PROJECT STATISTICS

ZONE: RESIDENTIAL OCCUPANCY R-3 SITE AREA: --- SQ. FT.

EXISTING RESIDENCE

BUILDING TYPE: V-B 996 SQ. FT. (E) RESIDENCE

(E) IMPERMEABLE AREAS

FRONT CONCRETE PORCH 61 SQ. FT. 68 SQ. FT. CONCRETE WALK CONCRETE DRIVEWAY 830 SQ. FT.

(N) ADDITION

BUILDING TYPE: 364 SQ. FT. (N) ADDITION

OWNER-PROPERTY:

922 Molino Ave Long Beach, CA 90804

DESIGNER:

CONTRACTOR:

COMMERCIAL & RESIDENTIAL WASTE REMOVAL & RECYCLING PROFESSIONALS

---, CA 9---

NOTES

(General Information)

10.1 ADVISORY: Application and plan submittal to other County departments for their review and approval may be required and is the responsibility of the applicant/agent.

10.2 Note: this site is not located in a high fire area.

922 MOLINO-AVE. REMODEL

922 MOLINO AVE. LONG BEACH CA. APN# ----

LÁNDSCAPE NEW ADDITION

EXISTING RESIDENCE

(E) CONC.

GENERAL NOTES

AND CLEARANCE FROM NATURAL GRADE

6) EPOXY WILL NEED SPECIAL INSPECTION

1) CONCRETE STRENGTH TO BE 2500 PSI min AT 28 DAYS 2) SOILS ASSUMED TO BE NON-EXPANSIVE, SANDY SOILS

ASSEMBLY. (THE SLAB IS NOT CONSIDERED A FLOOR)

7) SOIL LOAD BEARING CAPACITY(CRC R 401.4) 1500 psf

3) NATURAL GRADE IS UNDISTURBED OR 90% COMPACTED SOIL

5) DESIGN BELOW MAY SUPPORT ONE FLOOR AND ROOF/CEILING.

4) FOOTING STEEL REINFORCING TO HAVE 3" min COVERAGE

(E) CONC. DRIVE WAY

10' - 0"

(E) WOOD **FENCE**

(E) 100 A SUB PANEL AND METER -

ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATION

2019 CALIFORNIA FIRE CODE BASED ON THE 2018 INTERNATIONAL FIRE CODE

2019 CALIFORNIA BUILDING CODE BASED ON THE INTERNATIONAL BUILDING CODE, 2018 EDITION

2019 CALIFORNIA ELECTRICAL CODE BASED ON THE 2017 NFPA 72 NATIONAL ELECTRICAL CODE

2019 CALIFORNIA RESIDENTIAL CODE BASED ON THE 2018 INTERNATIONAL RESIDENTIAL CODE

2019 CALIFORNIA MECHANICAL CODE BASED ON THE 2018 UNIFORM MECHANICAL CODE WITH

2019 CALIFORNIA PLUMBING CODE BASED ON THE 2018 UNIFORM PLUMBING CODE WITH

APPLICABLE CODES

JANUARY 1, 2020 THESE INCLUDE, BUT ARE NOT LIMITED TO;

2019 CALIFORNIA REFERENCED STANDARDS CODE CODES

APPLICABLE CODES AS OF

2019 CALIFORNIA BUILDING CODE

2019 CALIFORNIA ENERGY CODE

STATE CODES

2019 CALIFORNIA ADMINISTRATION CODE

2019 CALIFORNIA GREEN BUILDING CODE



SCOPE OF WORK

CONSTRUCTION OF NEW MUD ROOM

SHEET INDEX

ARCHITECTURAL:

VICINITY MAP, NOTES AND SHEET INDEX. SITE PLAN ENLARGED SITE PLAN A1.1

> FRAING PLAN, (N) DECK PLAN & WINDOW AND DOOR SCHEDULES **ELEVATIONS / SECTIONS**

FLOOR PLAN / FOUNATION PLAN / FLOOR

ROOF PLAN / ROOF FRAMING PLAN ARCHITECTURAL DETAILS ARCHITECTURAL DETAILS

ARCHITECTURAL DETAILS HORIZONTAL

ELECTRICAL PLAN **ELECTRICAL NOTES**

ENERGY SHEETS:

T24-1 TITTLE 24 T24-2 TITTLE 24 T24-3 TITTLE 24

GB-1 GREEN CODE REQUIREMENTS GREEN CODE REQUIREMENTS



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EXPRESS WRITTEN PERMISSION.

