

A NEW HOME FOR Rajiv & Deeya Ranjan



NOTE TO CONTRACTOR

THE CONTRACTOR AND/OR SUPPLIER OF MATERIALS SHALL NOT SCALE ANY DIMENSIONS FOR CONSTRUCTION PURPOSES. IN THE EVENT A DIMENSION IS REQUIRED THAT DOES NOT OCCUR ON THE DRAWINGS AND/OR A DIMENSION ERROR IS FOUND ON THE DRAWINGS, THE CONTRACTOR AND/OR SUPPLIER OF MATERIALS WILL NOTIFY THE OFFICE OF MICHELLE MINER DESIGN AND REQUEST ASSISTANCE AS SOON AS POSSIBLE. IF ANY ERROR IS FOUND ON PLAN OF ANY KIND NOTIFY MICHELLE MINER DESIGN. THE CONTRACTOR AND/OR SUPPLIER OF MATERIALS SHALL BE SOLELY RESPONSIBLE FOR THE RESULTS OF ERRORS, DISCREPANCIES AND OMISSIONS WHICH THE CONTRACTOR AND/OR MATERIAL SUPPLIER FAILED TO NOTIFY THE OFFICE OF MICHELLE MINER DESIGN. PRIOR TO CONSTRUCTION AND/OR PROCEED ON OF THE WORK, NO DEVIATION FROM THE PLANS MAY BE MADE WITHOUT THE WRITTEN CONSENT OF MICHELLE MINER DESIGN. APPROVAL BY THE CITY INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE PLANS OR OTHER DOCUMENTS PROVIDED BY THE OFFICE OF MICHELLE MINER DESIGN.

SPECIAL NOTES

BEFORE YOU START CONSTRUCTION REVIEW ALL SHEETS CAREFULLY. READ THE GREEN CHECKLIST SHEETS AND THE TITLE 24 SHEETS FOR REQUIREMENTS AS RULES HAVE CHANGED AND THERE MAY BE THINGS YOU ARE NOT EXPECTING

SCOPE OF WORK

DEMOLISH EXISTING SINGLE STORY HOUSE, DETACHED GARAGE AND SHED
REBUILD A NEW TWO STORY HOME WITH ATTACHED 2 CAR GARAGE AND ADU

ANALYSIS

ASSESSOR'S PARCEL #	303-22-028
LOT AREA:	13,703 S.F.
ZONING:	R1-8
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY RATING:	R-3, U
EXISTING USE:	SINGLE FAMILY RES.
SLOPE OF LOT	FLAT LOT
EXISTING	
EXISTING LIVING:	1302 S.F.
EXISTING GARAGE:	1200 S.F.
EXISTING SHED:	2000 S.F.
TOTAL EXISTING	4502 S.F.
PROPOSED	
NEW LOWER LIVING	2808 S.F.
NEW UPPER LIVING	1945 S.F.
NEW GARAGE	595 S.F.
NEW SHED	48 S.F.
NEW FRONT PORCH	78 S.F.
NEW ADU	748 S.F.
TOTAL SQUARE FOOTAGE	6222 S.F.
COVERAGE	
NEW LOWER LIVING	2808 S.F.
NEW GARAGE	595 S.F.
NEW SHED	48 S.F.
NEW FRONT PORCH	78 S.F.
NEW ADU	748 S.F.
COVERED PATIO	548 S.F.
TOTAL SQUARE FOOTAGE 35.2%	4825 S.F.
ALLOWABLE COVERAGE 40%	5481 S.F.

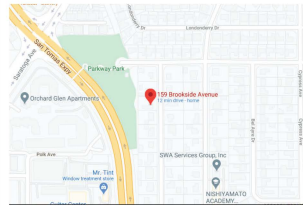
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GENERAL NOTES

ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF MICHELLE MINER DESIGN PRIOR TO COMMENCING.
VERIFY LOCATION OF UTILITIES AND EXISTING CONDITIONS AT SITE PRIOR TO CONSTRUCTION AND BIDDING.
CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR METHOD AND MANNER OF CONSTRUCTION AND FOR ALL JOB SITE SAFETY DURING CONSTRUCTION.
SLOPE ALL FINISH GRADES BY 5% 10' AWAY FROM STRUCTURE FOR POSITIVE DRAINAGE @ LANDSCAPED WESA & SLOPE GRADE 2% MIN. @ PAVED AREAS.
ALL WORK/APPLIANCES AND EQUIPMENT SHALL COMPLY WITH C.E.C. TITLE 24 RESIDENTIAL ENERGY STANDARDS.
NO CONSTRUCTION EQUIPMENT OR PRIVATE VEHICLES SHALL PARK OR BE STORED WITHIN THE DRINKLINE OF ANY ORDINANCE PROTECTED TREES ON SITE.
ADDRESS NUMBERS ON BUILDING SHALL BE CLEARLY VISIBLE FROM STREET OR ROAD FRONTING THE PROPERTY. MIN. 4" HIGH X 1" WIDE PER CRC 103B.
DUCT OPENINGS, TO BE COVERED AND PROTECTION OF MECHANICAL EQUIPMENT TO BE PROVIDED DURING CONSTRUCTION.
VOC COMPLIANCE: - CALLKES, SEALANTS, ADHESIVES, SHALL BE COMPLIANT WITH MFR LIMITS FOR ROC AND OTHER COMPOUNDS (TABLE 4.804.1)
PAINTS AND COATINGS COMPLIANT WITH VOC LIMITS (TABLE 4.804.3)
ADHESIVES AND COATINGS SHALL BE COMPLIANT WITH MFR LIMITS FOR ROC AND OTHER TOXIC COMPOUNDS.
VERIFICATION AND DOCUMENTATION OF VOC LIMITS AND FINISH MATERIALS
VOC COMPLIANCE: - CARPET & CARPET SYSTEMS
80% FLOOR AREA RECEIVING RESILIENT FLOORING MEET VOC EMISSION LIMITS PER CHPS
PARTICLEBOARD, MDF, HARDWOOD PLYWOOD COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS (TABLE 4.804.9)
MOISTURE CONTENT OF FLOORS AND WALLS CHECKED BEFORE ENCLOSURE
BATHROOM EXHAUST FANS SHALL TERMINATE OUTSIDE BUILDING AND CONTROLLED BY HUMIDITY CONTROL.
ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS, OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
CONSTRUCTION WASTE MANAGEMENT
RECYCLE MAJOR WASTE FOR REUSE A MINIMUM OF 85 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH ONE OF THE FOLLOWING:
1. COMPLY WITH A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE;
2. A CONSTRUCTION WASTE MANAGEMENT PLAN, PER SECTION 4.408.2, OR
3. A WASTE MANAGEMENT COMPANY, PER SECTION 4.408.3, OR
4. THE WASTE STREAM REDUCTION ALTERNATIVE, PER SECTION 4.408.4.
OPERATION AND MAINTENANCE MANUAL
AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER.

