Instructions: This checklist is to be used on an individual project basis and may be modified by the applicant to meet the needs of their specific project. The applicant shall strike out those sections that are not applicable to their project and indicate the location of where this information is located. The applicant and property owner assume all responsibility associated with the use of this document.

4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. Where common use parking is provided at least one EV space

shall be located in the common use parking area and shall be available for use by all residents.

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

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CHAPTER 3 GREEN BUILDING	SPON. ARTY	A RESPON. PARTY	Y N/A RESPON. PARTY
SECTION 301 GENERAL 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in	4.106.4.2.1.1 Electric Vehicle Charging Stations (EVCS) When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at least one of the following options:	DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY
the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.	1. The EV space shall be located adjacent to an accessible parking space meeting the requirements of the <i>California Building Code</i> , Chapter 11A, to allow use of the EV charger from the accessible parking space.	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 4.303.4.4.	4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such
301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 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.	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 designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and	Note: All noncompliant plumbing fixtures in any residential real 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, et seq., for the definition of a noncompliant plumbing fixture, types of residential	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 MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65
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, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.	Note: Electric Vehicle charging stations serving public housing are required to comply with the California Building Code, Chapter 11B. 4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be	buildings affected and other important enactment dates. 4.303.1.1 Water Closets. 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.	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:
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 banners 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 banner will be used.	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). 3. One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).	The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.	 Excavated soil and land-clearing debris. Alternate 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. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.
SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building	Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.	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.	4.408.2 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.
shall comply with the specific green building measures applicable to each specific occupancy. ABBREVIATION DEFINITIONS:	4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed	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	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. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
HCD Department of Housing and Community Development BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development	cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the raceway 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.	allow one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead.	 Identify diversion facilities where the construction and demolition waste material collected will be taken. Identify construction methods employed to reduce the amount of construction and demolition waste generated. Specify that the amount of construction and demolition waste materials diverted shall be calculated
LR Low Rise HR High Rise AA Additions and Alterations N New	4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system,	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 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.	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
CHAPTER 4	including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the	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 60 psi.	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.
RESIDENTIAL MANDATORY MEASURES DIVISION 4.1 PLANNING AND DESIGN SECTION 4.102 DEFINITIONS	4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.	 4.303.1.4.3 Metering Faucets. Metering 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 	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. 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
4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar	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.	per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.	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 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction
pervious material used to collect or channel drainage or runoff water. WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials 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 controls.	Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity	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 Table	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, items 1 through 5, Section 4.408.3 or Section 4.408.4
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,	or facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.	1701.1 of the California Plumbing Code. NOTE:	Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in
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 in total disturbs 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	4.106.4.3.1 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. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number. TABLE 4.106.4.3.1	THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER USE	documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors 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
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 point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved	TOTAL NUMBER OF PARKING NUMBER OF REQUIRED EV SPACES 0-9 0	FIXTURE TYPE FLOW RATE	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.
by the enforcing agency. 3. Compliance with a lawfully enacted 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 in total disturbs one acre or more of soil.	10-25	(RESIDENTIAL) MIN. 0.8 GPM @ 20 PSI LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS 0.5 GPM @ 60 PSI	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.
(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) 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	26-50 2 51-75 4 76-100 5	KITCHEN FAUCETS 1.8 GPM @ 60 PSI METERING FAUCETS 0.2 GAL/CYCLE WATER CLOSET 1.28 GAL/FLUSH	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.
water include, but are not limited to, the following: 1. Swales 2. Water collection and disposal systems	101-150 7 151-200 10	URINALS 0.125 GAL/FLUSH	 Public transportation and/or carpool options available in the area. 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. Information about water-conserving landscape and irrigation design and controllers which conserve
 3. French drains 4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. 	201 and over 6 percent of total 4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to comply with the following:	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 Ordinance (MWELO), whichever is more stringent.	 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, grading around the building, etc.
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, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply	1. The minimum length of each EV space shall be 18 feet (5486mm). 2. The minimum width of each EV space shall be 9 feet (2743mm)	NOTES: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations,	9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this code. 4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a
equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and	 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 4.106.4.2.3. 4.106.4.3.4 Multiple EV spaces required. When multiple EV spaces are required, the EV spaces shall be designed in accordance with Section 4.106.4.2.4. 	Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/	building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
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 so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per	4.106.4.3.5 Identification. The service panels or sub-panels shall be identified in accordance with Section 4.106.4.2.5.		Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.
dwelling unit. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.	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 <i>California Building Code</i> , Chapter 11B.		DIVISION 4.5 ENVIRONMENTAL QUALITY
4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. 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.	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 standards.		SECTION 4.501 GENERAL 4.501.1 Scope 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 installers, occupants and neighbors. SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS
4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".			The following terms are defined in Chapter 2 (and are included here for reference) AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.
4.106.4.2 New multifamily dwellings. If residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.			COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section
Notes: 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			93120.1. DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

