab-on-grade floors C402.2.4 | | | |
| 7. | Provide verification of below grade walls meet the minimum values based on the path chosen C402.2.5 | | | |
| 8. | Insulation of radiant heating systems C402.2.6 | | | |
| 9. | Airspaces C402.2.7 | | | |
| 10. | Roof solar reflectance and thermal emittance (Table C402.3 and COSA Ch.10) | | | |
| 11. | Maximum vertical fenestration area C402.4.1 | | | |
| 12. | Minimum skylight fenestration C402.4.2 | | | |
| 13. | Haze factor C402.4.2.2 | | | |
| 14. | Maximum U-factor and SHGC C402.4.3 | | | |
| 15. | Daylight zones C402.4.4 | | | |
| 16. | Provide verification of continuous air barrier throughout the building thermal envelope C402.5.1 | | | |
| 17. | Air barrier compliance C402.5.1.2 | | | |
| 18. | Dwelling and sleeping unit enclosure testing C402.5.2 | | | |
| 19. | Building thermal envelope testing C402.5.3 | | | |
| 20. | Air leakage of fenestration C402.5.4 | | | |
| 21. | Doors and access openings from conditioned spaces to shafts, chutes stairways and elevator lobbies C402.5.6 | | | |
| 22. | Air intakes, exhaust openings, stairways, and shafts C402.5.7 | | | |
| 23. | Loading dock weather seals C402.5.8 | | | |
| 24. | Vestibules C402.5.9 | | | |
| 25. | Recessed lighting C402.5.10 | | | |
| 26. | Operable opening interlocking C402.5.11 | | | |

| **#** | **BUILDING MECHANCIAL SYSTEMS C403** | ✓ | **N/A** |
|---|---|---|---|
| 27. | Mechanical Systems Compliance Certificate | | |
| 28. | Calculations of heating and cooling loads C403.1.1 | | |
| 29. | Data Centers C403.1.2 | | |
| 30. | Zone isolation requirements C403.2.1 | | |
| 31. | Ventilation C403.2.2 | | |

| | | | |
|---|---|---|---|
| 32. | Fault detection and diagnostics C403.2.3 | | |
| 33. | Equipment sizing C403.3.1 | | |
| 34. | HVAC equipment performance requirements C403.3.2 | | |
| 35. | Water cooled centrifugal chilling packages C403.3.2.1 | | |
| 36. | Positive displacement air- and water-cooled chilling packages C403.3.2.2 | | |
| 37. | Hot gas bypass limitation C403.3.3 | | |
| 38. | Boiler turndown C403.3.4 | | |
| 39. | Thermostatic controls C403.4.1 | | |
| 40. | Heat pump supplementary heat C403.4.1.1 | | |
| 41. | Deadband C403.4.1.2 | | |
| 42. | Setpoint overlap restrictions C403.4.1.3 | | |
| 43. | Heated or cooled vestibule C403.4.1.4 | | |
| 44. | Hot water boiler outdoor temperature setback control C403.4.1.5 | | |
| 45. | Thermostatic setback C403.4.2.1 | | |
| 46. | Automatic setback and shutdown C403.4.2.2 | | |
| 47. | Automatic start and stop C403.4.2.3 | | |
| 48. | Three pipe systems C403.4.3.1 | | |
| 49. | Two-pipe changeover system C403.4.3.2 | | |
| 50. | Hydronic (water loop) heat pump systems C403.4.3.3 | | |
| 51. | Part-load controls C403.4.4 | | |
| 52. | Pump isolation C403.4.5 | | |
| 53. | Economizer C403.5 | | |
| 54. | Integrated economizer control C403.5.1 | | |
| 55. | Economizer heating system impact C403.5.2 | | |
| 56. | Air economizer C403.5.3 | | |
| 57. | Water-side economizer C403.5.4 | | |
| 58. | Economizer fault detection and diagnostics C403.5.5 | | |
| 59. | Variable air volume and multiple zone systems C403.6.1 | | |
| 60. | Single-duct VAV systems, terminal devices C403.6.2 | | |
| 61. | Dual-duct and mixing VAV systems, terminal devices C403.6.3 | | |
| 62. | Single-fan dual-duct and mixing VAV systems, economizers C403.6.4 | | |
| 63. | Supply-air temperature reset controls C403.6.5 | | |
| 64. | Multiple-zone VAV system ventilation optimization control C403.6.6 | | |
| 65. | Parallel-flow fan-powered VAV air terminal control C403.6.7 | | |
| 66. | Setpoint for direct digital control C403.6.8 | | |
| 67. | Static pressure sensor location C403.6.9 | | |
| 68. | Demand control ventilation C403.7.1 | | |
| 69. | Enclosed parking garage ventilation controls C403.7.2 | | |
| 70. | Ventilation air heating controls C403.7.3 | | |
| 71. | Non-transient dwelling units C403.7.4.1 | | |
| 72. | Spaces other than non-transient dwelling units C403.7.4.2 | | |
| 73. | Kitchen exhaust systems C403.7.5 | | |
| 74. | Automatic control of HVAC systems serving guestrooms C403.7.6 | | |