VICINITY MAP



APPLICABLE CODE

ALL CONSTRUCTION SHALL COMPLY WITH:
2019 CALIF. FIRE CODE
2019 CALIF. BLDG CODE
2019 CALIF. RESIDENTIAL CODE
2019 CALIF. MECH. CODE
2019 CALIF. PLUMB'G CODE
2019 CALIF. ELEC. CODE
2019 CALIF. ENERGY CODES
2019 CALIF. GREEN BUILDING CODES
ANY OTHER APPLICABLE LOCAL & STATE LAWS & REGULATIONS.

PERSONAE

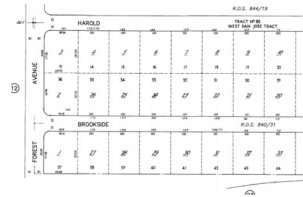
OWNER
Rajiv & Deeya Ranjan
159 Brookside Avenue
Santa Clara, 95050
978-394-2259

DESIGNER
MICHELLE MINER DESIGN
MICHELLE MINER
19488 PROSPECT RD. #6
SARATOGA, CA 95070
(408) 386-0864

STRUCTURAL ENGINEER
NJM CONSULTING ENGINEERING INC.
21 N. HARRISON AVE, SUITE 210
CAMBRIDGE, CA 95009
415-678-9896

TITLE 24
FRI ENERGY CONSULTANTS
19488 PROSPECT RD. #6
SARATOGA, CA 95070
408-866-1620

PARCEL MAP



DEFERRED SUBMITTALS

FIRE SPRINKLERS REQUIRED
1. FIRE SPRINKLERS IN ACCORDANCE WITH NFPA 13D AND STATE AND LOCAL REQUIREMENTS. NOTE THAT PER CRC 213.3.7 A SIGN OR VALVE TAG SHALL BE INSTALLED AT THE MAIN SHUT OFF VALVE TO THE TO THE WATER DISTRIBUTION SYSTEM STATING THE FOLLOWING: "WARNING, THE WATER SYSTEM FOR THIS HOME SUPPLIES FIRE SPRINKLERS THAT REQUIRE CERTAIN FLOWS AND PRESSURES TO FIGHT A FIRE. DEVICES THAT RESTRICT THE FLOW OR DECREASE THE PRESSURE OR AUTOMATICALLY SHUT OFF THE WATER TO THE FIRE SPRINKLER SYSTEM, SUCH AS WATER SOFTENERS, FILTRATION SYSTEMS, AND AUTOMATIC SHUT OFF VALVES, SHALL NOT BE ADDED TO THIS SYSTEM WITHOUT A REVIEW OF THE FIRE SPRINKLER SYSTEM BY A FIRE PROTECTION SPECIALIST. DO NOT REMOVE THIS SIGN."
2. CONSTRUCTION WASTE MANAGEMENT PLAN IN ACCORDANCE WITH CALGREEN 4.408.2

REVISIONS

REV #	DATE	BY

DESIGNER'S SIGNATURE

Michelle Miner

THE PLANS, SEALS AND OTHER DATA ON THESE DRAWINGS ARE THE PROPERTY OF THE DESIGNER. REPRODUCED FOR THIS PROJECT. PLANS SHALL NOT BE USED, COPIED OR IN PART FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MICHELLE MINER DESIGN.

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408.386.0864 Shelmire@mmd.com
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Rajiv & Deeya Ranjan
159 Brookside Avenue, Santa Clara, CA 95050
978-394-2259 rajivswesty@yahoo.com

DRAWN

MM

CHECKED

MM

DATE

3/8/2021

SCALE

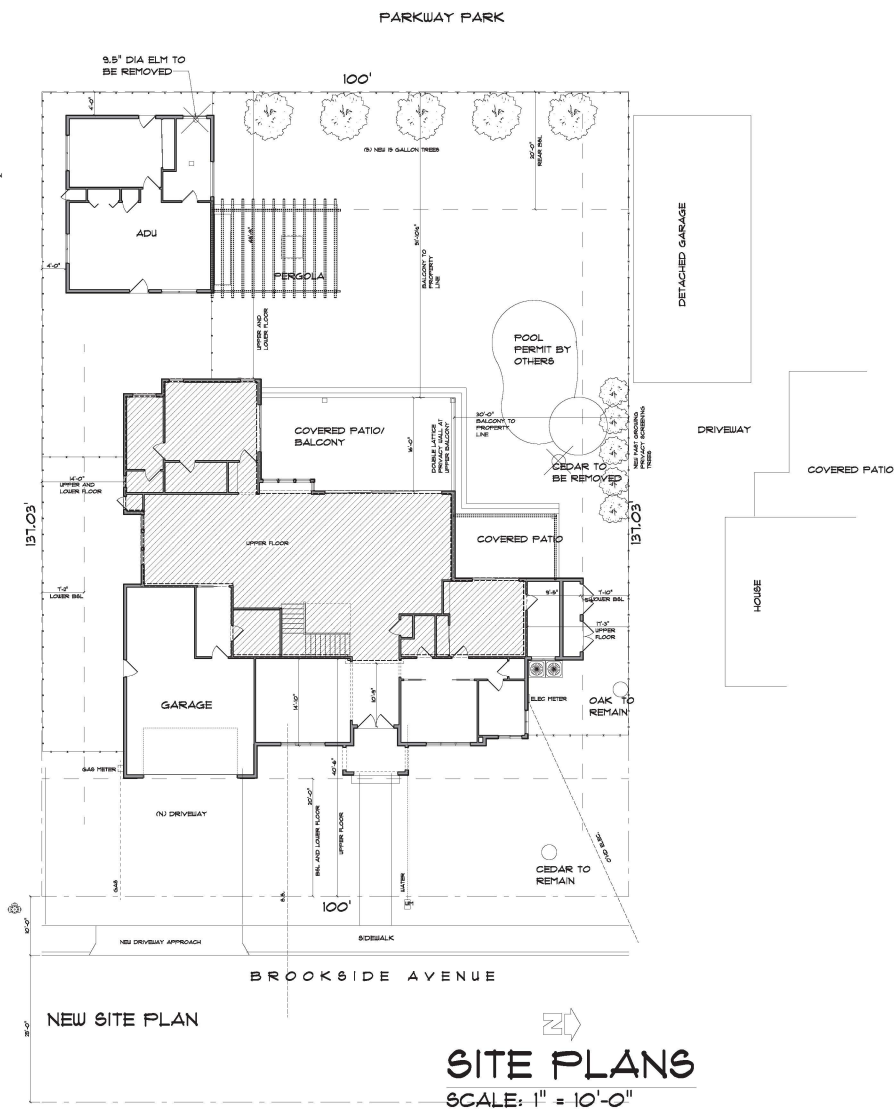
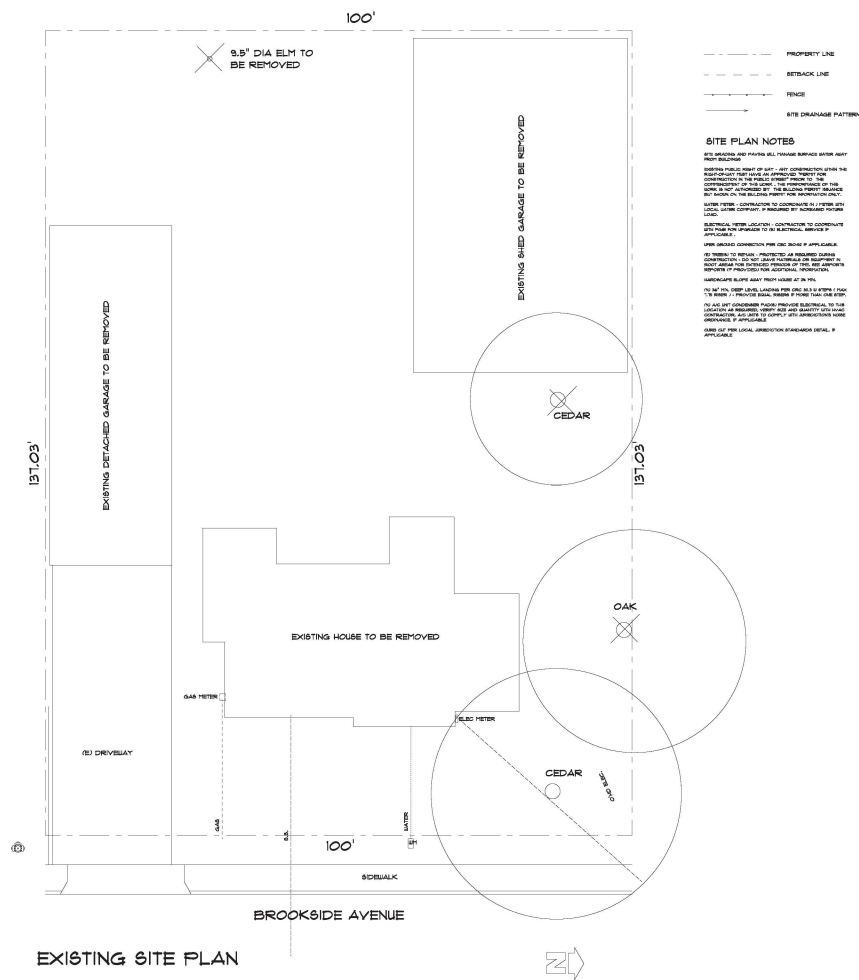
AS SHOWN