ROBERT BATES CUSTOM HOMES ADDITIONS

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REMODELS

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SCALE:

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BELIEVED TO BE RELIABLE
ROBERT BATES IS NOT RESPONSIBLE FOR THE ACCURACY
NOR FOR ERRORS OR OMISSIONS
WHICH MAY HAVE BEEN INCORPORATED INTO THESE DOCUMENTS
AS A RESULT.

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2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE

THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR

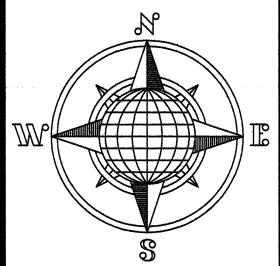
QUALITY MANAGEMENT DISTRICT RULE 1168.

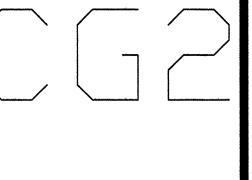
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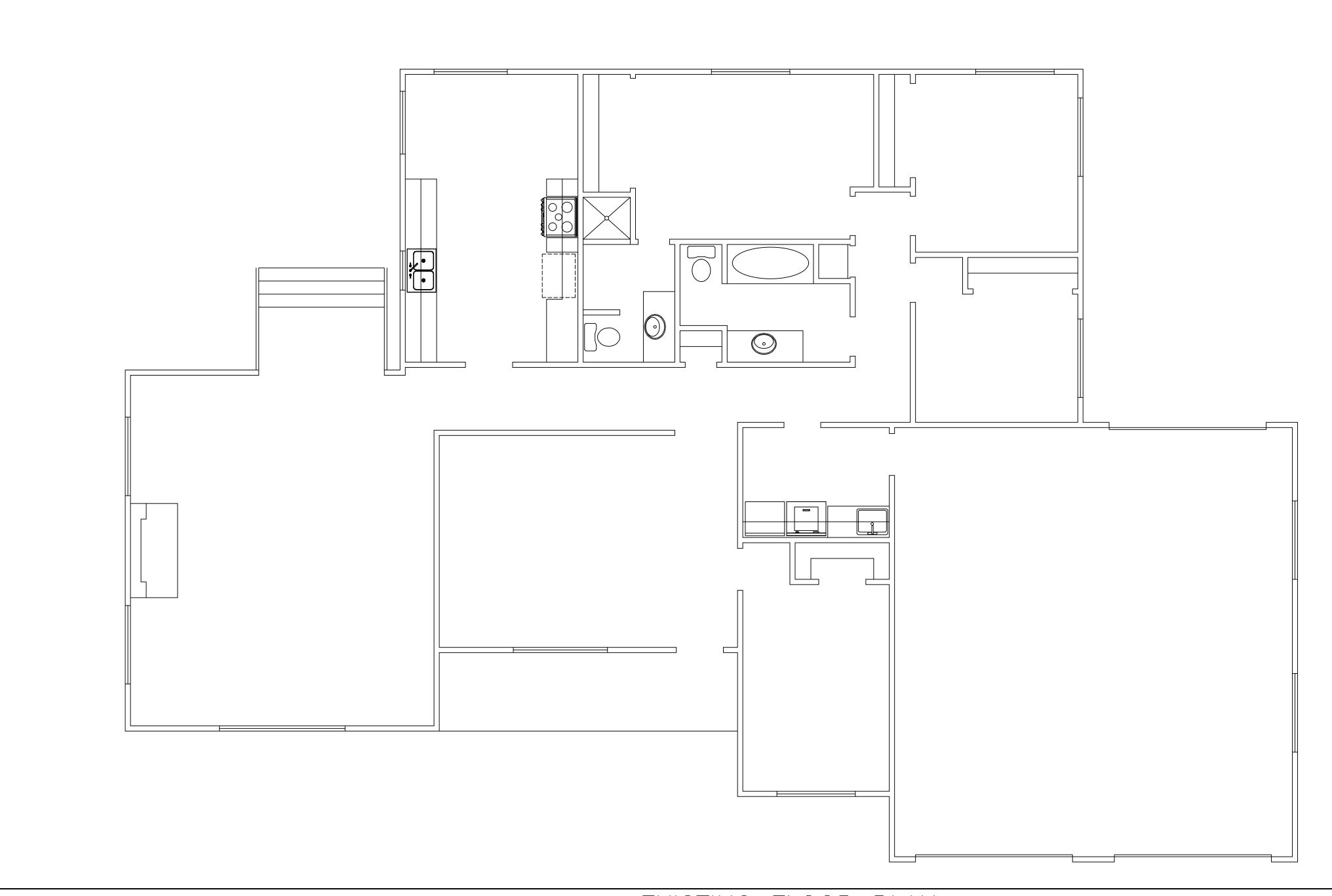
RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

