GREEN BUILDING CODE CORRECTION SHEET FOR
NEWLY CONSTRUCTED RESIDENTIAL BUILDINGS
(2014 LAGBC)

Plan Check Submittal Date: ____________________________________

Plan Check / Permit Application Number: ______________________ / _________-_____-_____

Job Address: _____________________________________________________________________________

Applicant: ______________________________________________ Phone: _________________________

P.C. Engineer: ___________________________________________ Phone: _________________________

E-mail: _______________________________________________

INSTRUCTIONS FOR PROCEEDING WITH THE PLAN CHECK (PC) PROCESS:

1. **Review corrections marked on this Plan Check Correction Sheet**, the plans, and the calculation sheets.

2. Provide a written response or reference to details pursuant to the corrections. Location of any revisions on the plans shall be identified as part of your responses. Any of the forms requested by this document can be found on-line at [http://www.http://ladbs.org/LADBSWeb/green-bldg.jsf](http://www.http://ladbs.org/LADBSWeb/green-bldg.jsf)

3. Phone or email the Plan Check engineer for a verification appointment after you have addressed the corrections. Verification of corrections is only done by appointment.

4. Bring the originally checked set of plans and calculations at the time of your appointment with this plan correction sheet.

5. **If you have any questions or need clarification on any plan check matters, please contact a plan check supervisor at (213) 202-3400.**

- **ADMINISTRATIVE**

  1. Complete and incorporate *Mandatory Requirements Checklist for Newly Constructed Residential Buildings*, Form GRN 4 (revised 07/01/2015), into the plans.  (102.2)

  2. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Refer to non-residential correction sheet for non-residential portion.  (302)

- **PLANNING AND DESIGN**

  3. The *Storm Water Pollution Control*, Form GRN 1, shall be incorporated into the plans.  (4.106.2)

  4. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering the building. Contour lines, elevation points, and/or slope arrows may be used to show compliance with this requirement.  (4.106.3)

  5. For future installation of electric vehicle supply equipment (EVSE) in each one- and two-family dwellings and townhouses:

     a. Show on plans that a minimum 1” (inside diameter) listed raceway is installed for each unit to accommodate a dedicated 208/240 volt branch circuit. The raceway shall originate at the main service or a subpanel and terminate in close proximity to the proposed location of the charging system into a listed cabinet, box or enclosure.  (4.106.4.1)

     b. Add note to plans: “The panel or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.”

     c. Add note to plans: “The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as *EV CAPABLE*. The raceway termination location shall be permanent and visibly marked *EV CAPABLE*.”
6. For residential occupancies which have a common parking area, at least 5% of the total parking spaces, but not less than one, shall be electric vehicle charging stations (EVCS) capable of supporting future electric vehicle supply equipment (EVSE). At least one EVCS shall be located in common use areas and available for use by all residents. Show on plans that the following are provided:
   a. Where only one EVCS is required, install a minimum 1-inch (inside diameter) raceway to accommodate a dedicated 208/240 volt branch circuit. Raceway shall originate at the main service or subpanel and terminate in close proximity to the EVCS into a listed cabinet, box or enclosure.
   b. Where multiple charging spaces are required, show raceway termination point, EVCS and EV chargers.
   c. The minimum length of each EVCS shall be 18 feet.
   d. The minimum width of each EVCS shall be 9 feet.
   e. One in every 25 EVCS, but not less than one, shall also comply with the following:
      i. 8 ft. wide aisle next to a 9 ft. EVCS or a 5 ft. wide aisle next to a 12 ft. wide EVCS.
      ii. The surface slope for this EVCS and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) on any direction.
   f. Add note to plans: “The electrical system shall have sufficient capacity to simultaneously charge all designated EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. A separate electrical permit is required.”
   g. Add note to plans: “The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as EV CAPABLE in accordance with the Los Angeles Electrical Code.”