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|---|---|---|---|
| 75. | Shutoff dampers C403.7.7 | | |
| 76. | Allowable fan horsepower C403.8.1 | | |
| 77. | Motor nameplate horsepower C403.8.2 | | |
| 78. | Fan efficiency C403.8.3 | | |
| 79. | Fractional hp fan motors C403.8.4 | | |
| 80. | Low-capacity ventilation fans C403.8.5 | | |
| 81. | Fan control C403.8.6 | | |
| 82. | Fan speed controls C403.10.1 | | |
| 83. | Multiple-cell heat rejection equipment C403.10.2 | | |
| 84. | Limitation on centrifugal fan open-circuit cooling towers C403.10.3 | | |
| 85. | Tower flow turndown C403.10.4 | | |
| 86. | Large diameter ceiling fans C403.9 | | |
| 87. | Heat recovery for service water heating C403.10.5 | | |
| 88. | Heat recovery for space conditioning in healthcare facilities C403.10.6 | | |
| 89. | Commercial refrigerators, refrigerator freezers and refrigeration C403.11.1 | | |
| 90. | Walk-in coolers and walk-in freezers C403.11.2 | | |
| 91. | Condensers serving refrigeration systems C403.11.3.1 | | |
| 92. | Compressor system C403.11.3.2 | | |
| 93. | Duct and plenum insulation and sealing C403.12.1 | | |
| 94. | Duct construction C403.12.2 | | |
| 95. | Piping insulation C403.12.3 | | |
| 96. | Protection of piping insulation C403.12.3.1 | | |
| 97. | Mechanical systems located outside of the building thermal envelope C403.13 | | |
| 98. | Operable opening interlocking controls C403.14 | | |

| # | SERVICE WATER HEATING C404 | ✓ | N/A |
|---|---|---|---|
| 99. | Mechanical Systems Compliance Certificate | | |
| 100. | Service water-heating equipment performance efficiency C404.2 | | |
| 101. | High input service water-heating systems C404.2.1 | | |
| 102. | Verify heat traps for the hot water storage tanks C404.3 | | |
| 103. | Verify insulation of piping from the water heater to termination of heated water fixture C404.4 | | |
| 104. | Verify heated water supply piping method and compliance with method C404.5 | | |
| | a. Maximum Allowed Pipe Length Method C404.5.1 | | |
| | b. Maximum Allowed Pipe Volume Method 404.5.2 | | |
| 105. | Circulation system C404.6.1 and COSA Ch.10 | | |
| 106. | Demand recirculation controls C404.6.1.1 | | |
| 107. | Heat trace system C404.6.2 | | |
| 108. | Controls for hot water storage C404.6.3 | | |
| 109. | Drain water heat recovery units C404.7 | | |
| 110. | Heaters for pools and permanent spas (C404.8.1) | | |
| 111. | Time switches for pools and permanent spas (C404.8.2) | | |
| 112. | Covers for outdoor heated pools and outdoor permanent spas (C404.8.3) | | |