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PARTY		PARTY		PARTY		PARTY	77.0	
	MAXIMUM INCORNENTAL DEACTIVITY (MID). The requireure change in weight of arong formed by adding a	TABLE 4.504.2 - SEALAN	T VOC LIMIT		TABLE 4.504.5 - FORMALDEHYDE LIMITS	CHAPTER 7		
	MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O³/g ROC).	(Less Water and Less Exempt Com	pounds in Grams per Liter)		MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS		
	Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.	SEALANTS ARCHITECTURAL	VOC LIMIT 250		PRODUCT CURRENT LIMIT	702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper		S
	MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.	MARINE DECK	760		HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE 0.05	installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and		
	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of	NONMEMBRANE ROOF	300		PARTICLE BOARD 0.09	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:	RL	DBERT BATES
	product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).	ROADWAY	250 450		MEDIUM DENSITY FIBERBOARD 0.11	State certified apprenticeship programs. Public utility training programs.		JDCW DITTES
	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to	SINGLE-PLY ROOF MEMBRANE OTHER	420		THIN MEDIUM DENSITY FIBERBOARD2 0.13 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED	 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 		
	ozone formation in the troposphere. VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings	SEALANT PRIMERS			BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE	5. Other programs acceptable to the enforcing agency. 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the	01	
	with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).	ARCHITECTURAL NON POPOUS	250		WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH	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		USTOM HOMES
	4.503 FIREPLACES	NON-POROUS POROUS	250 775		93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM	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		DDITIONS
	4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as	MODIFIED BITUMINOUS	500		THICKNESS OF 5/16" (8 MM).	considered by the enforcing agency when evaluating the qualifications of a special inspector:	RE	EMODELS
	applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	MARINE DECK	760 750			 Certification by a national or regional green building program or standard publisher. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. 	160	02 DANA WAY
	4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING	OTHER	750			3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.	188	SEVILLE
	CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component				DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product	Notes: 1. Special inspectors shall be independent entities with no financial interest in the materials or the		ALIFORNIA 95661
	openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.				requirements of at least one of the following:	project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate	· · · · · · · · · · · · · · · · · · ·	
	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.	TABLE 4.504.3 - VOC C	ONTENT LIMITS FOR		 Carpet and Rug Institute's Green Label Plus Program. 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, 	homes in California according to the Home Energy Rating System (HERS).		916)521-6873
	4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality	ARCHITECTURAL COA	ΓINGS _{2,3}		February 2010 (also known as Specification 01350). 3. NSF/ANSI 140 at the Gold level.	[BSC] 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		916)781-3076FAX
	management district rules apply: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks	GRAMS OF VOC PER LITER OF COMPOUNDS	COATING, LESS WATER & LESS EXEMPT		4. Scientific Certifications Systems Indoor Advantageтм Gold.	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	ROB	BERTABATES@COMCAST.NET
	shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable.	COATING CATEGORY	VOC LIMIT		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.	shall be closely related to the primary job function, as determined by the local agency.		0
	Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and	FLAT COATINGS NON-FLAT COATINGS	100		4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.	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.		\sim
	tricloroethylene), except for aerosol products, as specified in Subsection 2 below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and smaller unit sizes of adhesives, and smaller unit sizes of adhesives.	NONFLAT-HIGH GLOSS COATI	100		4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following:			50
	 Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including 	SPECIALTY COATINGS			 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," 	703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not		≻
	prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i> , Title 17, commencing with section 94507.	ALUMINUM ROOF COATINGS BASEMENT SPECIALTY COATI	400 NGS 400		Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.	methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific		
	4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of	BITUMINOUS ROOF COATINGS			2: Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program). 3. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program.	documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.		Z = >
	the ARB Architectural Suggested Control Measure, 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 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss	BITUMINOUS ROOF PRIMERS	350		4. Meet 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,			H DA AR
