

DESIGNER
 ESTEBAN SOLIS
 PO BOX 4171
 VENTURA, CA. 93007
 805-636-8173
 BUILDINGPERMITCENTER@GMAIL.COM

NOTE 1: THIS PROJECT DOES NOT CONTAIN / REQUIRE A FIRE SPRINKLER SYSTEM.

NOTE TO PLANS EXAMINER: THIS PROJECT IS DESIGNED AS TYPE-V-B PRESCRIPTIVE LIGHT WOOD FRAMING IN CONFORMANCE WITH 2019 CRC.

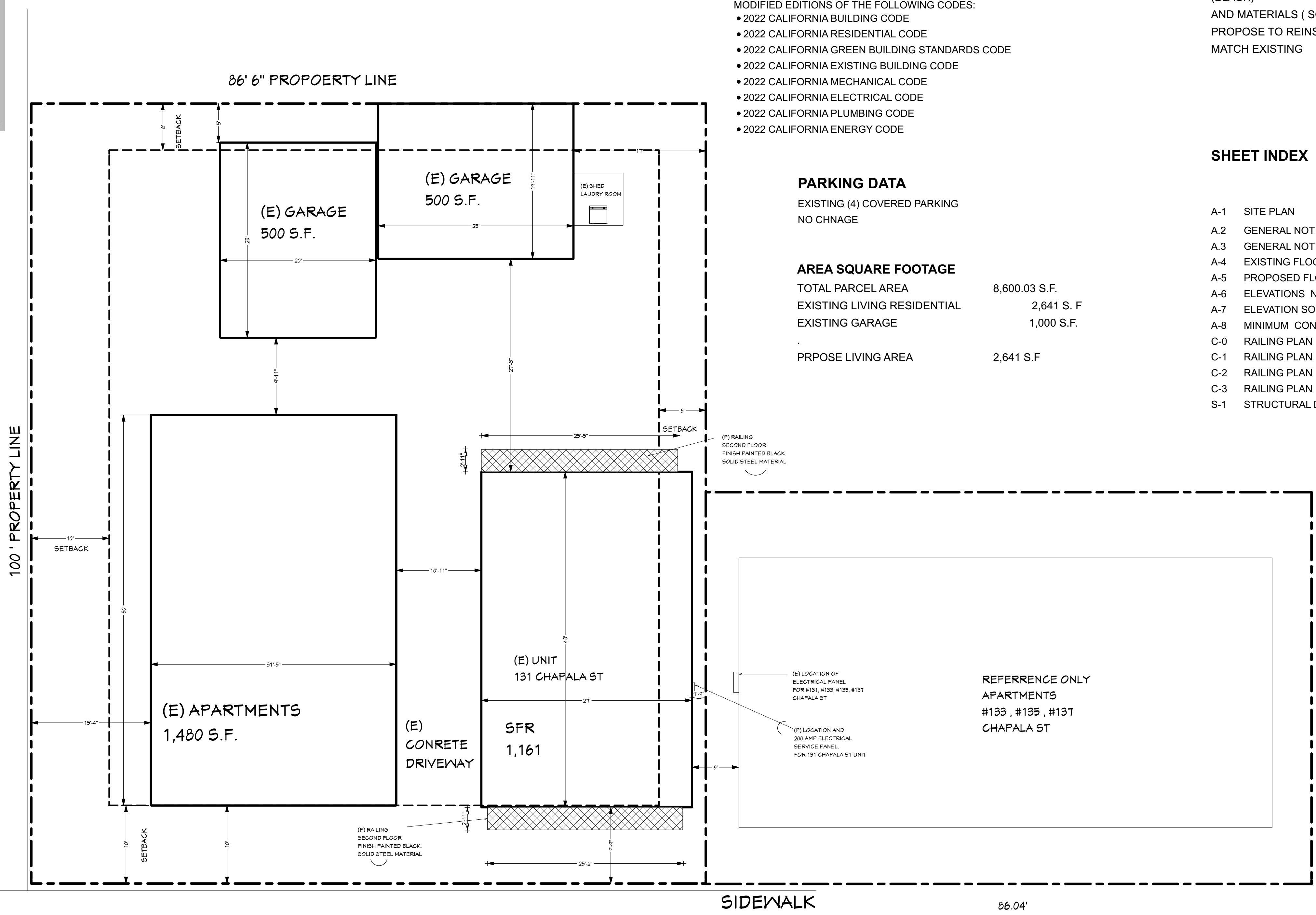
GREEN BUILD OPERATION & MANUAL
 AT THE TIME OF FINAL INSPECTION, AN OPERATION & MAINTENANCE MANUAL, COMPACT DISC OR WEB BASED REFERENCE SHALL BE PLACED IN THE BUILDING. THIS MANUAL SHALL INCLUDE ALL OF THE ITEMS LISTED ON CALIFORNIA GREEN STANDARDS CODE SECTION 4.410.1

DRAWING NOTE:
 REGARDLESS OF INDICATION CONTAINED IN THESE DRAWINGS, THE CONTRACTOR, BUILDER, HOME OWNER BUILDER SHALL CONFIRM ALL GRADES, DIMENSIONS, AND OTHER REFERENCES, AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY.

ALL ELEVATIONS W/+ - NOTIFY THESE ARE BASED OFF OF ROUGH FIELD MEASUREMENTS AND GOOGLE EARTH ELEVATIONS.

- GENERAL NOTES 2:**
1. CODE / AUTHORITY: ALL CONSTRUCTION SHALL COMPLY WITH ALL AMENDMENTS AS ADOPTED BY THE CITY OF SANTA BARBARA.
 2. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE DESIGNER OF ANY DISCREPANCIES AND INCONSISTENCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
 3. CONTRACTOR SHALL NOTIFY THE DESIGNER ABOUT ANY CONDITIONS REQUIRING A MODIFICATION OR CHANGE BEFORE PROCEEDING WITH THE WORK.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF THE BUILDING AND WALLS ON SITE.
 5. REFER TO STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR OTHER GENERAL REQUIREMENTS AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
 6. CONTRACTOR SHALL NOT SCALE DRAWINGS.

NATOMA AVE



CODE COMPLIANCE

THIS PROJECT HAD BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE CITY OF SANTA BARBARA ADOPTED CODE AND ORDINANCE REQUIREMENTS AND THE CONTRACTOR/ BUILDER/OWNER WILL BE RESPONSIBLE FOR ALL CLARIFICATION DEEMED NECESSARY DURING THE CONSTRUCTION PHASES. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT, MODIFIED EDITIONS OF THE FOLLOWING CODES:

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2022 CALIFORNIA EXISTING BUILDING CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ENERGY CODE

PARKING DATA

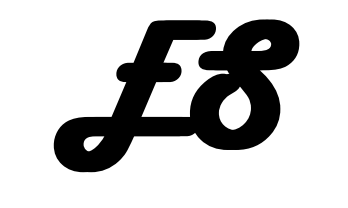
EXISTING (4) COVERED PARKING
 NO CHNAGE

AREA SQUARE FOOTAGE

TOTAL PARCEL AREA	8,600.03 S.F.
EXISTING LIVING RESIDENTIAL	2,641 S. F
EXISTING GARAGE	1,000 S.F.
PRPOSE LIVING AREA	2,641 S.F

SCOPE OF WORK:

PROPOSE REPLACE EXISTING EXTERIOR RAILING WITH NEW RAILING. SAME LOCATION. PROPOSED RAILING WILL HAVE TWISTED PICKETS (SWIRLS) AND MATCH THE EXISTING RAILING IN COLOR (BLACK) AND MATERIALS (SOLID STEEL).
 PROPOSE TO REINSTALL SHUTTERS TO MATCH EXISTING



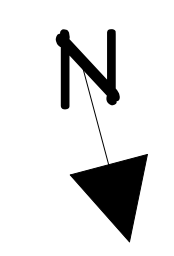
SHEET INDEX

A-1	SITE PLAN
A.2	GENERAL NOTES
A.3	GENERAL NOTES SHEET 2
A-4	EXISTING FLOOR PLAN
A-5	PROPOSED FLOOR PLAN
A-6	ELEVATIONS NORTH - EAST
A-7	ELEVATION SOUTH - WEST
A-8	MINIMUM CONSTRUCTION SPECIFICATIONS
C-0	RAILING PLAN
C-1	RAILING PLAN
C-2	RAILING PLAN
C-3	RAILING PLAN
S-1	STRUCTURAL DETAILS AND CALCULATIONS

SIDEWALK 86.04'

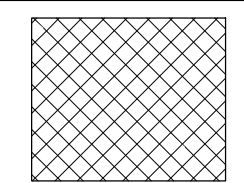
GRASS

CHAPALA ST



SITE PLAN

SCALE: 1/8"-1'-0"



AREA OF WORK SECOND FLOOR

PP (E) POWER POLE - NEAREST TO 131 CHAPALA ST

PROJECT DATA

PROJECT OWNER:	JANA KUHNLE
PROJECT ADDRESS:	102 NATOMA AVE #A (131 CHAPALA ST) SANTA BARBARA, CA. 93101
APN:	033-072-007
USE OF STRUCTURE:	SINGLE FAMILY RESIDENTIAL
ZONE:	R-4 / S-D-3 (HOTEL -MOTEL -MULTIPLE - FAMILY RESIDENCE / COASTAL OVERLAY)
COASTAL LAND USE PLAN:	COMMERCIAL / MEDIUM-HIGH DENSITY RESIDENTIAL (15-27 DU/AC)
AVG. SLOPE:	6% (EST. FROM CITY GIS)
GRADING:	0 CY
LOT SIZE:	0.2 ACRES; APPROX. 8,600.03 SQ FT
HIGH FIRE AREA:	NO
ZONING CODE:	TITLE 28
TYPE OF CONSTRUCTION:	V-B
PARKING:	4
FLOOD ZONE:	AE
OCCUPANCY GROUP:	MULTI-FAMILY
YEAR BUILT:	
STORIES:	2

SITE PLAN

OWNER: JANE KUHNLE
102 NATOMA AVE #A (131 CHAPALA ST)
SANTA BARBARA, CA. 93101

DATE:
04-15-2024

SCALE:

SHEET:

A-1

DESIGNER: ESTEBAN SOLIS
VENTURA, CA. 93007
805-636-8173
BUILDINGPERMITCENTER@GMAIL.COM

NO.	DESCRIPTION	BY	DATE

General Notes:

maximum flow rate of 1.2 gallons per minute at 60 psi and shall have a minimum flow rate of 0.8 gallons per minute at 20 psi. [CGBSC 4.303]

- Kitchen faucets shall have a maximum flow rate of 1.8 gallons per minute at 60 psi. 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. [CGBSC 4.303]
- When a shower is served by more than one showerhead, the combined flow rate of all 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 allow only one shower outlet to be in operation at a time. (Note: A hand-held shower is to be considered a showerhead for purposes of this provision) [CGBSC 4.303]

Safety Glazing:

- Provide safety glazing in all fixed and operable panels of swinging, sliding and bi-fold doors. [CRC R308.4]
- Unless there is an intervening wall or other permanent barrier, provide safety glazing in sidelights or windows adjacent to a door where the bottom edge of sidelight/window is less than 60 inches above the floor or walking surface, and the nearest vertical edge is within a 24" of either side of the door in a closed position or where the glazing on a wall is less than 180 degrees from the plane of the door in a closed position and within 24" of the hinge side of an in-swinging door. [CRC R308.4.2]
- Unless protected by a horizontal protective railing at 34 inches to 38 inches above finish floor capable of withstanding a horizontal load of 50 pounds per linear foot, provide safety glazing at fixed or operable panels exceeding 9 square feet where the lower edge of the glazing is less than 18 inches above finish floor, the top edge is more than 36 inches above the floor and there are one or more walking surfaces within 36 inches of the glazing. [CRC R308.4.3]
- Provide safety glazing in glass railings or balusters. Structural glass baluster panels shall be installed with an attached top rail or handrail supported by not less than three glass baluster panels, or shall be otherwise supported to remain in place should one glass baluster panel fail. [CRC R308.4.4]
- Provide safety glazing in enclosures for or walls facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs and showers where the bottom edge of the glass is less than 60 inches from the floor and within 5 feet of the water's edge measured horizontally and in a straight line from the water's edge of a bathtub, hot tub, spa, whirlpool or swimming pool or from the edge of a shower, sauna or steam room. [CRC R308.4.5]
- Provide safety glazing at fixed or operable panels where the bottom edge of glass is less than 36 inches above the plane of the adjacent walking surfaces of stairways and intermediate landings. [CRC R308.4.6]
- Fixed or operable glass panels adjacent to the landing at the bottom of a stairway where the glazing is less than 36 inches above the landing and within a 60 inch horizontal arc less than 180 degrees from the bottom tread nosing shall be provided with safety glazing unless protected by a guard or handrail complying with CRC R312 and the plane of glass is more than 18" from the guard. [CRC R308.4.7]

Attic Access:

- Provide minimum 22"x 30" access to attics that exceed 30 square feet in area and have a vertical height of 30 inches or greater and shall be located in a hallway or other readily accessible location. Where a FAU or water heater is installed in the attic or under-floor space, the access opening shall be sized to accommodate the largest component of the equipment in such space, and not less than 22"x30". [CRC R807, CMC 304.4]

Electrical Requirements:

- Electrical panelboards and metal boxes in common wall(s) between garage and dwelling shall be protected from fire for membrane penetrations [CRC R302.6]
- All non-locking type 125-volt, 15 and 20 ampere receptacles in a dwelling unit shall be listed tamper-resistant receptacles. (Exceptions: (1) receptacles more than 5'-6" above the floor, (2) receptacles part of a luminaire or appliance, (3) a single receptacle or a duplex receptacle for two appliances that are not easily moved and located within dedicated space and are chord-and-plug connected as per CEC 400.10(A)(6), (A)(7) or (A)(8), and (4) non-grounding receptacles used for replacements as permitted in CEC 406.4 (D) (2) (a). [CEC 406.12]
- All 120-volt, single phase, 15 and 20 ampere branch circuits supplying outlets or devices installed in dwelling unit kitchen, family room, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, laundry areas, or similar rooms or areas shall be protected by a listed arc-fault/branch circuit interrupter, combination type, a branch/feeder type, a listed supplemental arc protection circuit breaker installed to provide protection of the branch circuit. [CEC 210.12(A)(1) through (6)].
- Where branch-circuit wiring is modified, replaced or extended in areas specified in CEC 210.12(A), the branch circuit shall be protected by either a listed combination-type AFCI located at the origin of the branch circuit or a listed outlet branch-circuit type AFCI located at the

first receptacle of the existing branch circuit. [CEC 210.12 (D)]