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|---|---|---|---|
| 113. | Portable spas (C404.9) | | |

| # | ELECTRICAL POWER AND LIGHTING SYSTEMS (C405) | ✓ | N/A |
|---|---|---|---|
| 114. | Interior lighting compliance certificate | | |
| 115. | Exterior lighting compliance certificate | | |
| 116. | Lighting for dwelling units (C405.1.1) | | |
| 117. | Time-switch controls C405.2.2 | | |
| 118. | Time-switch control function C405.2.2.1 | | |
| 119. | Light-reduction controls C405.2.3 | | |
| 120. | Light-reduction control function C405.2.3.1 | | |
| 121. | Daylight responsive controls C405.2.4 | | |
| 122. | Daylight responsive control function C405.2.4.1 | | |
| 123. | Verify side lit daylight zones C405.2.4.2 | | |
| 124. | Verify top lit daylight zones C405.2.4.3 | | |
| 125. | Atriums C405.2.4.4 | | |
| 126. | Time-switch controls C405.2.2 | | |
| 127. | Time-switch control function C405.2.2.1 | | |
| 128. | Light-reduction controls C405.2.3 | | |
| 129. | Light-reduction control function C405.2.3.1 | | |
| 130. | Daylight responsive controls C405.2.4 | | |
| 131. | Daylight responsive control function C405.2.4.1 | | |
| 132. | Verify side lit daylight zones C405.2.4.2 | | |
| 133. | Verify top lit daylight zones C405.2.4.3 | | |
| 134. | Atriums C405.2.4.4 | | |
| 135. | Specific application controls C405.2.5 | | |
| 136. | Manual Controls C405.2.6 | | |
| 137. | Daylight shutoff C405.2.7.1 | | |
| 138. | Building façade and landscape lighting C405.2.7.2 | | |
| 139. | Lighting setback C405.2.7.3 | | |
| 140. | Exterior time switch control function C405.2.7.4 | | |
| 141. | Parking garage lighting controls C405.2.8 | | |
| **LIGHTING CONTROLS - shall comply with one of the following methods:** | | | |
| 142. | Lighting Controls | | |
| | a. Total interior lighting power C405.3.1 | | |
| | b. Interior lighting power allowance method C405.3.2 | | |
| | i. Building Area Method | | |
| | ii. Space-by-Space Method | | |
| 143. | Luminaire Level Lighting Controls C405.2.1 | | |
| | a. Provide occupancy sensor controls installed in the list of spaces C405.2.1 | | |
| | b. Provide occupancy sensor control function C405.2.1.1 | | |
| | c. Provide occupancy sensor control function in warehouse storage areas C405.2.1.2 | | |
| | d. Provide occupancy sensor control function in open plan office areas C405.2.1.3 | | |
| | e. Provide occupancy sensor control function in corridors C405.2.1.4 | | |

| # | ADDITIONAL EFFICIENCY REQUIREMENTS (C406) | ✓ | N/A |
|---|---|---|---|
| 144. | Additional energy efficiency credit requirement C406.1 | | |
| 145. | Tenant spaces C406.1.1 | | |
| 146. | More efficient HVAC equipment performance C406.2 | | |
| 147. | Reduced lighting power C406.3 | | |
| 148. | Enhanced digital lighting controls C406.4 | | |
| 149. | On-site renewable energy C406.5 | | |
| 150. | Dedicated outdoor air systems C406.6 | | |
| 151. | Reduced energy use in service water heating C406.7 | | |
| 152. | Enhanced envelope performance C406.8 | | |
| 153. | Reduced air infiltration C406.9 | | |
| 154. | Energy monitoring C406.10 | | |
| 155. | Fault detection and diagnostics system C406.11 | | |
| 156. | Efficient kitchen equipment C406.12 | | |