REVISIONS

CLIENT INFO

MOLINO 922

SHEET NAME

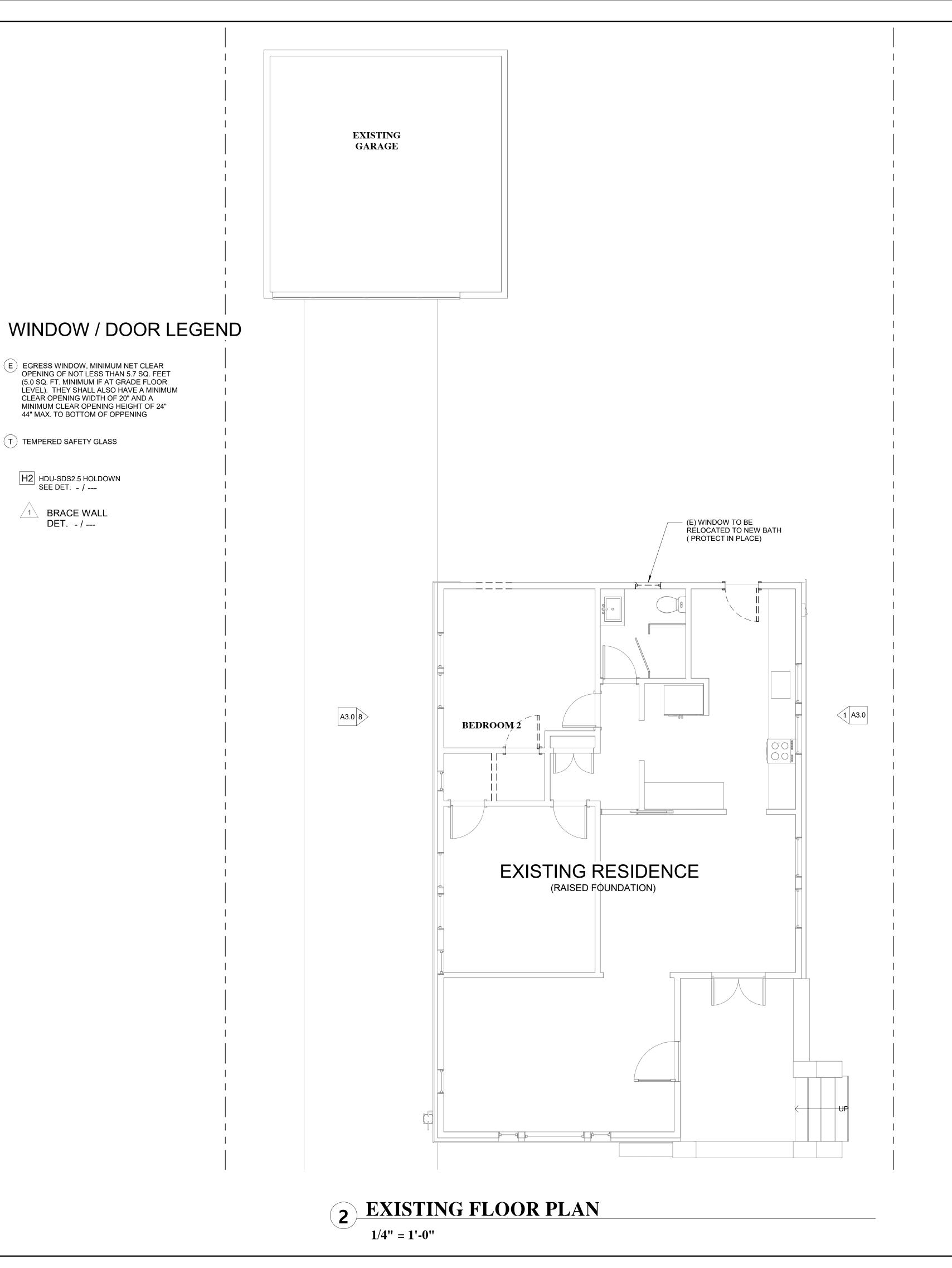
SITE PLAN / GENERAL NOTES / VICINITY MAP

EXISTING SITE PLAN SCALE: 1/8" = 1'-0"

VICINITY MAP

LB 1221 Project number 1 13 22 Drawn by Alpie T., Pedro O P.O. Checked by SHEET

1/8" = 1'-0"



E EGRESS WINDOW, MINIMUM NET CLEAR OPENING OF NOT LESS THAN 5.7 SQ. FEET

CLEAR OPENING WIDTH OF 20" AND A

T TEMPERED SAFETY GLASS

H2 HDU-SDS2.5 HOLDOWN SEE DET. - / ---

BRACE WALL

DET. -/---

MINIMUM CLEAR OPENING HEIGHT OF 24" 44" MAX. TO BOTTOM OF OPPENING

(5.0 SQ. FT. MINIMUM IF AT GRADE FLOOR LEVEL). THEY SHALL ALSO HAVE A MINIMUM

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922 MOLINO AVE

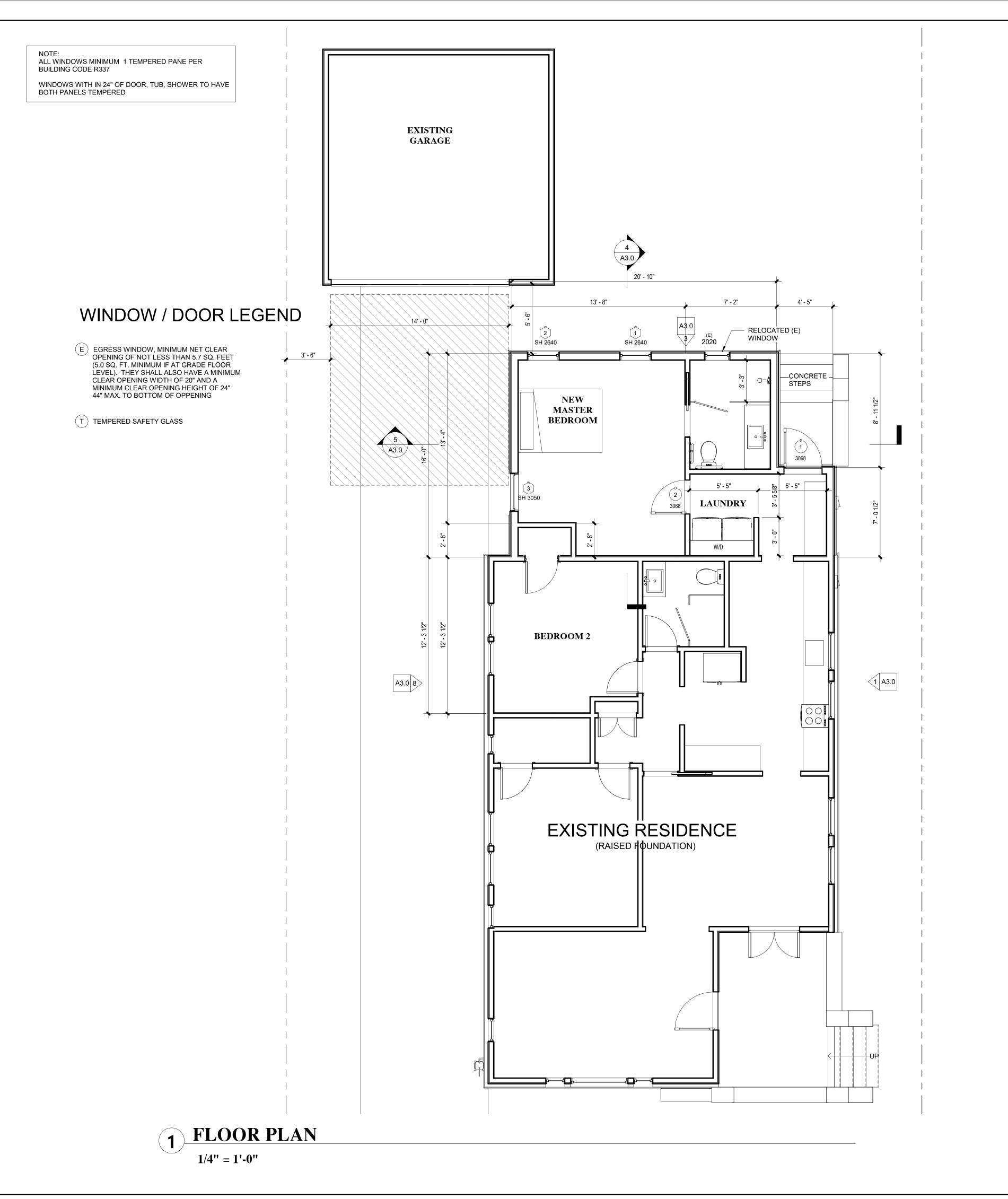
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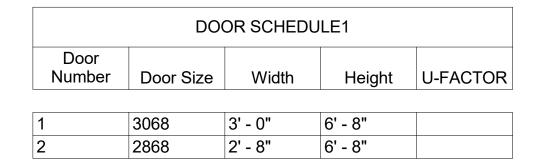
DEMO FLOOR PLAN