JOB NO.

PAGE

1/12

INDEX - VICINITY MAP - ANALYSIS



SITE PLANS

SCALE: 1" = 10'-0"

SCALE: 1" = 10'-0"

REVISIONS		REV #	DATE	BY
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<i>Michelle Miner</i>				
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michelle miner design 18488 Prospect Rd. #6 Santa Clara, CA 95070 408.396.0984 Shellyminer@aol.com WWW.MMDesignHomes.Com				
				
Rajiv & Deeya Ranjan 159 Brookside Avenue, Santa Clara, CA 95050 919.394-2259 rajiv@westjet@yahoo.com				
DATE: 3/8/2011 SCALE: AS SHOWN JOB NO. 2/12				
PAGE: 2/12				
SITE PLAN				

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y	NA	REMARK	PARTY	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL																				
				301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklist and measures contained in this code. Voluntary green building measures are also included in the application checklist and may be included in the design and construction of structures covered by this code, but shall not be required unless adopted by a city, county, or city and county as specified in Section 110.1.7.																				
				301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 3 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.																				
				Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, at 1101.1, for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important exemption dates.																				
				301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by letters to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no letter will be used.																				
				SECTION 302 MIXED OCCUPANCY BUILDINGS																				
				ABBREVIATION DEFINITIONS:																				
				302.1 MIXED OCCUPANCY BUILDINGS.																				
				In mixed occupancy building shall comply with the specific green building measures applicable to each specific occupancy.																				
				HCD Department of Housing and Community Development																				
				RSC California Building Standards Commission																				
				DSA-SS Division of the State Architect, Structural Safety																				
				OSHPD Office of Statewide Health Planning and Development																				
				LR Low-Rise																				
				HR High-Rise																				
				AA Additions and Alterations																				
				N New																				
				CHAPTER 4																				
				RESIDENTIAL MANDATORY MEASURES																				
				DIVISION 4.1 PLANNING AND DESIGN																				
				SECTION 4.102 DEFINITIONS																				
				The following terms are defined in Chapter 2 (and are included here for reference)																				
				FRENCH DRAIN. A trench, how or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.																				
				WATTLERS. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant material such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet control.																				
				4.106 SITE DEVELOPMENT																				
				4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.																				
				4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which is to disturb one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.																				
				1. Retention basins of sufficient size shall be utilized to retain storm water on the site.																				
				2. Where storm water is conveyed to a public drainage system, collection ponds, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.																				
				3. Compliance with a carefully eroded storm water management ordinance.																				
				Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which is to disturb one acre or more of soil.																				
				(Website: https://www.waterboards.ca.gov/swrcb/seasuperfund/projects/water/waterconstruction.htm)																				
				4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:																				
				1. Swales																				
				2. Water collection and disposal systems																				
				3. French drains																				
				4. Water retention gardens																				
				5. Other water measures which keep surface water away from buildings and all in groundwater recharge.																				
				Exception: Additions and alterations not altering the drainage path.																				
				4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, 4.106.4.3, 4.106.4.3.1 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.																				
				Exception:																				
				1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:																				
				1.1 Where there is no commercial power supply.																				
				1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter as so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per dwelling unit.																				
				2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.																				
				4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed receptacle to accommodate a dedicated 200/240-volt branch circuit. The receptacle shall not be less than trade size 1 (nominal 1-inch inside diameter). The receptacle shall originate at the main service or subpanel and shall terminate in a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Receptacles are required to be continuous all enclosed, inaccessible or in-roofing or in-vehicle distribution equipment, have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated capacity of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Required receptacles and related components shall be permitted to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.																				
				4.106.4.2 Identification. The service panel or subpanel circuit directory shall identify the downstream protective device capacity (res) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.																				
				4.106.4.3 New hotels and motels. All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall identify the location of the EV spaces.																				
				Note:																				
				1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.																				
				2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.																				
				4.106.4.3.1 Minimum number of required EV spaces. The number of required EV spaces shall be based on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1. Calculators for the required number of EV spaces shall be rounded up to the nearest whole number.																				
				<table><tr><th colspan="2">TABLE 4.106.4.3.1</th></tr><tr><th>NUMBER OF PARKING SPACES</th><th>NUMBER OF REQUIRED EV SPACES</th></tr><tr><td>0-9<td>0</td></td></tr><tr><td>10-35</td><td>1</td></tr><tr><td>36-50</td><td>2</td></tr><tr><td>51-75</td><td>4</td></tr><tr><td>76-100</td><td>6</td></tr><tr><td>101-150</td><td>7</td></tr><tr><td>151-200</td><td>10</td></tr><tr><td>201 and over</td><td>6 percent of total</td></tr></table>	TABLE 4.106.4.3.1		NUMBER OF PARKING SPACES	NUMBER OF REQUIRED EV SPACES	0-9 <td>0</td>	0	10-35	1	36-50	2	51-75	4	76-100	6	101-150	7	151-200	10	201 and over	6 percent of total
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				4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:																				
				1. The minimum length of each EV space shall be 18 feet (5486 mm).																				
				2. The minimum width of each EV space shall be 9 feet (2743 mm).																				
				4.106.4.3.3 Single EV space required. When a single EV space is required, the EV space shall be designed in accordance with Section 4.106.4.3.3.																				
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				4.106.4.3.5 Identification. The service panel or sub-panel shall be identified in accordance with Section 4.106.4.3.5.																				
				4.106.4.3.6 Accessible EV spaces. In addition to the requirements in Section 4.106.4.3, EV spaces for hotels/motels and all EVSE, when installed, shall comply with the accessibility provisions for the EV charging stations in the California Building Code, Chapter 11B.																				
				DIVISION 4.2 ENERGY EFFICIENCY																				
				4.201 GENERAL																				
				4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory efficiency.																				