- Electrical receptacle location/spacing shall be provided at wall spaces 2 feet or wider, not more than 6 feet from openings, not more than 12 feet on center. These receptacles are in addition to any receptacle that is part of a luminaire, appliance, controlled by a switch or located within cabinets or cupboards. Note that fixed glazing panels are considered wall space for purposes of this code section. [CEC 210.52(A)(1)(2)].
- In kitchen, pantries, breakfast rooms, dining rooms and similar areas, countertop and work surface receptacles shall be provided at each section of countertop and work surface 12" or wider. Receptacles are to be spaced such that no point along the wall line is more than 24" measured horizontally from a receptacle outlet in that space. Countertop space shall be considered continuous when the space is 12" or deeper behind a sink, countertop cooking unit or range placed parallel to a wall or 18" or deeper behind a sink, countertop cooking unit or range placed in a corner configuration (the 18" is measured to the inside corner of the wall along a line that is perpendicular to the rear of the sink, countertop cooking unit or range). [CEC 210.52(C)].
- Provide a minimum of (1) waterproof/GFCI outdoor receptacle at front and rear of structure. All exterior outlets shall be waterproof/GFCI outdoor receptacles. [CEC 210.52 (E)(1)].
- At least one receptacle outlet, in addition to those required for specific equipment, shall be installed in each basement, in each attached garage, and in each detached garage and/or accessory building with electric power. [CEC 210.52 (G)(1)].
- In garages at least one receptacle outlet shall be installed for each car space. [CEC 210.52 (G)(1)].
- At least one 120-volt, 20-amp dedicated branch circuit shall be installed to supply receptacle outlets in attached and detached garages with electric power. [CEC 210.11(C)(4)]
- At least one receptacle outlet shall be installed in each hallway 10 feet or more in length (hallway length shall be considered the length along the centerline of the hallway without passing through a doorway). [CEC 210.52(H)]
- Receptacle outlets are required within 3' of the outside edge of each basin and shall be located on the wall or partition adjacent to the basin or in the countertop. Countertop receptacles must be listed for that use. Receptacles are to be GFCI protected. [CEC 210.52]
- Provide a waterproof/GFCI outdoor receptacle within the perimeter of balconies, decks and porches that are attached to a dwelling unit and are accessible from the inside of the dwelling unit. [CEC 210.52 (E)(3)].
- Provide a GFCI 15 or 20 amp receptacle at unfinished basement in addition to those specific for equipment. [CEC 210.52(G)]
- Indicate (1) GFCI/WP outlet within 25 feet of the air conditioning unit and a disconnect switch. [CEC 210.63]
- Provide separate disconnect means (if panelboard or other disconnecting means are not within sight) for mini-split systems. [CMC 301.4, CEC 430.102, 440.8, 430.87 Ex (1), 430.12, 440.14]
- All kitchen countertop receptacles are to be GFCI protected. Receptacles within 6 feet from the top inside edge of the bowl of the sink, receptacles within 6 feet of the outside edge of any bathtub or shower stall, and receptacles in laundry areas are to be GFCI protected. [CEC 210.8]
- All receptacles in bathrooms shall be GFCI protected. [CEC 210.8].
- Receptacles on undedicated circuits in garage and unfinished basements to be GFCI protected. [CEC 210.8].
- All receptacles in damp or wet locations (WP) shall be listed weather-resistant type and be GFCI protected. An outlet box hood installed for this purpose shall be listed and identified as "Extra Duty". [CEC 406.9].

Lighting Fixtures - Switching Requirements:

- Provide a minimum of one wall switch controlled lighting outlet in every habitable room: bathroom, hallways, stairways, attached garages, detached garages with electrical power and every outdoor entrance or exit which provides grade level access. [CEC 210.70].
- Where one or more lighting outlets are installed at interior stairways, there shall be a wall switch at each floor level. Any landing level that includes an entry way where the stairway between floor levels has six or more risers shall also be provided with a switch. [CEC 210.70]

Smoke Detectors/Carbon Monoxide Alarms:

- Provide 120 volt hard-wired, interconnected smoke alarms: (with battery back-up) at all new construction per CRC R314.3. They are to be provided:
 - In each sleeping room(s).
 - On the wall or ceiling outside each separate sleeping area in the immediate vicinity of the bedrooms.
 - Minimum of (1) detector in each story including basements and habitable attics (with alarm audible in sleeping rooms).
- Alterations, repairs and additions to dwelling units shall be provided with smoke alarms. Smoke alarms are required to be installed in existing sleeping rooms and areas providing access to sleeping areas in addition to those required for new construction (CRC R314.6). Unless the repair or remodel

does not involve the removal of wall and ceiling finishes and there is no means of access by means of an attic, basement, or crawlspace, alarms are to be interconnected such that activation of one alarm shall activate all of the alarms in that individual unit. They are to be provided:

- In each sleeping room(s).
 - On the wall or ceiling outside each separate sleeping area in the immediate vicinity of the bedrooms.
 - Minimum of (1) detector in each story including basements and habitable attics (with alarm audible in sleeping rooms).
- Per CRC R315, provide 120 volt hard-wired, interconnected Carbon Monoxide Alarm (with battery back-up) at all new dwelling units and in sleeping units within which fuel-burning appliances are installed and in dwelling units or sleeping units that have attached garages. Alarms are to be interconnected such that activation of one alarm shall activate all of the alarms in that individual unit. They are to be provided:
 - Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s)
 - On every level of a dwelling unit including basements
 - Alterations, repairs and additions to dwelling units shall be provided with Carbon Monoxide Alarm. Carbon Monoxide Alarm (with battery back-up) are required to be installed in all dwelling units and in sleeping units within which fuel-burning appliances are installed and in dwelling units or sleeping units that have attached garages (CRC R315.2). Unless the repair or remodel does not involve the removal of wall and ceiling finishes and there is no means of access by means of an attic, basement, or crawlspace, alarms are to be interconnected such that activation of one alarm shall activate all of the alarms in that individual unit. They are to be provided:
 - Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s)
 - On every level of a dwelling unit including basements

Electric Vehicle Charging Stations:

- New one- and two- family dwellings with attached private garages are to comply with Section A4.106.4.1 and Section A4.106.4.1.1 of the California Green Building Standards Code to facilitate future installation and use of EV chargers. For each dwelling unit, install a minimum 1" inside diameter listed raceway to accommodate a dedicated 208/240v branch circuit. Raceway shall originate at main or sub panel and terminate in a listed box in close proximity to the proposed EV charger location. Raceways must be continuous at enclosed, inaccessible, or concealed spaces. Service panel shall provide capacity to install 40 amp minimum dedicated branch circuit and spaces reserved to permit installation of a branch circuit overcurrent device, identify the reserved space and raceway termination for future EV as "EV CAPABLE." [CRC R309.8]

Energy Conservation Requirements:

- All interior residential lighting is to be high efficacy. luminaires with integral sources (e.g., LED luminaires) and changeable lamps must be CEC certified as meeting the requirements of JA8.
- Lighting not automatically classified as high efficacy by the CA Energy Commission (e.g., pin-based fluorescent luminaires, pulse-start halide luminaires, high pressure sodium luminaries) is to have a light source or lamp installed in them at the time of inspection that meets the requirements of Joint Appendix JA8.
- Recessed down-lighting is to contain light sources that are JA8-certified, shall not contain screw based lamps and shall not contain light sources that are labeled "not for use in enclosed fixtures" or "not for use in recessed fixtures". They shall be listed for zero clearance, have a label that certifies the luminaire as airtight when tested in accordance with ASTM E283 (with the exception of exhaust fan housings) and be readily accessible for ballast or driver maintenance and replacement.
- Except for closets less than 70 square feet and hallways, all luminaires that are installed with JA8-certified light sources are required to be controlled by either a dimmer or vacancy sensor.
- The number of electrical boxes located more than 5 feet above finished floor that do not contain a luminaire or other device shall not exceed the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor or fan speed control. [California Energy Code Section 150 (k) 1 (B)]
- At least one luminaire each bathroom, garage, laundry room, and utility room shall be controlled by a manual on/automatic-off vacancy sensor. [California Energy Code Section 150 (k) 2 (J)]
- Outdoor lighting permanently mounted to a single family dwelling or other buildings in the same lot shall be high efficacy and must be controlled by an on/off switch that does not override to ON as listed below. Also, the lighting must by one of the following methods:
 - Controlled by photocell and motion sensor. Controls that override to ON shall not be allowed unless the override automatically reactivates the motion sensor within 6 hours, or
 - Controlled by any of the following:
 - Photocell and automatic time switch control. Controls that override to ON shall not be allowed unless the override automatically return the photo-control and automatic time switch control to its normal operation within 6 hours, or
 - Astronomical time clock. Controls that override to ON shall not be allowed unless the override automatically return the astronomical clock its normal operation within 6 hours and which is programmed to automatically turn the outdoor lighting OFF during daylight hours, or
 - Energy management control system which meets all of the following requirements. At a minimum provides the functionality of an astronomical time clock in accordance with Section 110.9 of the

standards; meets the Installation Certification requirements in Section 130.4 of the standards; meets the requirements for an EMCS in Section 130.5 of the standards; does not have an override or bypass switch that allows the luminaire to be always ON; and, is programmed to automatically turn the outdoor lighting OFF during daylight hours.

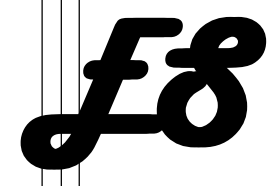
- Water heating systems using gas or propane water heaters to serve individual dwelling units shall include: (1) a dedicated 125 volt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit within 3 feet of water heater and accessible to the water heater with no obstructions (see additional requirements for the field), (2) a category III or IV vent or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed, (3) a condensate drain that is no more than 2" higher than the base of the installed water heater and allows natural draining without pump assistance, and (4) a gas supply line with a capacity of at least 200,000 Btu/hr. [CEC 150.0(n)(1)(a)]

Plumbing Requirements:

- Provide a 30" clear width and 24" clear space in front of the water closet. [CPC 402.5]
- Showers are to have a minimum interior area of 1024 square inches and shall be capable of encompassing a 30 inch circle. [CPC 408.6]
- Gas sediment traps shall be provided and installed downstream of the appliance shutoff valve as close to the inlet of the appliance as practical, before the flex connector for gas Furnaces, Water Heaters and Pool Heaters. [CPC 1212.9]
- No domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine. Listed air gaps shall be installed with the flood-level (FL) marking at or above the flood level of the sink or drainboard, whichever is higher. [CPC 807.3]
- CPVC and PEX piping used for domestic purposes shall be flushed as prescribed in CPC 604.1.1 and 604.1.2 and a FLUSH & TAG document shall be provided to the homeowner per CPC 604 at time of final inspection.
- Shower receptors (pans) shall be tested for watertightness by filling with water to the level of the rough threshold. The test plug shall be so placed that both upper and under sides of the subpan shall be subject to the test at the point where it is clamped to the drain. Roll-in shower receptors (curb-less) shall have a temporary curb built to a minimum height of 2" from the center of the drain for such testing. [CPC 408.7.5]

Mechanical Requirements:

- Provide minimum 30 inches in depth, width & height of unobstructed working space in front of warm-air furnace. [CMC 304].
- Provide a 42" high guard where any portion of rooftop equipment is less than 6 feet from the edge of a roof or similar hazard. [CMC 303]
- Access opening to attic or under floor furnace shall be no more than 20 feet from furnace. [CMC 304.4].
- Provide protection from damage to furnace or other gas-fired equipment by automobiles, at rear of garage. Pilots, burners, or heating elements shall be 18" minimum above floor. [CMC 305].
- Condensate line clean-out shall be provided for all primary condensate piping at each condensing appliance. [CMC 310.3.1]
- Refrigerant access port protection shall be provided with locking-type tamper-resistant caps or in a manner approved by AHJ. [CMC 1105.11 incl. Ex.]
- Provide air conditioning unit with seismic anchorage on min. 4" concrete slab 3" above grade. [CMC 303.4] Installations over pre-manufactured PVC pads shall be anchored to the grade as approved by AHJ.
- Provide permanent identification of equipment where more than one heating, cooling, ventilation, or refrigerating system is installed on the roof of a building or within a building, identifying the area or space served by the equipment. [CMC 303.6]
- Installed air conditioning and heat pump outdoor condensing units shall have a clearance of at least five (5) feet from the outlet of any dryer vent. [CEC 150.0(h)(3)(A)]
- Kitchens are to be provided with an exhaust fan with an exhaust rate of 100 cfm minimum for intermittent exhaust or 5 air changes per hour if continuous. Kitchen hood systems that vent air to the outside may be used for this purpose. [California Energy Code Section 150(o)]
- Rooms containing a bathtub, shower, spa, or similar source of moisture are to be provided with an exhaust fan with an exhaust rate of 50 cfm minimum intermittent or 20 cfm continuous, ducted to the exterior of the building. Please indicate this on the floor plan or electrical floor plan. Unless it functions as a component of a whole house ventilation system, it must be controlled by a readily accessible humidistat and shall be Energy Star compliant. [CGBSC 4.506; California Energy Code Section 150(o)]
- Clothes dryer to be vented outside and equipped with a back draft damper. Vent is to have maximum vertical and horizontal length including (2) 90 degree elbows of 14 feet. A length of 2 feet shall be deducted for each elbow in excess of two. If a dryer booster fan is proposed, please specify compatible fan on plans. [CMC 504.4]