LB 1221 Project number 1 13 22 Drawn by Alpie T., Pedro O Checker Checked by

SHEET

1/4" = 1'-0"





	WINDOW SCHEDULE.							
			U FACTOR (T-24)					
Mark	Width	Height	STC	SHGC (T-24)				
1	2' - 6"	4' - 0"						
2	2' - 6"	4' - 0"						
3	3' - 0"	5' - 0"						





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CLIENT INFO

922 MOLINO AVE

SHEET NAME

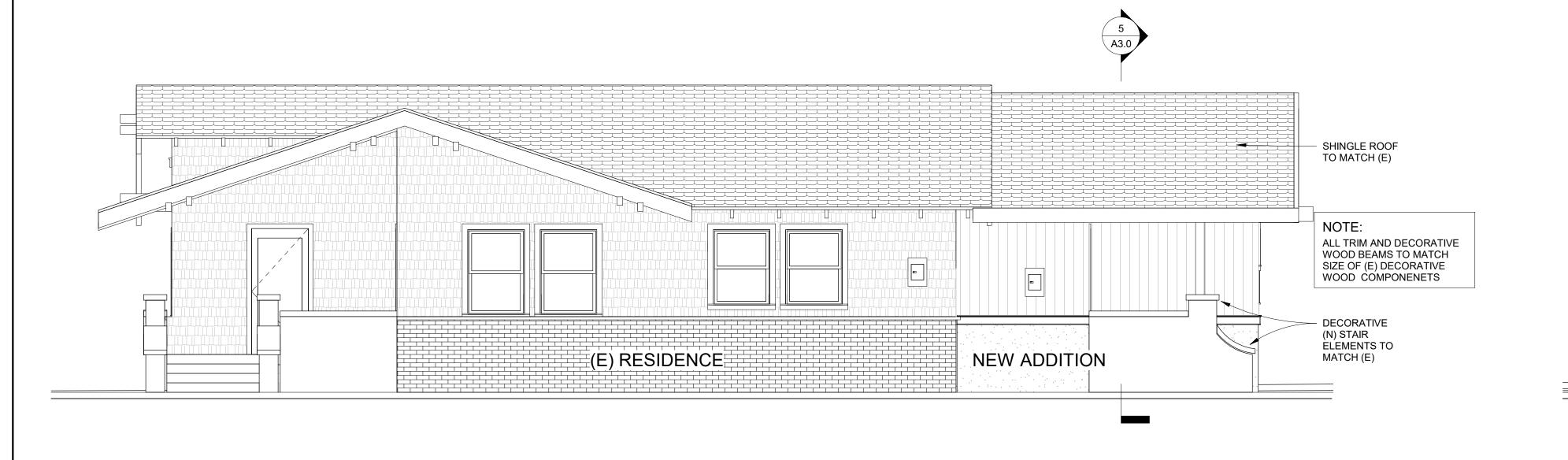
FLOOR PLAN & SCHEDULES

LB 1221 Project number 1 13 22 Drawn by Alpie T., Pedro O Checker Checked by

SHEET

A2.0

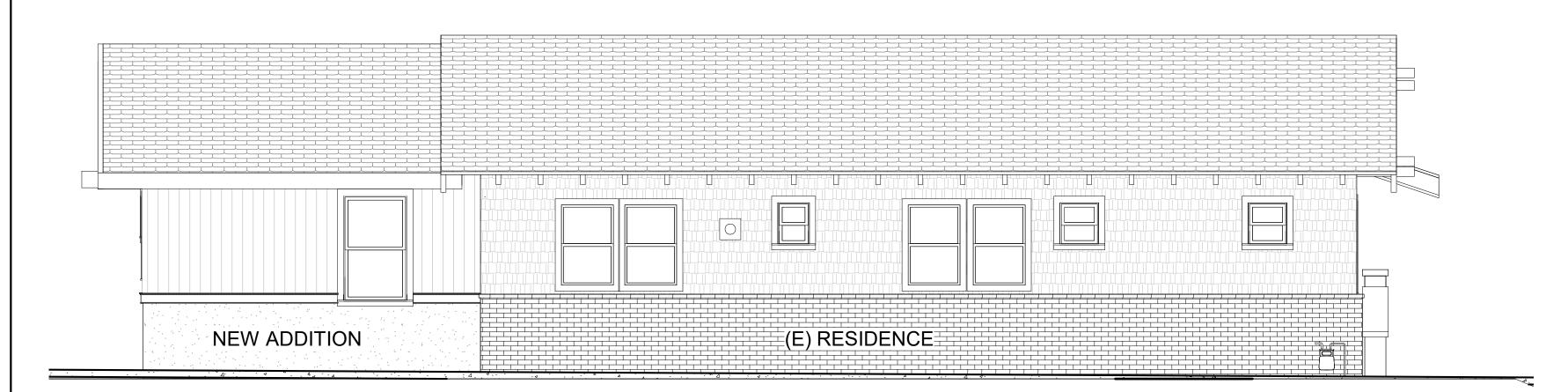
1/4" = 1'-0"