Y	NA	REMARK	PARTY	4.106.4.2.1.1 Electric Vehicle Charging Stations (EVCS). When EV chargers are installed, EV spaces required by Section 4.106.4.3.2, item 3, shall comply with at least one of the following options:																				
				1. The EV space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.																				
				2. The EV space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.																				
				Exception: Electric vehicle charging stations serving public housing are required to comply with the California Building Code, Chapter 11B, and are not required to comply with Section 4.106.4.2.1.1 and Section 4.106.4.2.2, item 3.																				
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				3. On one every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle, 5.4-foot (1624 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 9 feet (2743 mm).																				
				a. Surface slope for the EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent) in any direction.																				
				4.106.4.2.3 Single EV space required. Install a listed receptacle capable of accommodating a 200/240-volt dedicated branch circuit. The receptacle shall not be less than trade size 1 (nominal 1-inch inside diameter). The receptacle shall originate at the main service or subpanel and shall terminate in a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the necessary termination point. The service panel and/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.																				
				4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the necessary termination point, and proposed location of future EV spaces and EV chargers. Construction documents shall also provide the necessary termination point of future EVSE, necessary methods, wiring characteristics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any in-vehicle distribution equipment, have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated capacity of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Required receptacles and related components shall be permitted to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.																				
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Y	NA	REMARK	PARTY	DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION																		
				4.303 INDOOR WATER USE																		
				4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.1.4.																		
				Note: All noncompliant plumbing fixtures in new residential and non-residential property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, at 1101.1, for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important exemption dates.																		
				4.303.1.1 Water Closes. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for tank-type toilets.																		
				Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.																		
				4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.																		
				4.303.1.3 Showerheads.																		
				4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for showerheads.																		
				4.303.1.3.2 Multiple Showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.																		
				Note: A hand-held shower shall be considered a showerhead.																		
				4.303.1.4 Faucets.																		
				4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 80 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.1 gallons per minute at 20 psi.																		
				4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 80 psi.																		
				4.303.1.4.3 Refueling Faucets. Refueling faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.																		
				4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 80 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 80 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 80 psi.																		
				Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.																		
				4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Title 1701 of the California Plumbing Code.																		
				NOTE:																		
				THIS TABLE COMPLETES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.																		
				<table><tr><th colspan="2">TABLE - MAXIMUM FIXTURE WATER USE</th></tr><tr><th>FIXTURE TYPE</th><th>FLOW RATE</th></tr><tr><td>SHOWER HEADS (RESIDENTIAL)</td><td>1.8 GPM @ 80 PSI</td></tr><tr><td>LAVATORY FAUCETS (RESIDENTIAL)</td><td>MAX. 1.2 GPM @ 80 PSI MIN. 0.8 GPM @ 20 PSI</td></tr><tr><td>LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS</td><td>0.5 GPM @ 80 PSI</td></tr><tr><td>KITCHEN FAUCETS</td><td>1.8 GPM @ 80 PSI</td></tr><tr><td>METERING FAUCETS</td><td>0.2 GPM/CYCLE</td></tr><tr><td>WATER CLOSET</td><td>1.28 GALL/FLUSH</td></tr><tr><td>URINALS</td><td>0.125 GALL/FLUSH</td></tr></table>	TABLE - MAXIMUM FIXTURE WATER USE		FIXTURE TYPE	FLOW RATE	SHOWER HEADS (RESIDENTIAL)	1.8 GPM @ 80 PSI	LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 80 PSI MIN. 0.8 GPM @ 20 PSI	LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 80 PSI	KITCHEN FAUCETS	1.8 GPM @ 80 PSI	METERING FAUCETS	0.2 GPM/CYCLE	WATER CLOSET	1.28 GALL/FLUSH	URINALS	0.125 GALL/FLUSH
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URINALS	0.125 GALL/FLUSH																					
				4.304 OUTDOOR WATER USE																		
				4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape (MWELO), whichever is more stringent.																		
				NOTE:																		
				1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 22, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at https://www.water.ca.gov/																		

Y	NA	REMARK	PARTY	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY
				4.408 ENHANCED DURABILITY AND REDUCED MAINTENANCE
				4.408.1 ROOFING PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in subsoilment plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
				4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING
				4.408.1 CONSTRUCTION WASTE REDUCTION. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.
				Exceptions:
				1. Excavated soil and land-clearing debris.
				2. Alternative waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
				3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the local boundaries of the enforcing agency.
				4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.
				1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
				2. Specify if construction and demolition waste materials shall be sorted on-site (source separated) or bulk mixed (single stream).
				3. Identify diversion facilities where the construction and demolition waste material collected will be taken.
				4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.
				5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
				4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.
				Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.
				4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LDRM]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq. ft. of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.
				4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.
				4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Item 1 through 5, Section 4.408.3 and Section 4.408.4.
				Notes:
				1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/cggbc/2019/cggbc2019.htm may be used to assist in documenting compliance with this section.
				2. Mixed construction and demolition debris (C & D) processing can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
				4.410 BUILDING MAINTENANCE AND OPERATION
				4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:
				1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
				2. Operation and maintenance instructions for the following:
				a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
				b. Roof and yard drainage, including gutters and downspouts.
				c. Space conditioning systems, including condensers and air filters.
				d. Landscape irrigation systems.
				e. Water reuse systems.
				3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
				4. Public transportation and/or carpool options available in the area.
				5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
				6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
				7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
				8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, greasing around the building, etc.
				9. Information about state solar energy and incentive programs available.
				10. A copy of all special inspection requirements required by the enforcing agency or the code.
				4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the recycling, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, computer cardboard, glass, plastic, organic waste, and metals, or meet a locally mandated local recycling ordinance, if more restrictive.
				Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42661.82 (a)(2)(A) or seq. are not required to comply with the organic waste portion of this section.
				DIVISION 4.5 ENVIRONMENTAL QUALITY
				SECTION 4.501 GENERAL
				4.501.1 ROOF.
				The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of a building's residents, occupants and neighbors.
				SECTION 4.502 DEFINITIONS
				4.502.1 DEFINITIONS
				The following terms are defined in Chapter 2 (and are included here for reference)
				AGRIFFER PRODUCTS. Agrifiber products include sheetrock, sheetrock, panel substrates and door cores, not including furniture, tables and equipment (FME) not considered base building elements.
				COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, pre-laminated wood joists or three-ply joists or joists as specified in the California Code of Regulations (Title 17, Section 93120.1).
				DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.
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				GREEN CHECKLIST