NO.	DESCRIPTION	BY	DATE

DESIGNER: ESTEBAN SOLIS
VENTURA, CA 93007
805-636-8173
BUILDINGPERMITCENTER@GMAIL.COM

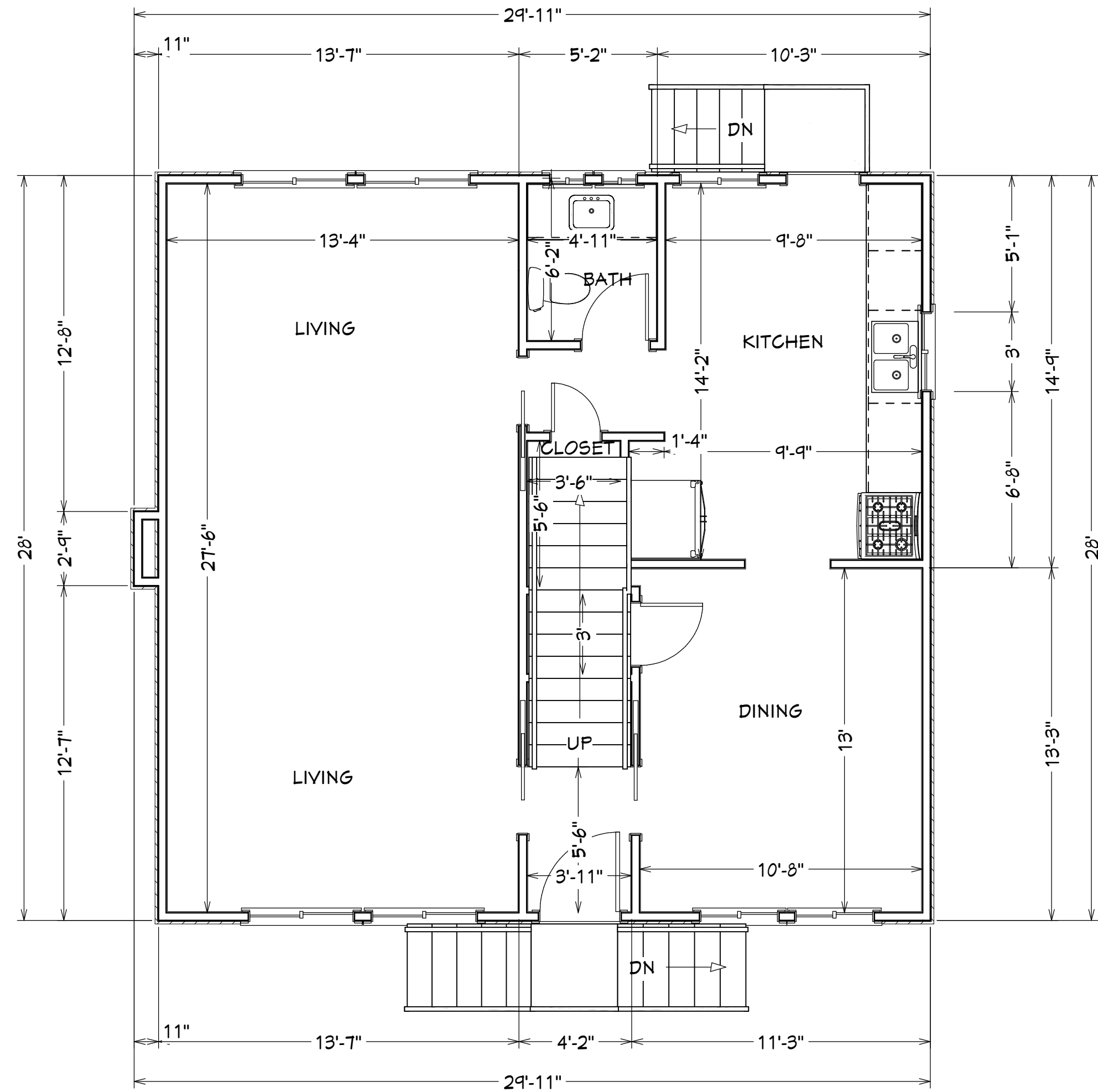
GENERAL NOTES SHEET 2

OWNER: JANE KUHMLE
102 NATOMA AVE #A (131 CHAPALA ST)
SANTA BARBARA, CA. 93101

DATE:
03-15-2024

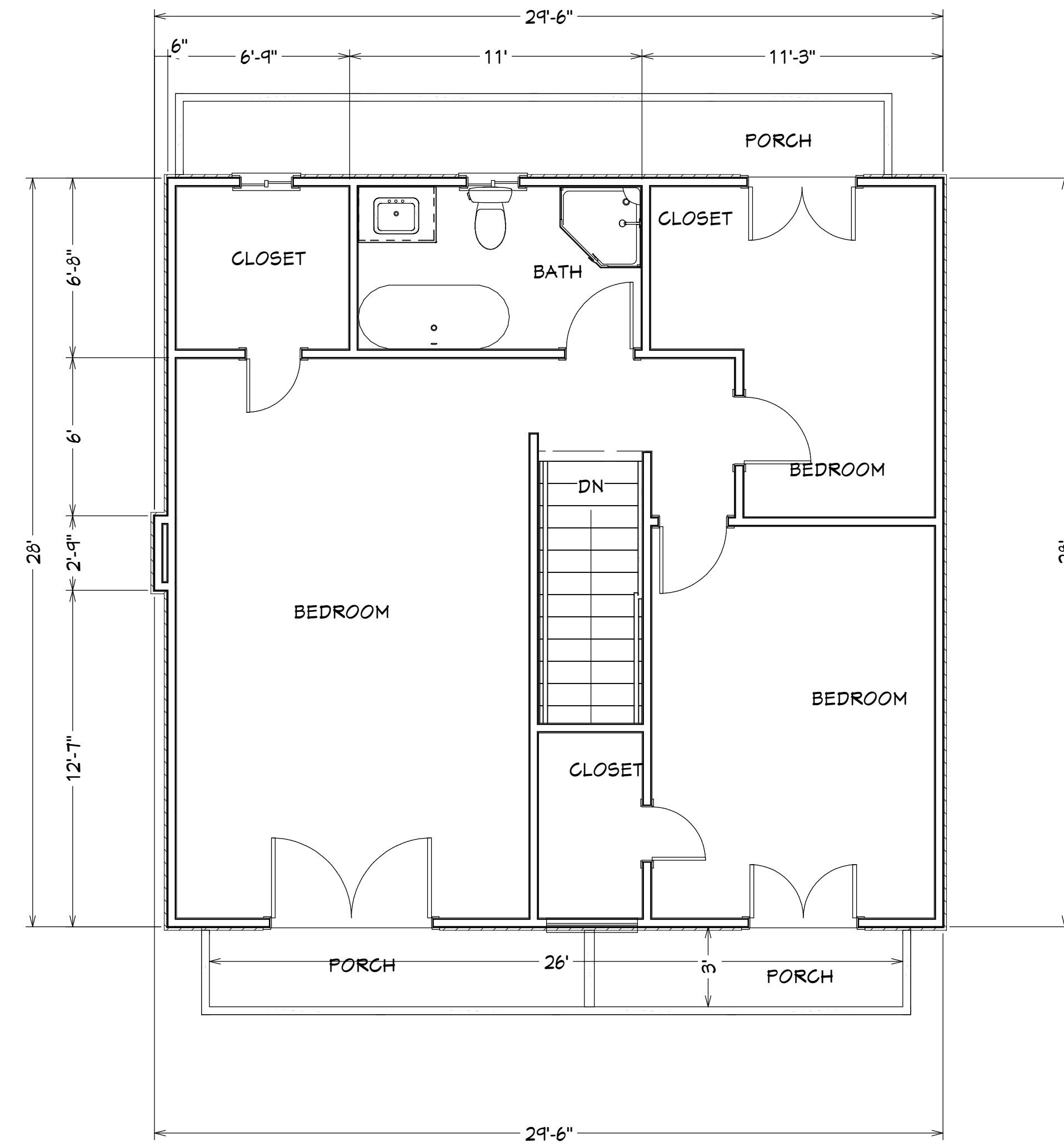
SCALE:

SHEET:



EXISTING FIRST FLOOR PLAN

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



EXISTING SECOND FLOOR PLAN

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

NO.	DESCRIPTION	BY	DATE

DESIGNER: ESTEBAN SOLIS
 SANTA BARBARA, CA 93190
 805-636-8173
 BUILDINGPERMITCENTER@GMAIL.COM

EXISTING FLOOR PLAN

OWNER: JANE KUHMLE
 102 NATOMA AVE #A (131 CHAPALA ST)
 SANTA BARBARA, CA. 93101

DATE:
03-15-2024

SCALE:

SHEET:

A-4



WINDOW SCHEDULE

MARK SYMBOL	STATUS	QTY	WIDTH	HEIGHT	R/O	DESCRIPTION	GLAZING TYPE	TEMPERED	EGRESS	U-FACTOR	SHGC	MAT
A	NEW	1	36"	36"	37" X 37"	DOUBLE HUNG	DOUBLE PANE WITH LOW-E	YES	NO	0.30	0.23	WOOD
B	NEW	2	16"	24"	17" X 25"	DOUBLE HUNG	DOUBLE PANE WITH LOW-E	YES	NO	0.30	0.23	WOOD

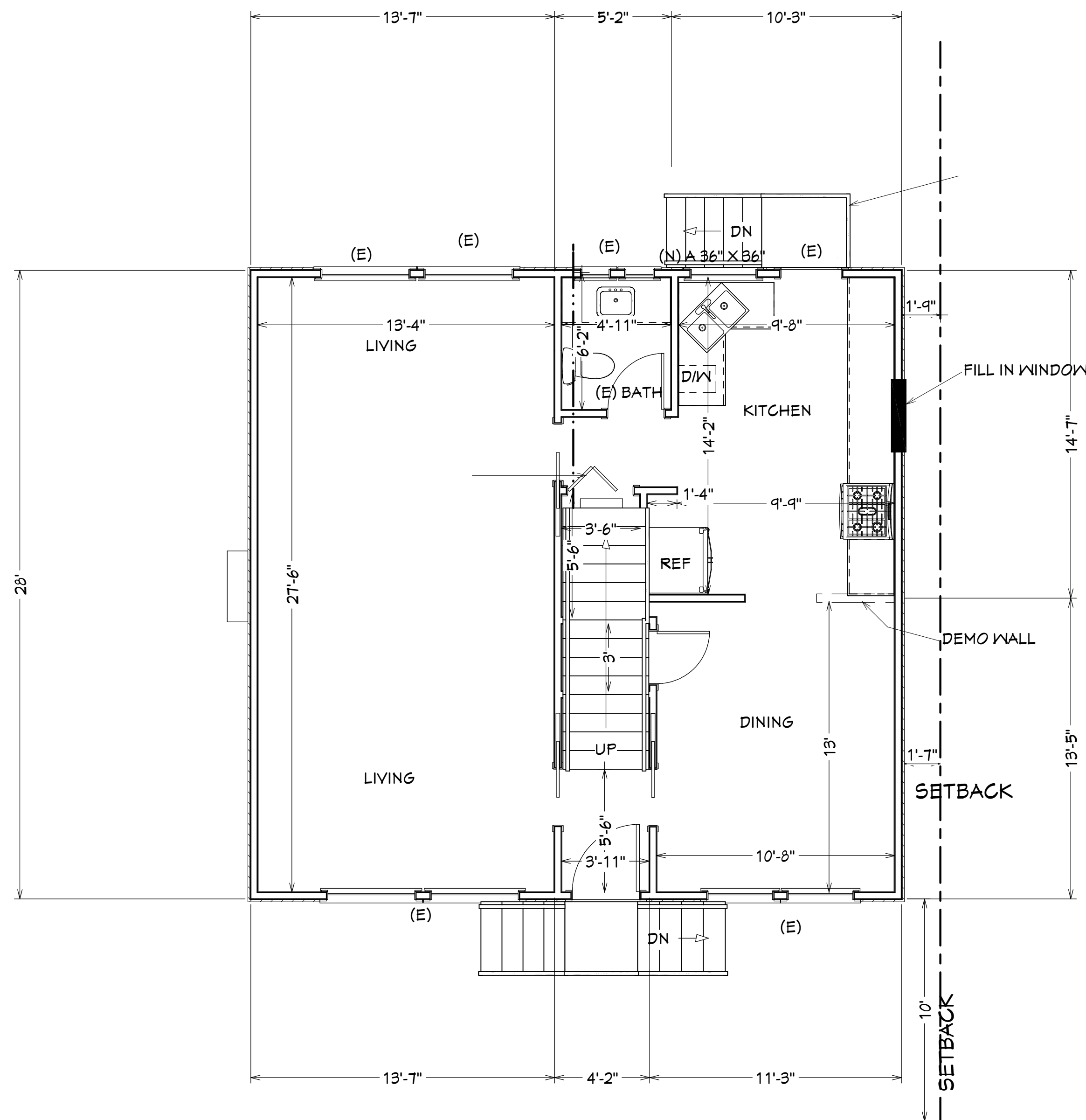
GLAZING NOTES

- 1 NFRC THERMAL PERFORMANCE LABELS SHALL REMAIN ON THE WINDOW AND / OR DOORS UNTIL FINAL INSPECTION
- NOTE: SIZE (W X H) OPERATION FRAME MATERIAL FINISH GLASS GLAZING
- 1 LOCATION OF EMERGENCY ESCAPES OPENINGS INDICATED ON PLANS VIA THE "EGRESS" LABEL ADJACENT TO THE WINDOW WHERE REQUIRED. MINIMUM NET CLEAR OPENING AREA SHALL BE 5.7 SQUARE FEET (OR 5.0 SQUARE FEET FOR GRADE FLOOR OPENINGS), OPENING HEIGHT SHALL BE 24 INCHES MINIMUM CLEAR AND OPENING WIDTH SHALL BE 20 INCHES MINIMUM CLEAR. MAXIMUM OPENING SILL HEIGHT SHALL BE 44 INCHES TO ACTUAL WINDOW OPENING. CRC R310.1

DOOR SCHEDULE

- NOTE: SIZE (W X H) OPERATION FRAME MATERIAL FINISH ENERGY EFFICIENCY
- BEDROOM EMERGENCY EGRESS
- EACH BEDROOM SHALL HAVE A DOOR DIRECTLY TO THE EXTERIOR OR A WINDOW THAT WILL PROVIDE A CLEAR SPACE OPENING OF AT LEAST 5.7 SQUARE FEET IN THE OPEN POSITION, AND A MINIMUM CLEAR OPENING WIDTH OF 20 INCHES AND CLEAR OPENING HEIGHT OF 24 INCHES AND A MAXIMUM SILL HEIGHT OF 44" ABOVE THE FLOOR. SLEEPING ROOMS AT GRADE FLOOR LEVEL MAY HAVE A CLEAR SPACE OPENING OF 5 SQ.FT.