EAST ELEVATION

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



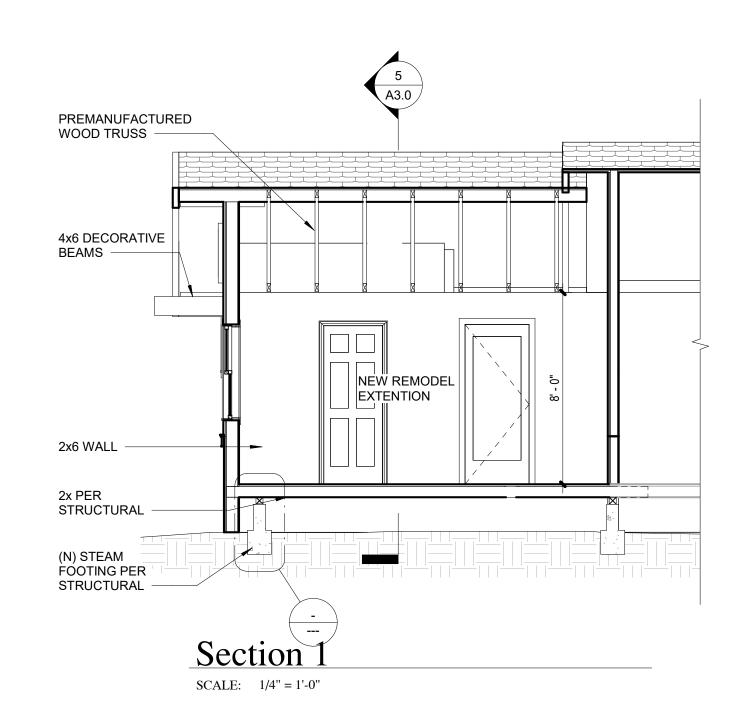
NORTH ELEVATION

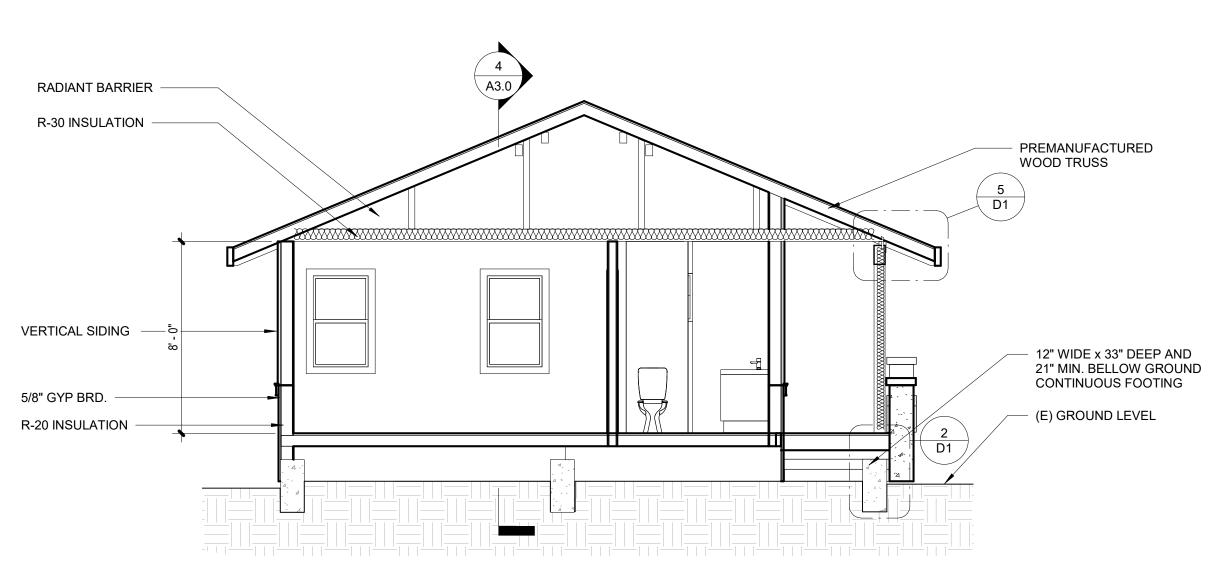
SOUTH ELEVATION

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

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

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





Section 2 SCALE: 1/4" = 1'-0"

SHEET

1/4" = 1'-0"

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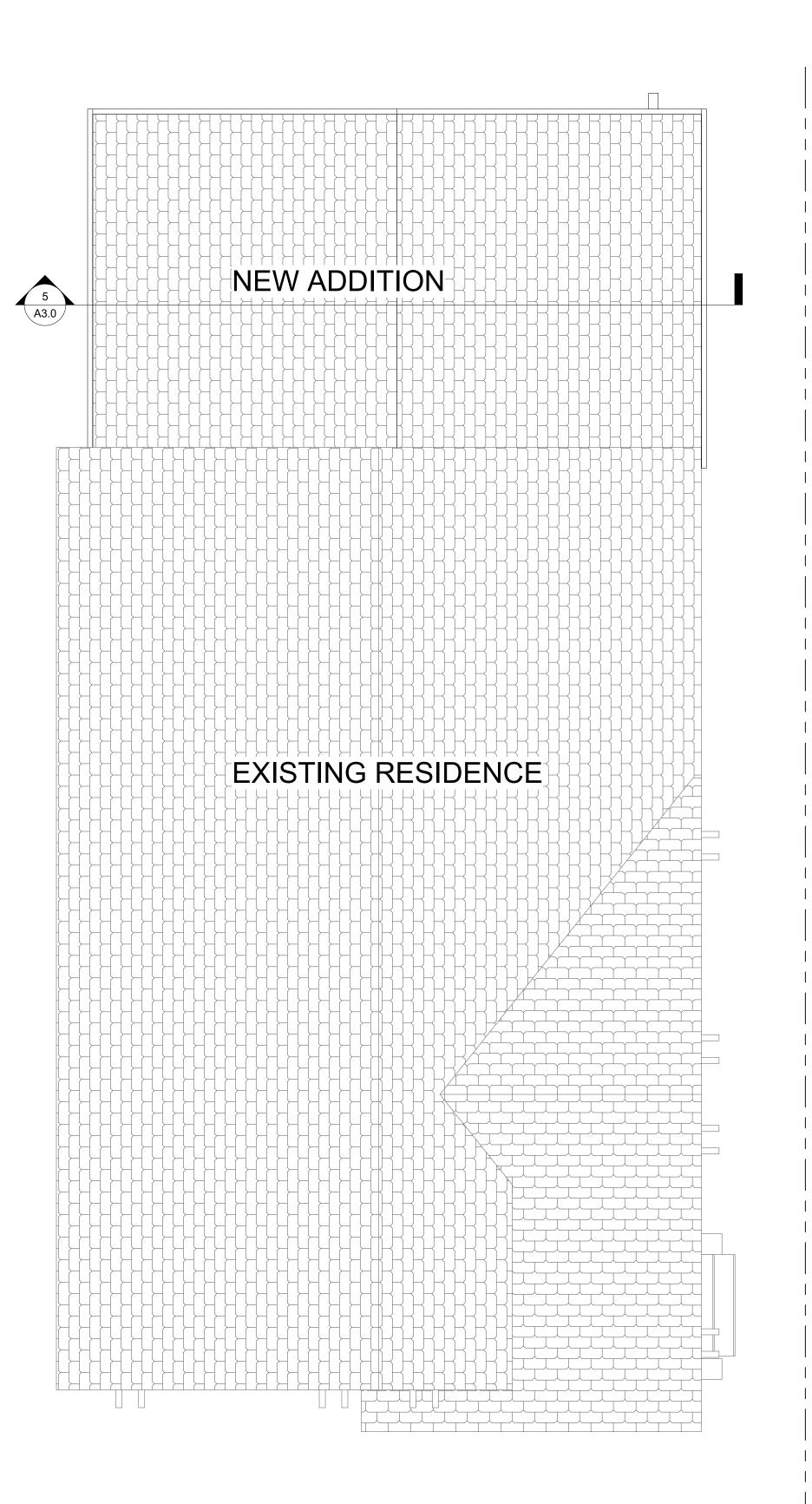
AVE 922 MOLINO

SHEET NAME

ELEVATIONS / SECTIONS

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A3.0



ATTIC VENT CALCS.