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2019 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIATIONS BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

REVISIONS		
REV #	DATE	BY
DESIGNER'S SIGNATURE		
<i>Michelle Miner</i>		
SEE PLANS, NOTES AND OTHER INFORMATION ON THESE DRAWINGS AND THE PROPERTY OF THE PROJECT. PLANS SHALL NOT BE USED, ADDED TO OR HAVE ANY OTHER INFORMATION ADDED WITHOUT THE WRITTEN PERMISSION OF MICHELLE MINER DESIGN.		
michelle miner design		
19498 Prospect Rd. #6 Saratoga, CA 95070		
408.398.0984 theminerd@gmail.com		
www.mindesigns.com		
Rajiv & Deeya Ranjan		
159 Brookside Avenue, Santa Clara, CA 95050		
978-354-2259 rajiv@rajanrajan.com		
DRAWN		
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DATE		
3/18/2021		

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

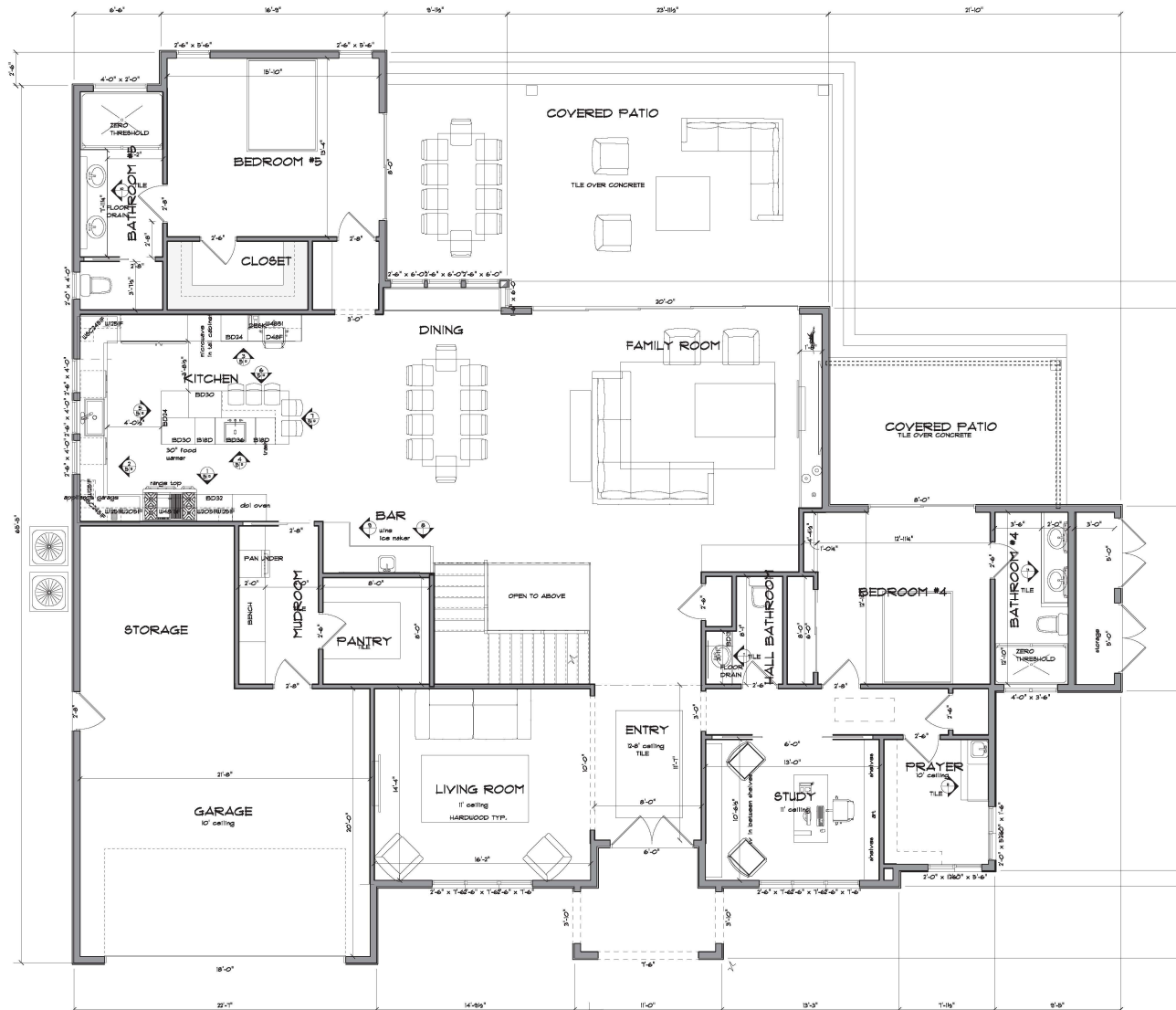
DATE	REVISION																																																																		
MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactant Organic Gas (ROG) Mixture" pool of compound added, expressed as hundredths of a gram of O₃ per gram of ROG. Note: MIR values for individual compounds and hydrocarbon solvents are found in CCR, Title 15, Sections 94700 and 94701.																																																																			
MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.																																																																			
PRODUCT/WEIGHTED MIR (PWMIIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIIR is the total product reactivity expressed as hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIIR is calculated according to equations found in CCR, Title 15, Section 94521 (a).																																																																			
REACTIVE ORGANIC COMPOUND (ROG). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.																																																																			
VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and elements. See CCR Title 15, Section 94505(a).																																																																			
4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed wood-burning or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall be installed in accordance with applicable local ordinances.																																																																			
4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. During construction, the contractor shall control air pollution from the construction site and limit fuel from the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with plastic, steel mesh or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.																																																																			
4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.																																																																			
4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following statements unless more stringent local or regional air quality or quality management district rules apply: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local air quality management district control or quality management district rules unless applicable or SCAQMD Rule 118B VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 118B prohibition on the use of certain toxic compounds (polychlorinated biphenyls, chlorinated hydrocarbons, methylene chloride, perchloroethylene and isocyanates), except for several products, as specified in Section 4.504.2. 2. Aerosol products, and smaller unit sizes of adhesives, and sealant or caulking compounds, in forms of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 10 fluid ounces and shall comply with isocyanate VOC standards and requirements, including prohibitions on the use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94607.																																																																			