7. Plans shall identify the type of roofing, manufacturer, product, and color used. Incorporate the material specifications for the roofing product used and show that it meets the following minimum SRI value or both solar reflectance and thermal emittance values:
   a. For roof slopes < 2:12: SRI value of at least 75 or both a 3-year solar reflectance of at least 0.63 and a thermal emittance of at least 0.75
   b. For roof slopes ≥ 2:12: SRI value of at least 16 or both a 3-year solar reflectance of at least 0.20 and a thermal emittance of at least 0.75

8. Provide computations showing that at least 25% of the pathways, patios, driveways and other paved areas comply with one or a combination of the following:
   a. Shade provided by trees or plantings
      i. Include plants’ fact sheet justifying crown spread at 5 years maturity
   b. Hardscape material with an initial solar reflectance of at least 0.30
      i. Include manufacturer’s specs for pavers or specify uncolored concrete with smooth cement finish.
   c. Open grid or permeable pavement systems
      i. Include open grid and/or permeable paver detail
   d. Shade provided by a canopy shade system consisting of solar panel arrays

   (4.106.7)

ENERGY EFFICIENCY

9. For one- and two-family dwellings, comply with the following:
   a. Designate on the roof plan solar zone area(s) with total area equal to or greater than 250 sq ft. The solar zone shall be comprised of areas that have no dimension less than 5 feet and each area shall not be less than:
      i. 80 sq ft for roof areas of 10,000 sq ft or less
      ii. 160 sq ft for roof areas over 10,000 sq ft.
   b. For roof slopes > 2:12 (9.5° from horizontal), show that the solar zone is oriented between 110° and 270° of true north.
   c. The solar zone shall be free of obstructions and be setback at least two times the height of any obstruction, including but not limited to, vents, chimneys, and equipment.
   d. Plans shall indicate a location for inverters and metering equipment and a pathway for routing from the solar zone to the main service panel.
   e. Plans shall indicate a pathway for routing of plumbing from the solar zone to the water-heating system.
   f. The main service panel shall have a minimum busbar rating of 200 amps.
   g. Add note to plans: “The main electrical service panel shall have a reserved space to allow for installation of a double pole circuit breaker for a future solar electric installation. The reserved space shall be positioned at the opposite (load) end from the input feeder location or main circuit location and shall be permanently marked as ‘For Future Solar Electric’.”

   (4.211.4, Energy Code §110.10)
10. For residential buildings, other than one- and two-family dwellings, comply with the following:

a. Designate on the roof plan solar zone area(s) with total area equal to or greater than 15% of the building’s roof area. The solar zone shall be comprised of areas that have no dimension less than 5 feet and each area shall not be less than:
   i. 80 sq ft for roof areas of 10,000 sq ft or less
   ii. 160 sq ft for roof areas over 10,000 sq ft.

b. For roof slopes > 2:12 (9.5° from horizontal), show that the solar zone is oriented between 110° and 270° of true north.

c. The solar zone shall be free of obstructions and be setback at least two times the height of any obstruction, including but not limited to, vents, chimneys, and equipment.

d. Plans shall indicate a location for inverters and metering equipment and a pathway for routing from the solar zone to the main service panel.

e. Plans shall indicate a pathway for routing of plumbing from the solar zone to the water-heating system.

(4.211.4, Energy Code §110.10)

11. Add note to plans: “A copy of the construction documents or a comparable document indicating the information from Energy Code Sections 110.10(b) through 110.10(c) shall be provided to the occupant.”

(Energy Code §110.10(d))

WATER EFFICIENCY AND CONSERVATION

12. Add note to plans: “The flow rates for all plumbing fixtures shall comply with the maximum flow rates specified in Section 4.303.1”

(4.303.1)

13. Incorporate Form GRN 16 into plans.

14. Document on drawings: “When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one showerhead to be in operation at a time.”

(4.303.1.3.2)

15. For landscape areas over 2,500 sq. ft., provide a water budget that conforms to the Model Water Efficient Landscape Ordinance (MWELO) using an ET Adjustment Factor (EATF) of 0.55 and a Special Landscape Area (SLA) factor of 0.45.

(4.304.1)

MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

16. Show location of irrigation controller(s) on plans. Irrigation controller(s) shall be either weather- or soil-based under any of the following conditions:
   a. Any newly-installed irrigation controller(s); or
   b. On sites with 2,500 sq. ft. or more of cumulative irrigated landscape areas.

(4.304.2)

17. Add note to plans: “For projects that include landscape work, the Landscape Certification, Form GRN 12, shall be completed prior to final inspection approval.”