120 SQ. FT. / 150 = 0.8 SQ. FT

4 - (4) 2" DIA. DRILLED HOLES - FREIZE BLOCKS EAVE VENT (0.26 SQ. FT. EACH) 4 x 0.26 SQ. FT. = 1.04 SQ. FT.

TOTAL = 1.04 SQ. FT

NOTE:

30.6 VENT OPENINGS ARE TO BE PROVIDED WITH CORROSION-RESISTANT SCREENING WITH OPENINGS NO LARGER THAN 1/4 INCH AND NO SMALLER THAN 1/16 INCH. [CRC R806]

10.2 Note: this site is not located in a high fire

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922 MOLINO AVE

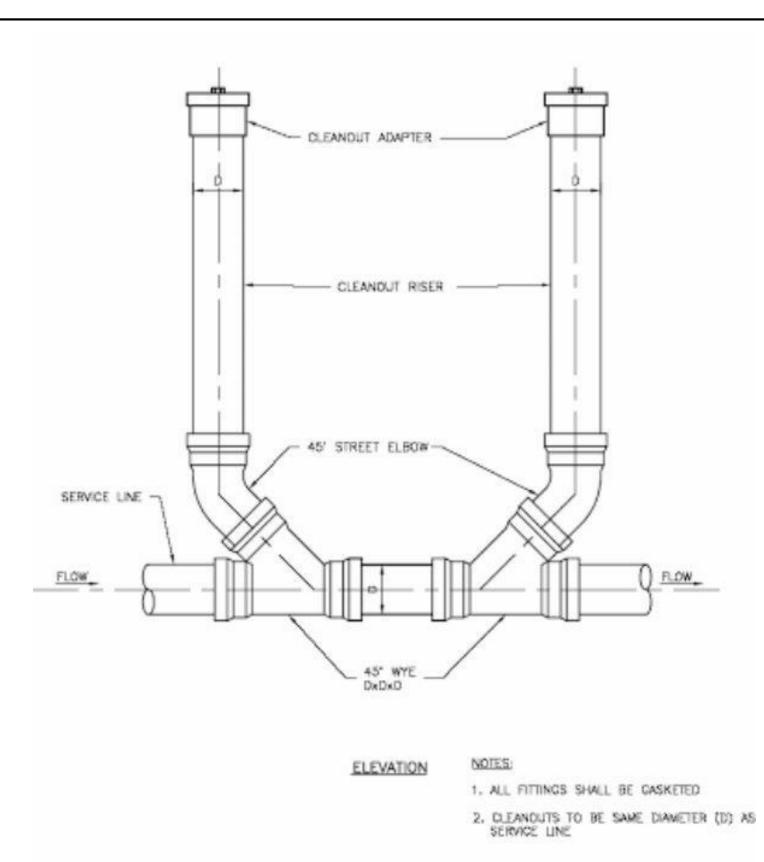
SHEET NAME

ROOF PLAN

LB 1221 Alpie T., Pedro O

A5.0

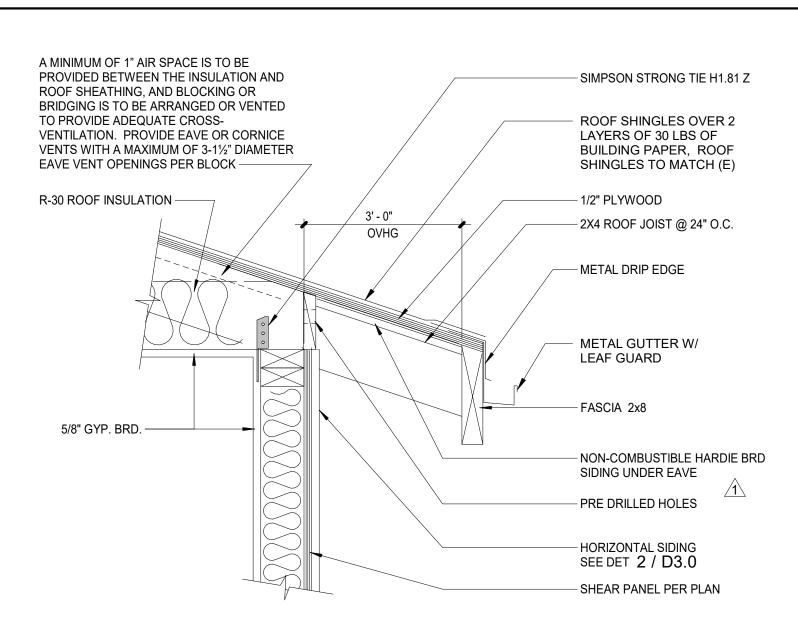
1/4" = 1'-0"



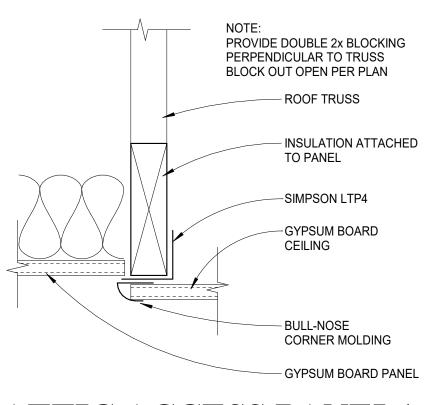


8 CLEANOUT DET.

1 1/2" = 1'-0"