4.504.2.2 Paints and Coatings. Aerosol paints and coatings shall comply with VOC limits in Table 4 of the AFB Architectural Support Control Measures, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.1 shall be achieved by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measures, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.1 as applicable.																																																																			
4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-specified MIR limits for ROG in Section 94502(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and certain labeling requirements, in Sections 94522(i)(1) and (j)(1) of the California Code of Regulations. Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 4.2, Rule 45.																																																																			
4.504.2.4 Verification. Verification of compliance with this section shall be provided at the discretion of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification. 2. Field verification of on-site product containers.																																																																			
<table border="1"> <thead> <tr> <th colspan="2">TABLE 4.504.1 - ADHESIVE VOC LIMIT (g)</th> </tr> <tr> <th colspan="2">Less Water and Less Exempt Compounds in Grams per Liter</th> </tr> </thead> <tbody> <tr> <td>ARCHITECTURAL APPLICATIONS</td><td>VOC LIMIT</td> </tr> <tr> <td>INDOOR CARPET ADHESIVES</td><td>50</td> </tr> <tr> <td>CARPET PAD ADHESIVES</td><td>50</td> </tr> <tr> <td>OUTDOOR CARPET ADHESIVES</td><td>150</td> </tr> <tr> <td>WOOD FLOORING ADHESIVES</td><td>100</td> </tr> <tr> <td>RUBBER FLOOR ADHESIVES</td><td>60</td> </tr> <tr> <td>SUBFLOOR ADHESIVES</td><td>60</td> </tr> <tr> <td>CERAMATIC TILE ADHESIVES</td><td>65</td> </tr> <tr> <td>SPAT ASPHALT TILE ADHESIVES</td><td>50</td> </tr> <tr> <td>DRYWALL & PANEL ADHESIVES</td><td>50</td> </tr> <tr> <td>COLE BASE ADHESIVES</td><td>50</td> </tr> <tr> <td>MULTIPURPOSE CONSTRUCTION ADHESIVE</td><td>70</td> </tr> <tr> <td>STRUCTURAL GLAZING ADHESIVES</td><td>100</td> </tr> <tr> <td>SINGLE-PART ROOM MEMBRANE ADHESIVES</td><td>250</td> </tr> <tr> <td>OTHER ADHESIVES NOT LISTED</td><td>50</td> </tr> <tr> <td>SPECIALTY APPLICATIONS</td><td></td> </tr> <tr> <td>CPVC WELDING</td><td>510</td> </tr> <tr> <td>CPVC WELDING</td><td>490</td> </tr> <tr> <td>ASICS WELDING</td><td>325</td> </tr> <tr> <td>PLASTIC CEMENT WELDING</td><td>250</td> </tr> <tr> <td>ADHESIVE PRIMER FOR PLASTIC</td><td>150</td> </tr> <tr> <td>CONTACT ADHESIVE</td><td>80</td> </tr> <tr> <td>SPECIAL PURPOSE CONTACT ADHESIVE</td><td>250</td> </tr> <tr> <td>STRUCTURAL WOOD MEMBRANE ADHESIVE</td><td>160</td> </tr> <tr> <td>PAINT & TRIM ADHESIVE</td><td>250</td> </tr> <tr> <td>SUBSTRATES SPECIFIC APPLICATIONS</td><td></td> </tr> <tr> <td>PLASTIC TO METAL</td><td>30</td> </tr> <tr> <td>METAL TO METAL</td><td>30</td> </tr> <tr> <td>POROUS MATERIAL (EXCEPT WOOD)</td><td>30</td> </tr> <tr> <td>WOOD</td><td>30</td> </tr> <tr> <td>FIBERGLASS</td><td>80</td> </tr> </tbody> </table>		TABLE 4.504.1 - ADHESIVE VOC LIMIT (g)		Less Water and Less Exempt Compounds in Grams per Liter		ARCHITECTURAL APPLICATIONS	VOC LIMIT	INDOOR CARPET ADHESIVES	50	CARPET PAD ADHESIVES	50	OUTDOOR CARPET ADHESIVES	150	WOOD FLOORING ADHESIVES	100	RUBBER FLOOR ADHESIVES	60	SUBFLOOR ADHESIVES	60	CERAMATIC TILE ADHESIVES	65	SPAT ASPHALT TILE ADHESIVES	50	DRYWALL & PANEL ADHESIVES	50	COLE BASE ADHESIVES	50	MULTIPURPOSE CONSTRUCTION ADHESIVE	70	STRUCTURAL GLAZING ADHESIVES	100	SINGLE-PART ROOM MEMBRANE ADHESIVES	250	OTHER ADHESIVES NOT LISTED	50	SPECIALTY APPLICATIONS		CPVC WELDING	510	CPVC WELDING	490	ASICS WELDING	325	PLASTIC CEMENT WELDING	250	ADHESIVE PRIMER FOR PLASTIC	150	CONTACT ADHESIVE	80	SPECIAL PURPOSE CONTACT ADHESIVE	250	STRUCTURAL WOOD MEMBRANE ADHESIVE	160	PAINT & TRIM ADHESIVE	250	SUBSTRATES SPECIFIC APPLICATIONS		PLASTIC TO METAL	30	METAL TO METAL	30	POROUS MATERIAL (EXCEPT WOOD)	30	WOOD	30	FIBERGLASS	80
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2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 118B.																																																																			