	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 Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in	BOND BREAKERS CONCRETE CURING COMPOU	350 NDS 350		February 2010 (also known as Specification 01350). 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard			
	Table 4.504.3 shall apply.	CONCRETE/MASONRY SEALE			composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.),			$\sum_{i=1}^{n}\sum_{j=1}^{n}\sum_{j=1}^{n}\sum_{i=1}^{n}\sum_{j=1}^{$
	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of	DRIVEWAY SEALERS	50		by or before the dates specified in those sections, as shown in Table 4.504.5			
	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	DRY FOG COATINGS FAUX FINISHING COATINGS	150 350		4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:			
	8, Rule 49.	FIRE RESISTIVE COATINGS	350		 Product certifications and specifications. Chain of custody certifications. 			
	4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:	FLOOR COATINGS	100		 Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 			
	Manufacturer's product specification. Field verification of on-site product containers.	FORM-RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SI			 Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. 			
	2. (Told tollian of on old product containers.	HIGH TEMPERATURE COATING	, , , , , , , , , , , , , , , , , , , ,		5. Other methods acceptable to the enforcing agency.			N S I
	TABLE 4.504.1 - ADHESIVE VOC LIMIT _{1,2}	INDUSTRIAL MAINTENANCE C	DATINGS 250		4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.			
	(Less Water and Less Exempt Compounds in Grams per Liter)	LOW SOLIDS COATINGS1 MAGNESITE CEMENT COATIN	120 GS 450		4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by			
	ARCHITECTURAL APPLICATIONS VOC LIMIT	MASTIC TEXTURE COATINGS	100		California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.		ח ב	ATE:
	INDOOR CARPET ADHESIVES 50 CARPET PAD ADHESIVES 50	METALLIC PIGMENTED COATI			4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:			CALF
	OUTDOOR CARPET ADHESIVES 150	MULTICOLOR COATINGS PRETREATMENT WASH PRIME	250 RS 420		1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with		30	
	WOOD FLOORING ADHESIVES 100	PRIMERS, SEALERS, & UNDER			a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding shrinkage, and curling, shall be used. For additional information, see American Concrete Institute,		JL	JR NU'
	RUBBER FLOOR ADHESIVES 60 SUBFLOOR ADHESIVES 50	REACTIVE PENETRATING SEA			ACI 302.2R-06.2. Other equivalent methods approved by the enforcing agency.3. A slab design specified by a licensed design professional.			Q, FT,
	CERAMIC TILE ADHESIVES 65	RECYCLED COATINGS ROOF COATINGS	250 50		4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage		DF	RAWN BY: RB
	VCT & ASPHALT TILE ADHESIVES 50	RUST PREVENTATIVE COATIN	GS 250		shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:		RE	EV, DATE
	DRYWALL & PANEL ADHESIVES 50 COVE BASE ADHESIVES 50	SHELLACS			 Moisture content 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 			v :
	MULTIPURPOSE CONSTRUCTION ADHESIVE 70	CLEAR OPAQUE	730 550		found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end			
	STRUCTURAL GLAZING ADHESIVES 100	SPECIALTY PRIMERS, SEALER			of each piece verified. 3. At least three random moisture readings shall be performed on wall and floor framing with documentation			
	SINGLE-PLY ROOF MEMBRANE ADHESIVES 250 OTHER ADHESIVES NOT LISTED 50	UNDERCOATERS STAINS	250		acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to			
	SPECIALTY APPLICATIONS	STONE CONSOLIDANTS	450		enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.			
	PVC WELDING 510	SWIMMING POOL COATINGS	340		4.506 INDOOR AIR QUALITY AND EXHAUST		PR	HESE DRAWINGS HAVE BEEN REPARED BASED UPOM INFOR-
	CPVC WELDING 490 ABS WELDING 325	TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATING			4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:		ТОТ	ATION SUBMITTED IN PART BY THERS.
	PLASTIC CEMENT WELDING 250	WATERPROOFING MEMBRANI			 Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a 		BE	HILE THIS INFORMATION 1S ELIEVED TO BE RELIABLE DBERT BATES IS NOT RESP-
	ADHESIVE PRIMER FOR PLASTIC 550	WOOD COATINGS	275		humidity control.		ΠN	NSIBLE FOR THE ACCURACY
	CONTACT ADHESIVE 80 SPECIAL PURPOSE CONTACT ADHESIVE 250	WOOD PRESERVATIVES ZINC-RICH PRIMERS	350		a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment		WH	OR FOR ERRORS OR OMISSIONS HICH MAY HAVE BEEN INCORP- RATED INTO THESE DOCUMENTS
	STRUCTURAL WOOD MEMBER ADHESIVE 140	1. GRAMS OF VOC PER LITER	OF COATING, INCLUDING WATER &		 adjustment. b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in) 			RATED INTO THESE DOCUMENTS S A RESULT.
	TOP & TRIM ADHESIVE 250		IAIN IN EFFECT UNLESS REVISED LIMITS		Notes:		21	HEET
	SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL 30	ARE LISTED IN SUBSEQUENT 3. VALUES IN THIS TABLE ARE	COLUMNS IN THE TABLE. EDERIVED FROM THOSE SPECIFIED BY		1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or		اد	L L
	PLASTIC FOAMS 50	THE CALIFORNIA AIR RESOUF	CES BOARD, ARCHITECTURAL COATINGS JRE, FEB. 1, 2008. MORE INFORMATION IS		tub/shower combination. 2. Lighting integral to bathroom exhaust fans shall comply with the <i>California Energy Code</i> .			
	POROUS MATERIAL (EXCEPT WOOD) 50	AVAILABLE FROM THE AIR RE	·		4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be			
	WOOD 30 FIBERGLASS 80				sized, designed and have their equipment selected using the following methods:			
	TIBENGEAGG 00				The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2 Duet systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duet Systems).			
	1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER,				 Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential 			
	THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED. 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE				Equipment Selection), or other equivalent design software or methods.			