5 EAVE DETAIL



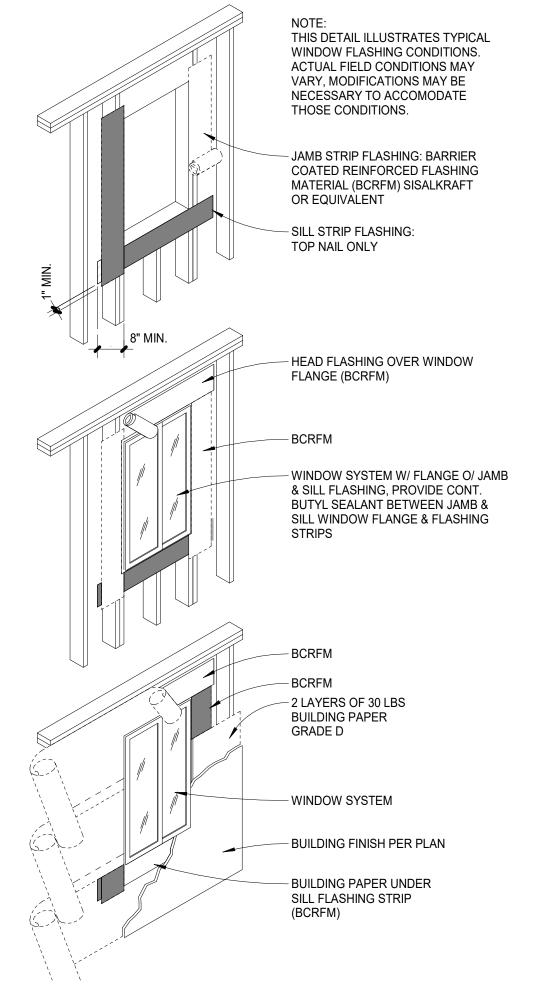
3 ATTIC ACCESS PANEL1

ENTRY THRESHOLD1

[2 | 1 | 1 MAX.

CAULKING —

1/4" EXP. JT.



- BATT INSULATION (WHERE OCCURS) - HOLD DOWN SEE DET -/---HORIZONTAL SIDING SEE 2 / D3.0 - 2X PRESSURE **BOTTOM PLATE** TOP & BOTTOM (2) #4 CONT. FINISH GRADE OR COMPACTED GRAVEL OVER **CONTINOUS FOOTING**

4 WINDOW FLASHING

CONTINUOUS FOOTING DETAIL (N) RAISED 2 FOUNDATION

3" = 1'-0"

NOTE: PENETRATIONS OR OPENINGS IN CONSTRUCTION ASSEMBLIES FOR PIPING; ELECTRICAL DEVICES; RECESSED CABINETS; BATHTUBS; SOFFITS; OR HEATING, VENTILATING OR EXHAUST DUCTS SHALL BE SEALED, LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED RATINGS.

PETRONOS

- SOLID CORE DOOR

-DOOR BOTTOM

- FINISH PER OWNER

W/ VINYL WEATHERSTRIP

CONT. CAULK BEAD

P.O. BOX 7085 Santa Maria, Ca.