| # | | EXISTING BUILDING GENERAL REQUIREMENTS | ✓ | N/A |
|---|---|---|---|---|
| 157. | For historic buildings, provide verification of compliance with C501.5 and COSA Ch.10 | | | |
| 158. | ADDITIONS | | | |
| | a. | Change in space conditioning C502.2 | | |
| | b. | Vertical fenestration area C502.3.1 | | |
| | c. | Skylight area C502.3.2 | | |
| | d. | Building mechanical systems C502.3.3 | | |
| | e. | Service water-heating systems C502.3.4 | | |
| | f. | Pools and in grounds permanently installed C502.3.5 | | |
| | g. | Interior lighting power C502.3.6.1 | | |
| | h. | Exterior lighting power C502.3.6.2 | | |
| 159. | ALTERATIONS C503 | | | |
| | a. | Building envelope C503.2 | | |
| | b. | Roof replacement C503.2.1 | | |
| | c. | Vertical fenestration C503.2.2 | | |
| | d. | Application to replacement fenestration products C503.2.2.1 | | |
| | e. | Skylight area C503.2.3 | | |
| | f. | Heating and cooling systems C503.3 | | |
| | g. | Service hot water systems C503.4 | | |
| | h. | Lighting systems C503.5 | | |
| 160. | REPAIRS C504 | | | |
| | a. | Application C504.2 | | |
| 161. | CHANGE OF OCCUPANCY C505 | | | |
| | a. | Increase in demand for fuel or electricity C505.1 | | |

| ***TOTAL BUILDING PERFORMANCE METHOD FOR COMMERCIAL BUILDINGS*** | | | |
|---|---|---|---|
| **#** | **REQUIRED SUBMITTAL DOCUMENTS** | ✓ | **N/A** |
| 1. | Provide an annual energy cost report from an approved source, such as the Department of Energy, Energy Information Administration's State Energy Data System Prices and Expenditures reports C407.2 | | |
| 2. | Provide the Compliance Report to include information in Section C407.3.1 | | |
| 3. | Specifications for the standard reference and proposed design C407.4 | | |

| # | BUILDING ENVELOPE REQUIREMENTS | ✓ | N/A |
|---|---|---|---|
| 4. | Provide Air leakage / thermal envelope C402.5 | | |

| # | BUILDING MECHANCIAL SYSTEMS (C403) | ✓ | N/A |
|---|---|---|---|
| 5. | Calculation of Heating and Cooling loads C403.1.1 | | |
| 6. | Data Centers C403.1.2 | | |
| 7. | System Design C403.2 | | |
| 8. | Heating and cooling equipment efficiencies C403.3 | | |
| 9. | Heating and cooling system controls C403.4, except C403.4.3, C403.4.4 and C403.4.5 | | |
| 10. | Economizer fault detection and diagnostics C403.5.5 | | |
| 11. | Ventilation and exhaust systems C403.7, except C403.7.4.1 | | |
| 12. | Fan and fan controls C403.8, except C403.8.6 | | |
| 13. | Large-diameter ceiling fans C403.9 | | |
| 14. | Refrigeration equipment performance C403.11, except C403.11.3 | | |
| 15. | Construction of HVAC system elements C403.12 | | |
| 16. | Mechanical systems located outside of the building thermal envelope C403.13 | | |

| # | SERVICE WATER HEATING (C404) | ✓ | N/A |
|---|---|---|---|
| 17. | Service water-heating C404 | | |

| # | ELECTRICAL POWER AND LIGHTING SYSTEMS (C405) | ✓ | N/A |
|---|---|---|---|
| 18. | Electrical Power and Lighting Systems C405 | | |

| # | MAINTAINANCE INFORMATION AND SYSTEM CONFIGURATION (C408) | ✓ | N/A |
|---|---|---|---|
| 19. | Commissioning Plans for mechanical, lighting and service water heating, if applicable C408 | | |

| ***RESIDENTIAL ENERGY*** | | | | |
|---|---|---|---|---|
| **#** | **GENERAL REQUIREMENTS** | | **✓** | **N/A** |
| 1. | Registered design professional and licenses and registration to comply with IB 103. | | | |
| 2. | Provide Manual J calculations. | | | |
| 3. | Provide Manual S efficiency calculations | | | |
| 4. | Verify submittal of energy compliance report from the building design: REScheck, IC3, REM/Rate, Energy Gauge, Energy Star, Ekotrope, or other DOE approved software based on the current IECC | | | |
| 5. | Provide clarification of method of compliance. | | | |
| | a. | Prescriptive Method | | |
| | b. | Performance Method | | |
| | c. | ERI Method | | |
| | d. | Energy Star Method House Bill 3215 | | |