SECTION PART	
TABLE 4.504.2 - SEALANT VOC LIMIT (Less Water and Less Exempt Compounds in Grams per Liter)	
SEALANTS	VOC LIMIT
ARCHITECTURAL	350
MARINE DECK	750
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	750
OTHER	750
TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS ^{1,2}	
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	
COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	300
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLO COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	750
OPAQUE	500
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	
BRAND	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340
1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS	
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.	
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, PER 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.	

SECTION	REMARKS												
	TABLE 4.504.5 - FORMALDEHYDE LIMITS : MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION <table> <tr> <th>PRODUCT</th><th>CURRENT LIMIT</th></tr> <tr> <td>HARDWOOD PLYWOOD VENEER CORE</td><td>0.05</td></tr> <tr> <td>HARDWOOD PLYWOOD COMPOSITE CORE</td><td>0.05</td></tr> <tr> <td>PARTICLE BOARD</td><td>0.09</td></tr> <tr> <td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr> <tr> <td>THIN MEDIUM DENSITY FIBERBOARD ^a</td><td>0.13</td></tr> </table> 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD (CARB) IN ITS TEST METHOD MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM 1552 FOR ADDITIONAL INFORMATION SEE CARB'S WEBSITE www.carb.ca.gov FOR REGULATORY METHODS. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).	PRODUCT	CURRENT LIMIT	HARDWOOD PLYWOOD VENEER CORE	0.05	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD ^a	0.13
PRODUCT	CURRENT LIMIT												
HARDWOOD PLYWOOD VENEER CORE	0.05												
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PARTICLE BOARD	0.09												
MEDIUM DENSITY FIBERBOARD	0.11												
THIN MEDIUM DENSITY FIBERBOARD ^a	0.13												
	DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CEMENT SYSTEMS. All cement installed in the building interior shall meet the testing and product requirements of at least one of the following: - Cement and Rug Institute's Green Label Plus Program. - California Department of Industrial Standards Method for the Testing and Evaluation of Volatile Organic Compounds from Indoor Sources Using Environmental Chambers Version 1.1, February 2010 (also known as Specification 01505). - REDHAT 400 of the Gold seal. - Scientific Certification Systems Indoor Advantage [®] Gold. 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program. 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. 4.504.3.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area meeting resilient flooring shall comply with one or more of the following: - Products compliant with the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01505), certified as a CQPSL Low-Emitting Material the Collaborative for High Performance Schools (CHPS) High Performance Products Database. - Products certified under L1 GREENGLASS from the GreenSource Chemicals & Solvents program. - Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. - Meet the California Department of Industrial Standards Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as Specification 01505). 4.504.3 COMPOSITE WOOD PRODUCTS. Hardware, plywood, particulateboard and medium density fiberboard wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ASHRAE or Talcott Control Measures for Composite Wood (17 CCR 812.02 et seq.), or by before the date specified in those sections, as shown in Table 4.504.5 4.504.5.1 Documentation. Documentation of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: - Product certifications and specifications. - Chain of custody certifications. - Product applied and installed at meeting the Composite Wood Products regulation (see CCR, Title 17, Section 812.02 et seq.). - External grade products meeting the requirements of the P15 or P15.2 standards of the Engineered Wood Association, the Australian AS/NZS 2969, the European EN 338 standards, and Canadian CNA, CNA 0151, CNA 0163 and CNA 0164. - Other methods acceptable to the enforcing agency.												
	4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall comply with the provisions of the California Building Standards Code. 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor barrier by the California Building Code, Chapter 18, or concrete slab-on-ground forms required to have a vapor barrier by the California Building Code, Chapter 18, shall also comply with this section. 4.505.2.1 Gypsum board. A gypsum board shall be installed in compliance with at least one of the following: - A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a minimum 1/8 inch (3.2 mm) sand in the bedding. The aggregate shall be clean, hard, angular, and free of organic matter, and curing, shall be used. - For additional information, see ASHRAE 62.2-2006, Appendix A, Section A505.2.6.6. - Other equivalent methods approved by the enforcing agency. - A joint compound applied by a licensed design professional. 4.505.3 MOISTURE CONTROL OF BUILDING MATERIALS. Building materials with visible signs of water damage shall be replaced. That shall not apply to installed moisture control products that show the manufacturer's dry recommendations prior to the following: - Moisture control shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements listed in Section 0118 of the code. - Moisture readings shall be at a point 2 feet (610 mm) or 4 feet (1219 mm) from the grade measured at each place verified. - At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided that at the time of approval to enclose wall and floor framing insulation products which are viable wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavity. The applied insulation product shall follow the manufacturer's dry recommendations prior to the following: 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathrooms and showers. Each bathroom shall be mechanically ventilated and shall comply with the following: - Fans shall be ENERGY STAR certified and be ducted to terminate outside the building. - Exhaust functioning as a constant exhaust fan shall be mechanically controlled or controlled by a humidity controller. - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% in a mechanical isolation and/or control room may utilize manual and shall satisfy requirements of equipment. - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in). Notes: - For the purpose of this section, a bathroom is a room that contains a bathtub, shower or tub/shower combination. - Lighting/light to bathroom exhaust fans shall comply with the California Energy Code. 4.507 ENVIRONMENTAL COMFORT 4.507.1 HEATING AND AIR-CONDITIONING DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment installed using the following methods: - The heat loss and heat gain is established according to ANSI/ASHRAE Manual J - 2011 (Residential Load Calculation), ASHRAE Manual S - 2011 (Sizing of Heating and Cooling Equipment). - The duct system is sized according to ANSACAMCA Manual D - 2014 (Residential Duct Systems), (ASHRAE) handbooks or other approved methods of calculation. - Select heating and cooling equipment according to ANSACAMCA Manual S - 2014 (Residential Equipment Selection), or other approved methods of calculation. Exception: Use of alternate design temperature necessary to ensure the system functions are acceptable.												

SECTION	PART
	CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS
01	702 QUALIFICATIONS
02	702.1 INSTALLER TRAINING HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Unserviced persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:
03	1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.
04	702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:
05	1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERB rates, building performance contractors, and home energy auditors. 3. Successful completion of a first party apprenticeship training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.
	Notes:
	1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
	2. HERB rates are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).
06	[IRC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.
	Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
	703 VERIFICATIONS
07	703.1 DOCUMENTATION
08	Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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GREEN CHECKLIST 2		



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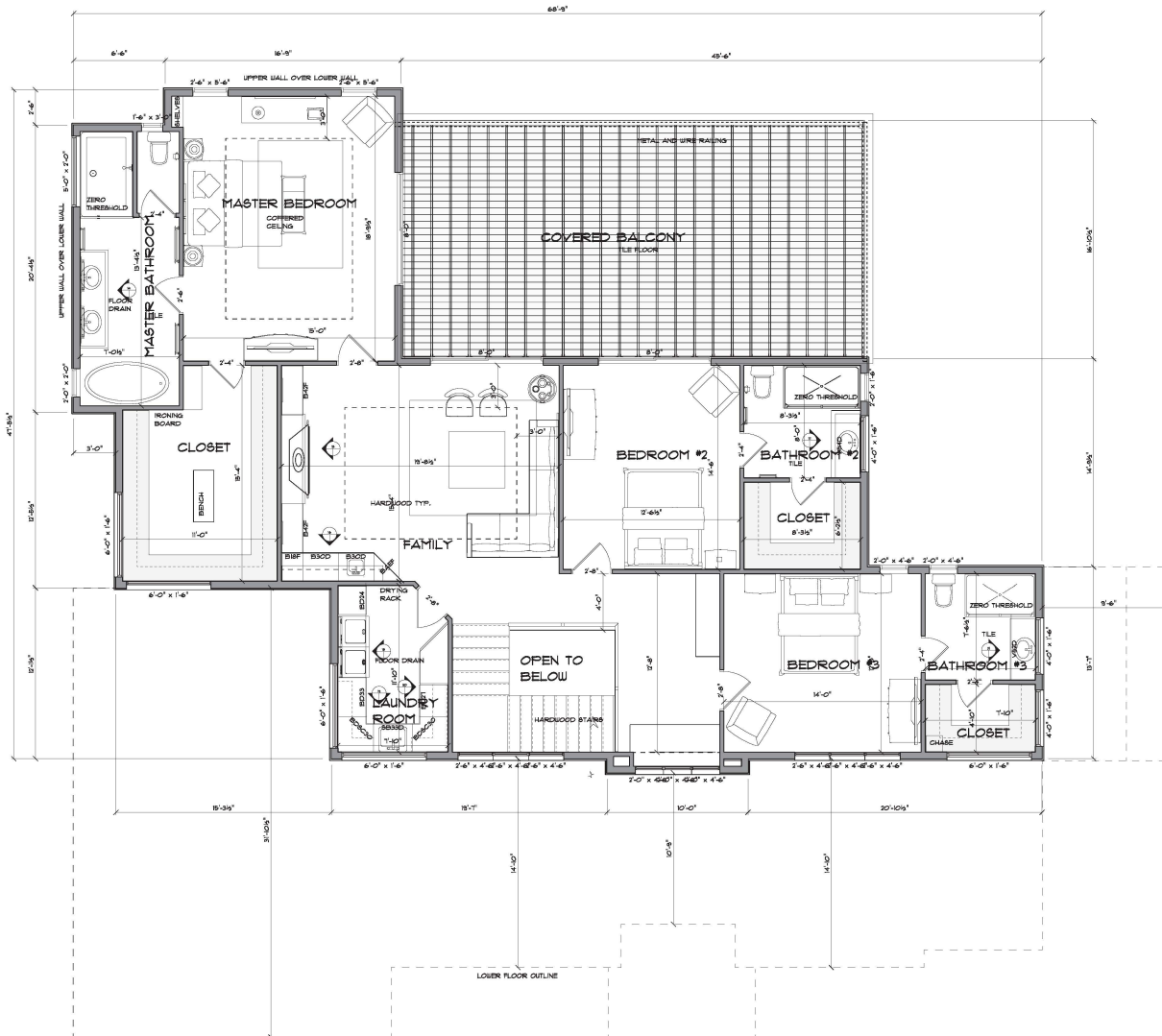