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REVISIONS

CLIENT INFO

MOLINO 922

SHEET NAME

ARCHITECTURAL DETAILS

LB 1221 Project number 1 13 22 Pedro O 805 268 2502 Drawn by Checker Checked by

As indicated

SHEET



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

	California RESIDENTIAL MAND	DATORY MEASURES. SHEET 1	I (January 2020, Includes August 2019 Supple	nent) Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,	DRAFTING
RESPON.	CHAPTER 3	PON. Y	N/A RESPON. PARTY	Y N/A RESPON. PARTY	P.O. BOX 7085 Santa Maria. Ca.
FARIT	GREEN BUILDING				93456
	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 California Building Code, Chapter 11A, to allow use of the EV charger	4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and	4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE	THESE DRAWINGS HAVE BEEN PREPARE FOR DESIGN ONLY. CIVIL, STRUCTURAL,
	301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to	from the accessible parking space. 2. The EV space shall be located on an accessible route, as defined in the California Building	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.	4.406.1 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 openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing	MECHANICAL, AND OTHER RELATED ENGINEERING DESIGN AND
	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	Code, Chapter 2, to the building.	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	agency.	SPECIFICATIONS ARE THE RESPONSIBILITY OF THE RESPECTIVE ENGINEERS.
	specific area of the addition or alteration. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or	Exception: Electric vehicle charging stations designed and constructed in compliance with the <i>California Building Code</i> , Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and Section 4.106.4.2.2, Item 3.	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	4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65	COMPLIANCE TO THESE DRAWINGS WILI
	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	Note: Electric Vehicle charging stations serving public housing are required to comply with the <i>California</i>	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	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.	BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
	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	Building Code, Chapter 11B.	flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.	Exceptions:	ALL MEASUREMENTS SHALL BE VERIFIEI
	other important enactment dates.	4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:	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.	Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or	BY THE CONTRACTORS DOING THE RESPECTIVE WORK.
	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	 The minimum length of each EV space shall be 18 feet (5486 mm). The minimum width of each EV space shall be 9 feet (2743 mm). 	4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.	recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.	THESE DRAWINGS, AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERT
	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.	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.	 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. 	OF THE DESIGNERS, AND ARE NOT TO B USED IN WHOLE OR PART WITHOUT HIS
		a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units	4.303.1.3 Showerheads. 4.303.1.3 Showerheads. Showerheads shall have a maximum flow rate of not more than 1.8	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	EXPRESS WRITTEN PERMISSION.
	SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building	horizontal (2.083 percent slope) in any direction.	gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.	necessary and shall be available during construction for examination by the enforcing agency.	UNAUTHORIZED USE OF THESE DRAWINGS WILL SUBJECT THE USER TO LEGAL REMEDY BEING
	shall comply with the specific green building measures applicable to each specific occupancy.	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	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	 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 	SOUGHT BY THE DESIGNERS.
	ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development	diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction	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.	bulk mixed (single stream). 3. Identify diversion facilities where the construction and demolition waste material collected will be	
	BSC California Building Standards Commission DSA-SS Division of the State Architect, Structural Safety	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.	Note: A hand-held shower shall be considered a showerhead.	taken. 4. Identify construction methods employed to reduce the amount of construction and demolition waste	
	OSHPD Office of Statewide Health Planning and Development LR Low Rise	4 106 4 2 4 Multiple EV spaces required. Construction documents shall indicate the raceway	4.303.1.4 Faucets.	generated. 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	REVISIONS
	HR High Rise AA Additions and Alterations N New	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	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	4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the	ILVIOIONO
		electrical load calculations to verify that the electrical panel service capacity and electrical system, 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	not be less than 0.8 gallons per minute at 20 psi.	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.	
	CHAPTER 4	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.	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	time of original construction.	4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver	□ □ □ 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined	
	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.	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	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		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	4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined	
	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 pervious material used to collect or channel drainage or runoff water.	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.	minute at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve	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 requirement in Section 4.408.1	
	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	Notes:	reduction. 4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed	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	
	used for perimeter and inlet controls.	Construction documents are intended to demonstrate the project's capability and capacity or facilitating future EV charging.	in accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> .	Notes:	CLIENT INFO
	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,	There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.	NOTE:	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.	4.106.4.3.1 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	THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.	documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California	
	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	Table 4.106.4.3.1. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.	TABLE - MAXIMUM FIXTURE WATER USE	Department of Resources Recycling and Recovery (CalRecycle).	
	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.	TABLE 4.106.4.3.1	FIXTURE TYPE FLOW RATE	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	
	Retention basins of sufficient size shall be utilized to retain storm water on the site.	TOTAL NUMBER OF PARKING NUMBER OF REQUIRED EV SPACES SPACES	SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI	following shall be placed in the building:	ال سا
	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 by the enforcing agency.	0-9 0	LAVATORY FAUCETS MAX. 1.2 GPM @ 60 PSI	 Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. Operation and maintenance instructions for the following: 	
	Compliance with a lawfully enacted storm water management ordinance.	10-25	(RESIDENTIAL) MIN. 0.8 GPM @ 20 PSI LAVATORY FAUCETS IN 0.5 GPM @ 60 PSI	a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major	
	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.		COMMON & PUBLIC USE AREAS KITCHEN FAUCETS 1.8 GPM @ 60 PSI	appliances and equipment. b. Roof and yard drainage, including gutters and downspouts.	<u>Q</u>
	(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)	26-50	METERING FAUCETS 0.2 GAL/CYCLE	c. Space conditioning systems, including condensers and air filters. d. Landscape irrigation systems. e. Water reuse systems.	
	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	76-100 5	WATER CLOSET 1.28 GAL/FLUSH	Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.	l
	water include, but are not limited to, the following: 1. Swales	101-150 7	URINALS 0.125 GAL/FLUSH	 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. 	ΙŠ
	Water collection and disposal systems French drains	151-200 10 201 and over 6 percent of total	4.304 OUTDOOR WATER USE	6. Information about water-conserving landscape and irrigation design and controllers which conserve water.	2
	Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater	4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to	4.304 OUTDOOR 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	7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.	95
	recharge. Exception: Additions and alterations not altering the drainage path.	comply with the following:	Efficient Landscape Ordinance (MWELO), whichever is more stringent.	 8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 	
	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	The minimum length of each EV space shall be 18 feet (5486mm). 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,	10. A copy of all special inspections verifications required by the enforcing agency or this code.	
	equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.	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.	Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/	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 depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper,	
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infractive are not feelible based upon one or more of the following conditions:	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.		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	4.106.4.3.5 Identification. The service panels or sub-panels shall be identified in accordance with Section		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	SHEET NAME
	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	4.106.4.2.5.		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.			GREEN CODE
				DIVISION 4.5 ENVIRONMENTAL QUALITY	REQUIREMENTS
	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	DIVISION 4.2 ENERGY EFFICIENCY		SECTION 4.501 GENERAL	
	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	4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy		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.	
	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 devices.	Commission will continue to adopt mandatory standards.		SECTION 4.502 DEFINITIONS	
	protective device. 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent			5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	
	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".			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			COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and	
	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.			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	
1	Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity for			93120.1. DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for	Project number LB 122
	facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed			combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.	Date 1 13 2
	for use. 4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall				Drawn by Pedro O 805 268 250
1	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.				Checked by Checker SHEET

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES 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.