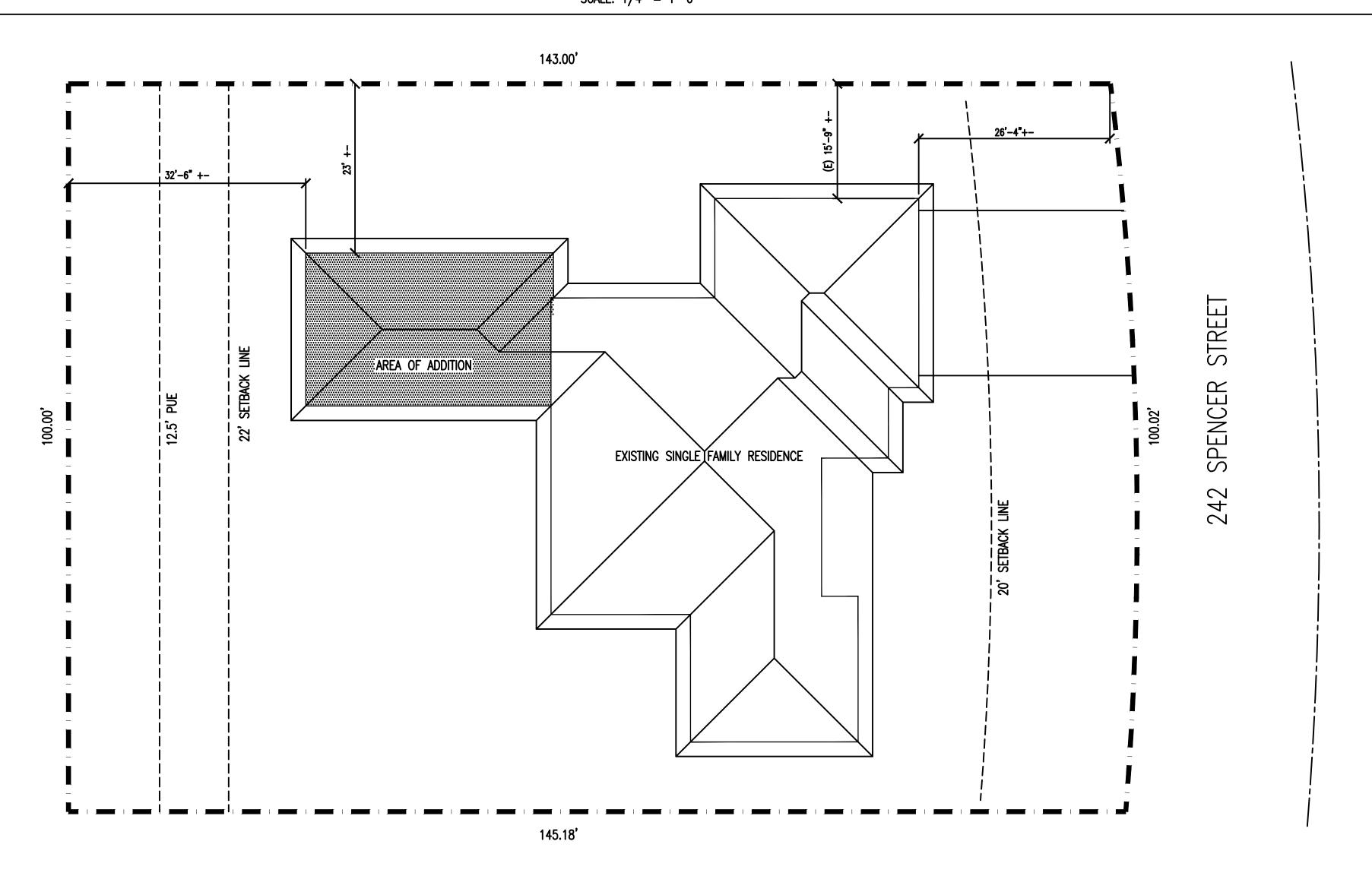
Exception: Use of alternate design temperatures necessary to ensure the system functions are