| ***PRESCRIPTIVE METHOD FOR RESIDENTIAL ENERGY*** | | | **✓** | **N/A** |
|---|---|---|---|---|
| **#** | **BUILDING THERMAL ENVELOPE R402** | | | |
| 1. | Verify if the building is a low energy building and meets the exceptions R402.1 | | | |
| 2. | If prescriptive, verify thermal envelope requirements are met by one of the following options and do not exceed the values based on the method of compliance | | | |
| | a. | R-Value | | |
| | b. | U-Factor | | |
| | c. | Total UA Alternative | | |
| 3. | If R-value method is used verify R-values match Table R402.1.3 in the construction documents and compliance certificate R402.1.3 and COSA Ch.10 | | | |
| 4. | If R-value required continuous insulation per Table R402.1.3 verify if insulation type is allowed to be used as continuous insulation R402.1.4 | | | |
| 5. | If U-factor method is used verify U-factor values match Table R402.1.2 in the construction documents and the compliance certificate R402.1.2 | | | |
| 6. | If UA alternative is used verify the U-factor is less than or equal to total UA using Table R402.1.2 | | | |
| 7. | If UA alternative is used verify UA calculations are performed using a method consistent with ASHRAE handbook of fundamentals | | | |
| 8. | If UA alternative is used verify UA method meets SHGC requirements of Table R402.1.2 and the maximum U-factor of Section R402.5 | | | |
| **#** | **SPECIFIC INSULATION REQUIREMENTS** | | **✓** | **N/A** |
| 9. | Ceilings with attics shall have R-38 R402.2.1 and COSA Ch.10 | | | |
| 10. | Ceilings without attics shall have a minimum of R-30 R402.2.2 *Does not apply to UA Alternative* | | | |
| 11. | Verify eave baffles are installed for air permeable insulation R402.2.2.3 | | | |
| 12. | Access hatches and doors shall be insulated R402.2.4 | | | |
| 13. | Mass walls used as part of the building thermal envelope R402.2.5 | | | |
| 14. | Steel-frame ceiling, walls, and floors R402.2.6 | | | |
| 15. | Floor cavity insulation R402.2.7 | | | |
| 16. | Basement walls R402.2.8 | | | |
| 17. | Slab-on-grade floor insulation R402.2.9 | | | |
| 18. | Crawl space walls (R402.2.10) | | | |
| 19. | Sunroom and heated garage insulation (R402.2.12) | | | |

| # | FENESTRATION REQUIREMENTS | ✓ | N/A |
|---|---|---|---|
| 20. | Area weighted average of fenestration products for U-factor (R402.3.1) | | |
| 21. | Glazed fenestration SHGC (R402.3.2) | | |
| 22. | Glazed fenestration exception (R402.3.3) *Does not apply to UA Alternative* | | |
| 23. | Opaque door exception (R402.3.3) *Does not apply to UA Alternative* | | |
| 24. | Sunroom and heated garage fenestration (R402.3.5) | | |

| # | AIR LEAKAGE | ✓ | N/A |
|---|---|---|---|
| 25. | Fireplaces shall be listed and labeled in accordance with UL 127(R402.4.2) | | |
| 26. | Fenestration air leakage (R402.4.3) | | |
| 27. | Recessed lighting within the thermal envelope (R402.4.5) | | |
| 28. | Electrical boxes and communication outlet boxes (R402.4.6) | | |
| 29. | Verify that the Air Barrier, Air Sealing and Insulation Installation Table is provided Table R402.4.1.1 | | |
| 30. | Maximum fenestration U-factor and SHGC tradeoff R402.5 *Only Prescriptive and Performance* | | |