PETRONOS



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

YES NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,

Y N/A RESPON. TABLE 4.504.2 - SEALANT VOC LIMIT TABLE 4.504.5 - FORMALDEHYDE LIMITS1 **INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** 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 (Less Water and Less Exempt Compounds in Grams per Liter) MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION hundredths of a gram (g O3/g ROC). **702 QUALIFICATIONS** VOC LIMIT Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 **CURRENT LIMIT** 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper 250 **ARCHITECTURAL** HARDWOOD PLYWOOD VENEER 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 MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood. 760 MARINE DECK HARDWOOD PLYWOOD COMPOSITE CORE 0.05 responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this 300 Examples of acceptable HVAC training and certification programs include but are not limited to the following: NONMEMBRANE ROOF PARTICLE BOARD 0.09 article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of 250 ROADWAY 0.11 MEDIUM DENSITY FIBERBOARD product (excluding container and packaging). State certified apprenticeship programs. Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a). Public utility training programs. SINGLE-PLY ROOF MEMBRANE 450 THIN MEDIUM DENSITY FIBERBOARD2 0.13 Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to 4. Programs sponsored by manufacturing organizations. 420 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED OTHER Other programs acceptable to the enforcing agency. BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL **SEALANT PRIMERS** MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the **VOC.** A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. **ARCHITECTURAL** responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). 250 **NON-POROUS** to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to 775 other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM **POROUS** 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed considered by the enforcing agency when evaluating the qualifications of a special inspector: THICKNESS OF 5/16" (8 MM). woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as MODIFIED BITUMINOUS 500 applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, Certification by a national or regional green building program or standard publisher. 760 MARINE DECK 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building pellet stoves and fireplaces shall also comply with applicable local ordinances. performance contractors, and home energy auditors. 750 OTHER 4.504 POLLUTANT CONTROL
4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency. **DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)** 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 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product Special inspectors shall be independent entities with no financial interest in the materials or the openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to requirements of at least one of the following: project they are inspecting for compliance with this code. reduce the amount of water, dust or debris which may enter the system. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate 1. Carpet and Rug Institute's Green Label Plus Program. 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. homes in California according to the Home Energy Rating System (HERS). 2. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile TABLE 4.504.3 - VOC CONTENT LIMITS FOR Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the [BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall February 2010 (also known as Specification 01350). ARCHITECTURAL COATINGS2.3 requirements of the following standards unless more stringent local or regional air pollution or air quality employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with 3. NSF/ANSI 140 at the Gold level. this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the management district rules apply GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT 4. Scientific Certifications Systems Indoor AdvantageTM Gold. particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a COMPOUNDS recognized state, national or international association, as determined by the local agency. The area of certification 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the **COATING CATEGORY** shall comply with local or regional air pollution control or air quality management district rules where VOC LIMIT shall be closely related to the primary job function, as determined by the local agency. requirements of the Carpet and Rug Institute's Green Label program. applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. FLAT COATINGS 50 Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic Note: Special inspectors shall be independent entities with no financial interest in the materials or the 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1 compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and project they are inspecting for compliance with this code. NON-FLAT COATINGS 100 tricloroethylene), except for aerosol products, as specified in Subsection 2 below. 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving NONFLAT-HIGH GLOSS COATINGS 150 resilient flooring shall comply with one or more of the following: 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in **703 VERIFICATIONS SPECIALTY COATINGS** units of product, less packaging, which do not weigh more than 1 pound and do not consist of more 1. Products compliant with the California Department of Public Health, "Standard Method for the Testing and 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," ALUMINUM ROOF COATINGS 400 limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific commencing with section 94507. in the Collaborative for High Performance Schools (CHPS) High Performance Products Database. BASEMENT SPECIALTY COATINGS 400 documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in 2. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program). the appropriate section or identified applicable checklist. **4.504.2.2 Paints and Coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of BITUMINOUS ROOF COATINGS 50 Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits 4. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of **BITUMINOUS ROOF PRIMERS** 350 apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss February 2010 (also known as Specification 01350). **BOND BREAKERS** 350 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 350 **4.504.5 COMPOSITE WOOD PRODUCTS.** Hardwood plywood, particleboard and medium density fiberboard CONCRETE CURING COMPOUNDS Table 4.504.3 shall apply. composite wood products used on the interior or exterior of the buildings shall meet the requirements for CONCRETE/MASONRY SEALERS 100 formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR by or before the dates specified in those sections, as shown in Table 4.504.5 DRIVEWAY SEALERS 50 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 **4.504.5.1 Documentation.** Verification of compliance with this section shall be provided as requested 150 DRY FOG COATINGS Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air by the enforcing agency. Documentation shall include at least one of the following: Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation **FAUX FINISHING COATINGS** 350 Product certifications and specifications. FIRE RESISTIVE COATINGS 350 Chain of custody certifications 4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see FLOOR COATINGS 100 enforcing agency. Documentation may include, but is not limited to, the following: Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered FORM-RELEASE COMPOUNDS Manufacturer's product specification. Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA GRAPHIC ARTS COATINGS (SIGN PAINTS) Field verification of on-site product containers. 500 0121, CSA 0151, CSA 0153 and CSA 0325 standards. Other methods acceptable to the enforcing agency. HIGH TEMPERATURE COATINGS 420 4.505 INTERIOR MOISTURE CONTROL INDUSTRIAL MAINTENANCE COATINGS 250 TABLE 4.504.1 - ADHESIVE VOC LIMIT_{1,2} **4.505.1 General.** Buildings shall meet or exceed the provisions of the California Building Standards Code. LOW SOLIDS COATINGS₁ 120 (Less Water and Less Exempt Compounds in Grams per Liter) **4.505.2 CONCRETE SLAB FOUNDATIONS.** Concrete slab foundations required to have a vapor retarder by MAGNESITE CEMENT COATINGS 450 California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the ARCHITECTURAL APPLICATIONS California Residential Code, Chapter 5, shall also comply with this section. 100 MASTIC TEXTURE COATINGS 50 INDOOR CARPET ADHESIVES METALLIC PIGMENTED COATINGS 500 **4.505.2.1 Capillary break.** A capillary break shall be installed in compliance with at least one of the CARPET PAD ADHESIVES MULTICOLOR COATINGS 250 **OUTDOOR CARPET ADHESIVES** 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with PRETREATMENT WASH PRIMERS 420 a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, 100 WOOD FLOORING ADHESIVES shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, PRIMERS, SEALERS, & UNDERCOATERS 100 60 **RUBBER FLOOR ADHESIVES** REACTIVE PENETRATING SEALERS 350 Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. SUBFLOOR ADHESIVES 50 RECYCLED COATINGS 250 CERAMIC TILE ADHESIVES 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage 50 ROOF COATINGS shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent **VCT & ASPHALT TILE ADHESIVES** 50 moisture content. Moisture content shall be verified in compliance with the following: RUST PREVENTATIVE COATINGS 250 50 **DRYWALL & PANEL ADHESIVES** SHELLACS 1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent COVE BASE ADHESIVES moisture verification methods may be approved by the enforcing agency and shall satisfy requirements 730 found in Section 101.8 of this code MULTIPURPOSE CONSTRUCTION ADHESIVE 2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end OPAQUE 550 STRUCTURAL GLAZING ADHESIVES 100 SPECIALTY PRIMERS, SEALERS & 3. At least three random moisture readings shall be performed on wall and floor framing with documentation SINGLE-PLY ROOF MEMBRANE ADHESIVES 250 acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. UNDERCOATERS 50 STAINS 250 OTHER ADHESIVES NOT LISTED Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying STONE CONSOLIDANTS 450 SPECIALTY APPLICATIONS recommendations prior to enclosure. 510 340 SWIMMING POOL COATINGS PVC WELDING 4.506 INDOOR AIR QUALITY AND EXHAUST TRAFFIC MARKING COATINGS 100 CPVC WELDING **4.506.1 Bathroom exhaust fans.** Each bathroom shall be mechanically ventilated and shall comply with the 325 **TUB & TILE REFINISH COATINGS** 420 ABS WELDING Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 250 WATERPROOFING MEMBRANES 250 PLASTIC CEMENT WELDING 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a 275 550 WOOD COATINGS ADHESIVE PRIMER FOR PLASTIC WOOD PRESERVATIVES 350 CONTACT ADHESIVE 80 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 ZINC-RICH PRIMERS SPECIAL PURPOSE CONTACT ADHESIVE 250 b. A humidity control may be a separate component to the exhaust fan and is not required to be 1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & 140 STRUCTURAL WOOD MEMBER ADHESIVE integral (i.e., built-in) EXEMPT COMPOUNDS 250 TOP & TRIM ADHESIVE 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS SUBSTRATE SPECIFIC APPLICATIONS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY 30 METAL TO METAL THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS 2. Lighting integral to bathroom exhaust fans shall comply with the *California Energy Code*. 50 PLASTIC FOAMS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD. 4.507 ENVIRONMENTAL COMFORT POROUS MATERIAL (EXCEPT WOOD) 50 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be 30 sized, designed and have their equipment selected using the following methods: 1. 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. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. 1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED. Equipment Selection), or other equivalent design software or methods. 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE **Exception:** Use of alternate design temperatures necessary to ensure the system functions are THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

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