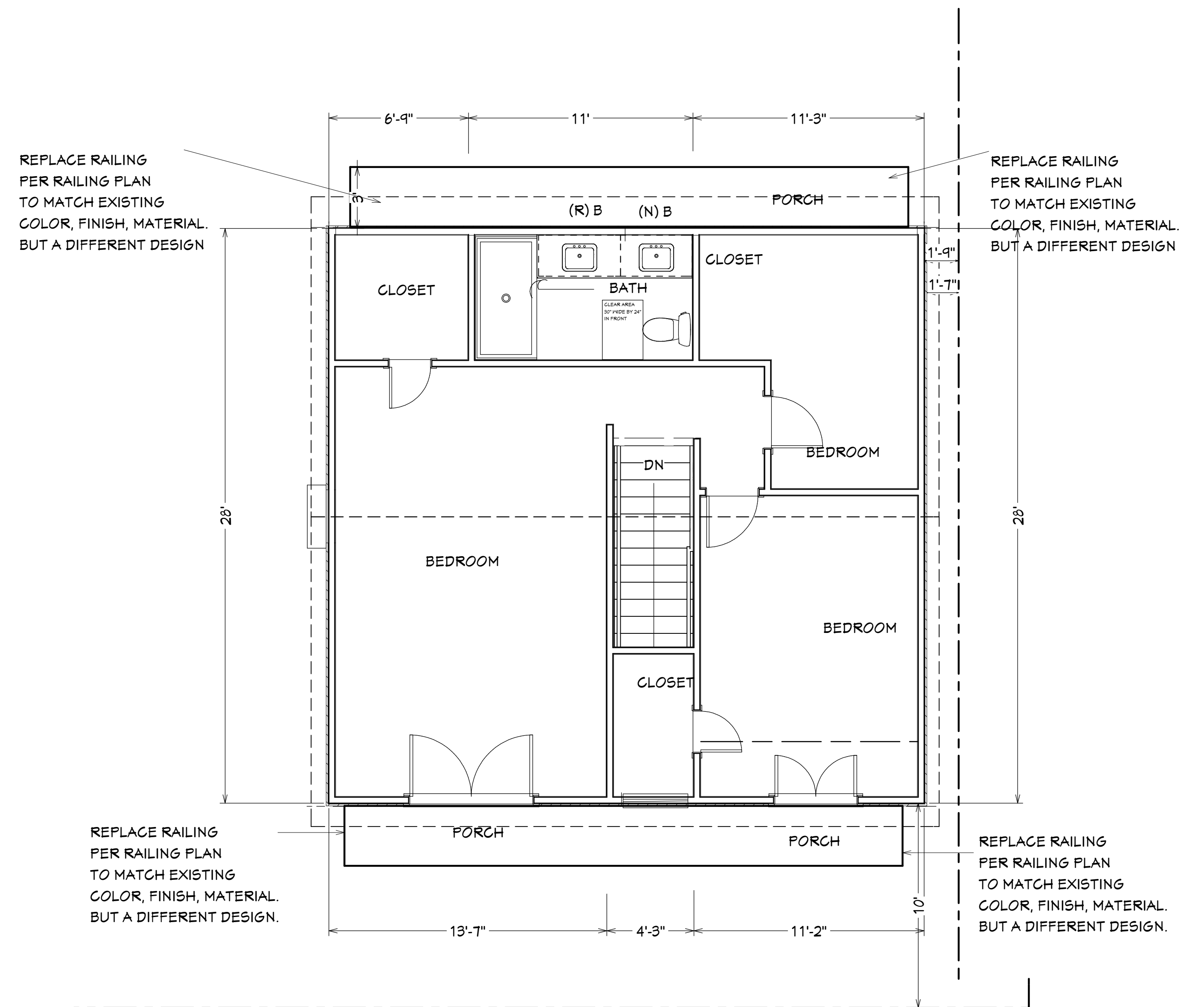
OPENING AT REQUIRED GUARDRAILS FOR STAIRWAY SHALL NOT ALLOW THE PASSAGE OF A SPHERE 4 INCHES IN DIAMETER. THE TRIANGULAR OPENING FORMED BY THE RISER, TREAD, AND BOTTOM ELEMENT OF A GUARDRAIL AT A STAIR SHALL NOT ALLOW THE PASSAGE OF SPHERE 6 INCHES IN DIAMETER. GUARDS ON THE OPEN SIDES OF THE STAIRS SHALL HAVE OPENING THAT WILL NOT ALLOW THE PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.



PROPOSED FIRST FLOOR PLAN

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

WINDOWS AND GAURDRAILS WILL MATCH EXISTING COLOR, FINISH AND MATERIAL



PROPOSED SECOND FLOOR PLAN

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

NO.	DESCRIPTION	BY	DATE

DESIGNER: ESTEBAN SOLIS
 VENTURA, CA. 93007
 805-636-8173
 BUILDINGPERMITCENTER@GMAIL.COM

PROPOSED FLOOR PLAN

OWNER: JANE KUHNLE
 102 NATOMA AVE #A (131 CHAPALA ST)
 SANTA BARBARA, CA. 93101

DATE:
03-15-2024

SCALE:

SHEET:

A-5

F8

NO.	DESCRIPTION	BY	DATE

DESIGNER: ESTEBAN SOLIS
 1311 CHAPALA ST
 VENTURA, CA 93007
 805-636-8173
 BUILDINGPERMITCENTER@GMAIL.COM

**ELEVATIONS
 NORTH - EAST**

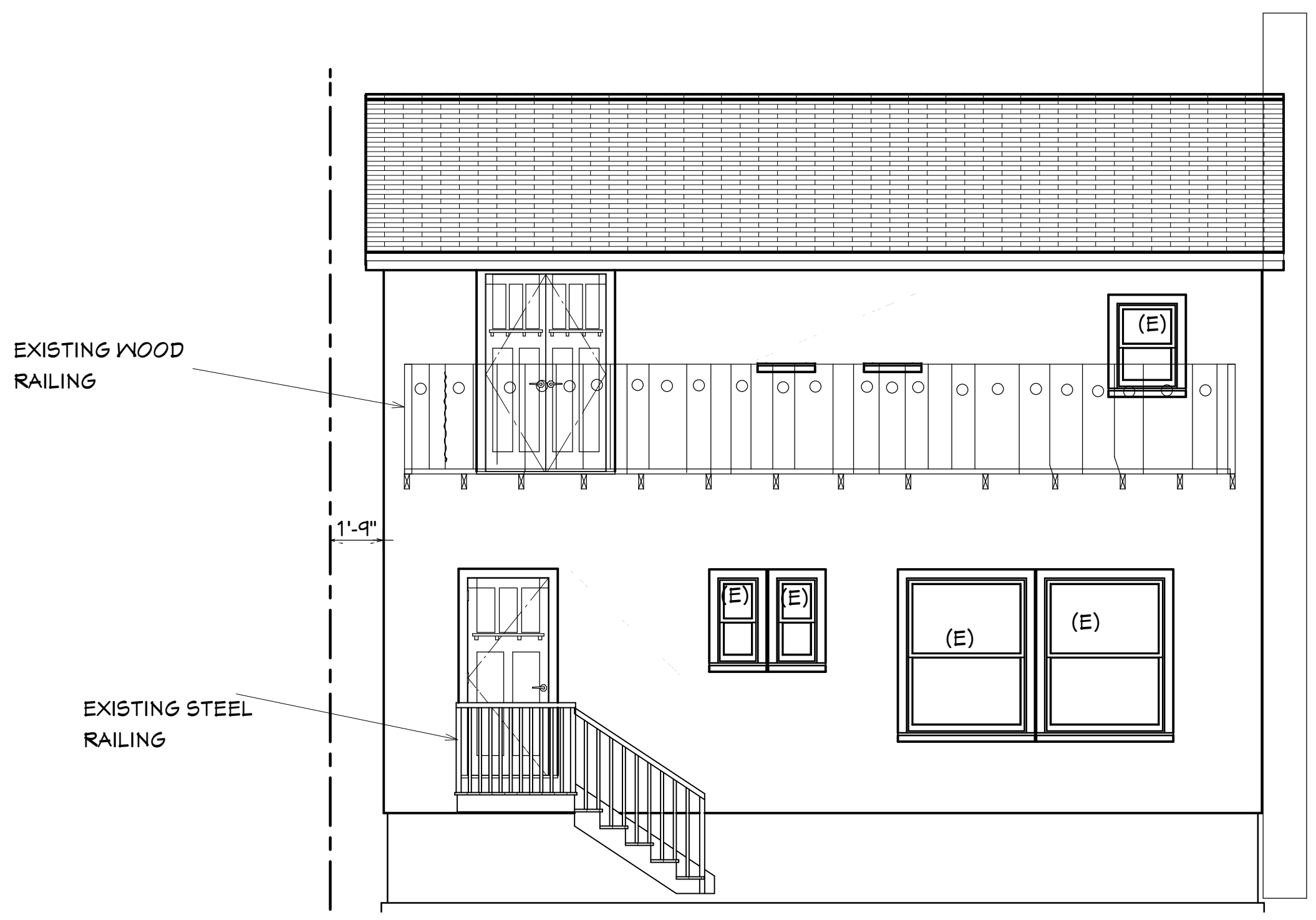
OWNER: JANE KUHNLE
 1311 CHAPALA ST
 SANTA BARBARA, CA 93101

DATE:
 04-15-2024

SCALE:

SHEET:

A-6

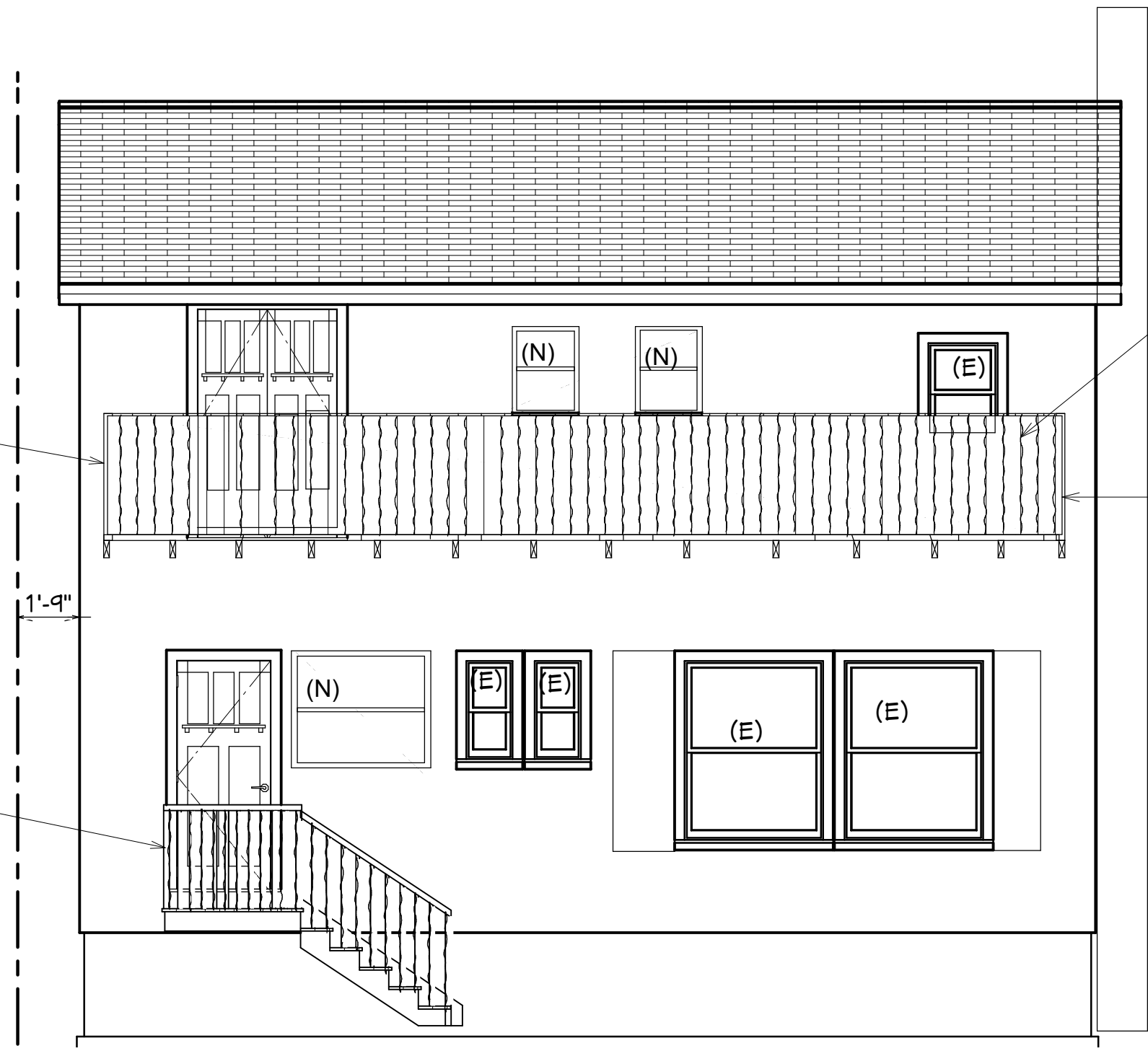


EXISTING NORTH ELEVATION

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

(P) TWISTED (SWIRLS) PICKETS RAILING
 COLOR (BLACK) AND MATERIALS
 (SOLID STEEL).

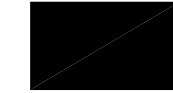
(P) TWISTED (SWIRLS) PICKETS RAILING
 COLOR (BLACK) AND MATERIALS
 (SOLID STEEL).