| # | SYSTEMS | ✓ | N/A |
|---|---|---|---|
| 31. | Verify a thermostat for each separate heating and cooling system R403.1 | | |
| 32. | Programmable thermostat R403.1.1 | | |
| 33. | Heat pump supplementary heat R403.1.2 | | |
| 34. | Hot water boiler temperature reset R403.2 | | |
| 35. | Ducts located outside of conditioned space R403.3.1 | | |
| 36. | Ducts located in conditioned space R403.3.2 | | |
| 37. | Ducts buried within ceiling insulation R403.3.3 | | |
| 38. | Duct, air handler, and filter boxes sealing R403.3.4 and IRC M1601.4 | | |
| 39. | Duct testing R403.3.5 | | |
| 40. | Duct leakage R403.3.6 | | |
| 41. | Building framing cavities R403.3.7 | | |
| 42. | Mechanical system piping insulation R403.4 | | |
| 43. | Protection of piping insulation R403.4.1 | | |
| 44. | Heated water circulation and temperature maintenance systems R403.5.1 | | |
| 45. | Circulation system R403.5.1.1 | | |
| 46. | Heat trace system R403.5.1.2 | | |
| 47. | Demand recirculation water system R403.5.1.1.1 | | |
| 48. | Hot water pipe insulation R403.5.2 | | |
| 49. | Drain water heat recovery units R403.5.3 | | |
| 50. | Dampers on mechanical ventilation R403.6 | | |
| 51. | Whole-dwelling mechanical ventilation system fan efficacy R403.6.2 | | |
| 52. | Verify equipment sizing and efficiency rating meet minimum requirements and match construction document mechanical schedule R403.7 | | |
| 53. | Systems serving multiple dwelling units shall comply with C403 and C404 of the IECC R403.8 | | |
| 54. | Snow melt and ice system controls R403.9 | | |

| | | | |
|---|---|---|---|
| 55. | Electric power heaters in pools and spas R403.10.1 | | |
| 56. | Time switches in pools and spas R403.10.2 | | |
| 57. | Covers in heated pools and outdoor permanent spas R403.10.3 | | |
| 58. | Portable spas R403.11 | | |
| 59. | Hot water pipe insulation R403.5.2 | | |

| # | **ELECTRICAL POWER AND LIGHTING SYSTEMS (R404)** | ✓ | N/A |
|---|---|---|---|
| 60. | Lighting Equipment R404.1 | | |
| 61. | Connected exterior lighting for residential buildings comply with Section C405.5 see exceptions | | |
| 62. | Fuel gas lighting equipment R404.1.2 | | |
| 63. | Interior lighting controls R404.2 | | |
| 64. | Exterior lighting controls R404.3 | | |

| ***ENERGY RATING INDEX METHOD*** | | ✓ | N/A |
|---|---|---|---|
| # | GENERAL | | |
| 1. | Rated design meets maximum ERI of 59 COSA Chap. 10 Table R406.5 | | |
| 2. | Additional efficiency packages R401.2.5 | | |
| 3. | Certificate R401.3 | | |
| 4. | Compliance Report R406.7.2 | | |

| # | **BUILDING THERMAL ENVELOPE** | ✓ | N/A |
|---|---|---|---|
| 5. | Vapor retarder R402.1.1 | | |
| 6. | Eave baffle R402.2.3 | | |
| 7. | Access hatches and door insulation installation and retention R402.2.4.1 | | |
| 8. | Crawl space wall insulation installation R402.2.10.1 | | |
| 9. | Installation R402.4.1.1 | | |
| 10. | Testing R402.4.1.2 | | |

| # | **MECHANICAL** | ✓ | N/A |
|---|---|---|---|
| 11. | Controls R403.1 | | |
| 12. | Ducts R403.3 except Sections R403.3.2, R403.3.3 and R403.3.6 | | |
| 13. | Mechanical system piping insulation R403.4 | | |
| 14. | Heater water calculation and temperature maintenance systems R403.5.1 | | |
| 15. | Drain water heat recovery units R403.5.3 | | |
| 16. | Mechanical ventilation R403.6 | | |
| 17. | Equipment sizing and efficiency rating R403.7 | | |
| 18. | Systems serving multiple dwelling units R403.8 | | |
| 19. | Snow melt and ice systems R403.9 | | |
| 20. | Energy consumption of pools and spas R403.10 | | |
| 21. | Portable spas R403.11 | | |
| 22. | Residential pools and permanent residential spas R403.12 | | |