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LOWER FLOOR PLAN



UPPER FLOOR PLAN

SCALE: 1/4" = 1'-0"

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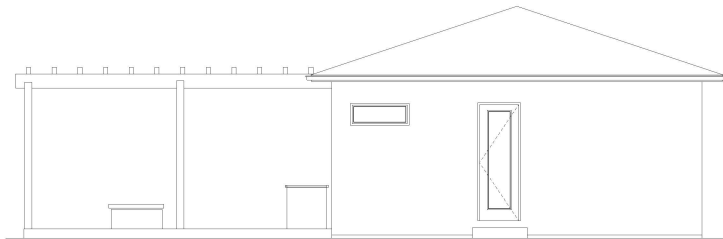
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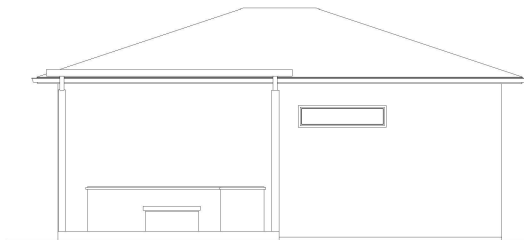
UPPER FLOOR PLAN



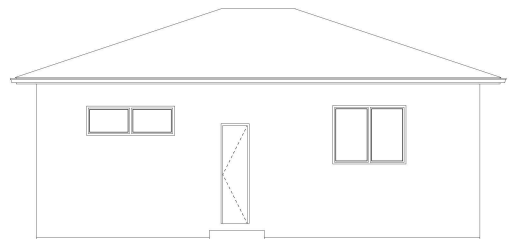
1/4" FRONT ELEVATION



1/4" REAR ELEVATION

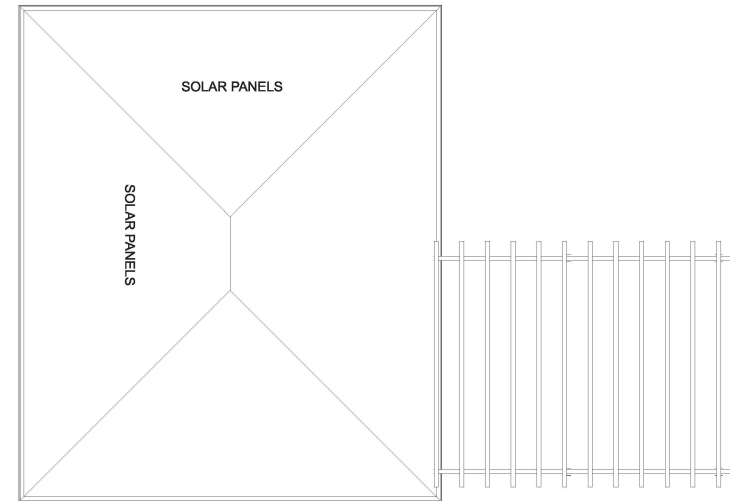


1/4" RIGHT SIDE ELEVATION

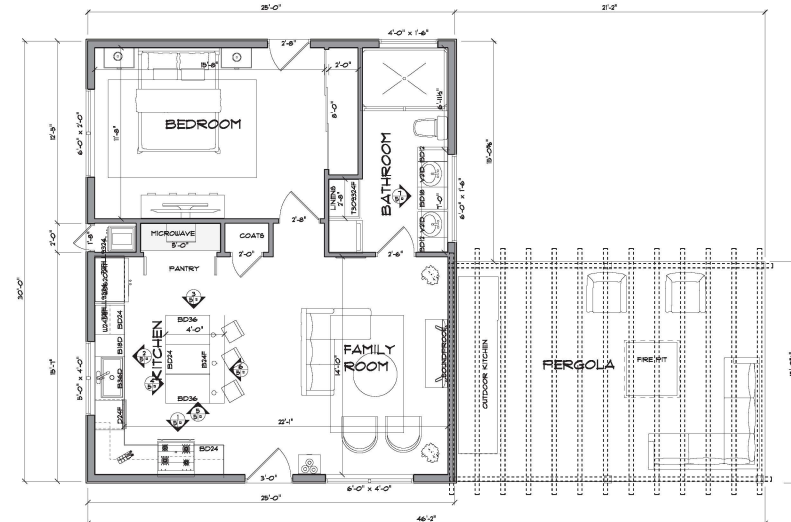


1/4" LEFT SIDE ELEVATION

ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
exhaust fan	1	
hose bibb	1	
car light finish	21	
ceiling drop	2	
ceiling tv outlet	1	
outlet	23	
outlet 220v	3	
outlet gfi	15	
switch	22	
egitite 1	4	
register	4	
co detector	1	
smoke detector	2	
THERMOSTAT	1	
gas bibb	5	
light	4	
ceiling fan 9 blades 02	1	
video camera	4	
stereo speaker	1	
wall mounted corresponding 09 1 light	5	
ceiling light 02	3	
ceiling fan - haku	2	
ceiling light 09	2	



ADU ROOF
SCALE: 1/4" = 1'-0"



ADU FLOOR PLAN
SCALE: 1/4" = 1'-0"

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ADU PLANS



1/4" FRONT ELEVATION



1/4" REAR ELEVATION

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EXTERIOR ELEVATIONS



1/4" RIGHT SIDE ELEVATION



1/4" LEFT SIDE ELEVATION

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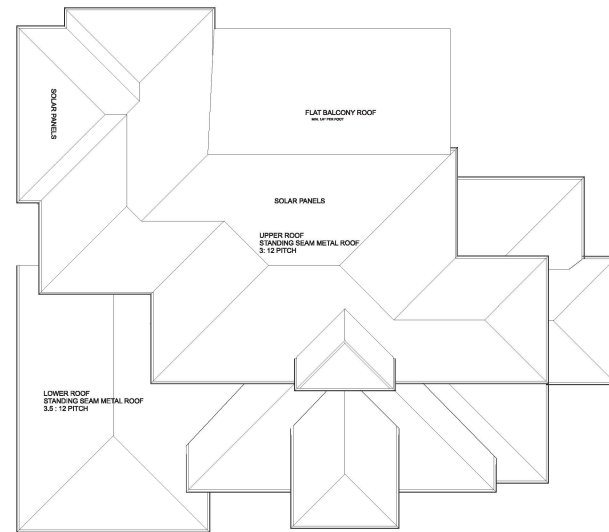


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ROOF PLAN
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