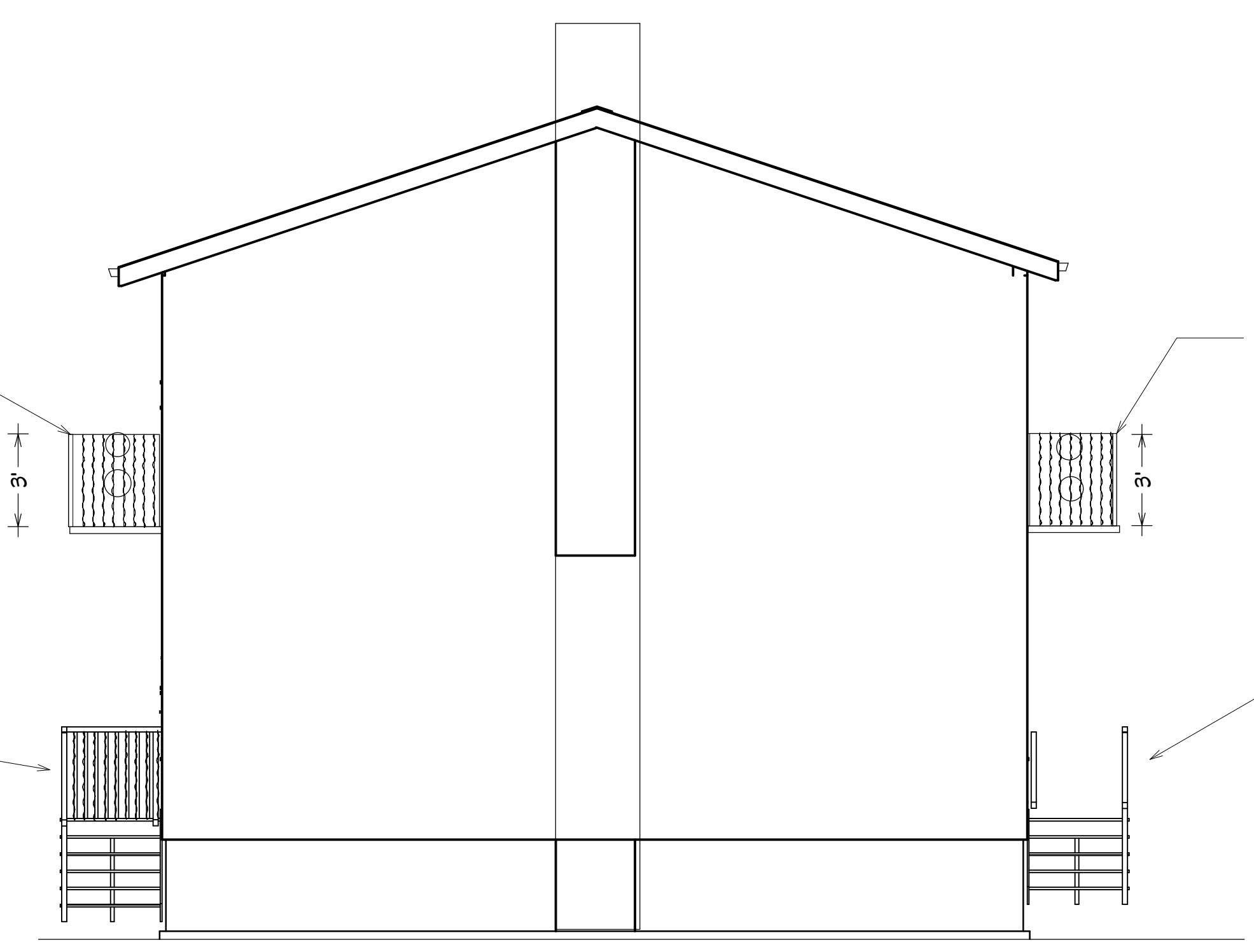
PROPOSED NORTH ELEVATION

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

**PROPOSED MATERIAL AND
 COLOR BOARD**

 (P) RAILING COLOR FINISH:
 BLACK
 BY: BENJAMIN MOORE

(P) RAILING MATERIAL:
 SOLID STEEL



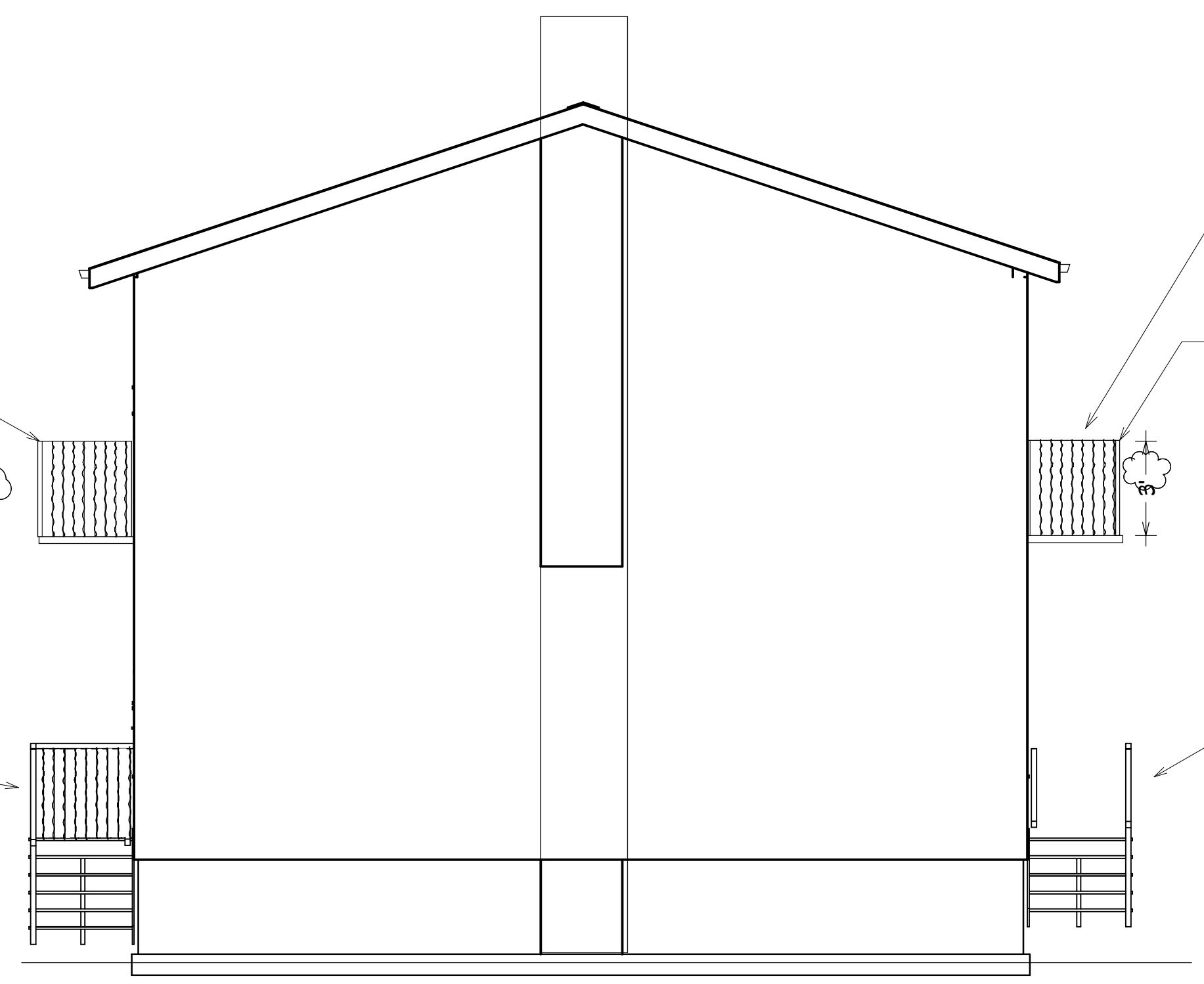
EXISTING EAST ELEVATION

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

(P) TWISTED (SWIRLS) PICKETS
 RAILING

(P) TWISTED (SWIRLS) PICKETS RAILING
 COLOR (BLACK) AND MATERIALS
 (SOLID STEEL).

(P) TWISTED (SWIRLS) PICKETS RAILING
 COLOR (BLACK) AND MATERIALS
 (SOLID STEEL).



PROPOSED EAST ELEVATION

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

(P) TWISTED (SWIRLS) PICKETS
 RAILING

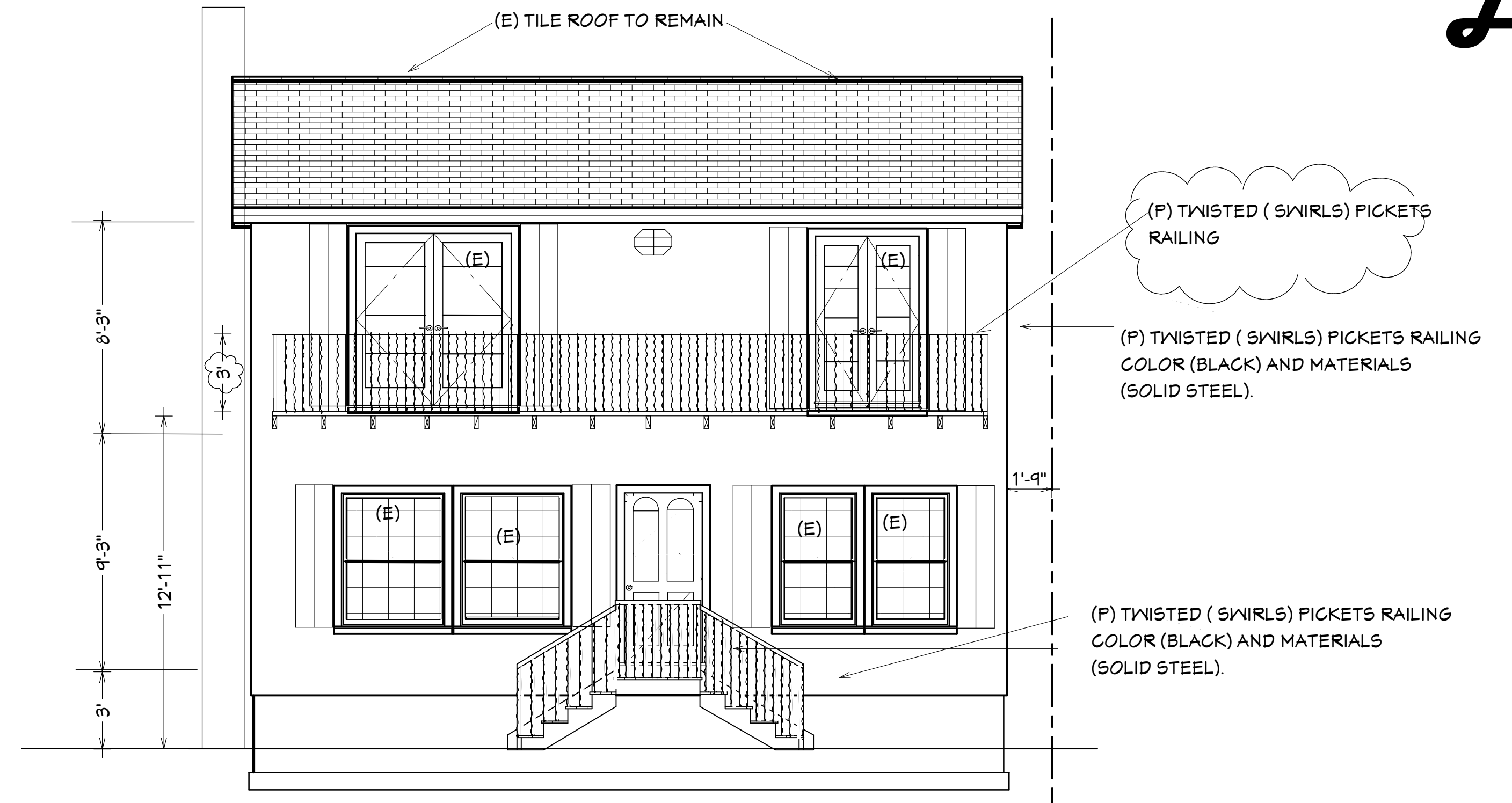
(P) TWISTED (SWIRLS) PICKETS RAILING
 COLOR (BLACK) AND MATERIALS
 (SOLID STEEL).

(P) TWISTED (SWIRLS) PICKETS RAILING
 COLOR (BLACK) AND MATERIALS
 (SOLID STEEL).



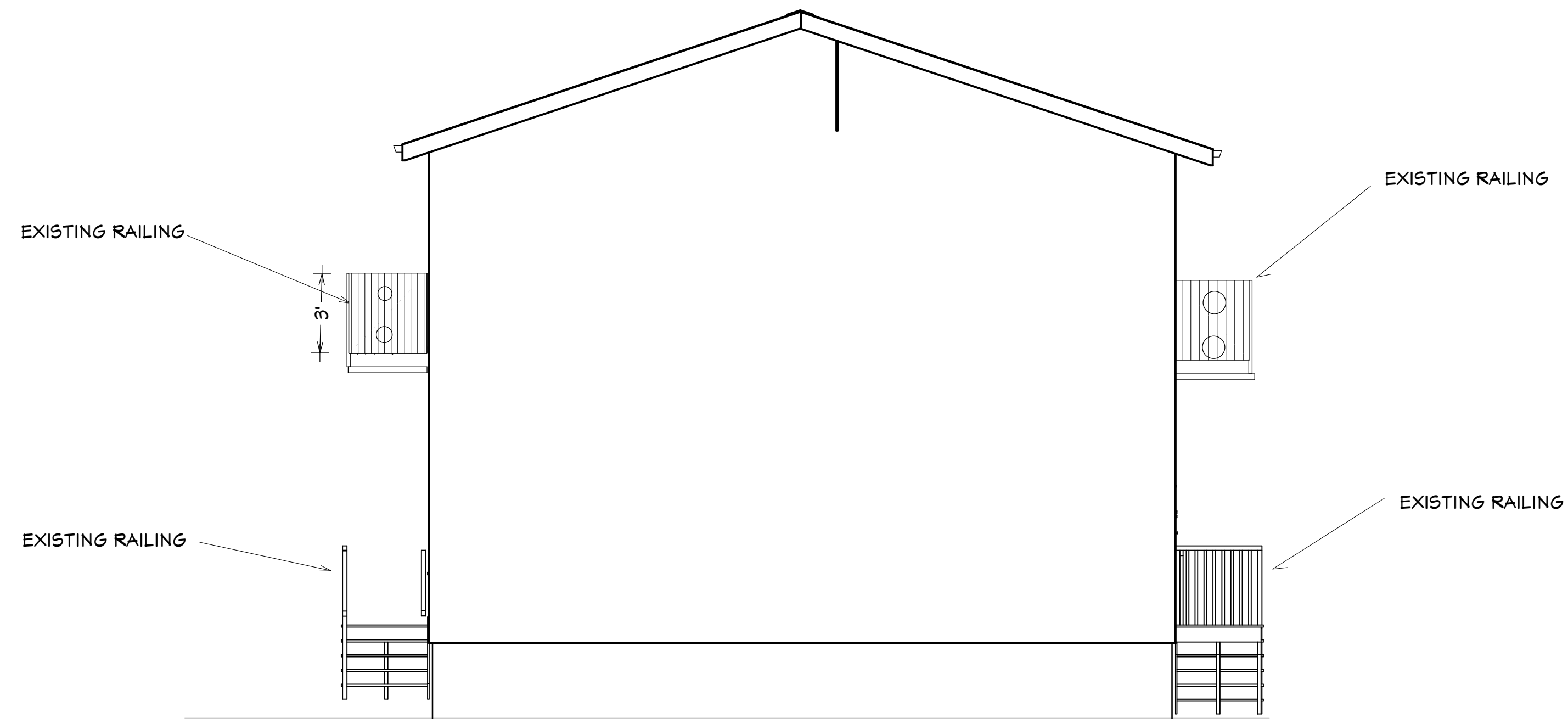
EXISTING SOUTH ELEVATION

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



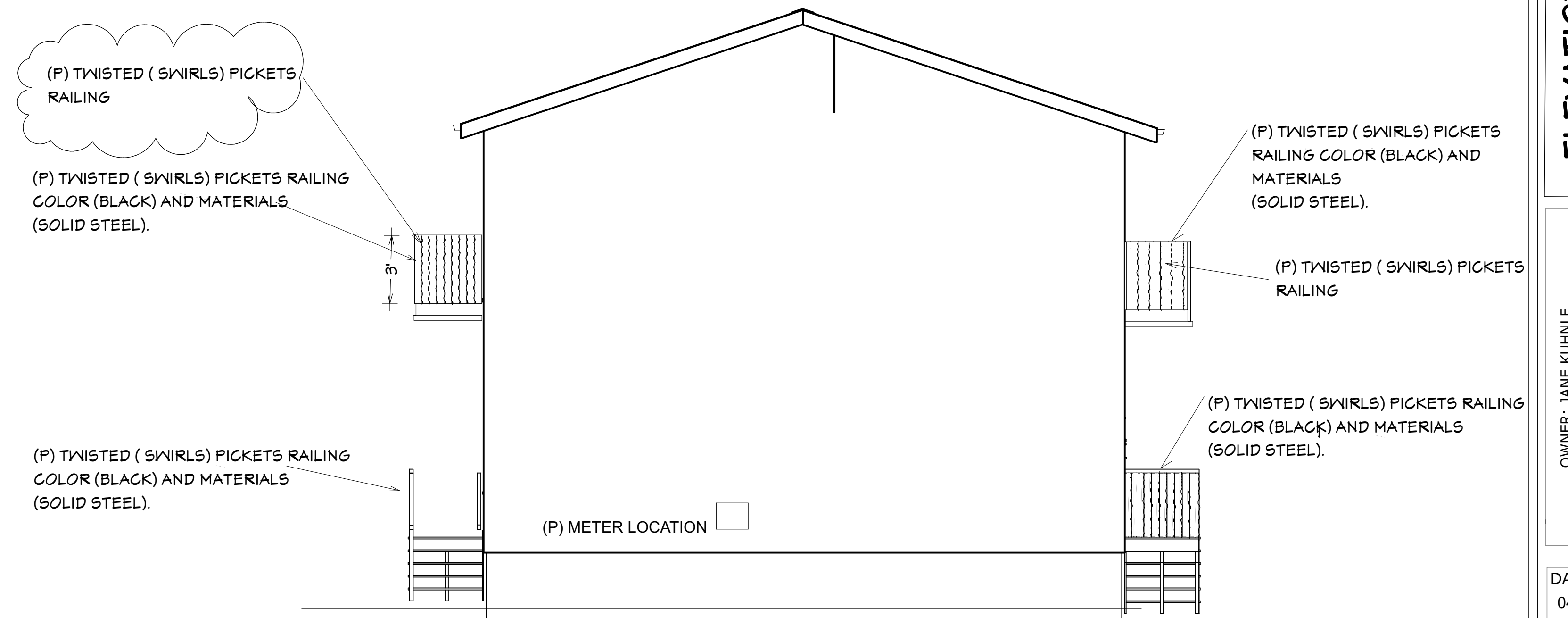
PROPOSED SOUTH ELEVATION

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



EXISTING WEST ELEVATION

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



PROPOSED WEST ELEVATION

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

NO.	DESCRIPTION	BY	DATE

DESIGNER: ESTEBAN SOLIS
 VENTURA, CA. 93007
 805-636-8173
 BUILDINGPERMITCENTER@GMAIL.COM

**ELEVATIONS
 SOUTH -WEST**

OWNER: JANE KUHNLE
 131 CHAPALA ST
 SANTA BARBARA, CA. 93101

DATE:
 04-15-2024

SCALE:

SHEET:

A. General

- Applicable codes. All projects will comply with the following building codes
 - 2022 California Building Code (CBC) and/or California Residential Code (CRC)
 - 2022 California Green Building Standards Code (CalGreen)
 - 2022 California Electrical Code (CEC)
 - 2022 California Mechanical Code (CMC)
 - 2022 California Plumbing Code (CPC)
 - 2022 California Fire Code (CFC)
 - 2022 California Building Energy Efficiency Standards (CBES)

B. Electrical, Plumbing, and Mechanical

- Exterior lighting.** All projects shall comply with lighting ordinance.
- GFCI outlets.** Ground Fault Circuit Interrupter (GFCI) outlets are required in bathrooms, at kitchen countertops, at laundry and wall sink basins, in garages, in crawlspaces, in unfinished basements, and outdoors. (CEC 210.8)
- AFCI outlets.** Electrical circuits in bedrooms, living rooms, dining rooms, dens, closets, hallways, or similar rooms must be protected by Arc Fault Circuit Interrupters (AFCI). (CEC 210.12)
- Luminaire requirements.** Installed luminaires shall meet the efficacy and fixture requirements of CBES 150.0(a).
- Smoke detectors in building remodels.** Smoke detectors are required in each existing sleeping room, outside each separate sleeping area in the immediate vicinity of sleeping rooms, and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R313.4)
- Carbon monoxide detectors in building remodels.** Carbon monoxide detectors are required outside each separate sleeping area in the immediate vicinity of sleeping rooms and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R313.5)
- Water heater seismic strapping.** Minimum two 3/4-inch-by-24-gauge straps required around water heaters, with 1/4-inch-by-3-inch lag bolts attached directly to framing. Straps shall be within upper third and lower third of water heater vertical dimension. Lower connection shall occur minimum 4 inches above controls. (CPC 507.2)
- Gas appliances in garages.** Water heaters and heating/cooling equipment capable of igniting flammable vapors shall be placed on minimum 18-inch-high platform unless listing requires proper provided showing ignitor-resistant appliance. (CPC 507.13 and CMC 305.1)
- Impact protection of appliances.** Water heaters and heating/cooling equipment subject to vehicular impact shall be protected by bollards or an equivalent measure. (CPC 507.13.1 and CMC 305.1.1)
- Water closet clearance.** Minimum 30-inch-wide by 24-inch-deep clearance required at front of water closets. (CPC 402.5)
- Shower size.** Shower compartments shall have minimum area of 1024 square inches and be able to enclose a 30-inch-diameter circle. Shower doors shall have a minimum 12-inch unobstructed width. (CPC 408.5 and CPC 408.6)
- Fireplace appliances.** Fireplaces with gas appliances are required to have the flue damper permanently fixed in the open position and fireplaces with LPG appliances are to have no "pil" or "pump" configurations. (CMC 303.7.1)
- Chimney clearances.** Minimum 2-foot chimney clearances required above building within 10-foot horizontally of chimney. The chimney shall extend minimum 3 feet above highest point where chimney passes through roof. (CRC R1003.9)

C. Mechanical Ventilation and Indoor Air Quality (ASHRAE 62.2-2010)

- Transfer air.** Ventilation air shall be provided directly from the outdoors and not as transfer air from adjacent dwelling units or other spaces, such as garages, unconditioned crawlspaces, or unconditioned attics. (CBES 150.0(a))
- Instructions and labeling.** Ventilation system controls shall be labeled, and the homeowner shall be provided with instructions on how to operate the system. (CBES 150.0(a))
- Combustion and solid-fuel burning appliances.** Combustion appliances shall be properly vented and air systems shall be designed to prevent back drafting. (CBES 150.0(a))
- Garages.** The wall and openings between occupiable spaces and the garage shall be sealed. HVAC systems that include air handlers or return ducts located in garages shall have total air leakage of no more than 5% of total air flow when measured at 0.1 in. w.c. using California Title 24 or equivalent. (CBES 150.0(a))
- Minimum filtration.** Mechanical systems supplying air to occupiable space through ductwork shall be provided with a filter having a minimum efficiency of MERV 6 or better. (CBES 150.0(a))
- Air inlets.** Air inlets (not exhausts) shall be located away from known contaminants. (CBES 150.0(a))
- Air moving equipment.** Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be listed in terms of airflow and sound. (CBES 150.0(a))
- All continuously operating fans shall be rated at a maximum of 1.0 sone.
- All intermittently operated whole-building ventilation fans shall be rated at a maximum of 1.0 sone.
- Intermittently operated local exhaust fans shall be rated at maximum of 3.0 sone.
- Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet sound requirements if at least 4 feet of ductwork between fan and intake grill.

D. Foundation and Underfloor

- Foundation reinforcement.** Continuous footings and stem walls shall be provided with a minimum two longitudinal No. 4 bars, one at the top and one at the bottom of the footing. (CRC R403.1.3)
- Shear wall foundation support.** Shear walls shall be supported by continuous foundations. (CRC 403.1.2)
- Concrete slabs-on-grade.** Slabs-on-grade shall be minimum 3-1/2-inches thick. (CRC R506.1)
- Vapor retarder.** A 10-mil polyethylene or approved vapor retarder with joints lapped minimum 6 inches shall be placed between a concrete slab-on-grade and the base course or subgrade. (CRC 506.2.3)
- Anchor bolts and sills.** Foundation plates or sills shall be bolted or anchored to the foundation or foundation wall per the following (CRC R403.1.6 and CRC R602.11.1):
 - Minimum 1/2-inch-diameter steel bolts
 - Bolts embedded at least 7 inches into concrete or masonry
 - Bolts spaced maximum 6 feet on center
 - Minimum two bolts per plate/sill plate with one bolt located maximum 12 inches and minimum 7 bolt diameters from each end of each sill plate/plate
 - Minimum 3-inch by 3-inch by 0.299-inch steel plate washer between sill and nut on each bolt
- Hold-downs.** All hold-downs must be tied in place prior to foundation inspection.
- Protection of wood against decay.** Naturally durable or preservative-treated wood shall be provided in the following locations (CRC R317.1):
 - All wood in contact with ground, embedded in concrete in direct contact with ground, or embedded in concrete exposed to weather
 - Wood joists within 18 inches and wood girders within 12 inches of the exposed ground in crawl spaces shall be of naturally durable or preservative-treated wood
 - Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches from exposed earth shall be of naturally durable or preservative-treated wood
- Wood framing, sheathing, and siding on the exterior of the building and having clearance less than 6 inches from the exposed ground or less than 2 inches vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surface exposed to ground
- Sills and sleepers on concrete or masonry slab in direct contact with ground unless separated from such slab by impervious moisture barrier
- Ends of wood joists entering masonry or concrete walls with clearances less than 12 inch on tops, sides, and ends
- Wood structural members supporting moisture-permeable floors or roofs exposed to weather, such as concrete or masonry slabs, unsupported from such floors or roofs by an impervious moisture barrier
- Wood framing strips or other wood framing members attached directly to interior of exterior concrete or masonry walls below grade except where vapor retarder applied between wall and framing strips or framing members
- Underfloor ventilation.** Underfloor areas shall have ventilation openings through foundation walls or exterior walls, with minimum net area of ventilation openings of 1 square foot for each 150 square feet of underfloor area. On such ventilating opening shall be within 3 feet of each corner of the building. (CRC R408.4)
- Underfloor access.** Underfloor areas shall be provided with a minimum 18-inch by 24-inch access opening. (CRC R408.4)

E. Wood Framing

- Fastener requirements.** The number, size, and spacing of fasteners connecting wood members/elements shall not be less than that set forth in CRC Table R602.3(1). (CRC R502.9, CRC R602.3, and CRC R602.2)
- Stud size, height, and spacing.** The size, height, and spacing of studs shall be in accordance with CRC Table R602.3(5). (CRC R602.3.1)

E. Wood Framing (Continued)

- Sill plate.** Studs shall have full bearing on nominal 2-inch thick or larger sill plate with a header and trimmer joists. When the header joint span does not exceed 4 feet, the header joint may be a single member the same size as the ceiling joist or rafter. Single trimmer joists may be lapped minimum 6 inches. The header joint located within 3 feet of the trimmer joist bearing. When the header joint span exceeds 4 feet, the trimmer joists and header joint shall be doubled and of sufficient cross section to support the ceiling joists or rafters framing into the header. Approved hangers shall be used for the header-to-trimmer-joint connections when the header joint span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R502.10)
- Roof framing above shear walls.** Rafter or roof trusses shall be connected to top plates of shear walls with blocking between the rafters or trusses. (CRC R602.10.8)
- Roof diaphragm under fill framing.** Roof plywood shall be continuous under California fill (R602.6.4)
- Roof diaphragm at ridges.** Minimum 2-inch nominal blocking required for roof diaphragm nailing at ridges. (CRC R602.3)
- Blocking of roof trusses.** Minimum 2-inch nominal blocking required between trusses at ridge lines and at points of bearing at exterior walls.
- Truss clearance.** Minimum 1/2-inch clearance required between top plates of interior non-bearing partitions and bottom chords of trusses.
- Drilling, cutting, and notching of roof/rafter framing.** Notches in solid lumber joists, rafters, blocking, and beams shall not exceed one-sixth the member depth, shall be no longer than one-third the member depth, and shall not be located in the middle one-third of the span. Notches at member ends shall not exceed one-fourth the member depth. The tension side of members 4 inches or greater in depth shall not be notched except at member ends. The diameter of holes bored or cut into members shall not exceed one-third the member depth. Holes shall not be closer than 2 inches to the top or bottom of the member or to any other hole located in the member. Where the member is also notched, the hole shall not be closer than 2 inches to the notch. (CRC R602.8)
- Exterior landings, decks, balconies, and stairs.** Such elements shall be positively anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-supporting. Attachment shall not be accomplished by use of toenails or nails subject to withdrawal. (CRC R302.10.3)
- Fireblocking.** Fireblocking shall be provided in the following locations (CRC R302.11 and CRC R1003.19):
 - In concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of studs or staggered studs, as follows:
 - Vertically at the ceiling and floor levels
 - Horizontally at intervals not exceeding 10 feet
 - At all intersections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings, and cover ceilings
 - In concealed spaces between stair stringers at the top and bottom of the run
 - At openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with an approved material to resist the fire passage of flame and products of combustion
 - At chimneys and fireplaces per Item E.49
 - Cornices of a two-family dwelling at the line of dwelling-unit separation
- Fireblocking materials.** Except as otherwise specified in Items E.48 and E.49, fireblocking shall consist of the following materials with the integrity maintained (CRC R302.11.1):
 - Two-inch nominal lumber
 - Two thicknesses of one-inch nominal lumber with broken lap joints
 - One thickness of 2x3/2-inch wood structural panel with joints backed by 2x3/2-inch wood structural panel
 - One thickness of 2x4-inch particleboard with joints backed by 2x4-inch particleboard
 - 1/2-inch gypsum board
 - 1/4-inch cement-based millboard
 - Batts or blankets of mineral or glass fiber of other approved materials installed in such a manner as to be securely retained in place. Batts or blankets of mineral or glass fiber or other approved non-rigid materials shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs. Unfaced fiberglass batt insulation used as fireblocking shall fill the entire cross-section of the wall cavity to a minimum height of 16 inches measured vertically. When piping, conduit, or similar obstructions are encountered, the insulation shall be packed tightly around the obstruction. Loose-fill insulation materials shall not be used as a fireblock unless specifically tested in the form and manner intended for use to demonstrate its ability to remain in place and to retard the spread of fire and hot gases.
 - Fireblocking at openings around vents, pipes, ducts, cables, and wires at ceiling and floor level.** Such openings shall be fireblocked with an approved material to resist the fire passage of flame and products of combustion. (CRC R302.11.2)
 - Fireblocking of chimneys and fireplaces.** All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely fastened in place. The fireblocking of spaces between chimneys and wood joists shall be of the same material as the fireblocking used to fireblock in the form and manner laid across the spaces between combustible material and the chimney. (CRC R1003.19)
 - Draftstopping.** In combustible construction where there is usable space both above and below the concealed space of a flooring/ceiling assembly, draftstopps shall be installed so that the area of the concealed space does not exceed 1000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances (CRC R302.12):
 - Ceiling is suspended under the floor framing
 - Floor framing is constructed of truss-type open-web or perforated members
 - Draftstopping materials.** Draftstopping shall not be less than 1/2-inch gypsum board, 3/8-inch wood structural panels, or other approved materials adequately supported. Draftstopping shall be installed parallel to the floor framing members unless otherwise approved by the building official. The integrity of draftstopps shall be maintained. (CRC R302.12.1)
 - Combustible insulation clearance.** Combustible insulation shall be separated minimum 3 inches from recessed luminaires, fan motors, and other heat-producing devices. (CRC R302.14)