| # | ELECTRICAL POWER AND LIGHTING SYSTEMS | ✓ | N/A |
|---|---|---|---|
| 23. | Lighting equipment R404.1 | | |
| 24. | Interior lighting controls R404.2 | | |
| 25. | Building thermal envelope R406.3 | | |

| # | | EXISTING BUILDINGS | ✓ | N/A |
|---|---|---|---|---|
| 26. | | Verify if building is a historic building C501.5 and COSA Ch.10 | | |
| 27. | | AdditionsC502 | | |
| | a. | Change in space conditioning C502.2 | | |
| | b. | Prescriptive compliance R502.3 | | |
| | c. | Building envelope R502.3.1 | | |
| | d. | Heating and cooling system R502.3.2 | | |
| | e. | Service hot water system R502.3.3 | | |
| | f. | Lighting R502.3.4 | | |
| 28. | | AlterationsC503 | | |
| | a. | General R503.1 | | |
| | b. | Building envelope R503.1.1 | | |
| | c. | Replacement fenestration R503.1.1.1 | | |
| | d. | Heating and cooling systems R503.1.2 | | |
| | e. | Service hot water system R503.1.3 | | |
| | f. | Lighting R503.1.4 | | |
| 29. | | Repairs C504 | | |
| | a. | Application R504.2 | | |
| 30. | | Change of Occupancy or Use C505 | | |
| | a. | General R505.1 | | |
| | b. | Unconditioned space R505.1.1 | | |

| | | ***PERFORMANCE METHOD FOR RESIDENTIAL PROJECT*** | ✓ | N/A |
|---|---|---|---|---|
| 1. | | **GENERAL** | | |
| | a. | An annual energy cost report that is less than or equal to the annual energy cost of the standard reference design R405.3 | | |
| | b. | Compliance report shall have the information in Section R405.3.2.1 | | |
| | c. | Specifications for the standard reference and proposed design R405.4.2(1) | | |
| | d. | Additional energy efficiency R401.2.5 | | |
| | e. | Certificate R401.3 | | |

| # | BUILDING THERMAL ENVELOPE | ✓ | N/A |
|---|---|---|---|
| 2. | Vapor Retarder R402.1.1 | | |
| 3. | Eave Baffle R402.2.3 | | |
| 4. | Access hatches and door insulation and retention R402.2.4.1 | | |
| 5. | Crawl space wall insulation installations R402.2.10.1 | | |
| 6. | Installation R402.4.1.1 | | |
| 7. | Testing R402.4.1.2 | | |

| | | | |
|---|---|---|---|
| 8. | Maximum fenestration U-factor and SHGC R402.5 | | |

| # | **MECHANICAL** | ✓ | **N/A** |
|---|---|---|---|
| 9. | Controls R403.1 | | |
| 10. | Ducts R403.3, including R403.3.1, except Sections R403.3.2, R403.3.3 and R403.3.6 | | |
| 11. | Mechanical system piping insulation R403.4 | | |
| 12. | Heated water circulation and temperature maintenance systems R403.5.1 | | |
| 13. | Drain water heat recovery units R403.5.3 | | |
| 14. | Mechanical ventilation R403.6 | | |
| 15. | Equipment sizing and efficiency rating R403.7 | | |
| 16. | Systems serving multiple dwelling units R403.8 | | |
| 17. | Snow melt and ice systems R403.9 | | |
| 18. | Energy consumption of pools and spas R403.10 | | |
| 19. | Portable spas R403.11 | | |
| 20. | Residential pools and permanent residential spas R403.12 | | |

| # | **ELECTRICAL POWER AND LIGHTING SYSTEMS** | ✓ | **N/A** |
|---|---|---|---|
| 21. | Lighting equipment R404.1 | | |
| 22. | Interior lighting controls R404.2 | | |