



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:

- Review corrections marked on this Plan Check Correction Sheet**, the plans, and the calculation sheets.
- 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.ladbs.org/LADBSWeb/green-bldg.jsf>
- 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.
- Bring the originally checked set of plans and calculations at the time of your appointment with this plan correction sheet.
- If you have any questions or need clarification on any plan check matters, please contact a plan check supervisor at (213) 202-3400.**

ADMINISTRATIVE

- Complete and incorporate *Mandatory Requirements Checklist for Newly Constructed Residential Buildings*, Form GRN 4, into the plans. (102.2)
- 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

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

- For future installation of electric vehicle supply equipment (EVSE) in one- and two-family dwellings and townhouses:
 - Show on plans that a minimum 1” (inside diameter) listed raceway is installed 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.
 - Add note to plans: “Sufficient conductor sizing and service capacity to install Level 2 EVSE shall be provided.”
 - Add note to plans: “A label stating ‘EV CAPABLE’ shall be posted in a conspicuous place at the service panel or subpanel and next to the raceway termination point.” (4.106.4.1)

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 capable of supporting future installation of electric vehicle supply equipment (EVSE). Show on plans that the following are provided:

- a. Where only a single charging space 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 proposed location of the charging system into a listed cabinet, box or enclosure.
- b. Where multiple charging spaces are required, show location(s) and type of EVSE, raceway method(s). Only underground raceways and related underground equipment are required to be installed at the time of construction. Electrical calculations shall verify that system has sufficient capacity to simultaneously charge all designated EV spaces at full rated amperage based on Level 2 EVSE.
- c. Add note to plans: "The electrical system shall have sufficient capacity to simultaneously charge all designated EV spaces at full rated amperage based on Level 2 EVSE. A separate electrical permit is required."
- d. Add note to plans: "A label stating 'EV CAPABLE' shall be posted in a conspicuous place at the service panel or subpanel and the EV charging space."

(4.106.4.2)

7. 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
- b. Hardscape material with an initial solar reflectance of at least 0.30
- c. Open grid or permeable pavement systems
- d. Shade provided by a canopy shade system consisting of solar panel arrays.

(4.106.7)

ENERGY EFFICIENCY

8. For one- and two-family dwellings, comply with the following:

- a. Designate on the roof plan a solar zone with a total area of at least 250 sq. ft. with no dimension less than 5 feet.
- 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.
- h. 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)

9. For residential buildings, other than one- and two-family dwellings, comply with the following:

- a. Designate on the roof plan a solar zone with a total area equal to or greater than 15% of the total roof area of the building.
- 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)

10. 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

11. 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)
12. Incorporate Form **GRN 16** into plans.
13. 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)
14. Indicate on plans that installed automatic irrigation system controllers are weather- or soil-based controllers. Show location of controller on plans. (4.304.1)
15. Buildings on sites with over 2,500 sq. ft. of cumulative irrigated landscaped areas shall have irrigation controllers that are either weather- or soil-based. Show location of controller on plans. (4.304.1.1)
16. 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)

MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

17. 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)
18. Provide flashing details for roof valleys, around windows and doors and at chimney to roof intersections on the building plans. (4.407.3)
19. Add note to plans: "Materials delivered to the construction site shall be protected from rain or other sources of moisture." (4.407.4)

20. 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)
21. 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)

ENVIRONMENTAL QUALITY

22. 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)
23. Wood burning fireplaces and other wood burning devices are prohibited. (AQMD Rule 445)
24. 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)
25. 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)
26. The *VOCs and Formaldehyde Limits*, Form GRN 11, shall be incorporated into the plans.
27. 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. VOC emission limits defined in the CHPS High Performance Products Database
 - ii. Products compliant with the CHPS criteria certified under the Greenguard Children & Schools program
 - iii. Certification 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)
- h. The heating and air-conditioning systems shall be sized and designed using ANSI/ACCA Manual J-2004, ANSI/ACCA 29-D-2009 or ASHRAE handbooks and have their equipment selected in accordance with ANSI/ACCA 36-S Manual S-2004. (4.507.2)
- 28. 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)
- 29. 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)
- 30. 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)

ADDITIONAL CORRECTIONS / COMMENTS

No.		Code Sec. No.
	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.	

