MARIN COUNTY GREEN BUILDING FORM

STANDARDS FOR MULTI-FAMILY AND HOTEL/MOTEL RENOVATIONS 750 SQ. FT. OR MORE

The provisions of this checklist apply to projects where the cumulative scope of the permitted work is 750 square feet or more. These green building standards have been established to ensure that residential renovations (aka additions and alterations) such as multi-family residences, hotel/motels, and other dwellings in Marin County is healthy for occupants, has limited impact on the environment, reduces demand for energy, and results in cost savings from building operation. Requirements were adopted November 2022 and enforced starting January 1, 2023, ending December 31, 2025. The three-step process below helps applicants understand and comply with the County's green building requirements. Please reference Title 19.04 and 19.07 of the Marin County Building Code to comply.

GREEN BUILDING PROJECT PROCESS

1 PROJECT DESIGN

It is important for project owners, architects, engineers, and designers to understand the applicable state and local green building requirements prior to project design. Early consideration of these standards allows for design of buildings and systems that are compliant, energy efficient, and cost effective, and minimize back and forth.

2 PLANNING APPLICATION (IF REQUIRED)

If your project is subject to planning review, be prepared to identify in your planning application what compliance methods you've selected and how you plan to meet the requirements. If you anticipate difficulties meeting the requirements outlined in the Green Building Checklist, these concerns and any requests for exemptions should be identified in your planning application.

3 INITIAL BUILDING PERMIT SUBMITTAL

All the following MUST be included with your initial application for a building permit:
☐ Completed Marin County Green Building Checklist (pages 2-3)
☐ Completed Marin County CALGreen Tier 1 Checklist (pages 4-16), with plan sheet
references where applicable.
☐ Energy Code compliance documents as required under State Energy Code

DEFINITION OF "NEW CONSTRUCTION"

Removal or substantial modification of more than 75 percent of the linear sum of a building's exterior walls for each story shall be considered demolition of the building (County of Marin Development Code Chapter 22.130.030), triggering the new construction requirements. If your renovation (addition and alteration) project meets this definition, please see the guide for new construction.

MARIN COUNTY GREEN BUILDING CHECKLIST

STANDARDS FOR MULTI-FAMILY AND HOTEL/MOTEL RENOVATIONS 750 SQ. FT. OR MORE

PR	OJECT ADDRESS:		
ΑP	N: APPLICANT NAME:		
1.	GREEN BUILDING AND EV READINESS ☐ Complete this Marin County Green Building Checklist AND CALGreen Tier 1 Checklist: Standards for Multifamily Residential Renovations 750 square feet or more. VERIFICATION: Checklists must be signed by a qualified building professional, such as an architect, engineer, or a qualified green building professional and attached to your application		
2.	 ■ Meet the standards outlined for the project in the 2022 State Building Energy Efficiency Standards. While local standards for renovations 750 square feet or more do not require applicants to exceed statewide energy efficiency codes, be aware of the mandatory requirements established by the state that may apply to your project. Changes that may trigger additional requirements or HERS verification may include, but are not limited to, the addition, alteration, or expansion of: Fenestration, including windows, skylights, and doors with more than 3 sq.ft. of glass Insulation and Ducts New space heating and cooling, water heating, and ventilation systems VERIFICATION: Attach Title 24 Energy Reports that complies with State minimum energy code 		
3.	LOW CARBON CONCRETE (Check One of the Following) □ Permit application includes completed Cement or Embodied Carbon limit compliance forms that can be found on the County's Low-Carbon Concrete Requirements webpage. VERIFICATION: Compliance forms must be signed re-submitted after completion of poured concrete along with batch (proof) receipts.		
	□ Not applicable; the project does not include pouring new concrete.		
4.	PROJECT VERIFICATION This form and all referenced forms herein have been completed by		
	Signature Date		
	Name (Please Print)		