(State Assembly Bill No. 1881)

ENVIRONMENTAL QUALITY

18. Show or state on plans that annular spaces around pipes, electric cables, conduits, or other openings in the sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry, or metal plates. Piping prone to corrosion shall be protected in accordance with Section 313.0 of the Los Angeles Plumbing Code.

(4.406.1)

19. Provide flashing details for roof valleys, around windows and doors and at chimney to roof intersections on the building plans.

(4.407.3)

20. Add note to plans: “Materials delivered to the construction site shall be protected from rain or other sources of moisture.”

(4.407.4)

21. Construction waste shall be reduced by 50%. Indicate how construction waste will be handled:
   a. City of Los Angeles certified hauler
   b. Source separated on site (Incorporate waste management plan onto plans)

(4.408.1)

22. Note on the drawings: “An Operation and Maintenance Manual including, at a minimum, the items listed in Section 4.410.1, shall be completed and placed in the building at the time of final inspection.” Form GRN 6

(4.410.1)

23. Plans shall state that the fireplace is direct-vent, sealed combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable. Incorporate manufacturer’s specifications onto plans.

(4.503.1)
24. Wood burning fireplaces and other wood burning devices are prohibited. (AQMD Rule 445)

25. Add note to plans: “All duct and other related air distribution component openings shall be covered with tape, plastic, or sheet metal until the final startup of the heating, cooling, and ventilating equipment.” (4.504.1)

26. Add note to plans: “Architectural paints and coatings, adhesives, caulks and sealants shall comply with the Volatile Organic Compound (VOC) limits listed in Tables 4.504.1 - 4.504.3.” (4.504.2.1-4.504.2.3)

27. The VOCs and Formaldehyde Limits, Form GRN 11, shall be incorporated into the plans.

28. Add the following notes to plans:
   a. The VOC Content Verification Checklist, Form GRN 2, shall be completed and verified prior to final inspection approval. The manufacturer’s specifications showing VOC content for all applicable products shall be readily available at the job site and be provided to the field inspector for verification. (4.504.2.4)
   b. All new carpet installed in the building interior shall meet the testing and product requirements of one of the following:
      i. Carpet and Rug Institute’s Green Label Plus Program
      ii. California Department of Public Health’s Specification 01350
      iii. NSF/ANSI 140 at the Gold level
      iv. Scientific Certifications Systems Indoor Advantage™ Gold
         (4.504.3)
   c. All new carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program. (4.504.3.1)
   d. 80% of the total area receiving resilient flooring shall comply with one or more of the following:
      i. Certified as a CHPS Low-Emitting Material in the CHPS High Performance Products Database
      ii. Certified under UL GREENGUARD Gold
      iii. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program
      iv. Meet the California Department of Public Health’s Specification 01350
         (4.504.4)
   e. New hardwood plywood, particle board, and medium density fiberboard composite wood products used in the interior or exterior of the building shall meet the formaldehyde limits listed in Table 4.504.5. (4.504.5)
   f. The Formaldehyde Emissions Verification Checklist, Form GRN 3, shall be completed prior to final inspection approval. The manufacturer’s specifications showing formaldehyde content for all applicable wood products shall be readily available at the job site and be provided to the field inspector for verification.
      (4.504.5)
   g. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed until it is inspected and found to be satisfactory by the building inspector. (4.505.3)
      (4.507.2)

29. A 4-inch thick base of ½ inch or larger clean aggregate shall be provided for the proposed slab on grade construction. Show on details. (4.505.2.1)

30. A vapor barrier shall be provided in direct contact with concrete for the proposed slab on grade construction. Show on details. (4.505.2.1)

31. Show location of exhaust fans on plans for bathrooms containing bathtubs, showers, or tub/shower combinations. Plans shall state that the bathroom exhaust fans comply with the following:
   i. Fans shall be ENERGY STAR compliant and be ducted to terminate to the outside of the building.
   ii. Fans, not functioning as a component of a whole house ventilation system, must be controlled by a humidity control. (4.506.1)
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<td>When the building plans are complete, please make an appointment with your plan check reviewer. Bring the final set of plans along with this correction sheet and marked set for Green Building approval and permit clearance.</td>
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