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



OSE BIBBS TO BE EQUIPPED WITH ANTI—SIPHON S, LUMBING WALLS TO BE 2x6. RADES TO PROVIDE BACKING AS REQUIRED. LATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT BE PROVIDED TO THE FIELD INSPECTOR AT TIME SPECTION. VATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL MINIMUM OF 3'-0" FROM PROPERTY LINES OF NGS INTO BUILDING. L ALL FACTORY MADE FLEXIBLE AIR DUCTS DING TO THEIR INSTALLATION INSTRUCTIONS AND ARDS SET BY THE CODE AND USE UL 1813 TAPE. HEATER SEISMIC STRAPS ARE TO BE LOCATED THE UPPER AND LOWER 1/3 OF ITS VERTICAL SION, THE LOWER STRAP TO BE A MINIMUM OF OM CONTROLS. JM 4" BUILDING DRAIN FROM DWELLING TO STREET. HOWER AND TUB SHOWER COMBINATIONS SHALL COVIDED WITH INDIVIDUAL CONTROL VALVES OF RESSURE BALANCE OR THE THERMOSTATIC SHALL WALVE TYPE. THE VALVE TEMPERATURE SHALL A MAXIMUM SETTING OF 120 DEG. (40 DEG. C). UCT WORK SHALL USE PRESSURE—SENSITIVE MASTICS, AEROSOL SEALANTS OR OTHER IRE SYSTEMS MEETING APPLICABLE UL 18A &B REMENTS. DRAWBANDS USED WITH FLEXIBLE SHALL BE EITHER STAINLESS STEEL WORM HOSE CLAMPS OR UV—RESISTANT NYLON DUCT IN ADDITION, DRAWBANDS MUST HAVE A TENSILE GITH RATING OF 150 LBS. AND BE TIGHTEN AS MINIMUM 24" CLEAR HEIGHT WITH A JM 5.7 SQUARE FEET OF OPENING AND A MAXIMUM SILL HEIGHT OF 44". LUMBING VENTS THROUGH ROOF SHALL BE COMBINED MINIMUM NUMBER OF ROOF PENETRATIONS. DE FIRESTOPS AT PENETRATIONS AND CONCEALED S. PENETRATING SEPARATION WALL SHALL BE CONST—DO FOR NOT LESS THAN 26 GA. GALVANIZED STEEL BE CONTINUOUS WITHOUT OPENINGS OR NON—MATALIC CICTIONS. LUMBING PENETRATIONS THROUGH FIRE RATED WALLS	SHT. NO. 1. 2. 3. 4. SD1 SD2 SD3 CG1 CG2 EN0	SHEET INDEX, SITE PLAN, GENERAL NOTES, PROJECT STATISTICS AND SCOPE OF WORK EXISTING FLOOR PLAN FLOOR PLAN AND ELECTRICAL PLAN EXTERIOR ELEVATIONS AND SECTIONS FOUNDATION, ROOF FRAMING, CEILING FRAMING AND SHEAD STRUCTURAL NOTES STRUCTURAL DETAILS STRUCTURAL DETAILS CAL GREEN RESIDENTIAL MANDATORY MEASURES TITLE 24 ENERGY REPORT