5.	SUMMARIZING ENERGY END USE (CHECK BOXES AND INPUT VALUES): □ Total Conditioned Floor Area within the Project Scope square feet
	SELECT either the Performance or Prescriptive-based Compliance Pathway below and submit appropriate documentation as requested (Check One of the Following): □ For projects using the Performance Based Pathway to Compliance, submit data extract in .xml format from the 2022 Energy Code Compliance Software (CBECC or EnergyPro)
	 □ For projects using the Prescriptive Based Pathway to Compliance (Check One of the Following): □ Submit data extract in .xml format from the 2022 Energy Code Compliance Software (CBECC or EnergyPro), OR □ If Energy Code Compliance Software was not used, please select the following measures
	planned for installation in Table 1 below, within the scope of your project (check all that apply):

Table 1. Measures and Appliances Installed			
Check All That Apply	Measures Installed	Check All That Apply	Measures Installed
	Air Sealing		Heat Pump Water Heater, High Efficiency, NEEA Tier 3
	Cool Roof		Hot water pipe and tank insulation, low-flow fixtures
	Duct Sealing		Induction Cooktop
	Exterior Photosensor		LED lamp vs CFL
	Heat Pump Dryer		New Ducts
	Heat Pump HVAC		R-49 Attic Insulation
	Heat Pump HVAC, High Efficiency, SEER 21 or greater; HSPF 11 or greater		Solar PV kW DC
	Heat Pump Water Heater		Battery (storage) kWh
	Other (please describe):		

VERIFICATION: Compliance will be verified by 1) submitting 2022 Energy Code Compliance Software data extract (.xml) and attaching Title 24 Energy Reports that complies with State minimum energy code, OR 2) completing Table 1 above.

MARIN COUNTY CALGREEN TIER 1 CHECKLIST

STANDARDS FOR MULTI-FAMILY AND HOTEL/MOTEL RENOVATIONS 750 SQ. FT. OR MORE

This checklist is effective January 1, 2023 and applies to additions and alterations of multi-family dwellings, hotels, motels, lodging houses, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations, and accessory structures.

The provisions of this checklist apply to projects where the cumulative scope of the permitted work being added to or altered is 750 square feet or more. Existing site and landscaping improvements that are not otherwise disturbed are not subject to CALGreen.

Submit this CALGreen Tier 1 checklist accompanied with the Marin County Green Building Checklist (see pages 2-3 above) with your plans to demonstrate compliance with the green building ordinance. This checklist includes modifications specific to Marin County. For more information on the County's Green Building requirements, please visit www.maringreenbuilding.org

For more information on CALGreen and complete measure language, see <u>Marin County Building Code</u>, <u>Chapter 19.04</u>, <u>Subchapter 2</u> which requires (with amendments) CALGreen <u>Chapters 4</u> and <u>Appendix A4</u>.

PROJECT DETAILS	
Project Address	APN
Applicant Name (Please Print)	
PROJECT VERIFICATION	
The green building professional ¹ has reviewed the plans and measures listed below are hereby incorporated into the project plain accordance with the requirements set forth in the 2022 Cali amended by the County of Marin.	ans and will be implemented into the projec
Signature	 Date
Name (Please Print)	

¹ A qualified building professional can be an architect, engineer, contractor, or qualified green building professional, such as a CALGreen Special inspector or LEED AP.

DIVISION 4.1 PLANNING AND DESIGN

- ✓ All measures marked as (MANDATORY) are required unless not in project scope.
- ✓ For all measures marked as (**ELECTIVE**), a minimum of TWO **ELECTIVE** measures must be selected.
- ✓ Use the Checkboxes (図) to mark as Completed, Not Applicable (N/A), or the measure selected.

		an is developed and implemented to manage stormwater runoff from the n compliance with the County of Marin's Stormwater Runoff Pollution Prevention
Completed □	N/A □	Plan sheet reference (if applicable):
		struction plans shall indicate how site grading or a drainage system will manage p water from entering buildings.
Completed □	N/A □	Plan sheet reference (if applicable):
A4.106.2.3 (Moor protected from	•	Displaced topsoil shall be stockpiled for reuse in a designated area and covered
Completed □	N/A □	Plan sheet reference (if applicable):
A4.106.4 (MAI walking, or pat	•	ermeable paving is utilized for not less than 20 percent of the total parking,
Completed □	N/A □	Plan sheet reference (if applicable):
emittance or a A4.106.5.1(3). In Marin County	minimum Śola ty, this measur	pofing materials shall have a minimum 3-year aged solar reflectance and thermal reflectance Index (SRI) equal to or greater than the values specified in Tables are does not apply to low-rise residential. This measure applies only to high-rise and motels with a roof slope >2:12.
Completed □	N/A □	Plan sheet reference (if applicable):

4.106.4.1.2 (MANDATORY) For existing multifamily buildings, comply with EV Charging and parking space requirements as amended from CALGreen, in accordance with <u>Marin County Building Code, Chapter 19.04.135</u> , Section 4.106.4.1.2, for:
☐ PROJECTS UPGRADING THE SERVICE PANEL (select one of the following)
☐ Add designated electrical capacity for 20% of onsite parking spaces to be Level 2 EV Ready
□ N/A
☐ PROJECTS MODIFYING (PAVING MATERIAL AND CURBING REMOVED) THE PARKING LOT (select one of the following):
\square Add raceway (aka conduit) to a minimum of 50% of exposed parking spaces, OR
Add raceway to a minimum of 20% of exposed parking spaces AND install at minimum 5% EVCS to parking spaces requiring any combination of Level 2 and Direct Current Fast Charging EV supply equipment (EVSE), except at least one Level 2 EVSE shall be provided
☐ IF EXISTING ELECTRICAL SERVICE WILL NOT BE UPGRADED in the project scope, designate capacity for parking spaces to the maximum extent that does not require an upgrade to existing electrical service.
4.106.4.2.2 (MANDATORY) For existing hotel, motel, or other dwelling buildings, comply with EV Charging and parking space requirements as amended from CALGreen, in accordance with Marin County Building
Code, Chapter 19.04.135, Section 4.106.4.2.2, for: □ PROJECTS UPGRADING THE SERVICE PANEL (select one of the following)
☐ Add designated electrical capacity for 20% of onsite parking spaces to be Level 2 EV Ready
□ N/A
☐ PROJECTS MODIFYING (PAVING MATERIAL AND CURBING REMOVED) THE PARKING LOT (select one of the following):
\square Add raceway (aka conduit) to a minimum of 50% of exposed parking spaces, OR
Add raceway to a minimum of 20% of exposed parking spaces AND install at minimum 5% EVCS to parking spaces requiring any combination of Level 2 and Direct Current Fast Charging EV supply equipment (EVSE), except at least one Level 2 EVSE shall be provided
☐ IF EXISTING ELECTRICAL SERVICE WILL NOT BE UPGRADED in the project scope, designate capacity for parking spaces to the maximum extent that does not require an upgrade to existing electrical service.
Plan sheet reference (if applicable):

(check at least one):	LECTIVE) - A site which compiles with at least one of the following characteristics
☐ Infill	
☐ Greyfield	
☐ EPA-recognized E	Brownfield
Plan sheet reference (if app	licable):
A4.103.2 Site Selection (Eldistance of (check at least of	LECTIVE) - Facilitate Community connectivity by locating w/in true walking ne):
☐ ¼ mile of at least	4 basic services
☐ ½ mile of at least	7 basic services
\square Other methods in	creasing access to additional resources
Plan sheet reference (if app	licable):
	(ELECTIVE) - An individual with oversight responsibility of the project has all program promoting environmentally friendly design or development and has on to appropriate entities
Completed □ N/A □	Plan sheet reference (if applicable):
disassembled for reuse or re	and Reuse of Existing Materials (ELECTIVE) - Existing buildings are ecycling of building material. The proposed structure utilizes at least one of the n be easily reused (check at least one):
☐ Light fixtures	☐ Electrical devices
☐ Plumbing fixtures	☐ Appliances
□ Doors and trim	☐ Foundations or portions of foundations
☐ Masonry	
Plan sheet reference (if app	licable):
, ,,	
	ent (ELECTIVE) – Soil analysis is performed by a license design professional and ructural design of the building
Completed □ N/A □	Plan sheet reference (if applicable):

following (check at least of	ment (ELECTIVE) – Soil disturbance and erosion are minimized by using one of the one):
•	ge patterns are evaluated and erosion controls are implemented to minimize erosion ction and after occupancy.
☐ Site access is a and driveways.	accomplished by minimizing the amount of cut and fill needed to install access roads
	onstruction activities are coordinated to utilize the same trench, minimize the amount urbed soil is exposed and the soil is replaced using accepted compaction methods.
Plan sheet reference (if a	pplicable):
A4.106.3 Site Developm the following (check at least	ent (ELECTIVE) – Postconstruction landscape designs accomplish one or more of ast one):
☐ Areas disrupted patterns	d during construction are restored to be consistent with native vegetation species and
☐ Utilize 75 perce climate zone re	ent of native California or drought tolerant plant and tree species appropriate for the egion.
Plan sheet reference (if a	pplicable):
	ent (ELECTIVE) – Install a vegetated roof for at least 50 percent of roof area and ments for roof gardens and landscaped roofs in California Building Code, Chapter
Completed □ N/A □	Plan sheet reference (if applicable):
	ent (ELECTIVE) – Reduce nonroof heat islands for 50 percent of sidewalks, patios, areas by using one or more of the methods listed.
Completed □ N/A □	Plan sheet reference (if applicable):
	ent (ELECTIVE) – Provide bicycle parking facilities as noted below or meet a local A4.106.9.1, A4.106.9.2, or A4.106.9.3
Completed □ N/A □	Plan sheet reference (if applicable):
A4.306.1 Innovative Co	ncepts and Local Environmental Conditions (ELECTIVE)
Completed □ N/A □	Plan sheet reference (if applicable):

DIVISION 4.2 ENERGY EFFICIENCY

- ✓ All measures marked as (MANDATORY) are required unless not in project scope.
- ✓ Use the Checkboxes (☒) to mark as Completed, Not Applicable (N/A), or the measure selected.

4.201.1 (MANDATORY) Efficiency Standards.	Building meets or exceeds the requirements of the California Building Energy
Completed □ N/A □	Plan sheet reference (if applicable):
DIVISION 4.3 WATI	ER EFFICIENCY AND CONSERVATION
✓ For all measures i	ked as (MANDATORY) are required unless not in project scope. marked as (ELECTIVE), a minimum of TWO ELECTIVE measures must be selected tes (⊠) to mark as Completed, Not Applicable (N/A), or the measure selected.
	e (MANDATORY) Plumbing fixtures (water closets and urinals) and fittings (faucets ed in residential buildings shall comply with the prescriptive requirements of Sections .4.5.
Completed □ N/A □	Plan sheet reference (if applicable):
4.303.1.4.3 Indoor Water more than 0.2 gallons per	Use (MANDATORY) – Metering faucets in residential buildings shall not deliver cycle.
Completed □ N/A □	Plan sheet reference (if applicable):
mixed-use residential/co	e (MANDATORY) – Submeters for multifamily building and dwelling units in ommercial buildings. Submeters shall be installed to measure water usage of units in accordance with the California Plumbing Code.
Completed \square N/A \square	Plan sheet reference (if applicable):
	e (MANDATORY) – Plumbing fixtures and fittings required in Section 4.303.1 shall with the California Plumbing Code and shall meet the applicable referenced
Completed □ N/A □	Plan sheet reference (if applicable):
efficient landscape ordina	Jse (MANDATORY) – Residential developments shall comply with local water nce or the current California Department of Water Resources Model Water Efficient WELO), whichever is more stringent.
Completed □ N/A □	Plan sheet reference (if applicable):
disinfected tertiary recycle	stems (MANDATORY) – Newly constructed residential developments, where ed water is available from a municipal source to a construction site, may be required pply systems installed, allowing the use of recycled water for residential landscape

Plan sheet reference (if applicable):

Completed □ N/A □

gallons per minute at 60 psi not to exceed 2.2 gallons pe	. Kitchen faucets may temporarily increase the flow above the maximum rate, but er minute at 60 psi, and must default to a maximum flow rate of 1.5 gallons per ere complying faucets are unavailable, aerators or other means may be used to
Completed □ N/A □	Plan sheet reference (if applicable):
nonpotable water sources a	e (ELECTIVE) – Alternate water sources for nonpotable applications. Alternate are used for indoor potable water reduction. Alternate nonpotable water sources ance with the California Plumbing Code.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.303.3 Indoor Water Use clothes washer.	e (ELECTIVE) – Install at least one qualified ENERGY STAR dishwasher or
Completed □ N/A □	Plan sheet reference (if applicable):
A4.303.4 Indoor Water Use	e (ELECTIVE) – Nonwater urinals and waterless toilets are installed.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.303.5 Indoor Water Use hot water recirculation system	e (ELECTIVE) – One- and two-family dwellings shall be equipped with a demand em.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.304.1 Outdoor Water U	se (ELECTIVE) – A rainwater capture system is designed and installed.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.304.2 Outdoor Water U potable water.	Ise (ELECTIVE) – A landscape design is installed that eliminates the use of
Completed □ N/A □	Plan sheet reference (if applicable):
	Ise (ELECTIVE) – For new water service connections, landscaped irrigated areas shall be provided with separate submeters or metering devices for outdoor potable
Completed □ N/A □	Plan sheet reference (if applicable):
	stems (ELECTIVE) – Piping is installed to permit future use of a graywater the clothes washer or other fixtures.
Completed □ N/A □	Plan sheet reference (if applicable):

A4.305.2 Water Reuse S	systems (ELECTIVE) – Recycled water piping is installed.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.305.3 Water Reuse S	systems (ELECTIVE) – Recycled water is used for landscape irrigation.
Completed □ N/A □	Plan sheet reference (if applicable):
	ncepts and Local Environmental Conditions (ELECTIVE) – Items that address cal environmental conditions.
Completed □ N/A □	Plan sheet reference (if applicable):
DIVISION 4.4 MATE	ERIAL CONSERVATION & RESOURCE EFFICIENCY
✓ For all measures	ked as (MANDATORY) are required unless not in project scope. marked as (ELECTIVE), a minimum of TWO ELECTIVE measures must be selected xes (☑) to mark as Completed, Not Applicable (N/A), or the measure selected.
accordance with Marin C	rstems (MANDATORY) – Cement use in foundation mix design is reduced in county Building Code, Chapter 19.07 – Carbon Concrete Requirements. Select one appropriate compliance forms during Plan Review AND for Final Inspection:
☐ Cement Limit F	'athway
☐ For Pla	n Review: Design Team (Structural Engineer/Architect) Low Carbon Concrete Cement Compliance Form
☐ For Fina	al Inspection: Contractor Low Carbon Concrete Cement Compliance Form accompanied by batch receipts from ready-mix supplier
□ Embodied Carb	oon Pathway
☐ For Pla	n Review: <u>Design Team (Structural Engineer/Architect) Low Carbon Concrete EC</u> <u>Compliance Form</u>
☐ For Fina	al Inspection: Contractor Low Carbon Concrete EC Compliance Form accompanied by batch receipts from ready-mix supplier
Plan sheet reference (if a	pplicable):
	es (MANDATORY) – Postconsumer or preconsumer recycled content value (RCV) project, not less than a 10 percent recycled content value.
Completed □ N/A □	Plan sheet reference (if applicable):

electric cables, condui	ts, or other openings in plates at exterior walls shall be protected against the passage of the openings with cement mortar, concrete masonry or similar method acceptable to the
Completed □ N/A □	Plan sheet reference (if applicable):
salvage for reuse a mi accordance with the re	Waste Reduction, Disposal and Recycling (MANDATORY) – Recycle and/or nimum of 65 percent of the nonhazardous construction and demolition waste in eporting standards outlined by Zero Waste Marin. Plan sheet reference (if applicable):
oomplotod = Tunt =	
generated at the site is mixed recyclables that facility average diversi	on Waste Reduction, Disposal and Recycling (MANDATORY) – Construction waste is diverted to recycle or salvage in compliance with at least a 65 percent reduction. Any are sent to mixed-waste recycling facilities shall include a qualified third party verified on rate. Verification of diversion rates shall meet minimum certification eligibility to the local enforcing agency.
Completed □ N/A □	Plan sheet reference (if applicable):
	ntenance and Operation (MANDATORY) – An operation and maintenance manual e building occupant or owner.
Completed □ N/A □	Plan sheet reference (if applicable):
are constructed on a bidentified for the depos	ntenance and Operation (MANDATORY) – Where 5 or more multifamily dwelling units building site, provide readily accessible areas that serve all buildings on the site and is siting, storage and collection of non-hazardous materials for recycling, including (at a ligated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted ce if more restrictive.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.403.1 Foundation constructed.	Systems (ELECTIVE) - Frost protected foundation systems is designed and
Completed □ N/A □	Plan sheet reference (if applicable):
A4.404.1 Efficient Fra size to adequately sup	•
Completed \square N/A \square	Plan sheet reference (if applicable):

A4.404.2 Efficient Framir waste.	g Techniques (ELECTIVE) – Dimensions and layouts are designed to minimize
Completed □ N/A □	Plan sheet reference (if applicable):
A4.404.3 Efficient Framir solid sawn lumber whenev	ag Techniques (ELECTIVE) – Use premanufactured building systems to eliminate er possible.
Completed □ N/A □	Plan sheet reference (if applicable):
	Ig Techniques (ELECTIVE) – Material lists are included in the plans which specify de direction for on-site cuts.
Completed □ N/A □	Plan sheet reference (if applicable):
additional resources for fin	es (ELECTIVE) – One or more of the following materials, that do not require ishing are used (check at least one):
	requiring paint or stain
☐ Windows not red	uiring paint or stain
☐ Siding or exterio	r wall coverings which do not require paint or stain
Plan sheet reference (if ap	plicable):
	es (ELECTIVE) – Floors that do not require additional coverings are usend including natural or stamped concrete floors
Completed □ N/A □	Plan sheet reference (if applicable):
A4.405.4 Material Source	s (ELECTIVE) – Renewable source building products are used.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.407.1 Water Resistandrains.	ce and Moisture Management (ELECTIVE) – Install foundation and landscape
Completed □ N/A □	Plan sheet reference (if applicable):
systems to route water at I	ce and Moisture Management (ELECTIVE) – Install gutter and downspout east 5 feet away from the foundation or connect to landscape drains which mp, bioswale, rainwater capture system or other approved on-site location.
Completed □ N/A □	Plan sheet reference (if applicable):
	ce and Moisture Management (ELECTIVE) – Provide flashing details on the with accepted industry standards or manufacturer's instructions.
Completed □ N/A □	Plan sheet reference (if applicable):

	nce and Moisture Management (ELECTIVE) – Protect building materials delivered om rain and other sources of moisture.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.407.6 Water Resistar protected to prevent water	nce and Moisture Management (ELECTIVE) – Exterior doors to the dwelling are intrusion.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.407.7 Water Resistar least 2 feet in depth is pro	nce and Moisture Management (ELECTIVE) – A permanent overhang or awning at ovided.
Completed □ N/A □	Plan sheet reference (if applicable):
A4.411.1 Innovative Cor	ncepts and Local Environmental Conditions (ELECTIVE)
Completed □ N/A □	Plan sheet reference (if applicable):
DIVISION 4.5 ENVI	RONMENTAL QUALITY
√ For all measures in	ked as (MANDATORY) are required unless not in project scope. marked as (ELECTIVE), a minimum of ONE ELECTIVE measure must be selected. kes (☑) to mark as Completed, Not Applicable (N/A), or the measure selected.
type. Any installed woods Standards (NSPS) emiss to meet the emission limit	IDATORY) – Any installed gas fireplace shall be a direct-vent sealed-combustion tove or pellet stove shall comply with the U.S. EPA New Source Performance ion limits as applicable, and shall have a permanent label indicating they are certified as. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local with Marin County Building Code, Chapter 19.08
Completed □ N/A □	Plan sheet reference (if applicable):
4.504.1 Pollutant Contro openings shall be covered	ol (MANDATORY) – Duct openings and other related air distribution component d during construction.
Completed □ N/A □	Plan sheet reference (if applicable):
4.504.2.1 Pollutant Cont and other toxic compound	rol (MANDATORY) – Adhesives, sealants and caulks shall be compliant with VOC d limits.
Completed □ N/A □	Plan sheet reference (if applicable):
4.504.2.2 Pollutant Cont limits.	rol (MANDATORY) – Paints, stains and other coatings shall be compliant with VOC
Completed □ N/A □	Plan sheet reference (if applicable):

	rol (MANDATORY) – Aerosol paints and coatings shall be compliant with product ROC and other toxic compounds.
Completed □ N/A □	Plan sheet reference (if applicable):
4.504.2.4 Pollutant Cont limit finish materials have	trol (MANDATORY) – Documentation shall be provided to verify that compliant VOC been used.
Completed □ N/A □	Plan sheet reference (if applicable):
4.504.3 Pollutant Contro	ol (MANDATORY) – Carpet and carpet systems shall be compliant with VOC limits.
Completed □ N/A □	Plan sheet reference (if applicable):
4.504.4 Pollutant Contro with specified VOC criteri	ol (MANDATORY) – 80 percent of floor area receiving resilient flooring shall comply a.
Completed □ N/A □	Plan sheet reference (if applicable):
	ol (MANDATORY) – Particleboard, medium density fiberboard (MDF), and hardwood inish systems shall comply with low formaldehyde emission standards.
Completed □ N/A □	Plan sheet reference (if applicable):
	rol (MANDATORY) – Install VOC compliant resilient flooring systems. Ninety (90) iving resilient flooring shall comply with the VOC-emission limits established in
Completed □ N/A □	Plan sheet reference (if applicable):
A4.504.3 Pollutant Cont compliance with VOC lim	rol (MANDATORY) – Thermal insulation installed in the building shall be in its.
Completed □ N/A □	Plan sheet reference (if applicable):
4.505.2 Interior Moisture grade foundations.	e Control (MANDATORY) – Vapor retarder and capillary break is installed at slab on
Completed □ N/A □	Plan sheet reference (if applicable):
4.505.3 Interior Moisture floor framing is checked be	e Control (MANDATORY) – Moisture content of building materials used in wall and pefore enclosure.
Completed □ N/A □	Plan sheet reference (if applicable):

4.506.1 Indoor Air Quality and Exhaust (MANDATORY) – Each bathroom shall be provided with the following:

- 1. ENERGY STAR fans ducted to terminate outside the building.
- 2. Fans must be controlled by a humidity control (Separate or built-in); OR functioning as a component of a whole-house ventilation system.
- 3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of ≤ 50 percent to a maximum of 80 percent.

Completed □ N/A □	Plan sheet reference (if applicable):
4.507.2 Environmental Con selected using the following r	nfort (MANDATORY) – Duct systems are sized, designed, and equipment is methods:
 Size duct systems ac Select heating and co 	nd heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent. cording to ANSI/ACCA 1 Manual D – 2016 or equivalent. coling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent. Plan sheet reference (if applicable):
	(ELECTIVE) – Use composite wood products made with either California Air no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF)
resins.	Plan sheet reference (if applicable):
	and Exhaust (ELECTIVE) – Provide filters on return air openings rated MERV 8 when it is necessary to use HVAC equipment
Completed □ N/A □	Plan sheet reference (if applicable):
	and Exhaust (ELECTIVE) – Direct-vent appliances shall be used when itioned space; or the equipment must be installed in an isolated mechanical room
Completed □ N/A □	Plan sheet reference (if applicable):
A4.509.1 Innovative Conce	ots and Local Environmental Conditions (ELECTIVE)
Completed □ N/A □	Plan sheet reference (if applicable):