F. General Material Specifications

- Lumber.** All joists, rafters, beams, and posts 2-inches to 4-inches thick shall be No. 2 grade Douglas Fir-Larch or better. All posts and beams 5 inches and thicker shall be No. 1 grade Douglas Fir-Larch or better. Studs not more than 8 feet long shall be stud-grade Douglas Fir-Larch or better when supporting not more than one floor, roof, and ceiling. Studs longer than 8 feet shall be No. 2 grade Douglas Fir-Larch or better.
- Concrete.** Concrete shall have a minimum compressive strength of 2,500 psi at 28 days and shall consist of 1 part cement, 2 parts sand, and 3 parts gravel. Grout shall attain a minimum compressive strength of 2,000 psi at 28 days. (CBC 2103.2)
- Mortar.** Mortar used in construction of masonry walls, foundation walls, and retaining walls shall conform to ASTM C 270 and shall consist of 1 part portland cement, 2-1/4 to 3 parts sand, and 1/4 to 1/2 part hydrated lime. (CBC 2103.2)
- Grout.** Grout shall conform to ASTM C 476 and shall consist of 1 part portland cement, 1/10 part hydrated lime, 2-1/4 to 3 parts sand, and 1 to 2 parts gravel. Grout shall attain a minimum compressive strength of 2,000 psi at 28 days. (CBC 2103.3)
- Masonry.** Masonry units shall comply with ASTM C 90 for load-bearing concrete masonry units. (CBC 2103.1)
- Reinforcing steel.** Reinforcing steel used in construction of reinforced masonry or concrete structures shall be deformed and comply with ASTM A 615. (CBC 2103.4)
- Structural steel.** Steel used as structural shapes such as wide-flange sections, channels, plates, and angles shall comply with ASTM A 36. Pipe columns shall comply with ASTM A363. Structural tubes shall comply with ASTM A500, Grade B.
- Fasteners for preservative-treated wood.** Fasteners for preservative-treated and fire-retardant-treated wood - including nuts and washers - shall be of hot dipped zinc-coated galvanized steel, stainless steel, or copper. (CRC R317.1.4)
- Exception:** 1/2-inch diameter or greater steel bolts.
 - Exception: Fasteners other than nails and timber rivets may be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum
 - Exception: Plain carbon steel fasteners acceptable in SBK/DOOT and zinc borate preservative-treated wood in an interior, dry environment
- Fasteners for fire-retardant-treated wood.** Fasteners for fire-retardant-treated wood used in exterior applications or wet areas shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.3)

G. Roofing and Weatherproofing

- Roof covering.** All roof covering shall be installed per applicable requirements of CBC 1507. Roof coverings shall be at least Class A rated in accordance with ASTM E 108 or UL 790. (County Building Code 92.1.1505.1)
- Roof flashing.** Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction, at eaves and roof openings. Where flashing is of metal, the metal shall be corrosion-resistant with a thickness of not less than 0.019 inch (No. 26 galvanized sheet). (CRC R903.2)
- Crickets and saddles.** A cricket or saddle shall be installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope. Cricket or saddle covering shall be sheet metal or the same material as the roof covering. (CRC R903.2.2)

G. Roofing and Weatherproofing (Continued)

- Water-resistive barrier.** A minimum of one layer of No. 15 asphalt felt shall be attached to studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer minimum 2 inches. Where joints occur, felt shall be lapped minimum 6 inches. The felt shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to maintain a water-resistive exterior wall envelope. (CRC R703.2)
- Wall flashing.** Approved corrosion-resistant flashing shall be applied shingle fashion at the following locations to prevent entry of water into the wall cavity or penetration of water to the building structural framing components (CRC R703.8):
 - Exterior door and window openings, extending to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage
 - At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings
 - Under and at the ends of masonry, wood, or metal copings and sills
 - Continuously above all projecting wood trim
 - Where exterior porches, decks, or stairs attach to a wall or floor assembly of wood-frame construction
- At wall and roof intersections**
- At built-in gutters**
- Damp proofing.** Damp proofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall and shall extend from the top of the footing to finished grade. (CRC R406.1)
- Weep screed.** A minimum 0.019-inch (No. 26 galvanized sheet) paper, corrosion-resistant weep screed or plastic weep screed with a minimum vertical attachment flange of 3-1/2 inches shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 52. The weep screed shall be placed a minimum 4 inches above the earth or 2 inches above paved areas and shall be of a type allowing trapped water to drain to the exterior of the building. (CRC R703.7.2.1)

H. Grading and Soils

- Grading permit.** Grading permit required if volume of earth moved exceeds 200 cubic yards or if any cut or fills exceed 6 feet in height/depth.
- Compaction report.** Compaction report required for fill material 12 inches or more in depth. (CBC R803.5.8)

I. Green Building Standards Code (CALGreen) Requirements

- Applicability.** CalGreen residential mandatory measures shall apply to every newly constructed building or structure and with an addition or alteration increasing a building's conditioned area, volume, or size. (CalGreen 101.3, CalGreen 301.1.1)
- Exception:** All residential buildings undergoing permitted alterations, additions, or improvements shall comply with the non-compliant plumbing fixtures with water-conserving plumbing fixtures per CalGreen 301.1.1 and CalGreen 4.303.1
- Water conserving plumbing fixtures and fittings.** Plumbing fixtures and fittings shall comply with the following per CalGreen 4.303.1:
 - Water closets: Maximum 1.2 gallons per flush
 - Urinals: Maximum 0.5 gallons per flush
 - Single showerheads: Maximum flow rate of 1.8 gallons per minute at 80 psi
 - Multiple showerheads serving one shower: Maximum combined flow rate of 1.8 gallons per minute at 80 psi
 - Lavatory faucets: Maximum flow rate of 1.2 gallons per minute at 60 psi, minimum flow rate of 0.8 gallons per minute at 20 psi
 - Kitchen faucets: Maximum flow rate of 1.5 gallons per minute at 60 psi (County Green Building Code 97.1.4.303.1.4.4)
- Appliances:** At least one qualified ENERGY STAR dishwasher or clothes washer shall be installed in each dwelling unit. (County Green Building Code 97.1.4.303.3)

J. Outdoor potable water uses in landscape area.

- Residential developments shall comply with local water efficient landscaping ordinance or the current California Department of Water Resources Model Water Efficient Landscaping Ordinance (MVELO), whichever is more stringent. (CalGreen 4.304.1)

K. Joints and openings.

- Openings in the building envelope separating conditioned space from unconditioned space needed to accommodate utility and other penetrations must be sealed in compliance with the California Energy Code. (CalGreen 4.406.1)
- Exception:** Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such opening with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

L. Construction waste reduction, disposal, and recycling.

- Recycle and/or salvage for reuse a minimum of 65 percent of the materials removed during construction and demolition works with either Section 4.408.2, 4.408.3, or 4.408.4, or a meeting a more stringent local construction and demolition waste management ordinance. (CalGreen 4.408.1)
- Exception:** Excavated soil and land-clearing debris.
- Exception:** 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.
- Construction & Demolition (CAD)**

M. 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.

- Construction waste management plan.** A construction waste management plan in conformance with Items 1-5 shall be completed and available on the job site. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency. (CalGreen 4.408.2)
- 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).**
- Identify diversion facilities where the construction and demolition waste materials 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 by weight, not volume, and that not less than 4 parts 1-inch maximum size rock, and not more than 7-1/2 gallons of water per sack of cement. (CRC R402.2)**
- Waste management company.** Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1. (CalGreen 4.408.3)
- Note:** The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste company.
- Waste stream reduction alternative [LRS].** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 pounds per square foot of the building area shall meet the 65 percent construction waste reduction requirement in Section 4.408.1. (CalGreen 4.408.4)
- 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 65 percent construction waste reduction requirement in Section 4.408.1.

N. Documentation.

- Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, 4.408.3, 4.408.4 or Section 4.408.1.

O. Operation and maintenance manual.

- Prior to final inspection, a manual, compact disc, web-based reference, or other acceptable media which includes all of the following shall be placed in the building (CalGreen 4.440.1):
- Directions to owner or occupant that manual shall remain with the building throughout the life cycle of the structure.
 - Operation and maintenance instructions for the following:
 - Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, water-heating systems and other major appliances and equipment.
 - Roofer and yard drainage, including gutters and downspouts.
 - Space conditioning systems, including condensers and air filters.
 - Landscape irrigation systems.
 - Water reuse systems.
 - Information from local utility, water, and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
 - Public transportation and/or carpool options available in the area.

P. 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 at that range.

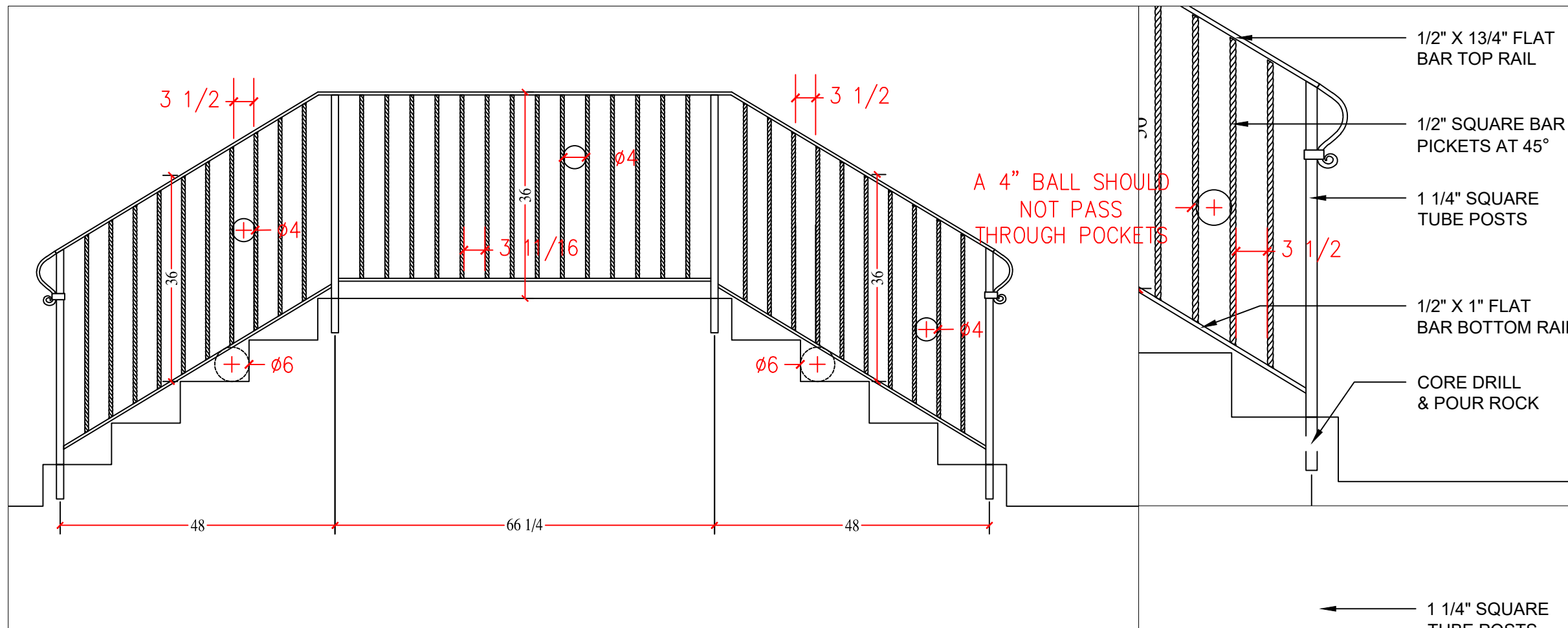
- Information about water-conserving landscape and irrigation design and controllers which conserve water.**
- Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.**

I. (CALGreen) Requirements (Continued)

- Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.**
- Information about state solar energy and incentive programs available.**
- A copy of all special inspection verifications required by the enforcing agency or code.**
- Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.**
- Information and/or drawings identifying the location of grab bar reinforcements.**
- Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation or during storage on the construction site and until startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, Sheathmetal or air methods acceptable to the enforcing agency, to reduce the amount of dust or debris which may collect in the system. (CalGreen 4.504.1)
- Carpet systems.** All carpet installed in the building interior shall meet the testing and product requirements of one of the following (CalGreen 4.504.3):
 - Carpet and Rug Institute's Green Label Plus Program (all carpet cushions must meet the requirements of this program)
 - California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350)
 - NSF/ANSI 140 to the Gold level.
 - Scientific Certifications Systems Indoor Advantage™ Gold.
- Resilient flooring systems.** At least 80 percent of the floor area receiving resilient flooring shall comply with one or more of the following (CalGreen 4.504.4):
 - VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database
 - Products compliant with CHPS criteria certified under the GreenGuard Children & Schools program
 - Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program
 - Meet the currently adopted version of California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," (also known as Specification 01350)
- Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 COR 93120 et seq.) by or before the dates specified in those sections, as shown in CalGreen Table 4.504.5. The following limits are in parts per million (CalGreen 4.504.5):
 - Hardwood plywood veneer core: 0.05
 - Hardwood plywood composite core: 0.05
 - Particle board: 0.09
 - Medium-density fiberboard (MDF): 0.11
 - Thin MDF (5/16 inch or less): 0.13
- Moisture content of building materials.** Building materials with visible signs of water damage 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 (CalGreen 4.505.3):
 - Moisture content shall be determined with either a probe-type or contact-type moisture meter.
 - Moisture readings shall be taken at a point 2 feet to 4 feet from the grade stamped end of each piece to be verified.
 - At least three random moisture readings shall be performed on wall and floor framing with documentation 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 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 manufacturer's drying recommendations prior to enclosure.
- Bathrooms with a bathtub and/or shower** shall be mechanically ventilated per the following (CalGreen 4.506.1):
 - Fans shall be ENERGY STAR compliant and ducted to terminate outside building
 - Unless functioning as a component of a whole-house ventilation system, fans shall have humidity controls capable of adjustment - manually or automatically - between a relative humidity range of 50% to 80%.
- Heating and air-conditioning system design.** Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods (CalGreen 4.507.2):
 - The heat loss and heat gain are established according to the currently adopted version of ANSI/ACCA 2 Manual J, ASHRAE handbooks, or other equivalent design software or methods.
 - Duct systems are sized according to the currently adopted version of ANSI/ACCA 1 Manual D, ASHRAE handbooks, or other equivalent design software or methods.
 - Select heating and cooling equipment according to the currently adopted version of ACCA 36-S Manual S or other equivalent design software or methods.

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

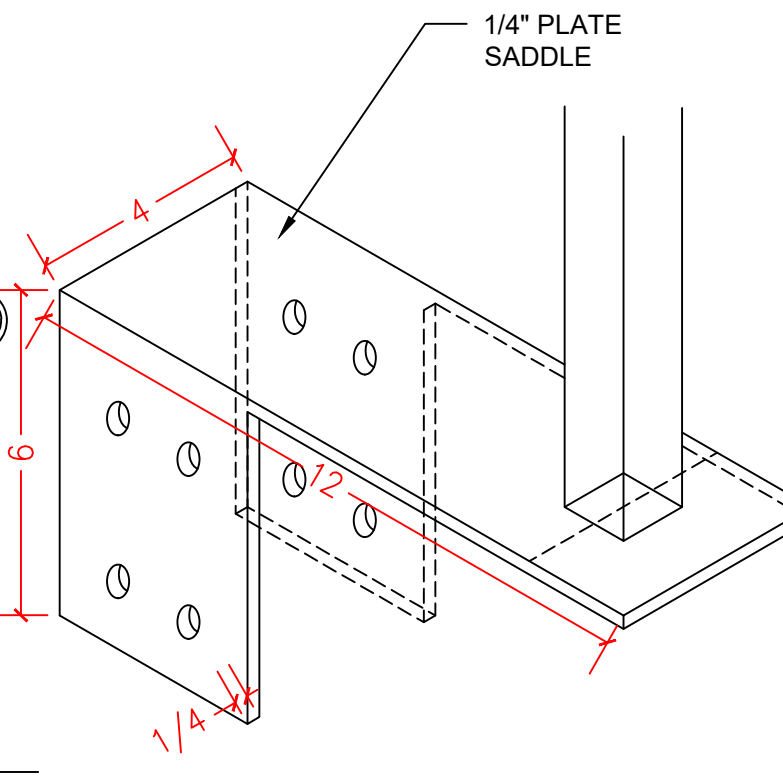
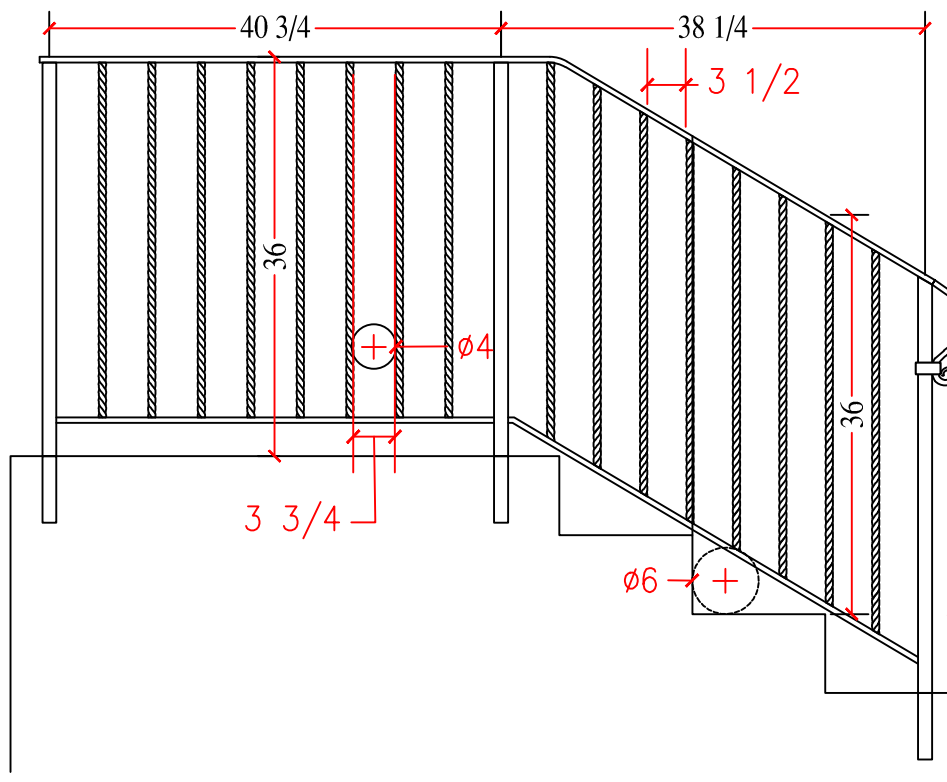
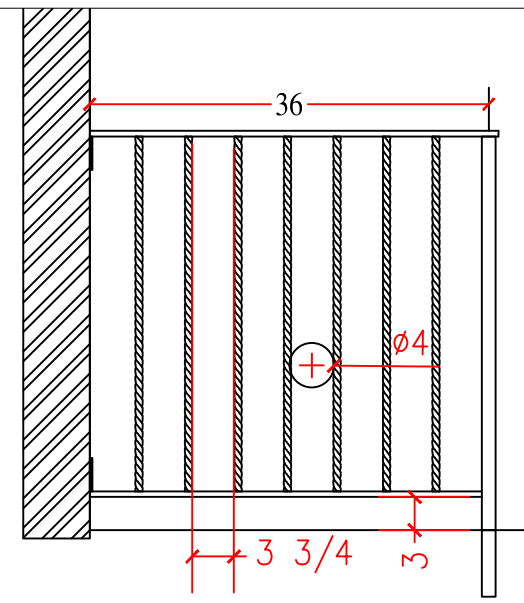
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS**		SPACING AND LOCATION
		WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING	WOOD STRUCTURAL GRADE EXTERIOR WALL SHEATHING TO FRAMING	
Roof				
1	Blocking between ceiling joists, rafters or trusses	4-80 cpm (2 1/2" x 6.131")	4-80 cpm (2 1/2" x 6.131")	Toe nail
	Top plate or other framing below	3-3" x 0.131 nails	3-3" x 0.131 nails	
	Blocking between rafters or truss not at the wall	1-80 cpm (2 1/2" x 6.131") or 2-3" x 0.131 nails	1-80 cpm (2 1/2" x 6.131") or 2-3" x 0.131 nails	Each end toe nail
2	Blocking between joists or truss	1-80 cpm (2 1/2" x 6.131") or 2-3" x 0.131 nails	1-80 cpm (2 1/2" x 6.131") or 2-3" x 0.131 nails	End nail
	Flat blocking to truss and web filler	1-80 cpm (2 1/2" x 6.131") or 2-3" x 0.131 nails	1-80 cpm (2 1/2" x 6.131") or 2-3" x 0.131 nails	End nail
	Ceiling joists to top plate	4-80 cpm (2 1/2" x 6.131") or 1-80 cpm (2 1/2" x 6.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	4-80 cpm (2 1/2" x 6.131") or 1-80 cpm (2 1/2" x 6.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	Per joist, toe nail
3	Ceiling joist not attached to parallel rafter; size per portions (see Section 602.3.1)	4-80 cpm (2 1/2" x 6.131") or 1-80 cpm (2 1/2" x 6.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	4-80 cpm (2 1/2" x 6.131") or 1-80 cpm (2 1/2" x 6.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	Face nail
	Ceiling joist attached to parallel rafter (see part of Section 602.3.1)	1-80 cpm (2 1/2" x 6.131")	1-80 cpm (2 1/2" x 6.131")	Face nail
4	Collar tie to rafter, face nail	3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	Face nail each rafter
	Rafter or truss to top plate	3-104 cpm (3" x 0.128") or 1-104 cpm (1 1/4" x 0.131") or 2-3" x 0.131 nails	3-104 cpm (3" x 0.128") or 1-104 cpm (1 1/4" x 0.131") or 2-3" x 0.131 nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss
7	Rafter nails to ridge, 2" side board	4-104 cpm (1 1/4" x 0.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	4-104 cpm (1 1/4" x 0.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	Toe nail
	End of rafter	4-104 cpm (1 1/4" x 0.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	4-104 cpm (1 1/4" x 0.131") or 3-104 cpm (3" x 0.128") or 2-3" x 0.131 nails	



- 1/2" X 1 3/4" FLAT BAR TOP RAIL
- 1/2" SQUARE BAR PICKETS AT 45°
- 1 1/4" SQUARE TUBE POSTS
- 1/2" X 1" FLAT BAR BOTTOM RAIL
- CORE DRILL & POUR ROCK

A 4" BALL SHOULD NOT PASS THROUGH POCKETS

← 1 1/4" SQUARE TUBE POSTS



131 CHAPALA STREET
SANTA BARBARA, CA. 93111

RODGER PYLE

REV: 3

Finish: METALIZED & PRIME

Engineer's Review, as Req'd:

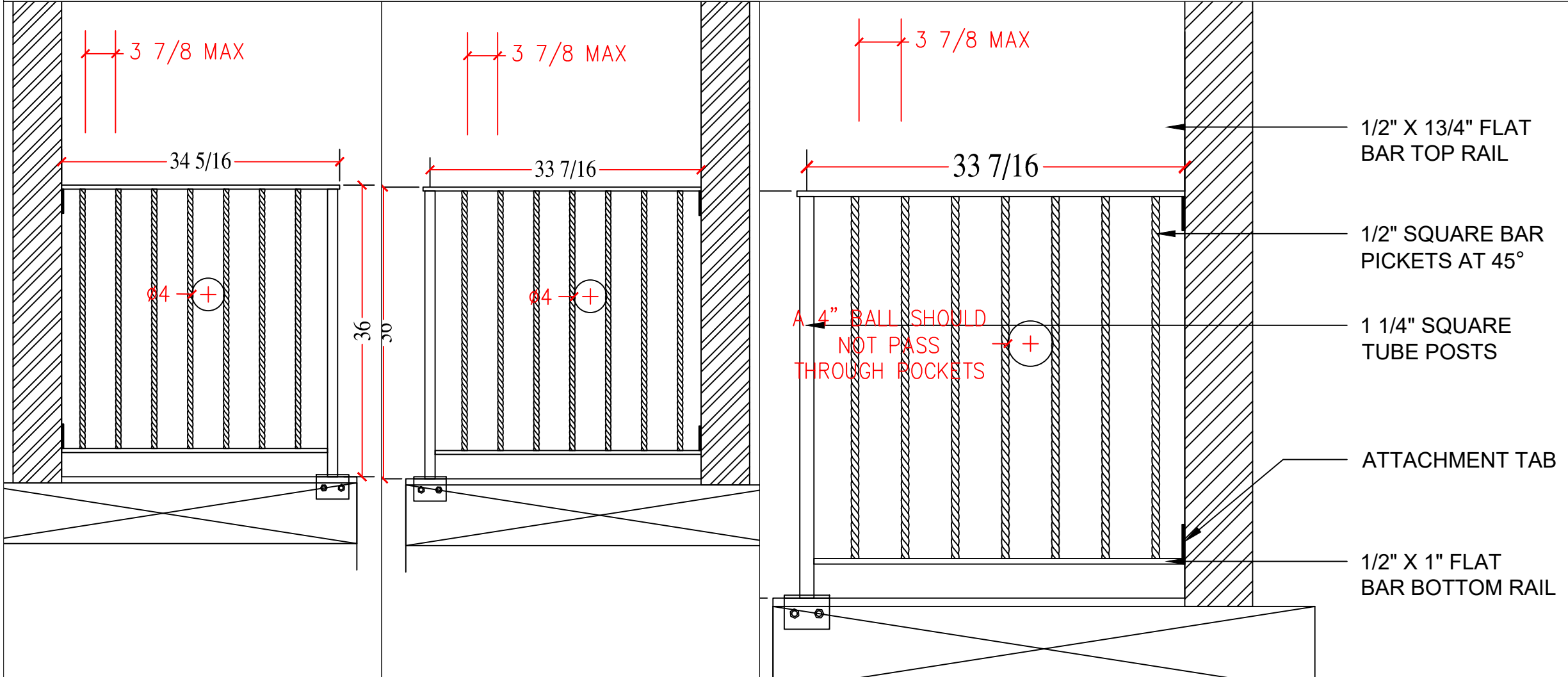
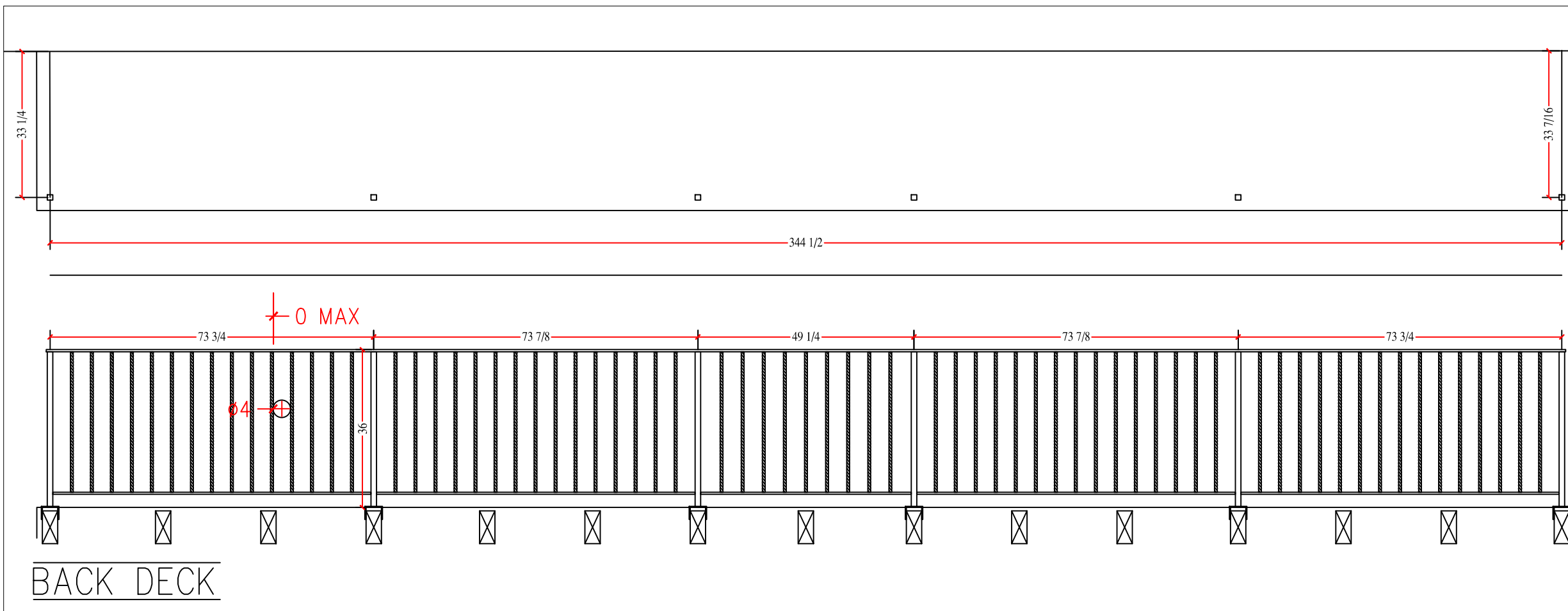
Architect's Review, as Req'd:

DRAWN BY: FJP CHKD BY: PD
DATE: 07/21/2023 JOB#: 24171

Chapala Iron and Manufacturing Co. Inc.
1301 Callens Rd
Ventura, CA 93003
(T)805.654.9803 (F)805.658.8925
CA LICENSE #795420

C1 Scope of Work & Plan

Do Not Copy. All rights reserved by Chapala Iron & Manufacturing Company Inc.



131 CHAPALA STREET
SANTA BARBARA, CA. 93111

RODGER PYLE

REV: 1

Finish: METALIZED & PRIME

Engineer's Review, as Req'd:

Architect's Review, as Req'd:

DRAWN BY: FJP CHKD BY: PD
DATE: 07/21/2023 JOB#: 24171

Chapala Iron and Manufacturing Co.
Inc.
1301 Callens Rd
Ventura, CA
93003
(T)805.654.9803 (F)805.658.8925
CA LICENSE #795420

C2 Scope of
Work & Plan

Do Not Copy. All rights reserved by Chapala Iron & Manufacturing Company Inc.



131 CHAPALA STREET
SANTA BARBARA, CA. 93111

RODGER PYLE

REV: 1

Finish: METALIZED & PRIME

Engineer's Review, as Req'd:

Architect's Review, as Req'd:

DRAWN BY: FJP CHKD BY: PD
DATE: 07/21/2023 JOB#: 24171

Chapala Iron and Manufacturing Co.
Inc.
1301 Callens Rd
Ventura, CA
93003
(T)805.654.9803 (F)805.658.8925
CA LICENSE #795420

C3 Scope of
Work & Plan

Do Not Copy. All rights reserved by Chapala Iron & Manufacturing Company Inc.