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BE METALLIC AND EXTEND A MINIMUM 12" FROM (INCLUDING TRAP WHERE APPLICABLE) AND SHALL FALED SO THAT GASES CANNOT PASS THROUGH.		
DE A SMOOTH METAL DUCT FOR THE DRYER IST, EXTENDING OUTSIDE WITH A BACKDRAFT DAMPER.		
DE A PRESSURE RELIEF VALVE WITH A DRAIN TO DE AT THE WATER HEATER.		
XTERIOR WALLS AND TALL WALLS OVER 10'-0" SHALL 6 DF STUDS AT 16" O/C.		
PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY FIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR ILECT, VERIFY, RESOLVE AND INSTALL ALL MATERIALS IQUIPMENT.		
RT BATES WILL NOT BE OBSERVING CONSTRUCTION IIS PROJECT. THE CONTRACTOR IS SOLELY ONSIBLE FOR THE QUALITY CONTROL AND CONSTRUCTION ARDS FOR THIS PROJECT.		
PROJECT STATISTS:		
2018 SQ. FT. 714 SQ. FT CBC, CEC, CMC, CPC, CALIFORNIA ENERGY CODE ALIFORNIA RESIDENTIAL BUILDING CODE O19 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBCS) LL OTHER HEALTH AND SAFETY CODES, ORDINANCES AND REMENTS ADOPTED BY THE GOVERNING AGENCIES. R-3 = SINGLE FAMILY RESIDENCE, U = GARAGE TRUCTION: VB D: NO	-	
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ENERGY REQUIRMENTS

INSULATION:

HEATING:

COOLING:

WATER HEATER:

GLAZING WINDOWS: GLAZING DOORS: GLAZING SKYLIGHTS: NEW ATTIC: R-38
EXISTING ATTIC: R-38 ALTERED
EXTERIOR WALL: R-15
FLOOR: (NEW) R-30
EXISTING FLOOR R-30 ALTERED

EXISTING

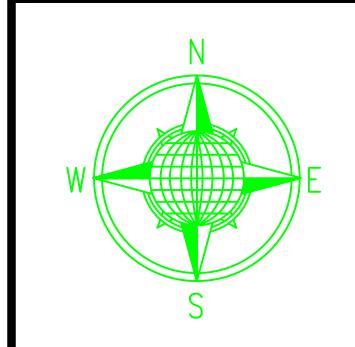
EXISTING DUCTS CRAWLSPACE: R-6

EXISTING

U FACTOR: = 0.30 SHGC: 0.22 U FACTOR: = 0.32 SHGC: 0.22 U FACTOR: = 0.50 SHGC: 0.35

CFM: \geq 1.5 CFM/SQFT WHOLE HOUSE FAN:

WRAP NEW WITH TYVEK OR EQUAL.



ROBERT BATES

CUSTOM HOMES ADDITIONS REMODELS

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GUTHRIE \approx

242 SPENCER STREET FOLSOM, CALIFORNIA 95630

3-2-2022 DATE: NOTED SCALE: JOB NO: SQ. FT. 714 DRAWN BY: REV.

THESE DRAWINGS HAVE BEEN PREPARED BASED UPON INFORMATION SUBMITTED IN PART BY

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SHEET:

