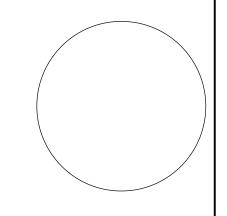
CUSTOM ADDITION



EL DORADO HILLS,CA 95672 PHONE:(916)743-0123 FAX:(866)631-1424

CONSULTANTS



ADDITION

812 SIBLEY ST, **FOLSOM, CA 95630,**

OWNER INFORMATION

APN#07104000110000

SCOPE OF WORK

PROJECT DATA

ADDITION OF 761 SQ. FT. WITH 1 BED, 1 BATH, 1 KITCHEN AND 1

ONE STORY

JOB SITE

1 BEDROOM; 1 BATHROOM; APPROX. HEIGHT-15'-3"

MARK DATE DESCRIPTION

PROJECT NO: REVISION DATE: DRAWN BY: ANDREY GINZBURG CHK'D BY: COPYRIGHT:

SHEET TITLE

COVERED PAGE

A-001

ABBREVIATIONS

CLR

COLUMN

CONCRETE

CASEMENT WINDOW

CODE DIRECTORY

2. THESE DRAWINGS ARE THE PROPERTY OF PREMIER DESIGN. ALL DESIGN

FIED PROJECT AND SHALL NOT BE USE. OTHERWISE WITHOUT WRITTEN

AND OTHER INFORMATION ON THE DRAWINGS ARE FOR USE ON THE SPECI-

2022 EDITION

2022 EDITION

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2022 EDITION

2022 EDITION

2022 EDITION (TITLE 24)

CALIFORNIA RESIDENTIAL CODE

CALIFORNIA MECHANICAL CODE

ENERGY EFFICIENCY STANDARDS

PERMISSION OF PREMIER DESIGN COPYRIGHT, 2004.

CALIFORNIA BUILDING CODE

CALIFORNIA PLUMBING CODE

CALIFORNIA GREEN

PREMIER DESIGN. **ALL RIGHT RESERVED**

3. OCCUPANCY TYPE R-3

CONSTRUCTION TYPE V-B

4. FIRE SPRINKLES-----NO

5. ZONING: R-1 - SINGLE FAMILY

BUILDING STANDARDS

1	ANGEL	DBL.	DOUBLE
	AT	DEPT.	DEPARTMENT
ı	POUND OR NUMBER	DET.	DETAIL
DR.	AREA DRAIN	DIA.	DIAMETER
GR.	AGGREGATE	DIM.	DIMENSION
	ALUMINUM	DISP.	DISPOSAL
PROX	. APPROXIMATE	DWN	DOWN
RCH.	ARCHITECTURAL	D.OPNG	. DOOR OPENI
SPH.	ASPHALT	DR.	DOOR
).	BOARD	D.S.P.	DRY STANDPI
.DG.	BUILDING	DWG.	DRAWING
.K.	BLOCK	E.	EAST
.KNG.	BLOCKING	EA.	EACH
Л.	BEAM	E.J.	EXPANSION JO
Γ.	воттом	EL.	ELEVATION
۱B.	CABINET	E.P.	ELECTRICAL PA
EM.	CEMENT	EQ.	EQUAL
R.	CERAMIC	EQPT.	EQUIPMENT
.G.	CEILING	E.W.C.	ELECTRICAL V
.0.	CLOSET	COOLER	}
.R	CLEAR	EXIST.	EXISTING
			

	F.O.C.	FACE OF CONCRET
	F.O.F.	FACE OF FINISH
	F.O.M.	FACE OF MASONRY
	F.O.S.	FACE OF STUDS
	F.O.P/B.	FACE OF POST/BE
NING	FP	FIREPROOF
	F.S.	FULL SIZE
PIPE	FT.	FOOT OR FEET
	FTG.	FOOTING
	FTR	FUTURE
	GA.	GAUGE
OINT	GALV.	GALVANIZED
	GL.	GLASS
PANEL	GR.	GRADE
	GYP.	GYPSUM
•	HDWD	HARDWOOD
L WATER	HDWE	HARDWARE
	HORIZ.	HORIZONTAL
	HR	HOUR
	HS	HORIZONTAL SLIDE
	нт	HEIGHT
	I.DIA.	INSIDE DIAMETER
N	IN	INCHE
N	INSUL.	
₹		INTERIOR

EXPOSED

EXTERIIOR

FOUNDATION FLOOR DRAII

F.A. FIRE ALARM

F.F. FINISH FLOOR

FIN. FINISH

F.G. FINISH GRADE F.H.C. FIRE HOSE CABINET

LSH.	FLASHING	
LUOR.	FLUORESCENT	
.o.c.	FACE OF CONCRETE	
.O.F.	FACE OF FINISH	
.O.M.	FACE OF MASONRY	
.o.s.	FACE OF STUDS	
.O.P/B.	FACE OF POST/BEAM	
P	FIREPROOF	
.s.	FULL SIZE	
T.	FOOT OR FEET	
TG.	FOOTING	
TR	FUTURE	
GA.	GAUGE	
ALV.	GALVANIZED	
ìL.	GLASS	
R.	GRADE	
YP.	GYPSUM	
IDWD	HARDWOOD	
IDWE	HARDWARE	
IORIZ.	HORIZONTAL	
IR	HOUR	
IS	HORIZONTAL SLIDER	

INTERIOR

KITCHEN

LAM. LAMINATE

TITLE 24 REQUIREMENTS:

HERS FEATURE SUMMARY

• MINIMUM AIRFLOW

• DUCT LEAKAGE TESTING

BY DUCT LEAKAGE TESTING

• INSULATION BELOW ROOF DECK

MUST BE INSTALLED

• VERIFIED REFRIGERANT CHARGE

• VERIFIED HEAT PUMP RATED HEATING CAPACITY

• COMPACT DISTRIBUTION SYSTEM EXPANDED CREDIT

• DUCTS LOCATED ENTIRELY IN CONDITIONED SPACE CONFIRMED

• NON-STANDARD DUCT LOCATION (ANY LOCATION OTHER THAN

HEAT PUMP WATER HEATER; SPECIFIC BRAND/MODEL, OR EQUIVALENT,

• NORTHWEST ENERGY EFFICIENCY ALLIANCE (NEEA) RATED

REQUIRE SPECIAL FEATURE:

M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
N.	NORTH
NO.OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVERALL
O.C.	ON CENTER
O.DIA.	OUT SIDE DIAMETER
OFF.	OFFICE
OPP.	OPPOSITE
PL	PLATE
P. LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PR	PAIR
P.T.	PRESSURE TREATED
PW	PICTURE WINDOW
RAD	RADIUS

DESIGN CRITERIA

38.730

.419

.212

6.5

.0629

4.22K

110mph

-121.089

OCCUPANCY CATEGORY

IMPORTANCE FACTOR

ROOF DEAD LOAD

ROOF LIVE LOAD

SNOW LOAD (Ps)

FLOOR LIVE LOAD

WALL DEAD LOAD

LATITUDE

LONGITUDE

SITE CLASS

SEISMIC BASE SHEAR

BASIC WIND SPEED

WIND CATEGORY

WIND EXPOSURE

LCKR LOCKER

LIGHT

MAXIMUM

LT

RAD

REFRIGERATOR

REINF. REINFORCED

RWD	RED WOOD
	SOUTH
S.C.	SOLID CORE
SCHE	D. SCHEDULE
	SECTION
SH	SINGLE HUNG
SHR	SHOWER
SHT	SHEET
_	SIMILAR
	SPECIFICATION
	SQUARE
•	STAINLESS STEEL
	STANDARD
	STEEL
0.1_	. STORAGE
SYM.	
TRD.	
	TOWER BAR
	TOP OF CURB
TEL.	TELEPHONE
	TERRAZZO
	THICK
	TOP OF FRAMING
	TOP OF PARAPET
	TOP OF SHEATHING
	TOP OF SHEATHING
1.V.	TELEVITION

T.W. TOP OF WALL

REQUIRED

ROOM

RM

TYP. TYPICAL UNFINISHED **VERTICAL WATER CLOSET WITHOUT** WATERPROOF WAINSCOT WEIGHT

PROJECT TEAM

3941 PARK DRIVE STE20-568

EL DORADO HILLS, CA 95672

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DESIGNER:

TITLE 24:

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SHEET INDEX

NAME

BRIEF SPECIFICATION

GREEN CODE COMPLY

GREEN CODE COMPLY

EXISTING FLOOR PLAN

ARCHITECTURE DETAILS

ELECTRICAL PLAN

FOUNDATION PLAN

STRUCTURE DETAILS

STRUCTURE NOTES

STRUCTURE NOTES

VICINITY MAP

SPECIFICATION

COVERED PAGE

SITE PLAN

FLOOR PLAN

ELEVATION

SECTIONS

TITLE 24

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A-001

A-002

A-003

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A-1.1

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A-2.1

A-3.1

A-4.0

A-5.0

AD-1

T-24

S-1.1

SD-1

SN1

SN2

BUILDING CODE REQUIREMENTS

- B-1 IN DWELLING UNITS, <u>SMOKE ALARMS</u> SHALL BE INSTALLED ON THE WALL OR CEILING OF THE AREA IMMEDIATELY OUTSIDE EACH SEPARATE SLEEPING AREA, IN EACH ROOM USED FOR SLEEPING PURPOSES, AND ON EACH STORY WITHIN THE DWELLING UNIT. IN DWELLINGS WITH BASEMENTS, AN ALARM SHALL BE INSTALLED ON EACH STORY AND IN THE BASEMENT. IN DWELLING UNITS WHERE A STORY OR BASEMENT IS SPLIT INTO TWO OR MORE LEVELS AND DOES NOT HAVE AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM NEED ONLY BE INSTALLED ON THE UPPER LEVEL, EXCEPT THAT WHEN THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL, AN ALARM SHALL BE INSTALLED ON EACH LEVEL. WHERE THE CEILING HEIGHT OF A ROOM THAT OPENS ONTO A HALLWAY SERVING A BEDROOM EXCEEDS THE HEIGHT OF THE HALLWAY BY 24 INCHES, SMOKE ALARMS SHALL BE INSTALLED IN THE HALLWAY AND IN THE ADJACENT ROOM. IN NEW CONSTRUCTION, THE REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM A COMMERCIAL SOURCE AND HAVE A BATTERY BACKUP. WHEN MORE THAN ONE SMOKE ALARM IS BEING PROVIDED THE ALARMS SHALL BE INTERCONNECTED. 2022 CRC, SECTION R314.
- B-2 WHEN INTERIOR <u>ALTERATIONS</u>, <u>REPAIRS</u>, <u>OR ADDITIONS</u> HAVING A VALUE IN EXCESS OF \$1,000 ARE MADE, PROVIDE APPROVED
 - <u>SMOKE ALARMS</u> AS REQUIRED FOR NEW BUILDINGS. THE ALARM MAY BE BATTERY OPERATED. 2022 CRC, SECTION R314.6.2.
- B-3 FOR NEW CONSTRUCTION, AND ALTERATION, REPAIRS AND ADDITIONS, AN APPROVED <u>CARBON</u>

 MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND IN SLEEPING UNITS WITHIN WHICH FUELBURNING APPLIANCES INCLUDING FIREPLACES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE
- MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND IN SLEEPING UNITS WITHIN WHICH FUEL-BURNING APPLIANCES INCLUDING FIREPLACES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES. 2022 CRC, SECTION R315.1. B-4 SPRINKLERS SHALL BE INSTALLED TO PROTECT ALL AREAS OF A NEW DWELLING UNIT. FIRE
- SPRINKLERS SHALL BE DESIGNED AND INSTALLED PER 2022 CRC, SECTION R313.2.1.

 B-5 BASEMENTS, HABITABLE ATTICS, AND EVERY SLEEPING ROOM IN DWELLING UNITS SHALL HAVE NOT LESS THAN ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING APPROVED FOR EMERGENCY ESCAPE OR RESCUE THAT SHALL OPEN DIRECTLY INTO A PUBLIC WAY, YARD, OR COURT THAT OPENS TO A PUBLIC WAY. ESCAPE OR RESCUE WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPENING AREA OF NOT LESS THAN 5.7 SQUARE FEET, EXCEPT THAT WHEN ESCAPE AND RESCUE WINDOWS ARE ON THE GRADE-FLOOR THEY CAN HAVE A MINIMUM NET CLEAR OPENING AREA OF 5 SQUARE FEET. ALL EMERGENCY ESCAPE AND RESCUE WINDOWS SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES. STORM SHELTERS AND BASEMENTS THAT ARE LESS THAN 200 SQUARE FEET AND ARE ONLY USED TO HOUSE MECHANICAL EQUIPMENT ARE EXEMPT FROM THIS REQUIREMENT. 2022 CRC, SECTION R310.1. SEE EXCEPTION 2 WHERE THE DWELLING OR TOWNHOUSE IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION P2904, SLEEPING ROOMS IN BASEMENTS SHALL NOT BE REQUIRED TO HAVE EMERGENCY ESCAPE AND RESCUE OPENINGS PROVIDED THAT THE BASEMENT HAS ONE OF THE FOLLOWING:
 - 2.1 ONE MEANS OF EGRESS COMPLYING WITH SECTION R311 AND ONE EMERGENCY ESCAPE AND
- RESCUE OPENING. 2.2 TWO MEANS OF EGRESS COMPLYING WITH SECTION R311.

 B-6 PRIVATE GARAGES SHALL BE SEPARATED FROM A DWELLING UNIT AND ITS ATTIC SPACE BY MINIMUM ½ INCH GYPSUM BOARD APPLIED ON THE GARAGE SIDE. PRIVATE GARAGES LOCATED BENEATH HABITABLE SPACES SHALL BE SEPARATED FROM THE HABITABLE SPACE BY MEANS OF MINIMUM 5/8 INCH GYPSUM BOARD. A GARAGE SHALL NOT OPEN DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES. DOOR OPENINGS BETWEEN A PRIVATE GARAGE AND A DWELLING UNIT ARE REQUIRED TO BE SELF-CLOSING AND SELF- LATCHING. WHEN NOT PROTECTED BY FIRE SPRINKLERS, THE DOOR SHALL BE CONSTRUCTED OF SOLID WOOD, SOLID MATERIAL, OR HONEY COMB CORE STEEL AND MUST BE 1-3/8 INCH THICK OR HAVE A 20 MINUTE FIRE RATING. 2022 CRC, SECTIONS R302.5 & R302.6.
- B-7 <u>DUCTS</u> MAY PASS THROUGH THE WALLS OR A CEILING <u>SEPARATING A PRIVATE GARAGE FROM A DWELLING UNIT</u> PROVIDED THE DUCTS WITHIN THE GARAGE ARE CONSTRUCTED OF STEEL HAVING A THICKNESS OF NOT LESS THAN 26 GAUGE GALVANIZED SHEET STEEL AND THE DUCT HAS NO OPENINGS INTO THE GARAGE. 2022 CRC, SECTION R302.5.2.
- B-8 PROVIDE READILY ACCESSIBLE <u>NATURAL VENTILATION</u> DIRECTLY TO THE OUTDOORS FOR ALL HABITABLE ROOMS WITHIN A DWELLING UNIT EQUAL TO 4 PERCENT OF THE FLOOR AREA VENTILATED. 2022 CRC, SECTION R303.1.
- B-1 B-9 PROVIDE <u>NATURAL OR ARTIFICIAL LIGHT</u> TO ALL HABITABLE ROOMS WITHIN A DWELLING UNIT. NATURAL LIGHT SHALL BE EQUAL TO 8 PERCENT OF THE FLOOR AREA SERVED. ARTIFICIAL LIGHT SHALL HAVE AN AVERAGE ILLUMINATION OF 6 FOOT-CANDLES AT A HEIGHT OF 30 INCHES ABOVE
- THE FLOOR LEVEL. 2022 CRC, SECTION R303.1.

 B-10 ROOMS CONTAINING BATHTUBS, SHOWERS, SPAS, AND SIMILAR BATHING FIXTURES SHALL BE PROVIDED WITH AN AGGREGATE GLAZING AREA OF NOT LESS THAN 3 SQUARE FEET OF WHICH AT LEAST ONE HALF MUST BE OPENABLE OR BE MECHANICALLY VENTILATED WITH THE EXHAUST AIR GOING
- B-11 PROVIDE <u>SAFETY GLAZING</u> FOR ALL GLAZING IN LOCATIONS SPECIFIED AS HAZARDOUS IN THE 2022 CRC, SECTION R308.4.

DIRECTLY TO THE OUTSIDE. 2022 CRC, SECTION R303.3.

- B-12 SHOWER COMPARTMENTS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS SHALL BE FINISHED WITH A SMOOTH, NONABSORBENT SURFACE TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR. 2022 CRC, SECTION R307.2.
- B-13 PROVIDE AN APPROVED ATTIC ACCESS IN A READILY ACCESSIBLE LOCATION SIZED 22 INCHES BY 30 INCHES WITH MINIMUM 30 INCH VERTICAL HEADROOM. 2022 CRC, SECTION R807.1. IF MECHANICAL EQUIPMENT IS INSTALLED IN THE ATTIC SPACE THE ACCESS MUST BE SIZED SO THAT THE LARGEST PIECE OF EQUIPMENT CAN BE REMOVED, BUT IN NO CASE SMALLER THAN 22 INCH BY 30 INCH WITH 30 INCH VERTICAL HEADROOM CLEARANCE PER 2022 CMC, SECTION 304.4.
- B-14 ENCLOSED USABLE SPACE UNDER INTERIOR STAIRWAYS IN DWELLING UNITS SHALL HAVE THE WALLS AND SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH ½ INCH GYPSUM BOARD. 2022 CRC, SECTION R302.7.
- B-15 PRIVATE STAIRWAYS SHALL BE CONSTRUCTED WITH A 7.75 INCH MAXIMUM RISE, A 10 INCH MINIMUM RUN, AND A 36 INCH MINIMUM WIDTH. A NOSING NOT LESS THAN ¾ INCH BUT NOT MORE THAN 1-1/4 INCH SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS WHERE THE TREAD DEPTH IS LESS THAN 11 INCHES. THE LARGEST TREAD RUN AND THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. MAINTAIN A CONTINUOUS 6 FOOT 8 INCH HEADROOM CLEARANCE ABOVE THE STAIRWAY. 2022 CRC, SECTION R311.7.
- B-16 A MINIMUM OF <u>ONE HANDRAIL</u> IS REQUIRED ON ALL STAIRWAY RUNS WITH FOUR OR MORE RISERS THAT SERVE DWELLING UNITS. THE TOP OF HANDRAILS SHALL BE PLACED NOT LESS THAN 34 INCHES NOR MORE THAN 38 INCHES ABOVE THE NOSING OF THE TREADS EXCEPT FOR AT THE LOWEST RISER, LANDING TRANSITIONS, AND THE START OF THE FLIGHT WHERE THEY MAY BE ALLOWED TO BE HIGHER. A CLEAR SPACE OF 1-1/2 INCHES IS REQUIRED BETWEEN THE HANDRAIL AND THE WALL. THE MAXIMUM PROJECTION OF THE HANDRAIL INTO THE REQUIRED STAIRWAY WIDTH SHALL BE 4-1/2 INCHES. OPENINGS IN OPEN GUARDS ON STAIRWAYS SHALL BE SIZED SUCH THAT A 4-3/8 INCH SPHERE WILL NOT PASS THROUGH. THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL AT THE OPEN SIDE OF A STAIRWAY SHALL BE OF A MAXIMUM SIZE SUCH THAT A SPHERE OF 6 INCHES IN DIAMETER CANNOT PASS THROUGH THE OPENING. 2022 CRC, SECTION R311.7.8 AND R312.1.3.

- B-17 <u>CIRCULAR HANDRAILS</u> SHALL HAVE A MINIMUM DIAMETER OF 1-1/4 INCHES AND A MAXIMUM DIAMETER OF 2 INCHES. <u>NON- CIRCULAR HANDRAILS</u> SHALL HAVE A MINIMUM PERIMETER DIMENSION OF 4 INCHES, A MAXIMUM PERIMETER DIMENSION OF 6- 1/4 INCHES, AND A MAXIMUM CROSS-SECTION OF 2-1/4 INCHES. <u>HANDRAILS WITH A PERIMETER GREATER THAN 6-1/4 INCHES</u> SHALL HAVE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITHIN A DISTANCE OF 3/4 INCH MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND ACHIEVE A DEPTH OF AT LEAST 5/16 INCH WITHIN 7/8 INCH BELOW THE WIDEST PART OF THE PROFILE. THE REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 1-3/4 INCHES BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1-1/4 INCHES TO A MAXIMUM OF 2-3/4 INCHES. 2022 CRC, SECTION R311.7.8.5.
- B-18 GUARDS ARE REQUIRED WHERE OPEN-SIDED WALKING SURFACES INCLUDING STAIRS, RAMPS, AND LANDINGS ARE LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR BELOW. THESE GUARDS SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT. OPENINGS IN OPEN GUARDS FOR THESE AREAS SHALL BE SIZED SUCH THAT A 4 INCH DIAMETER SPHERE CANNOT PASS THROUGH ANY OPENING. 2022 CRC, SECTION R312.1.
- B-19 ON STAIRWAYS, GUARDS WHOSE TOP RAIL ALSO SERVES AS A HANDRAIL SHALL HAVE A HEIGHT NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGE OF THE TREADS. 2022 CRC, SECTION 312.1.2 EXCEPTION #2.

 B-20 INTERIOR SPACES INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 68 DEGREES FAHRENHEIT AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS. 2022 CRC, SECTION R303.10.
- B-21 <u>CEILING HEIGHTS</u> FOR HABITABLE SPACE, HALLWAYS AND PORTIONS OF BASEMENTS CONTAINING THESE SPACES SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET. BATHROOMS, TOILET ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT NOT LESS THAN 6 FEET 8 INCHES. 2022 CRC, SECTION R305.1.
- B-22 FACTORY BUILT CHIMNEYS AND FACTORY BUILT FIREPLACES SHALL BE LISTED AND INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE MANUFACTURER'S INSTRUCTIONS. 2022 CRC, SECTIONS R1004.1 & R1005.1.
- B-23 BRACED WALL LINES SHALL CONSIST OF BRACED WALL PANELS THAT MEET THE REQUIREMENTS FOR LOCATION, SIZE, SPACING AND TYPE OF BRACING AS SHOWN IN 2022 CRC, SECTIONS R602.10.1.1, TABLES R602.10.1.2(2) & R602.10.1.2(3), R602.10.1.4.1, AND R602.10.3. BRACE WALL LINES SHALL BE IN LINE OR OFFSET FROM EACH OTHER BY NOT MORE THAN 4 FEET. ALL BRACED WALL PANELS SHALL BE CLEARLY INDICATED ON THE PLANS.
- B-1 B-24 ANY BRACED WALL PANEL MAY BE REPLACED BY AN ALTERNATE BRACED WALL PANEL CONSTRUCTED IN ACCORDANCE WITH 2022 CRC, SECTION R602.10.6.1 AND TABLE R602.10.6.1. B-25 CRIPPLE WALLS HAVING A STUD HEIGHT EXCEEDING 14 INCHES SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDS ABOVE. CRIPPLE WALLS EXCEEDING 4 FEET IN HEIGHT SHALL BE FRAMED WITH STUDS SIZED AS REQUIRED FOR AN ADDITIONAL STORY. CRIPPLE WALLS WITH STUDS LESS THAN 14 INCHES HIGH SHALL BE FRAMED OF SOLID BLOCKING OR SHALL BE SHEATHED ON AT LEAST ONE SIDE WITH A WOOD STRUCTURAL PANEL THAT IS FASTENED TO BOTH THE TOP AND BOTTOM PLATE. ALL CRIPPLE WALLS SHALL BE SUPPORTED ON A CONTINUOUS FOUNDATION. 2022 CRC, SECTION R602.9.
- B-26 <u>STUD SIZE, HEIGHT, AND SPACING</u> SHALL CONFORM TO 2022 CRC, TABLE R602.3(5).

 B-27 <u>PROVIDE ACCESS TO ALL UNDER-FLOOR SPACES</u>. ACCESS PROVIDED THROUGH THE FLOOR SHALL BE A MINIMUM SIZE OF 18 INCHES BY 24 INCHES. ACCESS PROVIDE THROUGH THE WALL SHALL BE A MINIMUM OF 16 INCHES BY 24 INCHES AND SHALL NOT BE LOCATED UNDER A DOOR TO THE
- B-28 PROVIDE ADEQUATE <u>VENTILATION AT ALL UNDER-FLOOR SPACES</u>. 2022 CRC, SECTION 408.1.
 B-29 <u>WOOD FRAMING MEMBERS</u> AND WOOD-BASED PRODUCTS MUST BE FOUNDATION GRADE
 REDWOOD OR TREATED AND MARKED BY AN APPROVED AGENCY WHEN REQUIRED BY 2022 CRC,

RESIDENCE. 2022 CRC, SECTION 408.4.

- B-30 FOUNDATION PLATES OR SILLS SHALL BE BOLTED OR ANCHORED TO THE FOUNDATION WITH NOT LESS THAN ½ INCH DIAMETER STEEL BOLTS OR APPROVED ANCHORS SPACED A MINIMUM OF 6 FEET ON CENTER FOR ONE AND TWO STORY DWELLINGS AND A MINIMUM OF 4 FEET ON CENTER FOR THREE OF MORE STORY DWELLINGS. THERE SHALL BE AT LEAST TWO BOLTS PER PLATE THAT START WITHIN 12 INCHES OR 7 BOLT DIAMETERS OF THE END OF THE PLATE. ALL FOUNDATION BOLTS SHALL BE EMBEDDED A MINIMUM OF 7 INCHES INTO THE CONCRETE OR MASONRY. EACH BOLT SHALL HAVE A PROPERLY SIZED NUT AND WASHER. 2022 CRC, SECTIONS R403.1.6 & R403.1.6.1. THE WASHERS MUST BE A MINIMUM 3 X 3 INCHES SQUARE AND .229 INCHES THICK. A DIAGONAL SLOT IS ALLOWED OF A WIDTH 3/16 INCH LARGER THAN THE BOLT DIAMETER AND A MAXIMUM 1-3/4 IN LENGTH, PROVIDED A STANDARD CUT WASHER IS USED BETWEEN THE NUT AND PLATE WASHER. 2022 CRC, SECTION R602.11.1.
- B-31 CUTTING AND NOTCHING OF EXTERIOR WALLS AND BEARING PARTITIONS SHALL NOT BE GREATER THAN 25 PERCENT OF THE STUD WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONBEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION. 2022 CRC, SECTION 602.6 #1.

 B-32 A DRILLED OR BORED HOLE NOT GREATER IN DIAMETER THAN 60 PERCENT OF THE STUD WIDTH IS PERMITTED IN A NON-BEARING PARTITION OR IN A WALL WHERE THE BORED STUD IS
- OF WOOD IS REQUIRED BETWEEN THE BORED HOLE AND THE EDGE OF THE WOOD. BORED HOLES
 CANNOT BE LOCATED IN THE SAME VICINITY AS A CUT OR A NOTCH. 2022 CRC, SECTION 602.6 #2.

 B-33 FOOTINGS SHALL BE DESIGNED SO THAT THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS
 NOT EXCEEDED PER TABLE R401.4.1. WHERE A SPECIFIC DESIGN IS NOT PROVIDED, THE SIZE OF
 CONCRETE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAME CONSTRUCTION SHALL CONFORM TO THE

DOUBLED PROVIDED NOT MORE THAN TWO SUCH SUCCESSIVE STUDS ARE BORED. A MINIMUM 5/8 INCH

BELOW UNDISTURBED GROUND. 2022 CRC, SECTION R403.1.4.

B-34 WHERE POST AND BEAM OR GIRDER CONSTRUCTION IS USED, A <u>POSITIVE CONNECTION</u>

SHALL BE PROVIDED TO ENSURE AGAINST UPLIFT AND LATERAL DISPLACEMENT. 2022 CRC, SECTION

REQUIREMENTS OF 2022 CRC, TABLE R403.1. THE MINIMUM DEPTH OF FOOTINGS SHALL BE 12 INCHES

- B-35 WHERE RAFTERS ARE NOT PARALLEL WITH THE CEILING JOIST, RAFTERS SHALL BE TIED TO AN EQUIVALENT <u>RAFTER TIE</u> THAT IS CONNECTED PER TABLE 802.5.2. THE RAFTER TIES SHALL BE A MINIMUM OF 2 INCH BY 4 INCH. 2022 CRC, SECTION R802.5.2. WHERE CEILING JOISTS OR RAFTER TIES ARE NOT PROVIDED, THE RIDGE FORMED BY THESE RAFTERS SHALL BE SUPPORTED BY A WALL OR GIRDER DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
- B-36 PROVIDE ADEQUATE <u>VENTILATION TO ALL ATTIC SPACES</u>. 2022 CRC, SECTION R806.1
 B-37 PROVIDE <u>FIRE BLOCKING AND DRAFT STOPPING</u> IN CONCEALED LOCATIONS OF COMBUSTIBLE CONSTRUCTION IN ACCORDANCE WITH THE 2022 CRC, SECTIONS R302.11 & R302.12.
 B-38 ALL <u>GYPSUM BOARD</u>, <u>STUCCO</u>, <u>PLASTER</u>, <u>AND LATH</u> SHALL BE INSTALLED AS PER 2022 CRC,
- NOTE: WHEN LATH IS APPLIED OVER WOOD BASE SHEATHING, INCLUDE TWO LAYERS OF GRADE D PAPER. 2022 CRC, SECTION R703.6.3.
- B-39 PROVIDE WEATHER PROTECTION ON ALL EXTERIOR WALLS LOCATED ABOVE GRADE THAT ARE NOT CONSTRUCTED OF CONCRETE OR MASONRY. 2022 CRC, SECTION R703.1.

 B-40 ON GRADED SITES, THE TOP OF ANY EXTERIOR FOUNDATION SHALL EXTEND ABOVE THE ELEVATION OF THE STREET GUTTER AT POINT OF DISCHARGE OR THE INLET OF AN APPROVED DRAINAGE DEVICE A MINIMUM OF 12 INCHES PLUS 2 PERCENT PER FOOT (1/4 INCH PER LINEAR FOOT MEASURED FROM THE GUTTER TO THE EDGE OF THE FOOTING). WHERE A GUTTER IS NOT PRESENT, THE MEASUREMENT SHALL BE TAKEN FROM THE CROWN OF ROAD. 2022 CRC, SECTION R403.1.7.3.

ELECTRICALCODE REQUIREMENTS

- E-1 PROVIDE A GROUNDING ELECTRODE AS PER 2022 CEC 250.50
 E-2 GROUNDING CONDUCTORS TO BE PROVIDED WHERE INSTALLING A BRANCH CIRCUIT OR
- FEEDER SUPPLYING A SEPARATE BUILDING OR STRUCTURE. 2022 CEC 250.32(B).
- E-3 CONTACT SMUD'S CUSTOMER SERVICE DEPARTMENT FOR SERVICE LOCATION. PHONE

 1-888-456-SMUD (7683) OR 916-732- 6630

 E-4 AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY
- HABITABLE ROOM, IN BATHROOMS, HALLWAYS, STAIRWAYS, ATTACHED GARAGES, DETACHED GARAGES WITH ELECTRICAL POWER, ATTICS, UNDER FLOOR SPACES, UTILITY ROOMS, BASEMENTS USED FOR STORAGE OR HAVING EQUIPMENT THAT REQUIRES SERVICING, AND AT OUTDOOR ENTRANCES OR EXITS. 2022 CEC 210.70.

 E-5 DWELLINGS WITH DIRECT GRADE LEVEL ACCESS SHALL HAVE AT LEAST ONE RECEPTACLE
- OUTLET AT GRADE LEVEL AT THE FRONT AND BACK OF THE DWELLING. ALL 125 VOLT, 15 AND 20 AMP, RECEPTACLES INSTALLED OUTDOORS WITH DIRECT GRADE LEVEL ACCESS SHALL BE GFCI PROTECTED. ALL RECEPTACLES INSTALLED OUTDOORS IN WET OR DAMP LOCATIONS SHALL BE IN A WEATHERPROOF ENCLOSURE AS PER 2022 CEC 210.52(E), 210.8(A)(3), & 406.9.
- E-6 AT LEAST ONE RECEPTACLE OUTLET, IN ADDITION TO ANY PROVIDED FOR SPECIFIC EQUIPMENT, SHALL BE INSTALLED IN EACH BASEMENT, IN EACH ATTACHED GARAGE, AND IN EACH DETACHED GARAGE OR ACCESSORY BUILDING WITH ELECTRIC POWER. THESE OUTLETS ARE TO BE GFCI PROTECTED. 2022 CEC 210.52(G).
- E-7 PROVIDE GFCI PROTECTION TO ALL 125 VOLT, 15 AMP AND 20 AMP RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, OUTDOORS, CRAWLSPACES AT OR BELOW GRADE, UNFINISHED BASEMENTS, RECEPTACLES TO SERVE COUNTER TOP SURFACES INSTALLED IN KITCHENS, AND RECEPTACLES WITHIN 6 FEET OF A SINK, OR SHOWER/TUB AND LAUNDRY AREAS. 2022 CEC 210.8(A).
- E-8 ARC -FAULT CIRCUIT INTERRUPTER PROTECTION IS REQUIRED IN DWELLINGS FOR ALL 120

 VOLT SINGLE PHASE 15 AND 20 AMP BRANCH CIRCUITS SPECIFIED IN 2022 CEC 210.12.

 E-9 RECEPTACLE OUTLETS SHALL BE SPACED NOT MORE THAN 12 FEET APART AND A MAXIMUM OF

 6 FEET FROM THE ENDS OF WALLS OR OPENINGS. RECEPTACLE OUTLETS ARE ALSO REQUIRED IN WALLS 2
- FEET OR GREATER. 2022 CEC 210.52(A).

 E-10 PROVIDE TWO OR MORE 20 AMP SMALL APPLIANCE BRANCH CIRCUITS EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA. SUCH CIRCUITS SHALL
- NOTE: ONE ADDITIONAL 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S). THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. 2022 CEC 210.11(C)(2).

 E-11 PROVIDE FUSES OR APPROVED CIRCUIT BREAKERS AT AIR CONDITIONING UNITS AND HEAT
- PUMPS AS PER 2022 CEC 440. (DO NOT EXCEED MAXIMUM FUSE REQUIREMENTS OR MINIMUM ON EQUIPMENT SPECIFICATION PLATE).

 E-12 AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED WITH ALL BRANCH CIRCUITS AND FEEDERS SUPPLYING A SEPARATE BUILDING OR STRUCTURE. 2022 CEC 250.32(B).
- PROVIDE AN INTERSYSTEM BONDING TERMINATION MEANS THAT INCLUDES PROVISIONS FOR CONNECTING THREE GROUNDING OR BONDING CONDUCTORS FOR COMMUNICATIONS SYSTEMS USING A # 6 COPPER CONDUCTOR. 2022 CEC 250.94,
- E-14 EQUIPMENT GROUNDING CONDUCTORS TO BE PROVIDED FOR GROUNDING MEANS AND EFFECTIVE GROUND-FAULT PATH BY PERFORMING BOTH GROUNDING AND BONDING FUNCTIONS. 2022 CEC 250 148
- E-15 EQUIPMENT BONDING JUMPERS THAT CONNECT GROUNDING TERMINALS OF RECEPTACLES TO A GROUNDED METAL BOX MUST BE SIZED ACCORDING TO TABLE 250.122 USING THE RATING OF THE OVERCURRENT DEVICE, FUSE, OR CIRCUIT BREAKER FOR THE CIRCUIT. 2022 CEC 250.146.

 E-16 DEVICE OR EQUIPMENT FILL IN A JUNCTION BOX TO BE CALCULATED USING TWICE THE WIRE
- SIZE VOLUME IF THE DEVICE IS WIDER THAN 2 INCHES. 2022 CEC 314.16(B)(4).

 E-17 LIGHTING JUNCTION BOXES TO BE DESIGNED FOR THE PURPOSE AND LISTED WITH THE CAPACITY OF HOLDING 50 POUNDS. IT MUST BE MARKED FOR THE PURPOSE OF HOLDING LUMINARIES.
- 2022 CEC 314.27(A).

 E-18 ARMORED CLAD CABLE (AC) IS ACCEPTABLE FOR BRANCH CIRCUITS AND FEEDERS. 2022 CEC 320.10(1).
- E-19 METAL CLAD CABLE (MC) IS PERMITTED FOR WET LOCATIONS IF MEETING THE CONDITIONS OF 2022 CEC 330.10(A)(11).
- E-20 FLEXIBLE METAL CONDUIT ISN'T PERMITTED FOR USE IN WET LOCATIONS, REGARDLESS OF ANY CONDITIONS. 2022 CEC 348.12(1).
- E-21 FLEXIBLE METAL CONDUIT AND LIQUID TIGHT FLEXIBLE METAL CONDUIT MAY BE FISHED WITHIN WALLS OR CONCEALED SPACES WITHOUT THE NEED FOR SUPPORT. 2022 CEC 348.30(A).

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HAVE NO OTHER OUTLETS. 2022 CEC 210.52(B).

- E-22 AN EQUIPMENT DISCONNECTING MEANS THAT ISN'T WITHIN SIGHT OF THE EQUIPMENT IT SERVES IS REQUIRED TO BE CAPABLE OF BEING LOCKED OPEN (OFF POSITION) AND HAVE A MEANS FOR ADDING A LOCK THAT MUST REMAIN WITH THE EQUIPMENT WHETHER THE LOCK IS INSTALLED OR NOT. THIS IS A SPECIAL DEVICE THAT CONNECTS TO THE BREAKER. 2022 CEC 110.25.
- E-23 RECEPTACLES IN WET LOCATIONS. 120 VOLT AND 250 VOLT ARE REQUIRED TO BE LISTED WEATHER-RESISTANT TYPE. 2022 CEC 406.9(A) & (B).

 E-24 TAMPER-RESISTANT RECEPTACLES IN DWELLING TO BE INSTALLED IN AREAS SPECIFIED BY
- 210.52 SHALL BE LISTED TAMPER- RESISTANT TYPE. 2022 CEC 406.12.
- E-25 ALL LUMINAIRES AND LAMP HOLDERS SHALL BE LISTED. 2022 CEC 410.6.
 E-26 THOSE LUMINARIES ALLOWED IN CLOTHES CLOSETS BY 2022 CEC 410.16(A) SHALL BE
- INSTALLED PER THE REQUIREMENTS OF 2022 CEC 410.16(C)

 E-27 THE DISCONNECTING MEANS FOR POOL AND SPA OR HOT TUB SHALL SIMULTANEOUSLY OPEN
- ALL UNGROUNDED CONDUCTORS. IT SHALL BE FURTHER THAN 5 FEET FROM THE WATER'S EDGE. 2022 CEC 680.12.

 E-28 RECEPTACLES SHALL BE GREATER THAN 6 FEET FROM THE WATER EDGE OF THE POOL,
- FOUNTAIN, SPA OR SIMILAR INSTALLATION. IT SHALL BE GFCI PROTECTED. 2022 CEC 680.22, 680.34, AND 680.43.
- E-30 GFCI PROTECTION IS REQUIRED FOR ALL POOL PUMP MOTORS FOR EITHER 125 VOLT OR 240
- E-31 EQUIPOTENTIAL BONDING WILL BE REQUIRED AROUND POOL AREAS. A CONDUCTOR SIZED AT A
- MINIMUM OF #8 COPPER SHALL BE USED. 2022 CEC 680.26.

 E-32 PUMPS FOR PORTABLE POOLS SHALL HAVE AN INTEGRAL GFCI PROTECTED CORD WITHIN 12

 INCHES OF THE ATTACHMENT PLUG. ALL 125 VOLT, 15- AND 20-AMP RECEPTACLES WITHIN 20 FEET OF A
- POOL SHALL BE GFCI PROTECTED. 2022 CEC 680.31 & 680.32.

 E-33 HYDRO MASSAGE BATHTUBS AND THEIR ASSOCIATED EQUIPMENT MUST BE SUPPLIED BY AT LEAST ONE SEPARATE INDIVIDUAL CIRCUIT. 2022 CEC 680.71.

PLUMBING CODE REQUIREMENTS

SUCH USE. 2022 CPC, SECTION 1212.6.

- P-1 PROVIDE AN APPROVED DISHWASHER AIR GAP FITTING AS PER 2022 CPC, SECTION 807.3.
 P-2 POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, OTHER THEN WATER HEATER DRAINS, BOILER DRAINS, AND CLOTHES WASHER CONNECTORS, SHALL BE PROTECTED BY A LISTED NON-REMOVABLE HOSE BIB TYPE BACKFLOW PREVENTOR OR A LISTED ATMOSPHERIC VACUUM BREAKER AS PER 2022 CPC, SECTION 603.5.7.
- P-3 JOINTS. WHERE A FIXTURE COMES IN CONTACT WITH THE WALL OR FLOOR, THE JOINT BETWEEN THE FIXTURE AND THE WALL OR FLOOR SHALL BE MADE WATERTIGHT. 2022 CPC, SECTION
- P-4 NO UNDERFLOOR CLEANOUT SHALL BE LOCATED MORE THAN 5 FEET FROM AN ACCESS DOOR, TRAP DOOR, OR CRAWL HOLE. 2022 CPC, SECTION 707.9.
- P-5 GAS WATER HEATERS LOCATED IN RESIDENTIAL GARAGES OR ADJACENT SPACES OPEN TO THE GARAGE THAT ARE NOT PART OF THE LIVING SPACE SHALL BE INSTALLED SO THAT THE PILOTS, BURNERS, AND BURNER-IGNITER DEVICES ARE AT LEAST 18 INCHES ABOVE THE FLOOR UNLESS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT. 2022 CPC, SECTION 507.13.
- P-6 FUEL BURNING WATER HEATERS SHALL BE INSTALLED PER 2022 CPC, SECTION 506.0, FOR
- P-7 WATER HEATERS THAT DEPEND ON THE COMBUSTION OF FUEL FOR HEAT SHALL NOT BE INSTALLED IN BEDROOMS OR BATHROOMS UNLESS INSTALLED IN AN APPROVED CLOSET OR DIRECT
- VENT TYPE PER 2022 CPC, SECTION 504.1.

 P-8 LISTED WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND THE MANUFACTURES' INSTRUCTIONS. UNLISTED WATER HEATERS SHALL BE INSTALLED WITH A CLEARANCE
- OF 12" ON ALL SIDES AND REAR. 2022 CPC, SECTION 504.3.1 & 504.3.2.

 P-9 ANY WATER SYSTEM CONTAINING STORAGE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED, LISTED, AND ADEQUATELY SIZED COMBINATION PRESSURE AND TEMPERATURE RELIEF VALVE. 2022 CPC, SECTION 608.3.
- P-10 RELIEF VALVES LOCATED INSIDE A BUILDING SHALL BE PROVIDED WITH A DRAIN OF GALVANIZED STEEL, HARD DRAWN COPPER PIPING AND FITTINGS, CPVC, OR LISTED VALVE DRAIN. THE DRAIN SHALL EXTEND FROM THE VALVE TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE NOT MORE THAN 2 FEET NOR LESS THAN 6 INCHES ABOVE THE GROUND AND POINTING DOWNWARD. 2022 CPC, SECTION 608.5.
- NOTE: NO PART OF SUCH DRAINPIPE SHALL BE TRAPPED, AND THE TERMINAL END OF THE DRAINPIPE SHALL NOT BE THREADED.
- P-11 WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM DISTANCE OF 4 INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING. 2022 CPC, SECTION 507.2. P-12 GAS UTILIZATION EQUIPMENT CONNECTED TO A PIPING SYSTEM SHALL HAVE AN ACCESSIBLE APPROVED MANUAL SHUT OFF VALVE WITH A NON-DISPLACEABLE VALVE MEMBER, OR A LISTED GAS CONVENIENCE OUTLET INSTALLED WITHIN 6' OF THE EQUIPMENT IT SERVES. SHUT OFF VALVES SERVING DECORATIVE GAS APPLIANCES SHALL BE PERMITTED TO BE INSTALLED IN FIREPLACES IF LISTED FOR
- P-13 SHOWERS AND TUB-SHOWER COMBINATIONS IN ALL BUILDINGS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. 2022 CPC, SECTION 408.3.

P-1 MECHANICAL CODE REQUIREMENTS

- M-1 DOMESTIC CLOTHES DRYER MOISTURE EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACK-DRAFT DAMPER. SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE FLOW SHALL NOT BE USED. UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND BY THE BUILDING OFFICIAL, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FEET INCLUDING TWO 90° ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90° ELBOW IN EXCESS OF TWO. 2022 CMC, SECTION 504.4.
- M-2 MAKE UP AIR. WHEN A CLOSET IS DESIGNED FOR THE INSTALLATION OF A CLOTHES DRYER, A MINIMUM OPENING OF 100 SQUARE INCHES FOR MAKEUP AIR SHALL BE PROVIDED IN THE DOOR OR BY OTHER APPROVED MEANS. 2022 CMC, SECTION 504.4.1.
- M-3 INSTALLATION OF A LISTED COOKING APPLIANCE OR MICROWAVE OVEN ABOVE A LISTED COOKING APPLIANCE. THE INSTALLATION OF A LISTED COOKING APPLIANCE OR MICROWAVE OVEN OVER A LISTED COOKING APPLIANCE SHALL CONFORM TO THE CONDITIONS OF THE UPPER APPLIANCE'S LISTING AND THE MANUFACTURERS' INSTALLATION INSTRUCTIONS. 2022 CMC, SECTION 921.4
 M-4 DOMESTIC RANGE VENTS. DUCTS FOR DOMESTIC KITCHEN DOWNDRAFT GRILL-RANGE
- VENTILATION SHALL BE INSTALLED AS PER 2022 CMC, SECTION 504.2.

 M-5 FUEL BURNING EQUIPMENT SHALL BE ASSURED A SUFFICIENT SUPPLY OF COMBUSTION AIR AS PER CHAPTER 7, 2022 CMC.
- M-6 WARM AIR FURNACES SHALL NOT BE INSTALLED IN A ROOM USED OR DESIGNED TO BE USED AS A BEDROOM OR BATHROOM UNLESS DIRECT VENT TYPE OR INSTALLED IN AN APPROVED CLOSET ENCLOSURE PER 2022 CMC, SECTION 904.1.
- M-7 ATTIC FURNACE. THE DISTANCE FROM THE PASSAGEWAY ACCESS TO THE FURNACE SHALL NOT EXCEED 20 FEET MEASURED ALONG THE CENTER LINE OF THE PASSAGEWAY. THE PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES WIDE FROM THE ENTRANCE OPENING TO THE FURNACE. A LEVEL WORKING PLATFORM NOT LESS THAN 30 INCHES IN DEPTH AND WIDTH SHALL BE PROVIDED IN FRONT OF THE ENTIRE FIRE BOX SIDE OF THE WARM AIR FURNACE. IF THE FURNACE TEMPERATURE LIMIT CONTROL, AIR FILTER, FUEL CONTROL VALVE, VENT COLLAR, OR AIR HANDLING UNIT IS NOT SERVICEABLE FROM THE FIRE BOX SIDE OF THE FURNACE, A CONTINUOUS FLOOR NOT LESS THAN 24 INCHES IN WIDTH SHALL BE PROVIDED FROM THE PLATFORM IN FRONT OF THE FIRE BOX SIDE OF THE FURNACE TO AND IN FRONT OF THIS EQUIPMENT. A PERMANENT ELECTRIC OUTLET AND LIGHTING FIXTURE CONTROLLED BY A SWITCH LOCATED AT THE REQUIRED PASSAGEWAY OPENING SHALL BE PROVIDED AT OR NEAR THE FURNACE. 2022 CMC, SECTION 304.4.
- M-8 VENT TERMINATION. GAS VENTS WITH LISTED VENT CAPS 12 INCHES IN SIZE OR SMALLER SHALL BE PERMITTED TO BE TERMINATED IN ACCORDANCE WITH TABLE 802.6.2, PROVIDED THEY ARE LOCATED AT LEAST 8 FEET FROM THE VERTICAL WALL OR SIMILAR OBSTRUCTION. ALL OTHER GAS VENTS SHALL TERMINATE NOT LESS THAN 2 FEET ABOVE THE HIGHEST POINT WHERE THEY PASS THROUGH THE ROOF AND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10 FEET. 2022 CMC, SECTION 802.6.2.
- NOTE: SINGLE WALL METAL PIPE SHALL NOT ORIGINATE IN AN UNOCCUPIED ATTIC OR CONCEALED SPACE AND SHALL NOT PASS THROUGH ANY ATTIC, INSIDE WALL, CONCEALED SPACE OR FLOOR. 2022 CMC, SECTION 802.7.3.2.
- M-9 APPROVAL OF EQUIPMENT. LISTED AND UNLISTED EQUIPMENT SHALL COMPLY WITH THE 2022 CMC, SECTION 301.2.
- M-10 IGNITION SOURCE. HEATING AND COOLING EQUIPMENT LOCATED IN A GARAGE THAT GENERATES A GLOW, SPARK, OR FLAME CAPABLE OF IGNITING FLAMMABLE VAPORS SHALL BE INSTALLED WITH SOURCES OF IGNITION AT LEAST 18 INCHES ABOVE THE FLOOR LEVEL. 2022 CMC, SECTION 305.



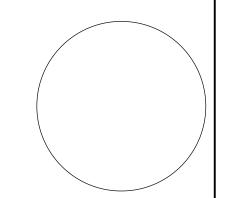
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PROJECT NO:
REVISION DATE:

DRAWN BY: ANDREY GINZBURG CHK'D BY:

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

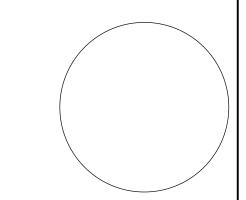




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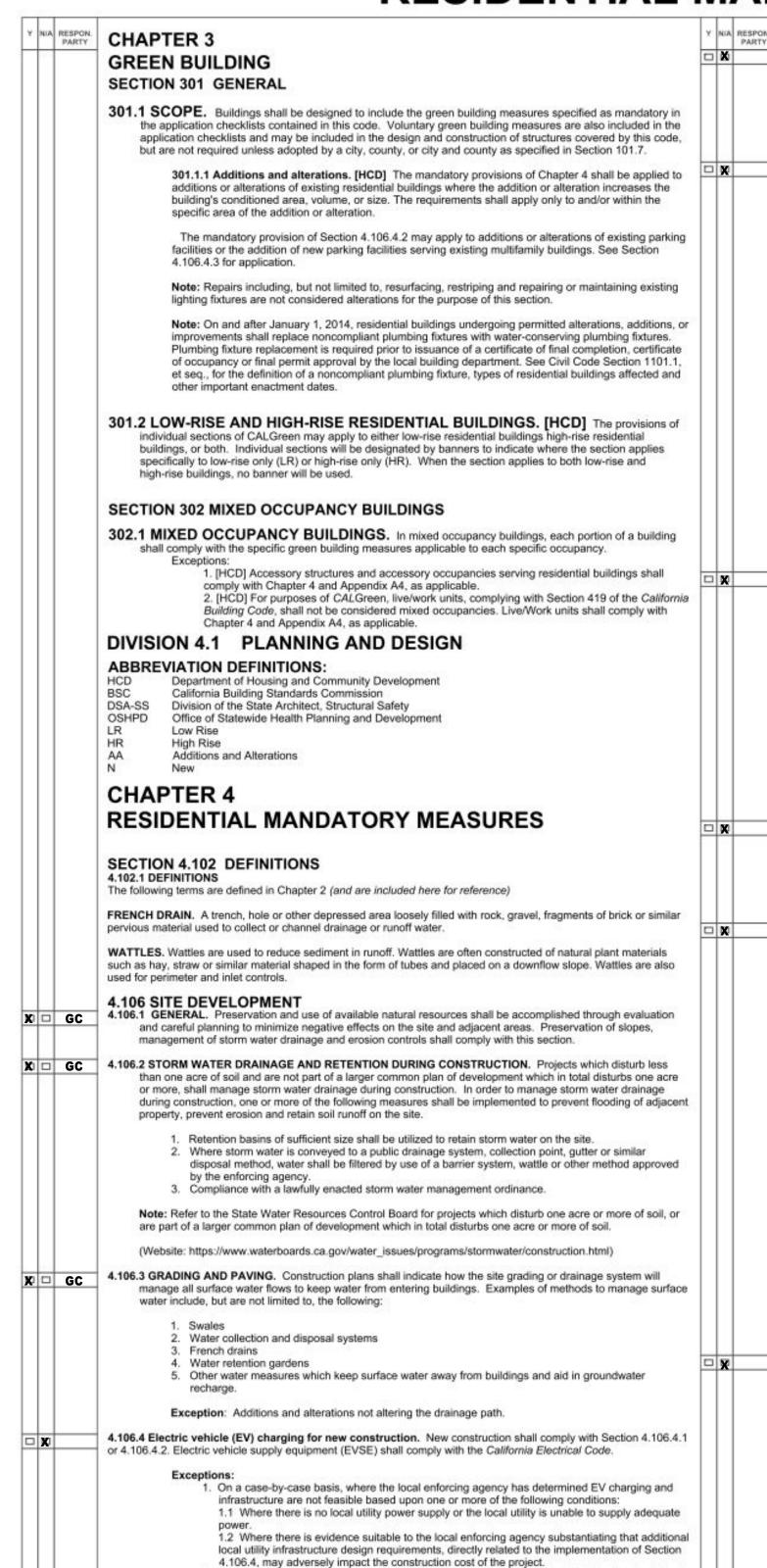
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GREEN CODE



2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional

4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each

dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway

shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main

service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or

concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere

208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit

Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is

installed in close proximity to the proposed location of an EV charger at the time of original construction in

ocation shall be permanently and visibly marked as "EV CAPABLE".

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent

protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination

overcurrent protective device.

accordance with the California Electrical Code.

4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities.
When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the requirements of Section 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as an EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details. 4.106.4.2.1 Reserved 4.106.4.2.2 Multifamily dwellings, hotels and motels 1. EV ready parking spaces with receptacles. a. Hotels and motels. Forty (40) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. b. Multifamily parking facilities. Forty (40) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. EV charging receptacles required by this section shall be located in at least one assigned parking space per dwelling unit where assigned parking is provided but need not exceed forty (40) percent of the total number of assigned parking spaces provided on the site. Exception: Areas of parking facilities served by parking lifts, including but not limited to automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging. c. Receptacle power source. EV charging receptacles in multifamily parking facilities shall be provided with a dedicated branch circuit connected to the dwelling unit's electrical panel, unless determined as infeasible by the project builder or designer and subject to concurrence of the local enforcing agency Exception: Areas of parking facilities served by parking lifts, including but not limited to automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging. d. Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations:

> For 20-ampere receptacles, NEMA 6-20R 2. For 30-ampere receptacles, NEMA 14-30R 3. For 50-ampere receptacles, NEMA 14-50R 2. EV ready parking spaces with EV chargers.

a. Hotels and motels. Ten (10) percent of the total number of parking spaces shall be equipped with Level 2 EV chargers. At least fifty (50) percent of the required EV chargers shall be equipped

b. Multifamily parking facilities. Ten (10) percent of the total number of parking spaces shall be equipped with Level 2 EV chargers. At least fifty (50) percent of the required EV chargers shall be equipped with J1772 connectors. Where common use parking or unassigned parking is provided, EV chargers shall be located in common use or unassigned parking areas and shall be available for use by all residents or guests.

Where low power Level 2 EV charging receptacles or Level 2 EV chargers are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EV chargers shall have a capacity of not

4.106.4.2.2.1 Electric vehicle charging stations (EVCS).

Electric vehicle charging stations required by Section 4.106.4.2.2, Item 2, with EV chargers installed shall

Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable

4.106.4.2.2.1.1 Electric vehicle charging stations (EVCS) spaces with EV chargers installed; dimensions

EVCS spaces shall be designed to comply with the following:

The minimum length of each EVCS space shall be 18 feet (5486 mm). The minimum width of each EVCS space shall be 9 feet (2743 mm).

One in every 25 EVCS spaces, but not less than one, shall also 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 EVCS space is 12 feet (3658 mm). Surface slope for this EVCS space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction. These EVCS spaces shall also comply with at least one of the following:

a. The EVCS space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking b. The EVCS space shall be located on an accessible route, as defined in the California Building Code,

Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1.

4.106.4.2.2.1.2 Accessible electric vehicle charging station spaces.
In addition to the requirements in Section 4.106.4.2.2.1.1, all EV chargers, where installed, shall comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A.

4.106.4.2.3 Reserved.

4.106.4.2.4 Reserved.

4.106.4.2.5 Electric vehicle ready space signage. Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its

4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing Where new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or

altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be EV capable spaces to support future Level 2 electric vehicle supply equipment. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE."

2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future

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DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

CHAPTER 7 TABLE 4.504.2 - SEALANT VOC LIMIT TABLE 4.504.5 - FORMALDEHYDE LIMITS: 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). VOC LIMIT Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 CURRENT LIMIT 250 ARCHITECTURAL HARDWOOD PLYWOOD VENEER CORE 0.05 MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood. MARINE DECK HARDWOOD PLYWOOD COMPOSITE CORE 0.05 PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this NONMEMBRANE ROOF 300 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 MEDIUM DENSITY FIBERBOARD 0.11 product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a). 450 SINGLE-PLY ROOF MEMBRANE THIN MEDIUM DENSITY FIBERBOARD2 REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL SEALANT PRIMERS MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE 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 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 hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). 250 NON-POROUS 775 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 THICKNESS OF 5/16" (8 MM). 500 MODIFIED BITUMINOUS woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, MARINE DECK 760 pellet stoves and fireplaces shall also comply with applicable local ordinances. GC DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) OTHER 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California GC 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final California Specification 01350) startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to See California Department of Public Health's website for certification programs and testing labs. reduce the amount of water, dust or debris which may enter the system https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. X □ GC 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. TABLE 4.504.3 - VOC CONTENT LIMITS FOR 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the ARCHITECTURAL COATINGS23 California Department of Public Health. "Standard Method for the Testing and Evaluation of Volatile Organic requirements of the following standards unless more stringent local or regional air pollution or air quality Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 management district rules apply: GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT (Emission testing method for California Specification 01350) COMPOUNDS Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks See California Department of Public Health's website for certification programs and testing labs. shall comply with local or regional air pollution control or air quality management district rules where COATING CATEGORY VOC LIMIT applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. FLAT COATINGS 50 https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and NON-FLAT COATINGS 100 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. tricloroethylene), except for aerosol products, as specified in Subsection 2 below. NONFLAT-HIGH GLOSS COATINGS 150 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in 703 VERIFICATIONS resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the SPECIALTY COATINGS units of product, less packaging, which do not weigh more than 1 pound and do not consist of more Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," 🕱 🖂 GC than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including ALUMINUM ROOF COATINGS 400 Version 1.2, January 2017 (Emission testing method for California Specification 01350) prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507. BASEMENT SPECIALTY COATINGS 400 See California Department of Public Health's website for certification programs and testing labs. 4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of BITUMINOUS ROOF COATINGS 50 hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories BITUMINOUS ROOF PRIMERS 350 listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss BOND BREAKERS 350 □ GC 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources composite wood products used on the interior or exterior of the buildings shall meet the requirements for Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in CONCRETE CURING COMPOUNDS 350 formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5 CONCRETE/MASONRY SEALERS 100 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR 4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested DRIVEWAY SEALERS 50 Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic by the enforcing agency. Documentation shall include at least one of the following: compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of DRY FOG COATINGS 150 Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Product certifications and specifications. Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation FAUX FINISHING COATINGS 350 Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see FIRE RESISTIVE COATINGS 350 CCR, Title 17, Section 93120, et seq.). 4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the FLOOR COATINGS 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA FORM-RELEASE COMPOUNDS 250 0121, CSA 0151, CSA 0153 and CSA 0325 standards. Manufacturer's product specification. Other methods acceptable to the enforcing agency. GRAPHIC ARTS COATINGS (SIGN PAINTS) Field verification of on-site product containers. 500 HIGH TEMPERATURE COATINGS 420 4.505 INTERIOR MOISTURE CONTROL INDUSTRIAL MAINTENANCE COATINGS 250 TABLE 4.504.1 - ADHESIVE VOC LIMIT 12 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. 120 LOW SOLIDS COATINGS: (Less Water and Less Exempt Compounds in Grams per Liter) GC 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. MASTIC TEXTURE COATINGS 100 INDOOR CARPET ADHESIVES 4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the METALLIC PIGMENTED COATINGS 500 CARPET PAD ADHESIVES MULTICOLOR COATINGS 250 OUTDOOR CARPET ADHESIVES 150 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 a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, WOOD FLOORING ADHESIVES 100 shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, PRIMERS, SEALERS, & UNDERCOATERS 100 RUBBER FLOOR ADHESIVES Other equivalent methods approved by the enforcing agency. REACTIVE PENETRATING SEALERS 350 SUBFLOOR ADHESIVES A slab design specified by a licensed design professional. RECYCLED COATINGS 250 CERAMIC TILE ADHESIVES GC 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage 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 RUST PREVENTATIVE COATINGS moisture content. Moisture content shall be verified in compliance with the following: 250 DRYWALL & PANEL ADHESIVES 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. 70 MULTIPURPOSE CONSTRUCTION ADHESIVE Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end 550 of each piece verified. STRUCTURAL GLAZING ADHESIVES 100 SPECIALTY PRIMERS, SEALERS & At least three random moisture readings shall be performed on wall and floor framing with documentation 100 250 SINGLE-PLY ROOF MEMBRANE ADHESIVES acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. UNDERCOATERS OTHER ADHESIVES NOT LISTED 250 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 510 PVC WELDING SWIMMING POOL COATINGS 340 4.506 INDOOR AIR QUALITY AND EXHAUST CPVC WELDING TRAFFIC MARKING COATINGS 100 GC 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the TUB & TILE REFINISH COATINGS ABS WELDING 420 Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 250 WATERPROOFING MEMBRANES 250 PLASTIC CEMENT WELDING Unless functioning as a component of a whole house ventilation system, fans must be controlled by a 275 ADHESIVE PRIMER FOR PLASTIC WOOD COATINGS WOOD PRESERVATIVES CONTACT ADHESIVE 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 SPECIAL PURPOSE CONTACT ADHESIVE ZINC-RICH PRIMERS A humidity control may be a separate component to the exhaust fan and is not required to be GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & STRUCTURAL WOOD MEMBER ADHESIVE 140 integral (i.e., built-in) EXEMPT COMPOUNDS TOP & TRIM ADHESIVE 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS SUBSTRATE SPECIFIC APPLICATIONS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 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 METAL TO METAL THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS ▼ □ GC 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper

stallation 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 responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.

5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building
- performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade.
- Other programs acceptable to the enforcing agency.
- 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
- 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

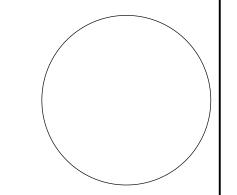
[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

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GREEN CODE

PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD)

> IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

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 STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLE BUILDI

Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

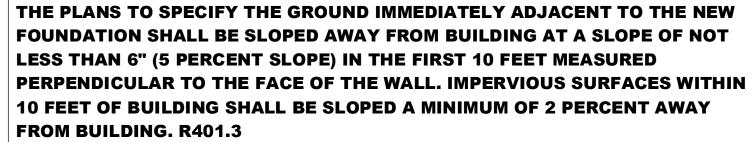
4.507 ENVIRONMENTAL COMFORT
4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

> 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. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.

3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

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

FOUNDATION SHALL BE SLOPED AWAY FROM BUILDING AT A SLOPE OF NOT LESS THAN 6" (5 PERCENT SLOPE) IN THE FIRST 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IMPERVIOUS SURFACES WITHIN 10 FEET OF BUILDING SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY

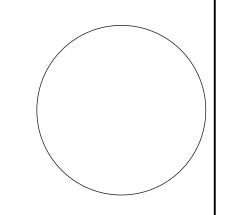




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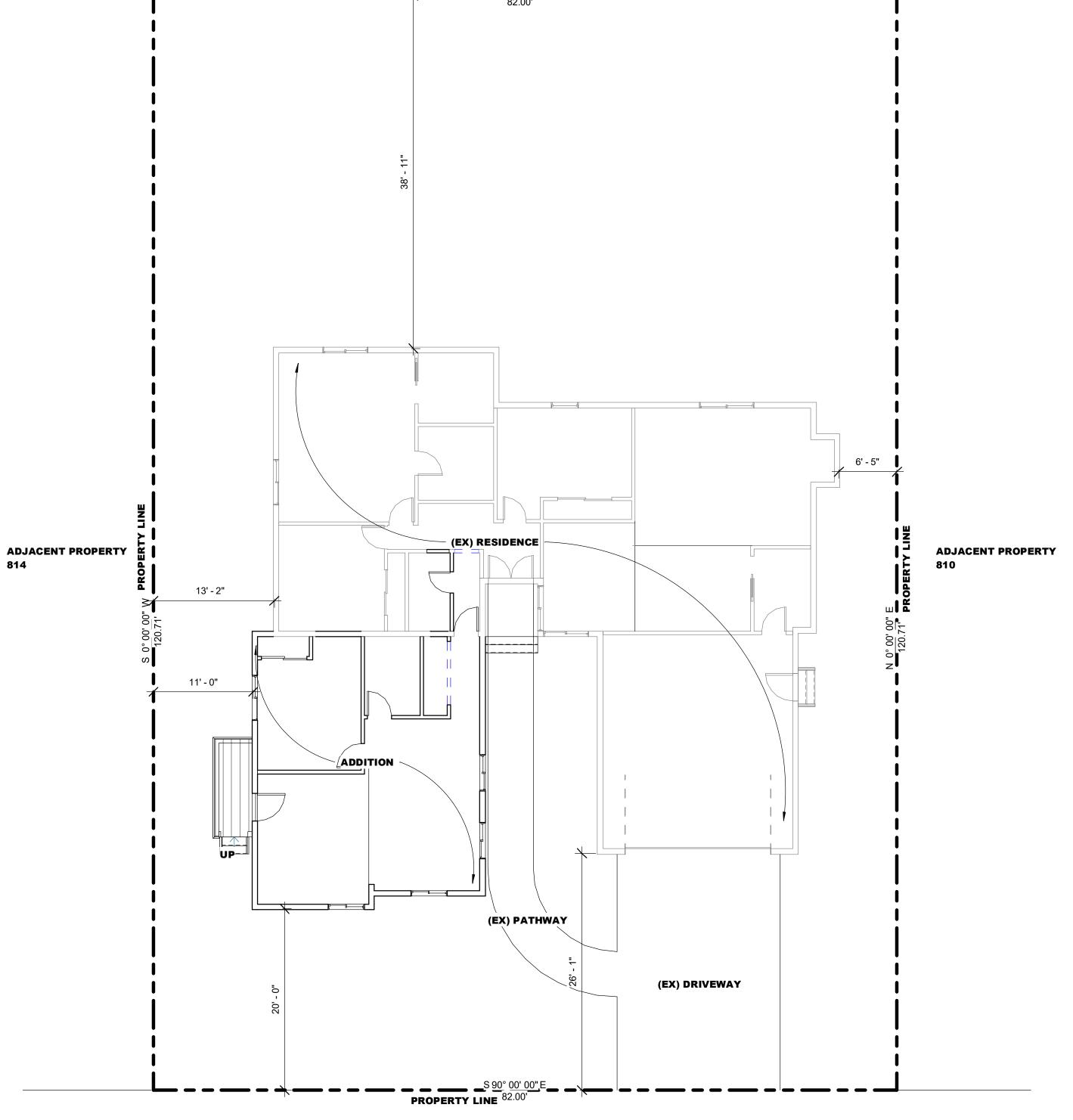
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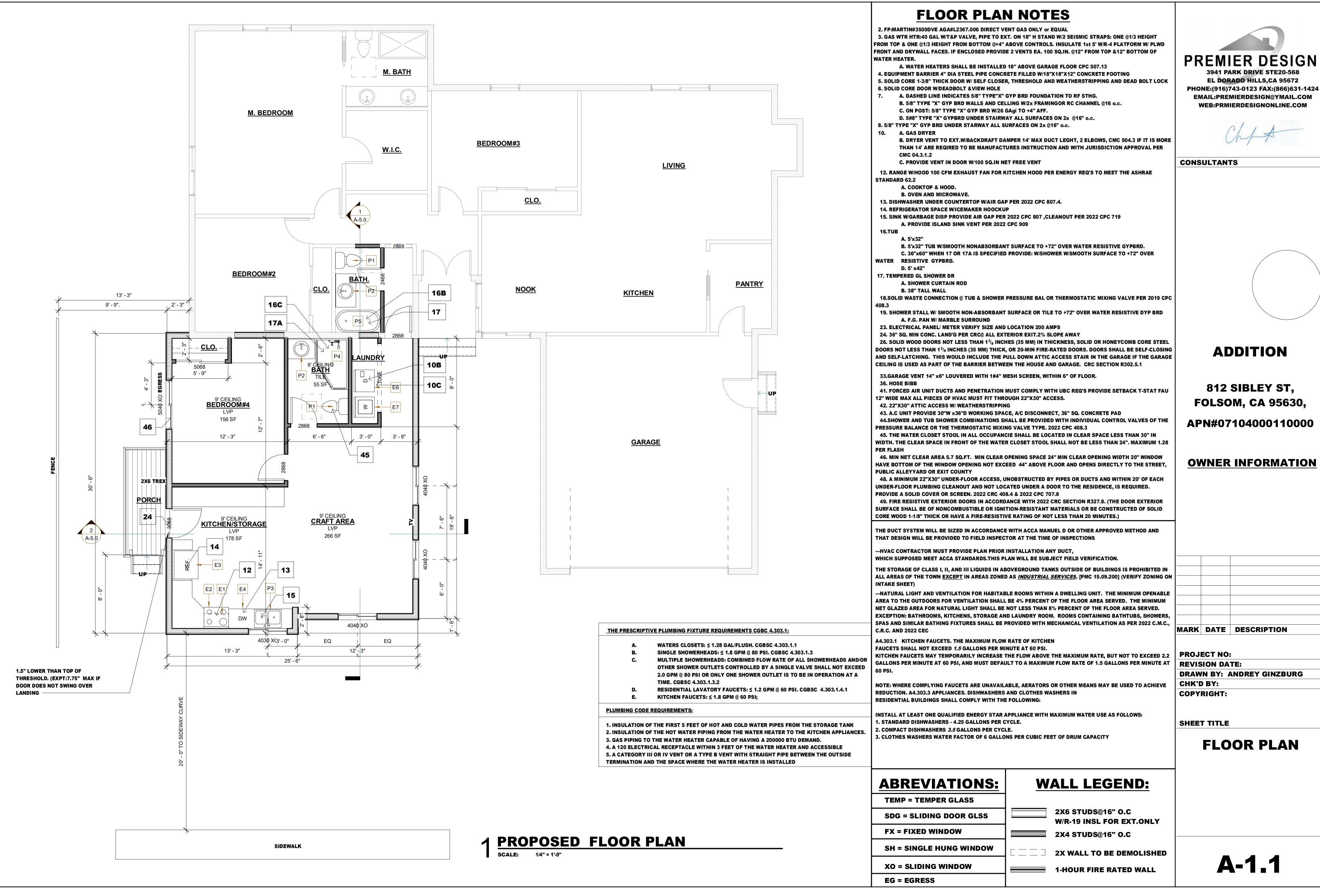
SITE PLAN

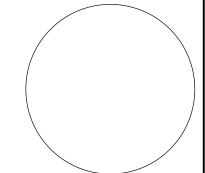


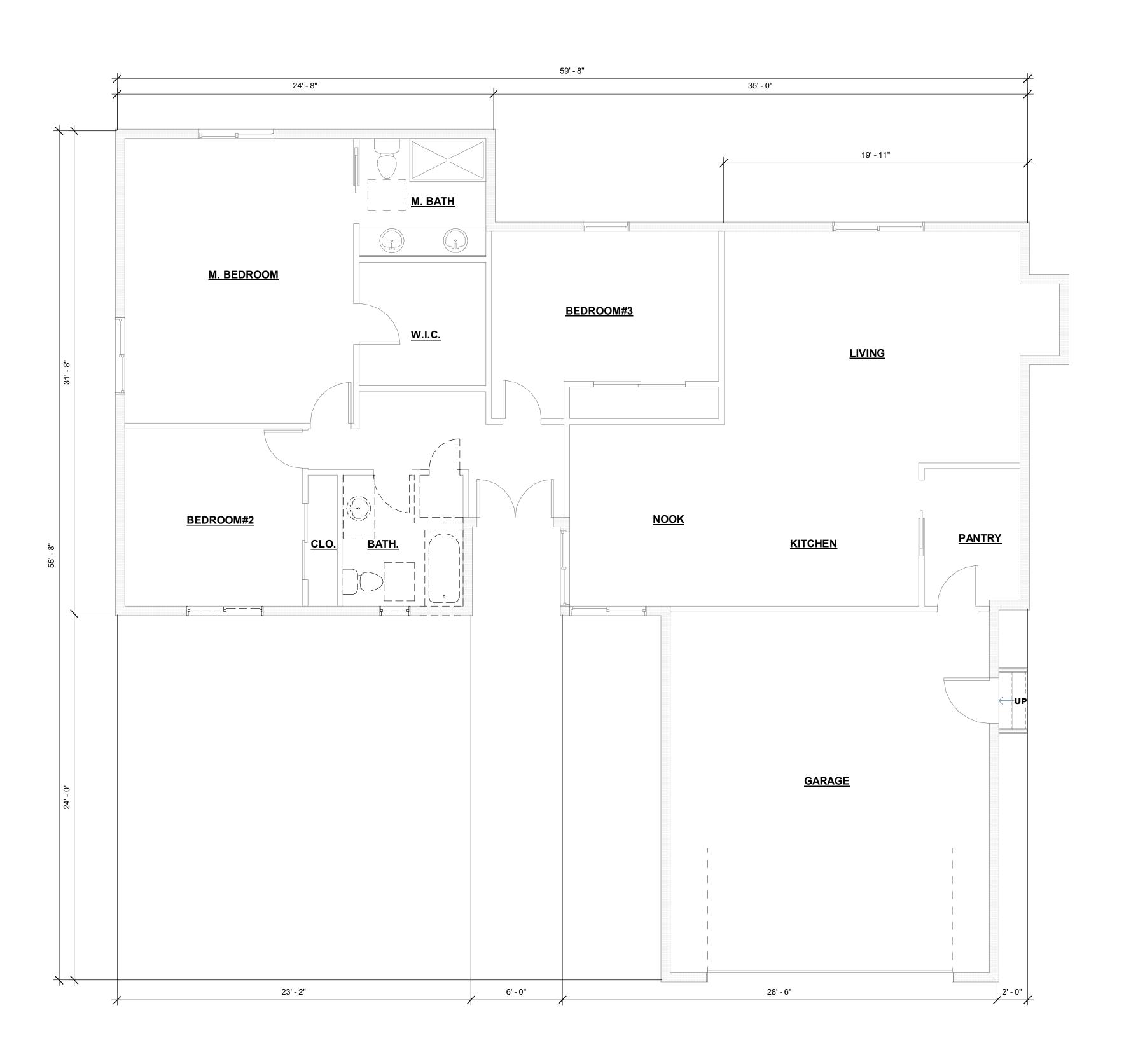


SIBLEY ROAD

SITE PLANSCALE: 1/8" = 1'-0"







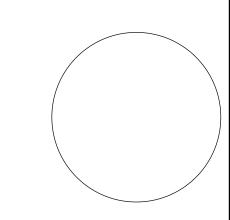
1 EXISTING FLOOR PLAN
SCALE: 1/4" = 1'-0"



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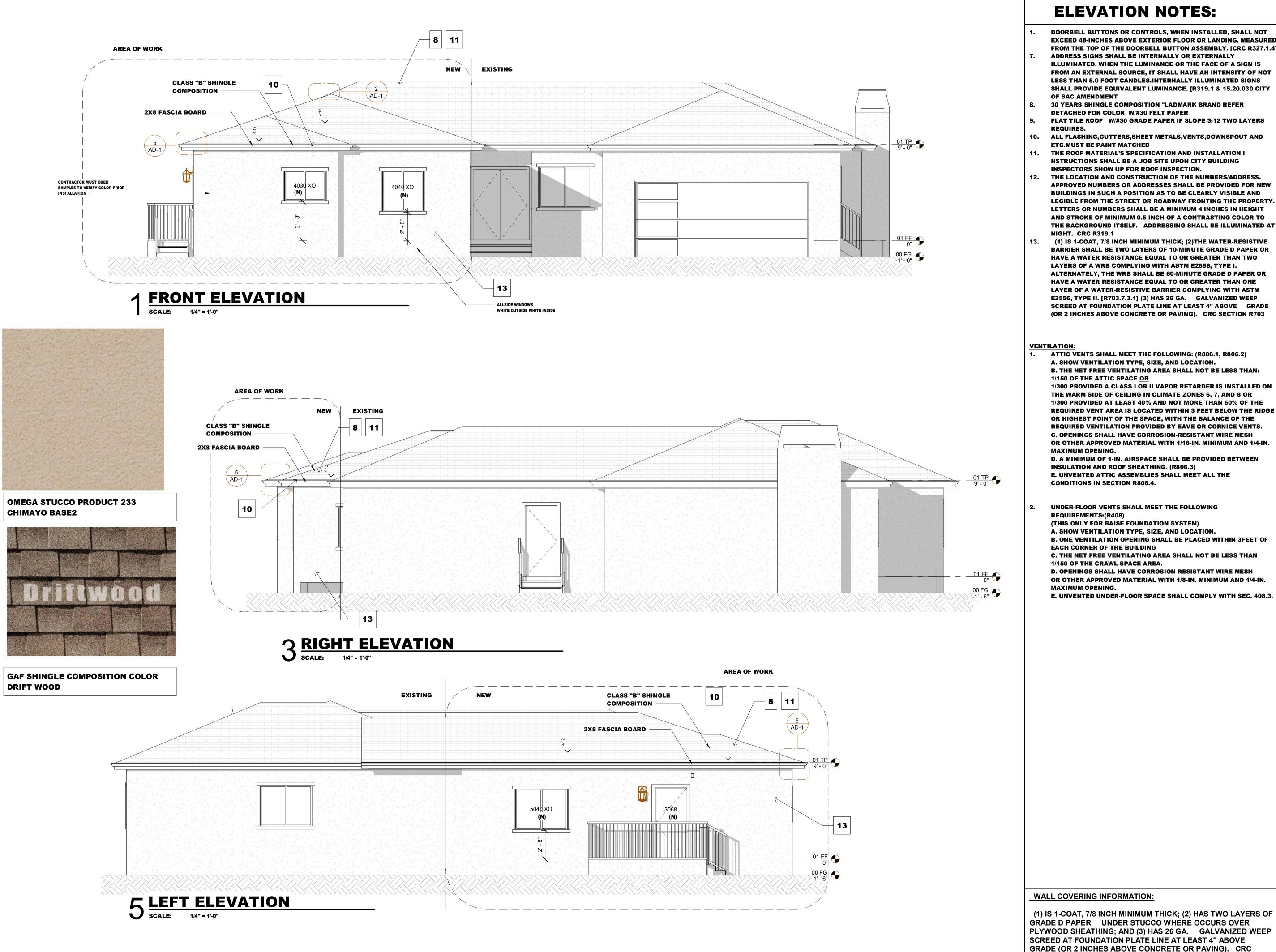
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EXISTING FLOOR PLAN

A-1.2



ELEVATION NOTES:

- DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48-INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. [CRC R327.1.4]
- ADDRESS SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED. WHEN THE LUMINANCE OR THE FACE OF A SIGN IS FROM AN EXTERNAL SOURCE, IT SHALL HAVE AN INTENSITY OF NOT LESS THAN 5.0 FOOT-CANDLES.INTERNALLY ILLUMINATED SIGNS SHALL PROVIDE EQUIVALENT LUMINANCE. [R319.1 & 15.20.030 CITY OF SAC AMENDMENT
- 30 YEARS SHINGLE COMPOSITION "LADMARK BRAND REFER DETACHED FOR COLOR W/#30 FELT PAPER
- FLAT TILE ROOF W/#30 GRADE PAPER IF SLOPE 3:12 TWO LAYERS
- ALL FLASHING, GUTTERS, SHEET METALS, VENTS, DOWNSPOUT AND **ETC.MUST BE PAINT MATCHED**
- THE ROOF MATERIAL'S SPECIFICATION AND INSTALLATION I NSTRUCTIONS SHALL BE A JOB SITE UPON CITY BUILDING INSPECTORS SHOW UP FOR ROOF INSPECTION.
- 12. THE LOCATION AND CONSTRUCTION OF THE NUMBERS/ADDRESS. APPROVED NUMBERS OR ADDRESSES SHALL BE PROVIDED FOR NEW BUILDINGS IN SUCH A POSITION AS TO BE CLEARLY VISIBLE AND LEGIBLE FROM THE STREET OR ROADWAY FRONTING THE PROPERTY. LETTERS OR NUMBERS SHALL BE A MINIMUM 4 INCHES IN HEIGHT AND STROKE OF MINIMUM 0.5 INCH OF A CONTRASTING COLOR TO THE BACKGROUND ITSELF. ADDRESSING SHALL BE ILLUMINATED AT NIGHT. CRC R319.1
- (1) IS 1-COAT, 7/8 INCH MINIMUM THICK; (2)THE WATER-RESISTIVE BARRIER SHALL BE TWO LAYERS OF 10-MINUTE GRADE D PAPER OR HAVE A WATER RESISTANCE EQUAL TO OR GREATER THAN TWO LAYERS OF A WRB COMPLYING WITH ASTM E2556, TYPE I. ALTERNATELY, THE WRB SHALL BE 60-MINUTE GRADE D PAPER OR HAVE A WATER RESISTANCE EQUAL TO OR GREATER THAN ONE LAYER OF A WATER-RESISTIVE BARRIER COMPLYING WITH ASTM E2556, TYPE II. [R703.7.3.1] (3) HAS 26 GA. GALVANIZED WEEP SCREED AT FOUNDATION PLATE LINE AT LEAST 4" ABOVE GRADE (OR 2 INCHES ABOVE CONCRETE OR PAVING). CRC SECTION R703

VENTILATION:

SECTION R703

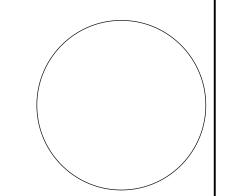
- ATTIC VENTS SHALL MEET THE FOLLOWING: (R806.1, R806.2) A. SHOW VENTILATION TYPE, SIZE, AND LOCATION. B. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN: 1/150 OF THE ATTIC SPACE OR
 - 1/300 PROVIDED A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM SIDE OF CEILING IN CLIMATE ZONES 6, 7, AND 8 OR 1/300 PROVIDED AT LEAST 40% AND NOT MORE THAN 50% OF THE REQUIRED VENT AREA IS LOCATED WITHIN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. C. OPENINGS SHALL HAVE CORROSION-RESISTANT WIRE MESH OR OTHER APPROVED MATERIAL WITH 1/16-IN. MINIMUM AND 1/4-IN. **MAXIMUM OPENING.**
 - D. A MINIMUM OF 1-IN. AIRSPACE SHALL BE PROVIDED BETWEEN **INSULATION AND ROOF SHEATHING. (R806.3)** E. UNVENTED ATTIC ASSEMBLIES SHALL MEET ALL THE **CONDITIONS IN SECTION R806.4.**
- **UNDER-FLOOR VENTS SHALL MEET THE FOLLOWING**
 - **REQUIREMENTS:(R408)** (THIS ONLY FOR RAISE FOUNDATION SYSTEM) A. SHOW VENTILATION TYPE, SIZE, AND LOCATION. B. ONE VENTILATION OPENING SHALL BE PLACED WITHIN 3FEET OF **EACH CORNER OF THE BUILDING**
 - C. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE CRAWL-SPACE AREA. D. OPENINGS SHALL HAVE CORROSION-RESISTANT WIRE MESH OR OTHER APPROVED MATERIAL WITH 1/8-IN. MINIMUM AND 1/4-IN.
 - E. UNVENTED UNDER-FLOOR SPACE SHALL COMPLY WITH SEC. 408.3.



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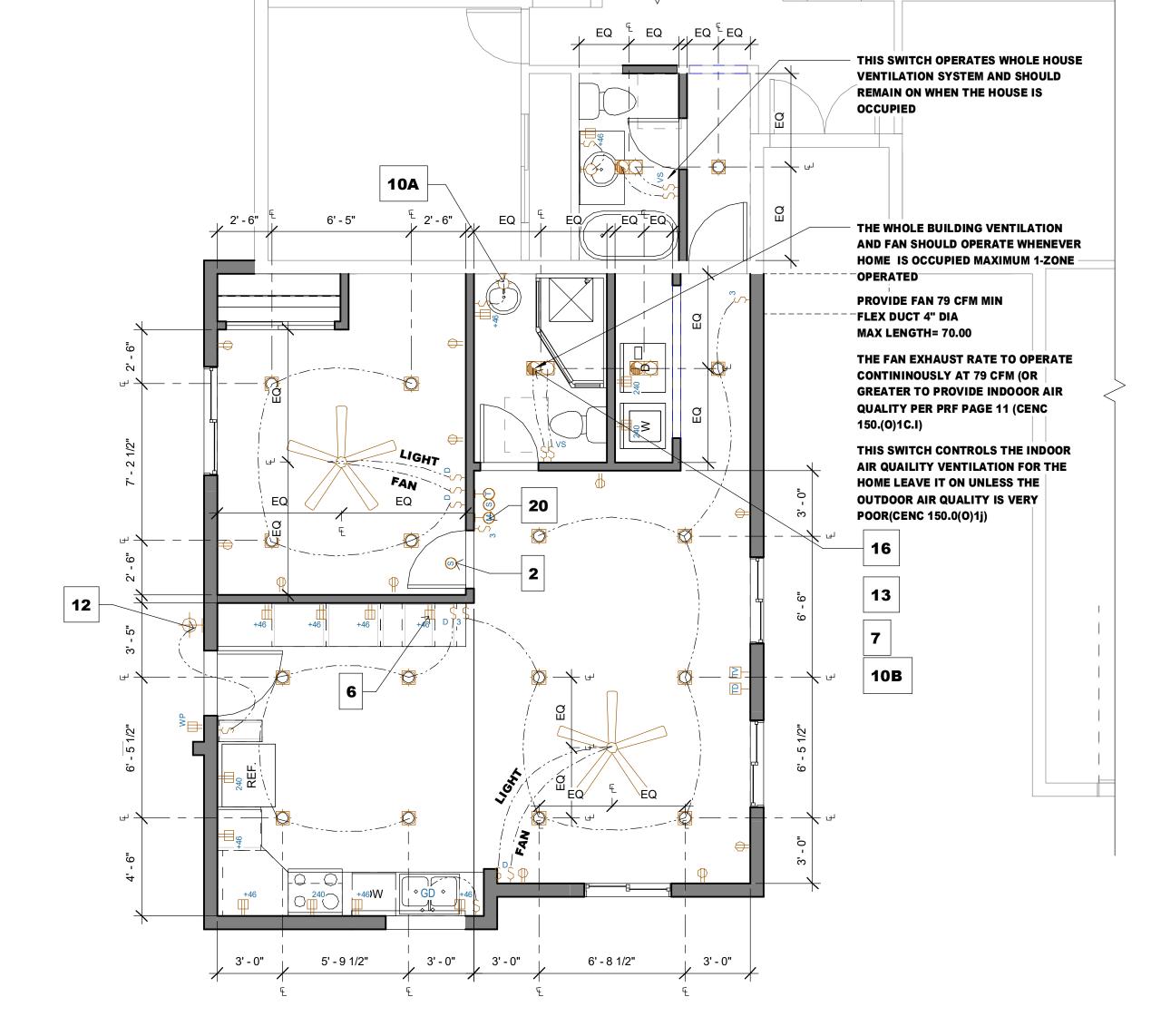
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ELEVATION

A-2.1

ALL LIGHTS MUST BE **HIGH EFFICANCY**

ALL INTERIOR RECEPTACLES MUST BE ARC-FAULT CIRCUIT-INTERRUPTER



1 FLOOR ELECT. PLAN AND RCP SCALE: 1/4" = 1'-0"

2 TYP. INSTALL HEIGHTS
SCALE: 3/8" = 1'-0"

NOTE: ALL HEIGHTS TYPICAL UNLESS OTHERWISE NOTED

CABINET

CONVINENCE OUTLET,

CONVINENCE OUTLET,

THE DRAWER, CABINET OR LINEN CLOSET IS CLOSED.

TV, OR PHONE

TITLE 24 REQUIREMENTS:

; 150.0(K)1B: BLANK ELECTRICAL BOXES. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT

§ 150.0(K)1A: LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES MUST MEET THE REQUIREMENTS IN TABLE 150.0-A.

CONTAIN A LUMINAIRE OR OTHER DEVICE MUST BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER. VACANCY SENSOR CONTROL. OR FAN SPEED CONTROL.

§ 150.0(K)1C: RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS. LUMINAIRES RECESSED INTO CEILINGS MUST MEET ALL OF THE REQUIREMENTS FOR:

INSULATION CONTACT (IC) LABELING; AIR LEAKAGE; SEALING; MAINTENANCE; AND SOCKET AND LIGHT SOURCE AS DESCRIBED IN § 150.0(K)1C. § 150.0(K)1D: ELECTRONIC BALLASTS FOR FLUORESCENT LAMPS. BALLASTS FOR FLUORESCENT LAMPS RATED 13 WATTS OR GREATER MUST BE

; 150.0(K)1E: NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS. NIGHT LIGHTS, STEP LIGHTS AND PATH LIGHTS ARE NOT REQUIRED TO COMPLY WITH TABLE 150.0-A OR BE CONTROLLED BY VACANCY SENSORS PROVIDED THEY ARE RATED TO CONSUME NO MORE THAN 5 WATTS OF POWER AND EMIT NO MORE

§ 150.0(K)1F: LIGHTING INTEGRAL TO EXHAUST FANS. LIGHTING INTEGRAL TO EXHAUST FANS (EXCEPT WHEN INSTALLED BY THE MANUFACTURER IN KITCHEN EXHAUST HOODS) MUST MEET THE APPLICABLE REQUIREMENTS OF § 150.0(K).*

§ 150.0(K)1G: SCREW BASED LUMINAIRES. SCREW BASED LUMINAIRES MUST CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8.*§

§ 150.0(K)11: LIGHT SOURCES IN DRAWERS, CABINETS, AND LINEN CLOSETS. LIGHT SOURCES INTERNAL TO DRAWERS, CABINETRY OR LINEN CLOSETS ARE OF POWER AS DETERMINED ACCORDING TO § 130.0(C).

§ 150.0(K)2A: INTERIOR SWITCHES AND CONTROLS. ALL FORWARD PHASE CUT DIMMERS USED WITH LED LIGHT SOURCES MUST COMPLY WITH NEMA SSL

§ 150.0(K)2B: INTERIOR SWITCHES AND CONTROLS. EXHAUST FANS MUST BE CONTROLLED SEPARATELY FROM LIGHTING SYSTEMS.

§ 150.0(K)2D: INTERIOR SWITCHES AND CONTROLS. CONTROLS AND EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S

CONTROL IS INSTALLED TO COMPLY WITH § 150.0(K). § 150.0(K)2F: INTERIOR SWITCHES AND CONTROLS. LIGHTING CONTROLS MUST COMPLY WITH THE APPLICABLE REQUIREMENTS OF § 110.9.

§ 150.0(K)2G: INTERIOR SWITCHES AND CONTROLS. AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE USED TO COMPLY WITH CONTROL REQUIREMENTS IF IT: PROVIDES FUNCTIONALITY OF THE SPECIFIED CONTROL ACCORDING TO § 110.9; MEETS THE INSTALLATION CERTIFICATE EQUIREMENTS OF § 130.4; MEETS THE EMCS REQUIREMENTS OF § 130.0(E); AND MEETS ALL OTHER REQUIREMENTS IN § 150.0(K)2.

§ 150.0(K)2H: INTERIOR SWITCHES AND CONTROLS. A MULTISCENE PROGRAMMABLE CONTROLLER MAY BE USED TO COMPLY WITH DIMMER REQUIREMENTS PATHWAY RESERVED FOR ROUTING OF CONDUIT FROM THE SOLAR ZONE TO THE POINT OF INTERCONNECTION WITH THE ELECTRICAL SERVICE; AND FOR SINGLE FAMILY IN § 150.0(K) IF IT PROVIDES THE FUNCTIONALITY OF A DIMMER ACCORDING TO § 110.9, AND COMPLIES WITH ALL OTHER APPLICABLE REQUIREMENTS IN § RESIDENCES AND CENTRAL WATER-HEATING SYSTEMS, A PATHWAY RESERVED FOR ROUTING PLUMBING FROM THE SOLAR ZONE TO THE WATER-HEATING SYSTEM.

MUST BE CONTROLLED BY AN OCCUPANT SENSOR OR A VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. IF AN OCCUPANT SENSOR IS INSTALLED, IT MUST BE INITIALLY CONFIGURED TO MANUAL-ON OPERATION USING THE MANUAL CONTROL REQUIRED UNDER SECTION 150.0(K)2C.

§ 150.0(K)2K:INTERIOR SWITCHES AND CONTROLS. UNDER CABINET LIGHTING MUST BE CONTROLLED SEPARATELY FROM CEILING-INSTALLED LIGHTING SYSTEMS. § 150.0(K)3A:RESIDENTIAL OUTDOOR LIGHTING. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING, OF TO OTHER BUILDINGS ON THE SAME LOT, MUST MEET THE REQUIREMENT IN ITEM § 150.0(K)3AI (ON AND OFF SWITCH) AND THE REQUIREMENTS IN EITHER § 150.0(K)3AII PHOTOCELL AND EITHER A MOTION SENSOR OR AUTOMATIC TIME SWITCH CONTROL) OR § 150.0(K)3AIII (ASTRONOMICAL TIME CLOCK). OR AN EMCS.

§ 150.0(K)3B:RESIDENTIAL OUTDOOR LIGHTING. FOR LOW-RISE RESIDENTIAL BUILDINGS WITH FOUR OR MORE DWELLING UNITS, OUTDOOR LIGHTING FOR PRIVATE PATIOS, ENTRANCES, BALCONIES, AND PORCHES; AND RESIDENTIAL PARKING LOTS AND CARPORTS WITH LESS THAN EIGHT VEHICLES PER SITE MUST COMPLY WITH EITHER SECTION 150.0(K)3A OR WITH THE APPLICABLE REQUIREMENTS IN SECTIONS 110.9, 130.0, 130.2, 130.4, 140.7 AND 141.0.

§ 150.0(K)3C:RESIDENTIAL OUTDOOR LIGHTING. FOR LOW-RISE RESIDENTIAL BUILDINGS WITH FOUR OR MORE DWELLING UNITS, ANY OUTDOOR LIGHTING FOR RESIDENTIAL 150.0(K)1H: LIGHT SOURCES IN ENCLOSED OR RECESSED LUMINAIRES. LAMPS AND OTHER SEPARABLE LIGHT SOURCES THAT ARE NOT COMPLIANT WITH A TOTAL OF EIGHT OR MORE VEHICLES PER SITE AND ANY OUTDOOR LIGHTING NOT REGULATED BY SECTION 150.0(K)3B OR SECTION 150.0(K)3D MUST COMPLY WITH THE APPLICABLE REQUIREMENTS IN SECTIONS 110.9, 130.0, 130.2, 130.4, 140.7 AND 141.0. § 150.0(K)4:INTERNALLY ILLUMINATED ADDRESS SIGNS. INTERNALLY ILLUMINATED ADDRESS SIGNS MUST COMPLY WITH § 140.8; OR MUST CONSUME NO MORE THAN 5 WATTS

NOT REQUIRED TO COMPLY WITH TABLE 150.0-A OR BE CONTROLLED BY VACANCY SENSORS PROVIDED THAT THEY ARE RATED TO CONSUME NO MORE \$ 150.0(K)5:RESIDENTIAL GARAGES FOR EIGHT OR MORE VEHICLES. LIGHTING FOR RESIDENTIAL PARKING GARAGES FOR EIGHT OR MORE VEHICLES MUST COMPLY WITH THE THAN 5 WATTS OF POWER, EMIT NO MORE THAN 150 LUMENS, AND ARE EQUIPPED WITH CONTROLS THAT AUTOMATICALLY TURN THE LIGHTING OFF WHEN APPLICABLE REQUIREMENTS FOR NONRESIDENTIAL GARAGES IN SECTIONS 110.9, 130.0, 130.1, 130.4, 140.6, AND 141.0.§ 150.0(K)6A:INTERIOR COMMON AREAS OF LOW-RISE MULTIFAMILY RESIDENTIAL BUILDINGS. IN A LOW-RISE MULTIFAMILY RESIDENTIAL BUILDING WHERE THE TOTAL INTERIOR COMMON AREA IN A SINGLE BUILDING EQUALS 20 PERCENT OR LESS OF THE FLOOR AREA, PERMANENTLY INSTALLED LIGHTING FOR THE INTERIOR COMMON AREAS IN THAT BUILDING MUST BE COMPLY WITH TABLE 150.0-A AND

§ 150.0(K)6B:INTERIOR COMMON AREAS OF LOW-RISE MULTIFAMILY RESIDENTIAL BUILDINGS. IN A LOW-RISE MULTIFAMILY RESIDENTIAL BUILDING WHERE THE TOTAL INTERIOR COMMON AREA IN A SINGLE BUILDING EQUALS MORE THAN 20 PERCENT OF THE FLOOR AREA. PERMANENTLY INSTALLED LIGHTING FOR THE INTERIOR COMMON CORRIDORS AND STAIRWELLS MUST BE CONTROLLED BY OCCUPANT SENSORS THAT REDUCE THE LIGHTING POWER IN EACH SPACE BY AT LEAST 50 PERCENT. THE OCCUPAN

ENSORS MUST BE CAPABLE OF TURNING THE LIGHT FULLY ON AND OFF FROM ALL DESIGNED PATHS OF INGRESS AND EGRESS § 150.0(K)2E: INTERIOR SWITCHES AND CONTROLS. CONTROLS MUST NOT BYPASS A DIMMER, OCCUPANT SENSOR, OR VACANCY SENSOR FUNCTION IF THE § 110.10(B)3B:SHADING. ANY OBSTRUCTION LOCATED ON THE ROOF OR ANY OTHER PART OF THE BUILDING THAT PROJECTS ABOVE A SOLAR ZONE MUST BE LOCATED AT LEAST TWICE THE DISTANCE, MEASURED IN THE HORIZONTAL PLANE, OF THE HEIGHT DIFFERENCE BETWEEN THE HIGHEST POINT OF THE OBSTRUCTION AND THE HORIZONTAL PROJECTION OF THE NEAREST POINT OF THE SOLAR ZONE, MEASURED IN THE VERTICAL PLANE.*

> § 110.10(B)4:STRUCTURAL DESIGN LOADS ON CONSTRUCTION DOCUMENTS. FOR AREAS OF THE ROOF DESIGNATED AS A SOLAR ZONE, THE STRUCTURAL DESIGN LOADS FOR ROOF DEAD LOAD AND ROOF LIVE LOAD MUST BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS § 110.10(C):INTERCONNECTION PATHWAYS. THE CONSTRUCTION DOCUMENTS MUST INDICATE: A LOCATION RESERVED FOR INVERTERS AND METERING EQUIPMENT AND A

HAVE A PHOTOVOLTAIC SYSTEM INSTALLED MUST COMPLY WITH THE REQUIREMENTS OF § 110.10(B) § 110.10(B)1:MINIMUM SOLAR ZONE AREA. THE SOLAR ZONE MUST HAVE A MINIMUM TOTAL AREA AS DESCRIBED BELOW. THE SOLAR ZONE MUST COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED IN TITLE 24. PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY A LOCAL JURISDICTION. THE SOLAR ZONE TOTAL AREA MUST BE

§ 110.10(D):DOCUMENTATION, A COPY OF THE CONSTRUCTION DOCUMENTS OR A COMPARABLE

DOCUMENT INDICATING THE INFORMATION FROM § 110.10(B) THROUGH § 110.10(C) MUST BE

§ 110.10(E)1:MAIN ELECTRICAL SERVICE PANEL. THE MAIN ELECTRICAL SERVICE PANEL MUST HAVE A

§ 110.10(E)2:MAIN ELECTRICAL SERVICE PANEL. THE MAIN ELECTRICAL SERVICE PANEL MUST HAVE A

FUTURE SOLAR ELECTRIC INSTALLATION. THE RESERVED SPACE MUST BE PERMANENTLY MARKED AS

§ 110.10(A)1:SINGLE FAMILY RESIDENCES. SINGLE FAMILY RESIDENCES LOCATED IN SUBDIVISIONS WITH

TEN OR MORE SINGLE FAMILY RESIDENCES AND WHERE THE APPLICATION FOR A TENTATIVE

WITH THE REQUIREMENTS OF § 110.10(B) THROUGH § 110.10(E).

SUBDIVISION MAP FOR THE RESIDENCES HAS BEEN DEEMED COMPLETE AND APPROVED BY THE

ENFORCEMENT AGENCY, WHICH DO NOT HAVE A PHOTOVOLTAIC SYSTEM INSTALLED, MUST COMPL'

§ 110.10(A)2:LOW-RISE MULTIFAMILY BUILDINGS. LOW-RISE MULTI-FAMILY BUILDINGS THAT DO NOT

RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A

PROVIDED TO THE OCCUPANT

"FOR FUTURE SOLAR ELECTRIC".

COMPRISED OF AREAS THAT HAVE NO DIMENSION LESS THAN 5 FEET AND ARE NO LESS THAN 80 SQUAR FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO 10,000 SQUARE FEET OR NO FEET. FOR SINGLE FAMILY RESIDENCES, THE SOLAR ZONE MUST BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA NO LESS THAN 250 SQUARE FEET. FOR LOW-RIS MULTI-FAMILY BUILDINGS THE SOLAR ZONE MUST BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING, OR ON THE ROOF OR OVERHANG OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE BUILDING, OR ON COVERED PARKING INSTALLED WITH THE BUILDING PROJECT, AND HAVE A TOTAL AREA NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHT AREA. THE SOLAR ZONE REQUIREMENT IS APPLICABLE TO THE ENTIRE BUILDING, INCLUDING

§ 110.10(B)2:AZIMUTH. ALL SECTIONS OF THE SOLAR ZONE LOCATED ON STEEP-SLOPED ROOFS MUST B ORIENTED BETWEEN 90 DEGREES AND 300 DEGREES OF TRUE NORTH. § 110.10(B)3A:SHADING. THE SOLAR ZONE MUST NOT CONTAIN ANY OBSTRUCTIONS, INCLUDING BUT NO LIMITED TO: VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, AND ROOF MOUNTED EQUIPMENT.

ELECTRICAL PLAN NOTES:

1. 20-amp CIRCUIT TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY OTHER RECEPTACLES, LIGHTS, FANS ETC 2022 CEC SECTION 210-52 2. THE SMOKE DETECTOR WITH BATTERY BACKUP (WHICH ARE AUDIBLE IN ALL SLEEPING AREA) AT THE

A. ALL BEDROOMS B. CENTRALLY LOCATED IN CORRIDOR AND HALLWAYS LEADING TO BEDROOMS.

C. ABOVE TOP OF STAIRS D. AT LEAST ONE AT EVERY LEVEL AS PER 2022 CRC. SEC. 314.3

. RECEPTACLES INSTALLED OUTDOORS PROTECTED FROM THE WEATHER OR IN OTHER DAMP LOCATION, MUST BE INSTALL IN A WATERPROOF ENCLOSURE WHEN THE ATTACHMENT PLUG CAP IS NOT INSERTED AND THE RECEPTACLE COVER IS CLOSED AS PER 2022 CEC

4. ONE WALL RECEPTACLE OUTLET SHALL BE GFCI INSTALLED IN BATHROOM WITHIN 36" OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL THAT IS ADJACENT TO THE BASIN LOCATION AS PER 2022 CEC SEC.210.52(D) . FIXTURES,LAMP HOLDERS AND RECEPTACLES SHALL BE SECURELY SUPPORTED. A FIXTURE THAT VEIGHTS MORE THAN 6 POUNDS OR EXCEED 16" IN ANY DIM SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER AS PER 2022 CEC SEC. 410.30 OUTLET BOXES SHALL NOT BE USED AS THE

SOLE SUPPORT FOR CEILING (PADDLE) FANS AS PER 2022 CEC SEC.370 6. PROVIDE TWO OR MORE 20-AMP SMALL APPLIANCE BRANCH CIRCUIT EVENLY PROPORTIONED IN THE KITCHEN.PANTRY. BREAKFAST ROOM. DINING ROOM OR SIMILAR AREA.SUCHCIRCUITS SHALL HAVE NO OTHER OUTLETS AS PER 2022 CEC SEC 210-52(B) AND 210-52(C) 7. LIGHT FIXTURES IN TUB OR SHOWER ENCLOSURES WITH LABEL "SUITABLE FOR DAMP LOCATIONS" AS

B. SEISMIC ANCHORAGE OF WATER HEATER TO INCLUDE ANCHORS OR STRAPS TO POINTS WITHIN THE UPPER AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSION THE LOWER ANCHOR/STRAP LOCATED TO MAINTAIN A MINIMUM DISTANCE OF 4" ABOVE THE CONTROLS.PER 2022 CPC 507.2 9. ARC-FAULT CIRCUIT-INTERRUPTER AS REQUIRED IN 2022 CEC ARTICLE $\,$ 210.12 .

A. A MINIMUM OF ONE (1) HE LUMINAIRE IS TO BE INSTALLED IN EACH BATHROOM. ALL OTHER LIGHTING IN

B. ALL LIGHTING IN GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HE LUMINAIRES AND CONTROLLED BY VACANCY SENSORS. I.E. MANUAL ON, AUTOMATIC OFF. REFERENCE 2022 CA ENERGY

11. FOR ALL OTHER ROOMS (ANY ROOM THAT IS NOT A KITCHEN, BATHROOM, GARAGE, LAUNDRY ROOM, OR UTILITY ROOM) ALL HARDWIRED LIGHTING MUST BE HIGH EFFICACY, AND CONTROLLED BY VACANCY (MANUAL-ON OCCUPANT) SENSOR. OR CONTROLLED BY A DIMMER. (ENERGY STANDARDS) 12. ALL OUTDOOR LIGHTING ATTACHED TO BUILDINGS MUST BE HIGH EFFICACY, OR CONTROLLED BY A NOTION SENSOR IN ADDITION TO ONE OF THE FOLLOWING METHODS: PHOTO CONTROL NOT HAVING AN OVERRIDE OR BYPASS SWITCH; OR ASTRONOMICAL TIME CLOCK NOT HAVING AN OVERRIDE OR BYPASS

SWITCH; OR AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) NOT HAVING AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINAIRE TO ALWAYS BE ON. (ENERGY STANDARDS) 13. THE EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LUMINAIRES OR SHALL BE PROVIDED WITH TIMER SWITCH. 14.RECESSED LUMINAIRES INSTALLED IN INSULATED CEILINGS SHALL BE UL LISTED AS IC RATED AND

CERTIFIED AIRTIGHT. (ENERGY STANDARDS) 5. ALL 125-VOLT, 15-, AND 20- AMPERE RECEPTACLES SPECIFIED IN CEC ARTICLE 210.52 SHALL BE LISTE AMPER-RESISTANT RECEPTACLES. 2022 CEC 406.12 16. ALL EXHAUST DUCTING FROM FANS AND DRYER SHALL BE EQUIPPED WITH LISTED BACK DRAFT

DAMPER AT OUTSIDE TERMINATION. 2022 CMC 504.3 17 LIGHT FIXTURES IN CLOTHES CLOSET SHALL COMPLY (LUMINAIRES ARE HIGH EFFICACY LUMINARIES 12" MINIMUM CLEARANCE, FLUORESCENT LUMINARIES 6" MIN. CLEARANCE, RECESSED LUMINARIES). 2022 CEC 410.16

18. SPECIFY SMOOTH 4" min dia METAL DUCT FOR DRYER EXHAUST EXTENDING TO OUTSIDE WITH BACK DRAFT DAMPER THIS DUCT SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH EXCESS OF TWO. IT APPEARS DRYER VENT EXCEEDS THE TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14' INCLUDING TWO 90-DEGREE ELBOWS.CLOTHES DRYER VENT. 2022 CMC 504.3, 504.3.1.2 19.15- AND 20-AMPERE RECEPTACLES IN A WET LOCATION. 15-AND 20-AMPERE, 125- AND 250-VOLT RECEPTACLES INSTALLED IN AWET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. OR OTHER THAN ONE- OR TWO-FAMILY WELLINGS. AN OUTLET BOX HOOD INSTALL FOR THIS PURPOSE SHALL BE II TED, AND WHERE INSTALLED ON ENCLOSURE SUPPORTED FROM GRADE AS DESCRIBED IN 314.23(8) 0 AS DESCRIBED IN 314.23(F) SHALL

BE IDENTIFIED AS EXTRA-DUTY.'ALL 15- AND 20-AMPERE, 125- AND 250-VOLT NONLOCKING-TYPE RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT TYPE. PER CEC 406.8. 20. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE EDROOM(S): ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. CARBON MONOXIDE ALARMS

COMBINED WITH SMOKE ALARMS SHALL COMPLY WITH SECTION R315. ALL APPLICABLE STANDARDS. AND

REQUIREMENTS FOR LISTING AND APPROVAL BY THE OFFICE OF THE STATE FIRE MARSHAL, FOR SMOKE DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET. BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL ND/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. THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE EVERCURRENT 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". CGBSC 4.106.4.1

A. AT LEAST ONE RECEPTACLE SHALL BE INSTALLED IN BATHROOMS WITHIN THREE FEET OF EACH SINK. THE RECEPTACLE SHALL BE INSTALLED ON THE WALL OR PARTITION ADJACENT TO THE SINK, INCHES BELOW THE TOP. CEC 210.52(D)

B. LIGHTING FIXTURES LOCATED WITHIN 3 FEET HORIZONTALLY AND 8 FEET VERTICALLY OF THE

BATHTUB RIM OR SHOWER STALL THRESHOLD SHALL BE LISTED FOR A DAMP LOCATION, OR LISTED FOR WET LOCATIONS WHERE SUBJECT TO SHOWER SPRAY. CEC 410.10

SYSTEM (ESS) READY IN ACCORDANCE WITH 2022 CALIFORNIA ENERGY CODE 150.0(S): A) SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION TRANSFER SWITCH WITHIN 3' OF THE MAIN PANELBOARD.

B) RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPM TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE. C) AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED: (1) INTERCONNECTION EQUIPMENT WITH A

BACKED-UP CAPACITY OF 60 AMPS, OR (2) A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A SUBPANEL THAT SUPPLIES THE BRANCH CIRCUITS. ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT

1 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPAN SHALL INCLUDE ALL BACKED-UP LOAD CIRCUITS." D) A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED FEEDING: REFRIGERATOR, ONE LIGHTING

THE PRIMARY EGRESS, A SLEEPING ROOM OUTLET AND ONE OTHER.

MBINATION ALARMS. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF MOKE ALARMS. SYSTEMS AND COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHAL LISTED AND APPROVED IN ACCORDANCE WITH

CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1 FOR THE

PURPOSE FOR WHICH THEY ARE INSTALLED PER CRC314.5 WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.PER

ARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED. SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVER CURRENT PROTECTION PER CRC 315.5 WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN A DWELLING UNIT OR WITHIN A SLEEPING UNIT IN GROUP R OCCUPANCIES, THE ALARMS SHALL BE INTERCONNECTED IN A MANNER THAT CTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. PER CRC 315.

GENERAL ELECTRICAL NOTES

SWITCH, SINGLE POLE, 20A., 120/277V.

SWITCH, SINGLE POLE, 20A., 120/277V, WITH VACANCY PREMIER DESIGN **DIMMER SWITCH, 20A., 120/277V.** SWITCH, 3-WAY, 20A., 120/277V. DUPLEX RECEPTACLE, 120V., 15" A.F.F., U.N.O. - TAMPER RESISTANT - (B) AFCI GROUND FAULT CIRCUIT (GFCI), DUPLEX RECEPTACLE, 220V., 15" A.F.F. U.N.O. - TAMPER RESISTANT **GROUND FAULT CIRCUIT (GFCI), INTERRUPT RECEPTACLE.** 120 V., 15" A.F.F. U.N.O. - TAMPER RESISTANT GROUND FAULT CIRCUIT (GFCI), INTERRUPT RECEPTACLE 120 V., MOUNTED AT HEIGHT NOTED - TAMPER RESISTANT **WEATHERPROOF RECEPTACLE (GFCI), 120 V., 15" A.F.F.** U.N.O. - TAMPER RESISTANT

DEDICATED RECEPTACLE, DUPLEX, 125V., RANGE/

ELECTRIC VEHICLE CHARGING LOCATION (GFCI).

RECEPTACLE. 120 V., AT CEILING (GARAGE DOOR)

GROUND FAULT CIRCUIT (GFCI), INTERRUPT

CEILING MOUNTED LIGHT FIXTURE - (B) (E) (F)

WALL MOUNTED EXTERIOR LIGHT FIXTURE - (B) (E) (F)

WALL MOUNTED VANITY LIGHT FIXTURE - (B) (E) (F)

RECESSED BATHROOM FAN LIGHT COMBO - (E) (F) (G)

CARBON MONOXIDE DETECTOR - SHALL BE LISTED WITH

"UL 2034" AND "UL 2075" AND COMPLY WITH CRC R315 - (H)

INTERCONNECTED 110V CEILING MNTD. SMOKE DETECTOR

W/BATTERY BACKUP. ALARMS WITHIN 20' OF RANGE TO BE

GARBAGE DISPOSAL

RECESSED FIXTURE - (A) (E) (F)

THERMOSTAT LOCATION

PHOTOELECTRIC TYPE.

CAT-5 DATA OUTLET

COAX TELEVISION OUTLET

RJ11 TELEPHONE OUTLET

ELECTRICAL SUB-PANEL

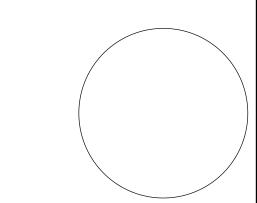
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CONSULTANTS



ADDITION

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OWNER INFORMATION

ENERGY STAR RATED CEILING FAN LIGHT -PROVIDE INDIVIDUAL SWITCHES FOR FAN AND

(A) IC RATED BALLAST AND AIR-TIGHT (AT) FOR CONTACT WITH INSULATION. BALLAST

SWITCH PATH, CONCEALED IN WALL,

BELOW FLOOR OR ABOVE CEILING

REPLACEMENT/MAINTANANCE TO BE READILY ACCESSIBLE. PROVIDE GASKET OR CAULK BETWEEN FIXTURE AND CEILING. SCREW BASE SOCKETS SHALL NOT BE USED (B) PROVIDE AFCI PROTECTION PER NOTE 2610.00.A6 ON SHEET A0.1. (C) 24" LAMP SPECIFIED, CONFIRM SPEC. ON OTHER LENGTHS

(E) FIXTURES INSTALLED IN EXTERIOR OR DAMP LOCATIONS SHALL BE GFI PROTECTED AND RATED BY MANUFACTURE OR WET OR DAMP LOCATIONS PER CEC 410.10(d). (F) HIGH EFFICACY, LED OR COMPACT FLOURECENT (G) FAN SHALL BE CAPABLE OF VENTING A MINIMUM OF 50 CUBIC FEET PER MINUTE PER CRC R303.3.

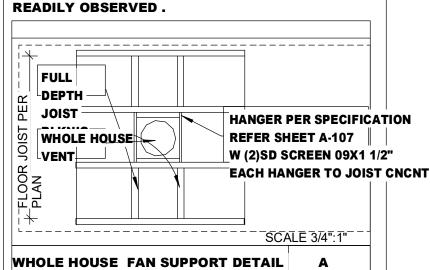
(H) WHERE MORE THAN ONE CO ALARM IS REQUIRED TO BE INSTALLED WITHIN A DWELLING OR SLEEPING UNIT THE ALARM SHALL BE INTERCONNECTED WHERE THE ACTIVATION OF ONE ALARM

GENERAL CONDITIONS DIVISION 26 CALGREEN COMPLIANCE DOCUMENTATION **TITLE 24 ENERGY COMPLIANCE DOCUMENTATION** RESIDENTIAL MANDATORY MEASURES

|MARK | DATE | DESCRIPTION

A MIN 20 A MPS **CIRCUIT.THIS CIRCUIT** PER CEO 210.11 C2 WITH VACANCY SENSOR INSTALLED the second

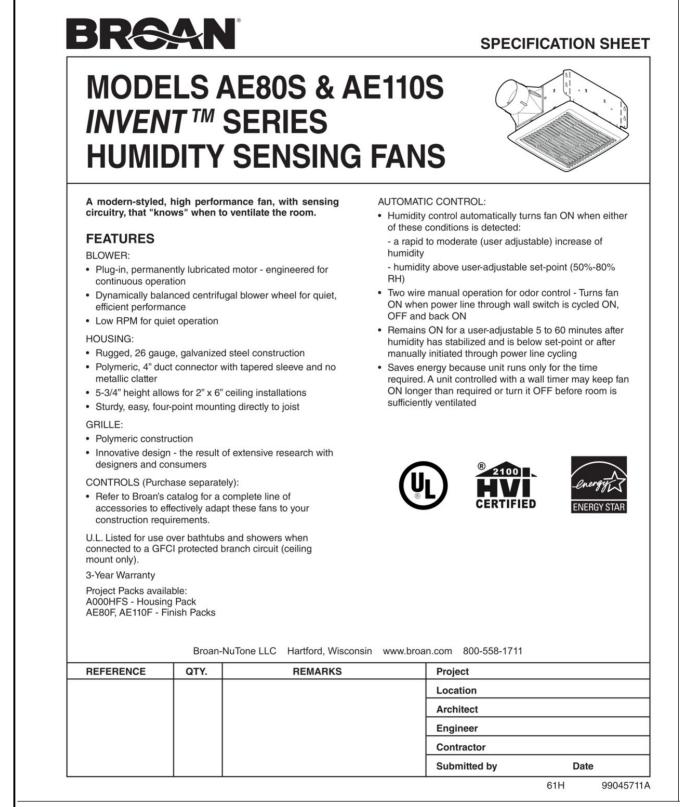
LDEDICATED CIRCUIT FOR THE FAU. CEO 210.11 PROVIDE ADDITIONAL WATERTIGHT CORROSION RESISTANT ETAL PANS UNDERNEATH EACH ATTIC MOUNTED FAU NOTE THAT THE SECONDARY DRAIN LINES MUST BE LOCATED WHERE THEY CAN BE

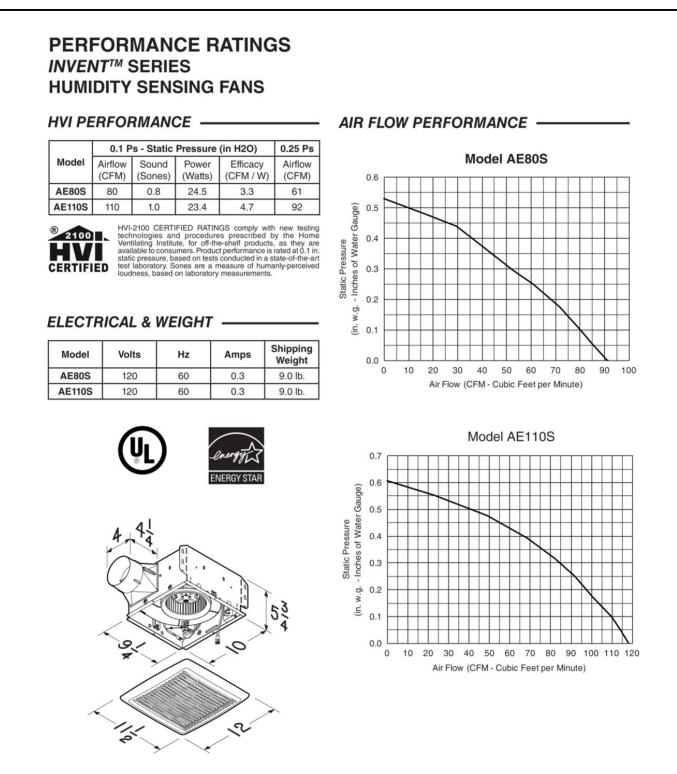


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SHEET TITLE

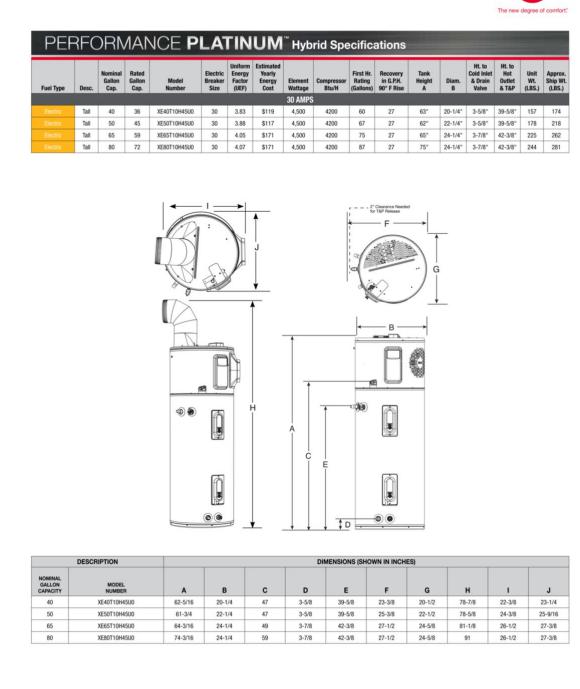
ELECTRICAL PLAN

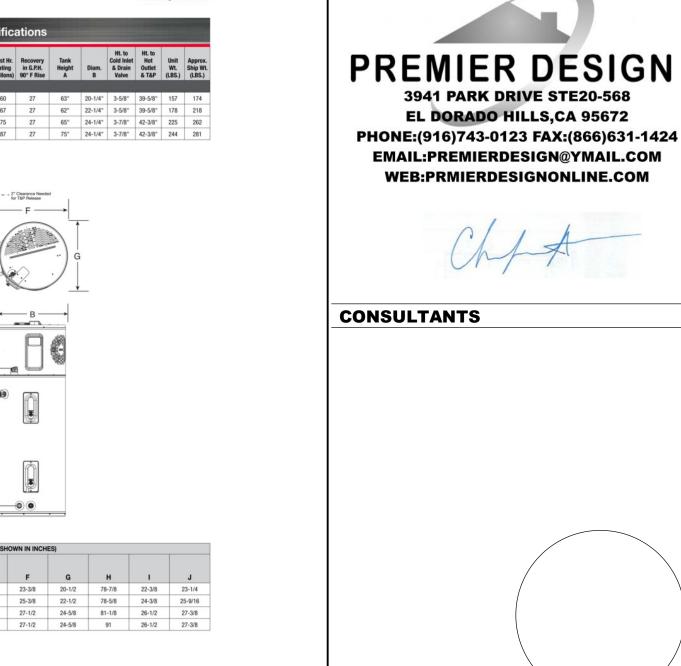




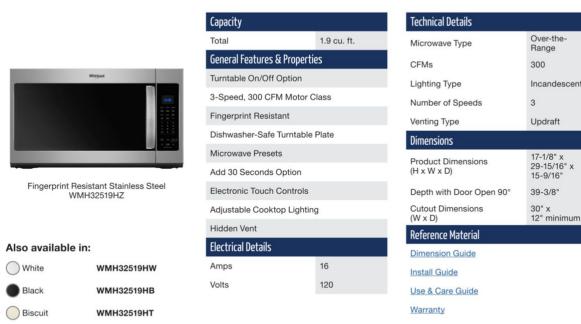
Broan-NuTone LLC Hartford, Wisconsin www.broan.com 800-558-1711









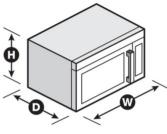






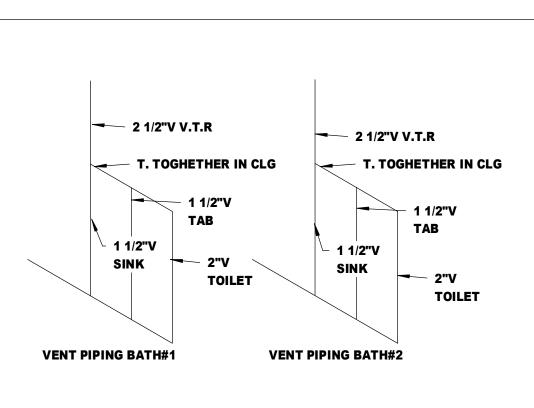
Clear up cooktop space by steaming foods like rice, vegetables and fish right in the microwave. Steam accessory

Sensor Cooking Automatically tracks the cooking progress of your food and adjusts the cook time as needed.



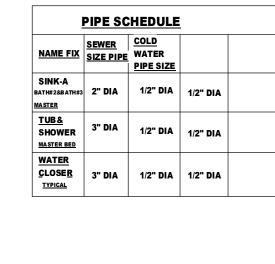
NOTE: Dimensions are for planning purposes only. For complete details, see Installation Instructions packed with product. Specifications subject to change without notice.

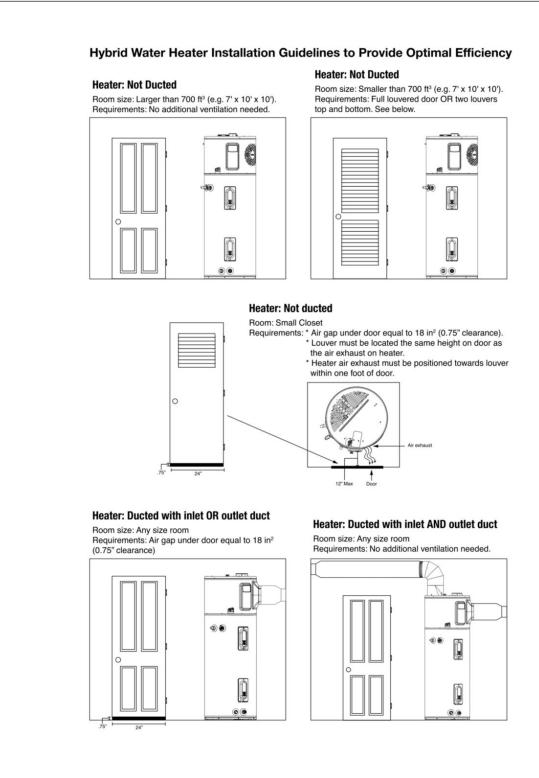
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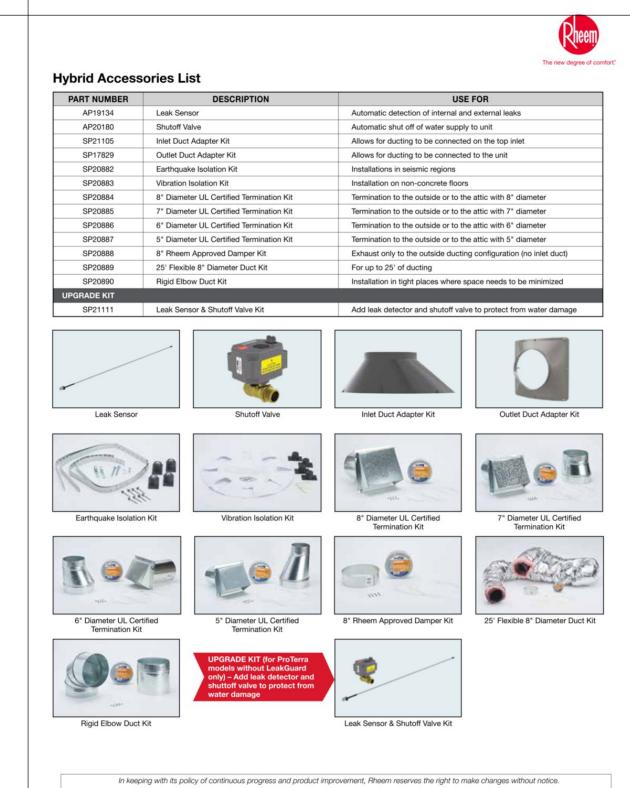


PIPE DIAGRAM

NOT TO SCALE



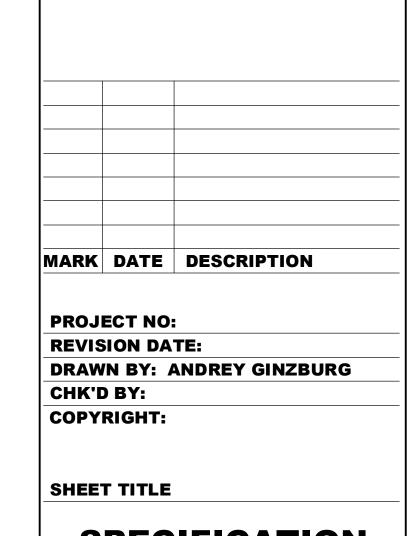




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12/22 FORM NO. THD-PPEH5-30 Rev. 5



ADDITION

812 SIBLEY ST,

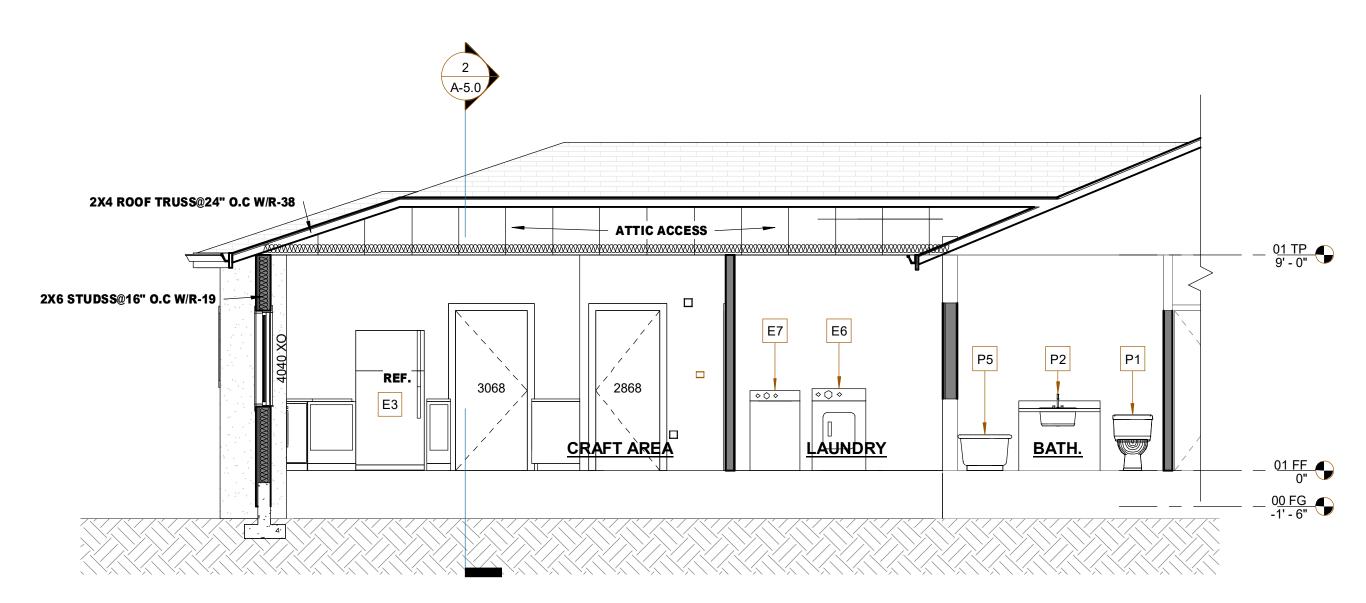
FOLSOM, CA 95630,

APN#07104000110000

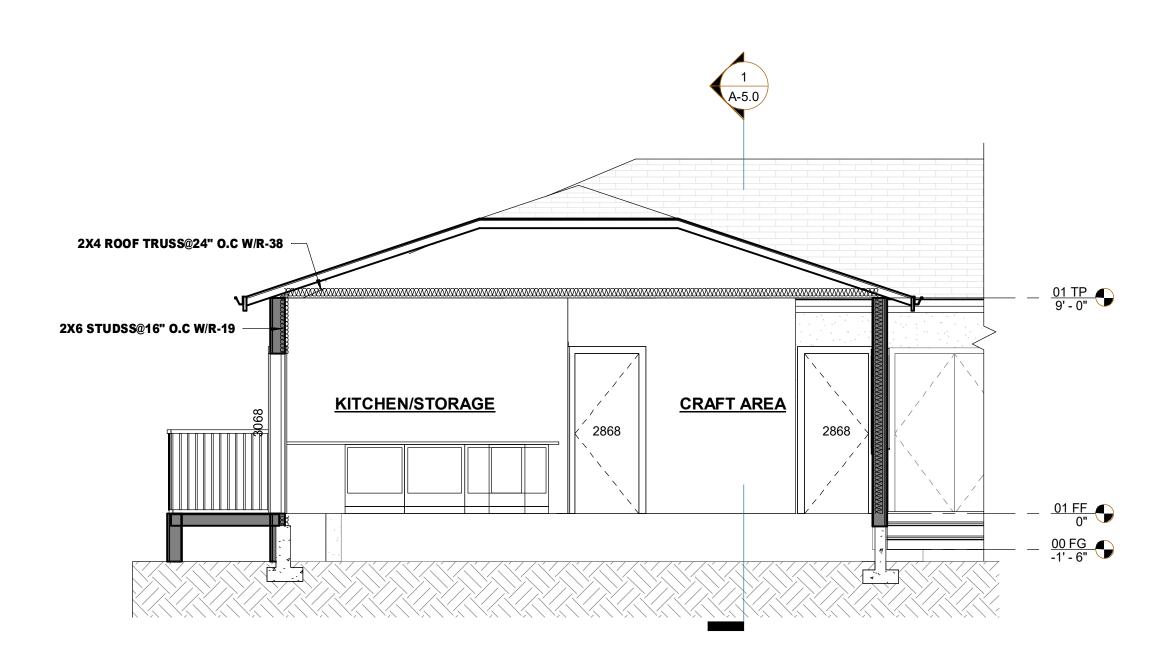
OWNER INFORMATION

SPECIFICATION

A-4.0



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



2 CROSS SECTION
SCALE: 1/4" = 1'-0"

ROOF VENTILATION:

ROOF AREA MAIN RESIDENCE (SQ.FT.): 761 SQ.FT.

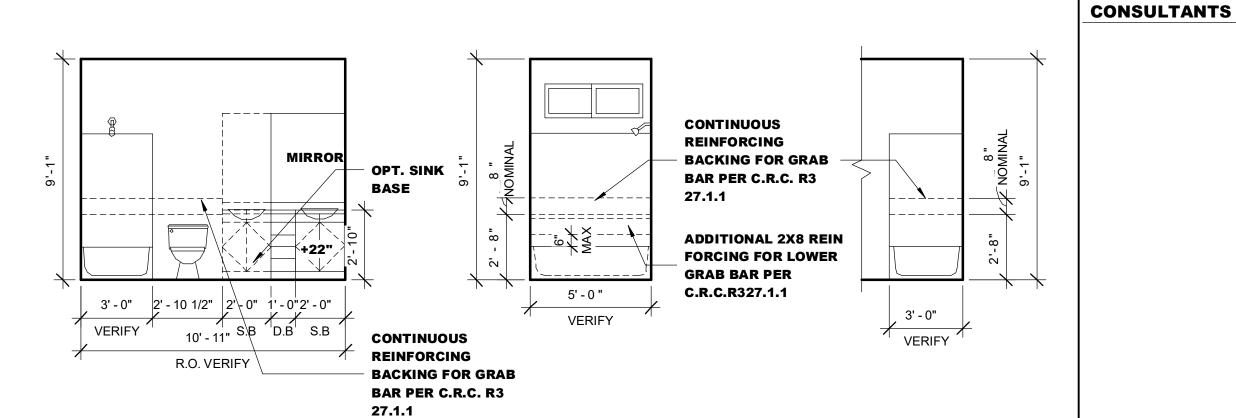
ROOF VENTILATION:
ROOF AREA(SQ.FT.):
1/150 ROOF AREA REQ'S:
LIVING AREA 761/150------5.07
TOTAL-----5.07
USE:
(7) LOWER PROFILE DORMER VENT-----5.32
NFVA---0.76 SQ.FT.
REQ'S VENT AREA---------5.07

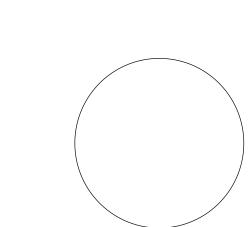
PROPOSED AREA-----



3941 PARK DRIVE STE20-568
EL DORADO HILLS,CA 95672
PHONE:(916)743-0123 FAX:(866)631-1424
EMAIL:PREMIERDESIGN@YMAIL.COM
WEB:PRMIERDESIGNONLINE.COM







3 TYP. GRAB BAR REINFORCEMENT SCALE: 1/4" = 1'-0"

ADDITION

812 SIBLEY ST, FOLSOM, CA 95630,

APN#07104000110000

OWNER INFORMATION

WINDOW	SCHEDULE

MODEL	WIDTH	HEIGHT	OPERATION	MANUF.	HEAD HEIGHT	COMMENTS	QTY.
5040 XO	5' - 0"	4' - 0"	SLIDER	BY OWNER	6' - 8"		1
4040 XO	4' - 0"	4' - 0"	SLIDER	BY OWNER	6' - 8"		3
4030 XO	4' - 0"	3' - 0"	SLIDER	BY OWNER	6' - 8"		1

DOOR SCHEDULE

Model	WIDTH	HEIGHT	THICKNESS	OPERATION	MANUF.	NOTES	LOCATION	QTY.
		T		T				
3068	3' - 0"	6' - 8"	0' - 2"	FLUSH DOOR	BY OWNER			1
2868	2' - 8"	6' - 8"	0' - 2"	FLUSH DOOR	BY OWNER			1
2868	2' - 8"	6' - 8"	0' - 2"	FLUSH DOOR	BY OWNER			1
2868	2' - 8"	6' - 8"	0' - 2"	FLUSH DOOR	BY OWNER			1
2468	2' - 4"	6' - 8"	0' - 2"	FLUSH DOOR	BY OWNER			1
5068	5' - 0"	6' - 8"	0' - 2"	CLOSET DOOR	BY OWNER			1
2868	2' - 8"	6' - 8"		OPENING	BY OWNER			1
7068	7' - 0"	6' - 8"		OPENING	BY OWNER			1

MARK DATE DESCRIPTION

REVISIO

WAKK:	I I EIVI:	MANUF:	I I EIVI #:	DIMENSIONS:	NO I ES:	QIY.:
				·		
E 1	HOOD/MICRO COMBO	BY OWNER	BY OWNER	30" WIDE		1
E2	RANGE	BY OWNER	BY OWNER	30"L x 26"W		1
E 3	REFRIGERATOR	BY OWNER	BY OWNER	35" x 32" RH		1
E4	DISHWASHER	BY OWNER	BY OWNER	24" x 24" x 34"		1
E 6	CLOTHES DRYER	BY OWNER	BY OWNER	27" x 25" x 35"		1
E7	CLOTHES WASHER	BY OWNER	BY OWNER	25" x 25" x 35"		1

_	PROJECT NO:
	REVISION DATE:
	DRAWN BY: ANDREY GINZBURG
	CHK'D BY:
	COPYRIGHT:
	SHEET TITLE

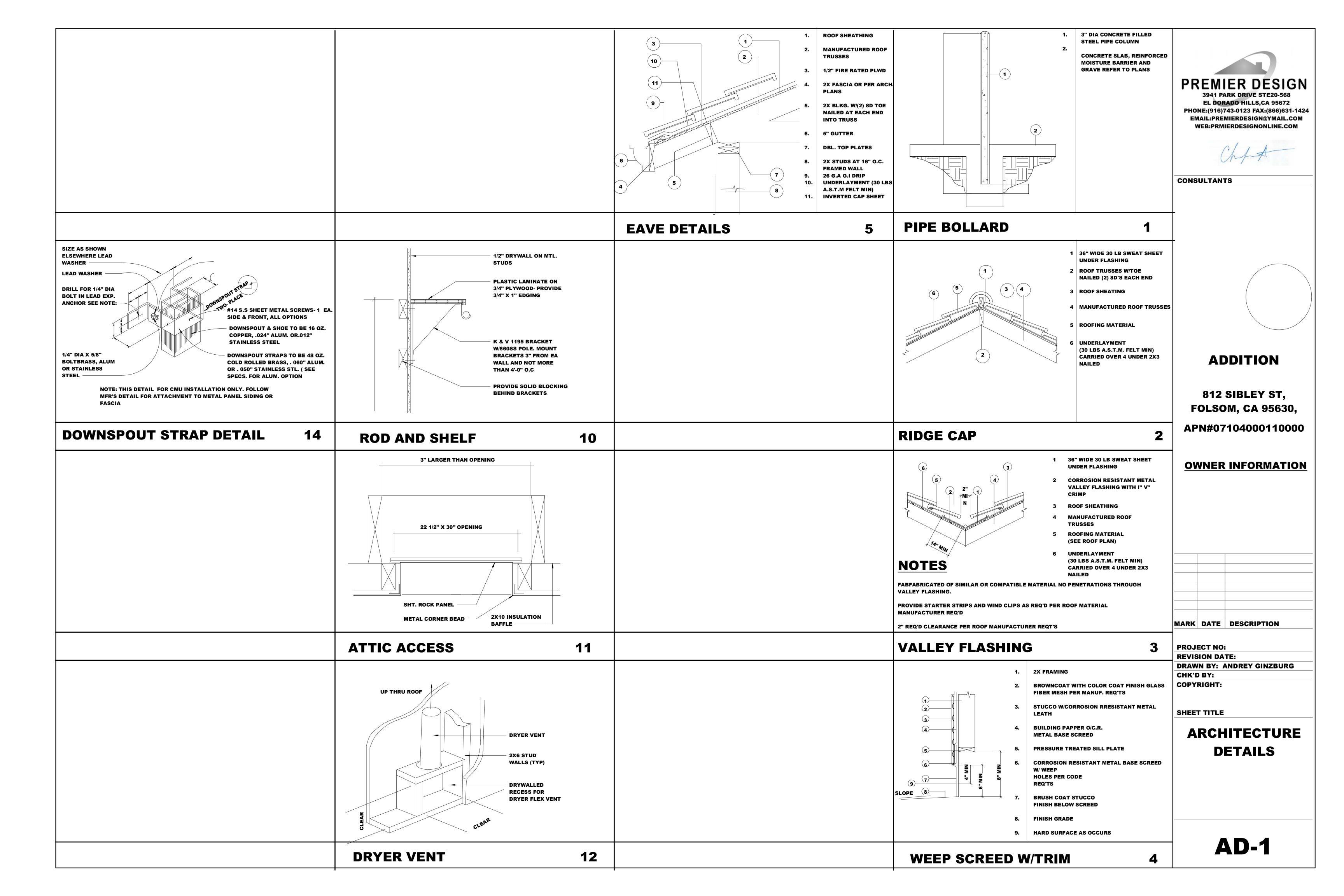
PLUMBING SCHEDULE

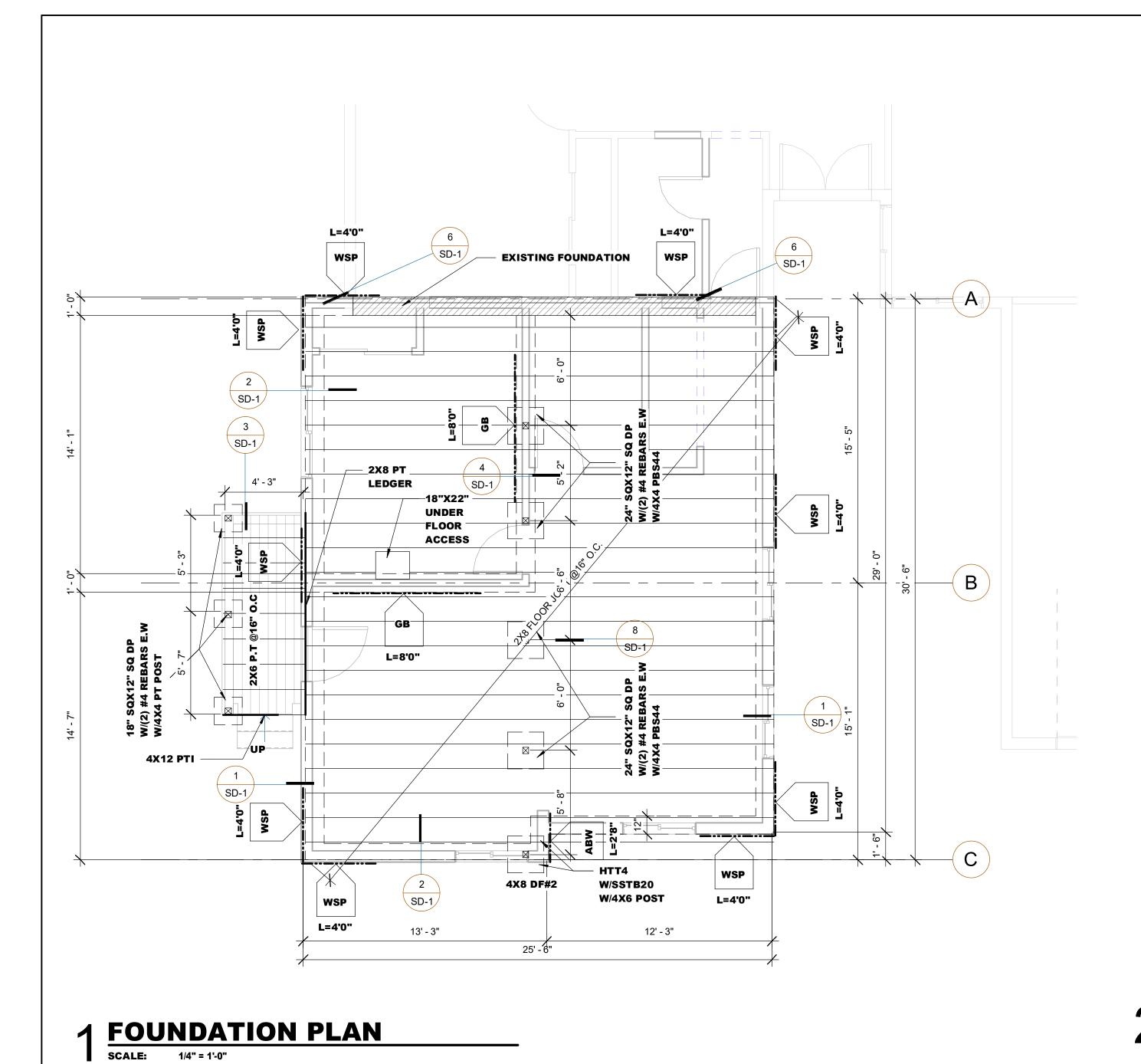
APPLIANCES & EQUIPMENT SCHEDULE

MARK:	ITEM:	MANUF:	ITEM#:	DIMENSIONS:	NOTES:	QTY.:
P1	TOILET	BY OWNER	BY OWNER	TOILET - DOMESTIC		2
P2	SINK - VANITY ROUND	BY OWNER	BY OWNER	18 7/8"L x 18 7/8" x 7 5/8"D	FINISH: WHITE	2
Р3	SINK - KITCHEN DOUBLE	BY OWNER	BY OWNER	33"L x 22"W x 10 1/4"D	FINISH: WHITE	1
P5	FREE STANDING TUB	BY OWNER	BY OWNER	26" x 52"		1

SECTIONS

A-5.0



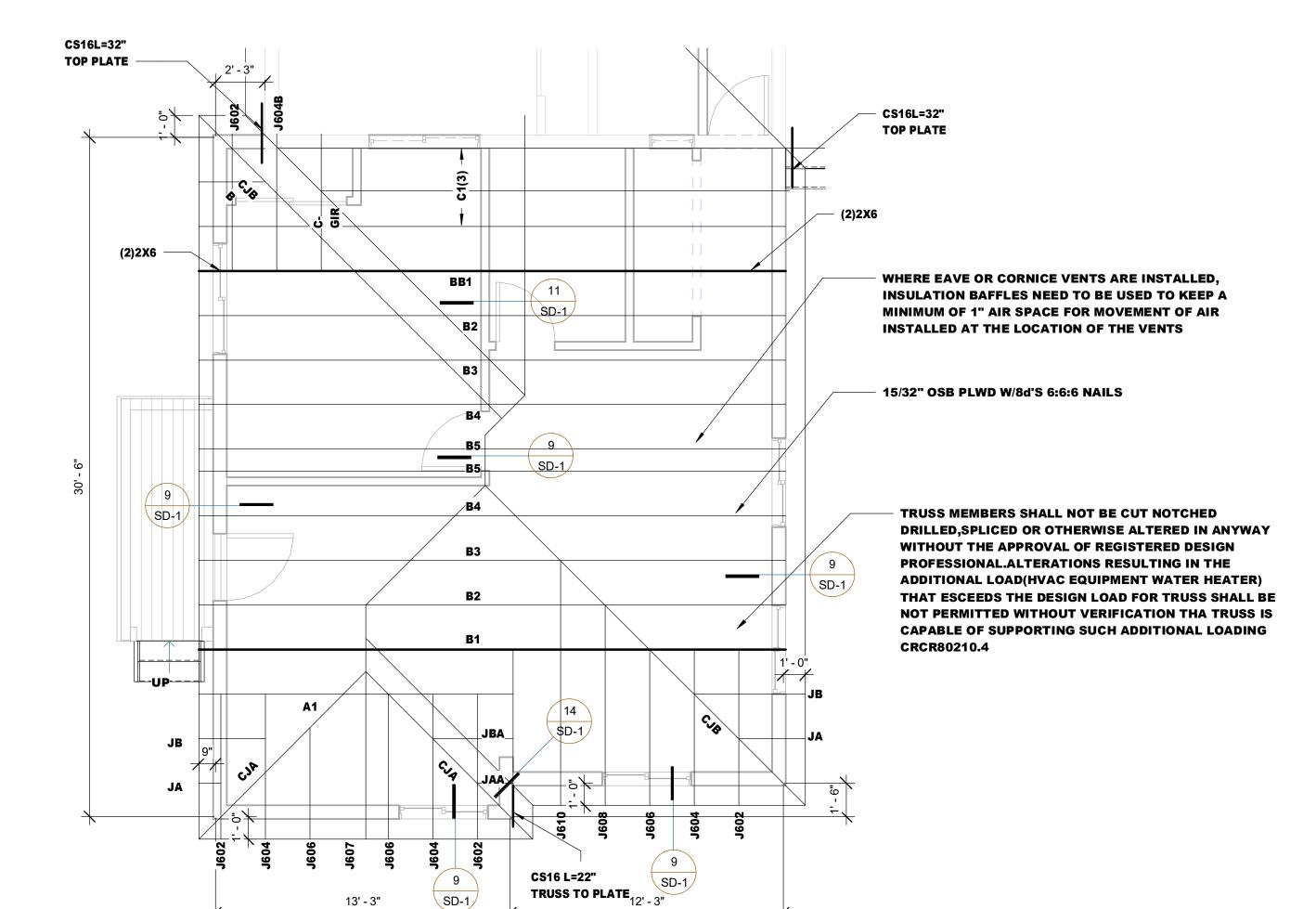


MINIMUM FOOTING SIZE UNDER

OPENINGS.

OPENING IS 12" X 12". A TURNED-DOWN

SLAB SHALL BE PERMITTED AT DOOR



2 ROOF PLAN

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

LEGEND

SPREAD FOOTING(NEW)

PLYWOOD INDICATOR

CONTINOUS FOOTING(EX)

CONTINOUS FOOTING(NEW)

8 8 8 8 8 MIN. 3/8" WOOD FOR PANEL SPLICE (IF NEEDED) STRUCTURAL PANEL ____ ADJOINING PANEL EDGES SHALL MEET SHEATHING ON ONE FACE OVER AND BE FASTENED TO COMMON MN. 2 X 4 FRAMING MIN. -DOUBLE STUDS REQUIRED. 8D COMMON OR GALV. BOX NAILS @ 6" O.C. AT PANEL EDGES. FOR SINGLE STORY AND @ 4" O.C. PANEL EDGES FOR THE FIRST OF 2 STORIES (2) HOLD-DOWN OR (2) STRAP-TYPE -ANCHORS PER TABLE R602.10.6.1 (ONE OF EACH SHOWN FOR CLARITY). STUDS UNDER HEADER AS REQUIRED STRAP-TYPE ANCHORS SHALL BE PERMITTED TO BE ATTACHED OVER THE WOOD STRUCTURAL PANEL 8D COMMON OR GALV. BOX NAILS @ 12" O.C. AT INTERIOR SUPPORTS PANEL MUST BE ATTACHED TO CONCRETE FOOTING OR CONCRETE FOUNDATION -WALL CONTINUOUS OVER MIN. REINFORCING OF FOUNDATION, BRACED WALL LINE ONE #4 BAR TOP AND BOTTOM, LAP BARS 15" MINIMUM.

(2) 1/2" DIAMETER ANCHOR

BOLTS LOCATED BETWEEN

6" AND 12" OF EACH END OF THE SEGMENT

PANEL LENGTH PER TABLE R602.10.5

> BRACED WALL PANEL SCHEDULE 3/8-IN OSB PLYWOOD 3/8-IN OSB PLYWOOD SIDING (BLOCKED) NAILING: 8D'S (COMMON) SIDING (BLOCKED) ABW NAILING: 8D'S (COMMON)
> 3" O.C. AT EDGES 6" O.C. AT EDGES 12" O.C AT FIELD ANCHOR BOLTS@ 4'-0" O.C 12" O.C AT FIELD 3"X3" X 0.229" SILL PLATE WASHERS 2X4 PTD SILL ANCHOR BOLTS @ 2'-0" O.C (MIN. 2 BOLTS PER PANEL) 3" X 3" X 0.229" SILL PLATE WASHERS 1/2-IN GYPSUM BOARD 3/8-IN OSB PLYWOOD GB **NAILED WITH 6D COOLERS**

SIDING (BLOCKED) 7" O.C. AT EDGES 3" O.C. AT EDGES 7" O.C. AT FIELD 12" O.C AT FIELD ANCHOR BOLTS@ 4'-0" O.C (MIN.2 BOLTS PER PANEL) 3" X3"X 0.229" SILL PLATE WASHERS

NAILING: 8D'S (COMMON) ANCHOR BOLTS # 4'-0" O.C. 3" X 3" X 0.229" SILL PLATE WASHERS **FOUNDATION PLAN**

MARK DATE DESCRIPTION

DRAWN BY: ANDREY GINZBURG

PROJECT NO:

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REVISION DATE:

PREMIER DESIGN

3941 PARK DRIVE STE20-568 EL DORADO HILLS,CA 95672 PHONE:(916)743-0123 FAX:(866)631-1424 EMAIL:PREMIERDESIGN@YMAIL.COM WEB:PRMIERDESIGNONLINE.COM

ADDITION

812 SIBLEY ST,

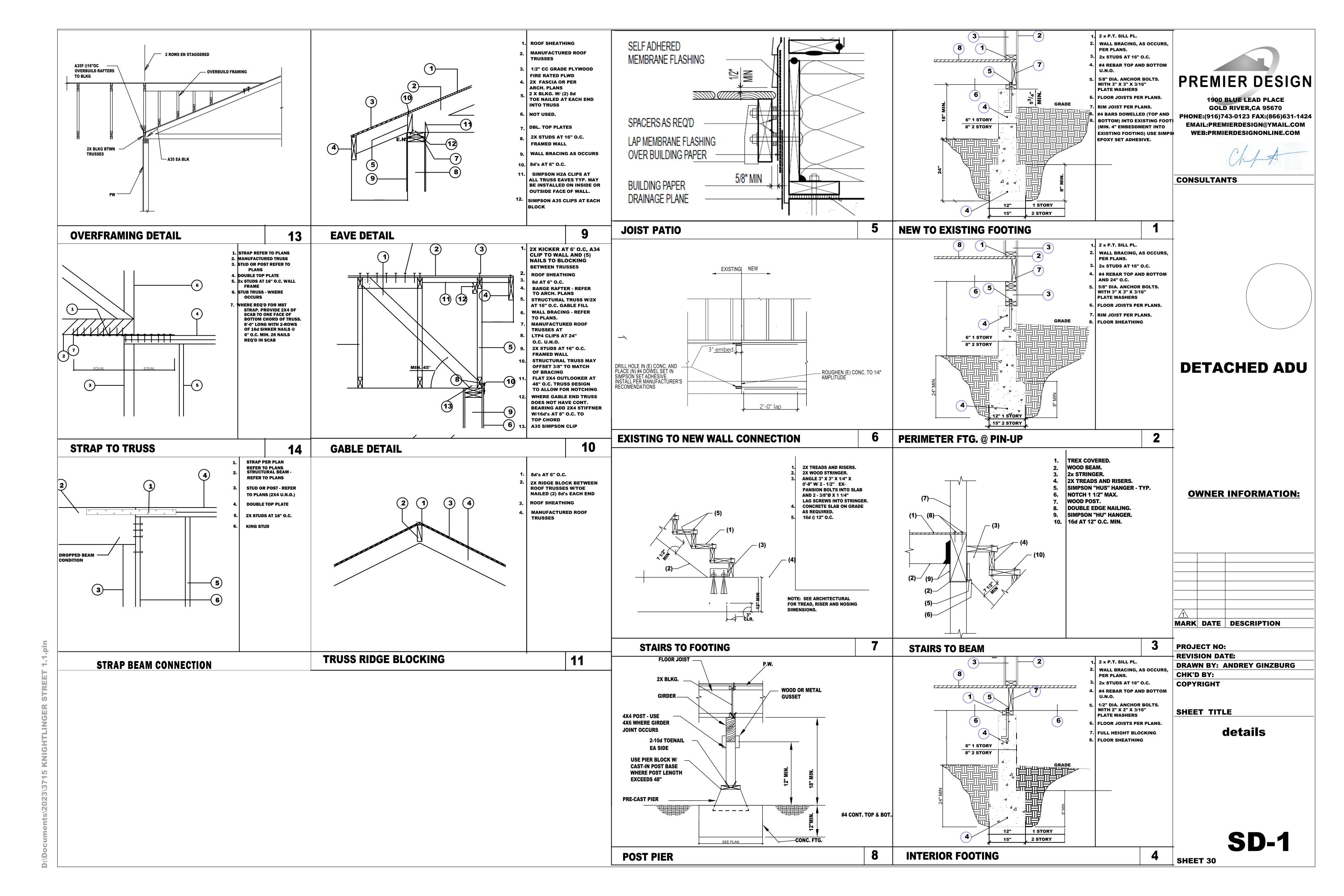
FOLSOM, CA 95630,

APN#07104000110000

OWNER INFORMATION

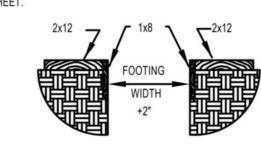
CONSULTANTS

S-1.1



FOUNDATIONS

- ALL FOUNDATION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE
- BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAIL ON THE TYPICAL DETAIL SHEET.
- ALL PILE CAPS, GRADE BEAMS, TIE BEAMS & OTHER FOOTINGS SHALL BE FORMED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL DESIGNER. FOUNDATIONS MAY BE CAST IN NEAT EXCAVATIONS PROVIDED WRITTEN APPROVAL IS OBTAINED AND FOOTINGS ARE INCREASED 2" IN WIDTH. USE 2X12 PLANK AT EDGE OF EXCAVATION TO PROTECT AGAINST SLUFFING, AS



CONCRETE

- STRUCTURAL CONCRETE SHALL ATTAIN 28 DAY COMPRESSIVE STRENGTH F'C = 2500PSI. CONCRETE MIX DESIGN SHALL BE PREPARED BY AN INDEPENDENT LABORATORY. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE PER THE CALIFORNIA BUILDING CODE.
- CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR II. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33. AGGREGATES FOR LIGHTWEIGHT CONCRETE
- REINFORCING STEEL SHALL CONFORM TO ASTM A615- GRADE 60 FOR NO. 5 AND LARGER, AND ASTM A615-GRADE 40 FOR NO. 4 AND SMALLER, EXCEPT REINFORCING STEEL TO BE WELDED SHALL CONFORM CONFORM TO ASTM A706.
- ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 LATEST EDITION AND SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY.
- CONTRACTOR SHALL FURNISH TO THE LABORATORY, REBAR MILL CERTIFICATES. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR
- REINFORCED CONCRETE CONSTRUCTION".
- DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS: CONCRETE DEPOSITED AGAINST GROUND (EXCEPT SLABS) -3". CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS-2". SLABS (ON GROUND)
- SPLICES IN CONTINUOUS REINFORCEMENT SHALL BE 48 BAR DIAMETERS AND SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. SPLICE CONTINUOUS BARS IN SPANDRELS, GRADE BEAMS, ETC., AS FOLLOWS: TOP BARS AT MID-SPAN; BOTTOM BARS AT CENTERLINE AT SUPPORT, UNLESS NOTED OTHERWISE OTHERWISE. SPLICES IN WWF SHALL BE 1.5 MESHES WIDE.
- CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SAND BLASTING OR RAKING THE SURFACE TO
- REMOVE ALL DEBRIS FROM FORMS BEFORE CASTING ANY CONCRETE. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE SHALL BE TIED SECURELY IN POSITION BEFORE PLACING CONCRETE
- MAXIMUM FREE FALL OF CONCRETE SHALL BE 8'-0". CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE OF CONCRETE AND
- NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED. ALL SAW CUTTING SHALL BE DONE AFTER INITIAL SET HAS OCCURRED TO AVOID TEARING OR DAMAGE BY THE SWABBED, BUT BEFORE INITIAL SHRINKAGE HAS OCCURRED.
- DRILL THROUGH STEEL COLUMNS, BEAMS AND PLATES TO PASS CONTINUOUS REINFORCING. ADDITIONAL REINFORCING IN PRECAST OR TILT-UP PANELS REQUIRED FOR LIFTING STRESSES SHALL BE SUPPLIED
- PROVIDE 2-NO.5X4'-0" DIAGONAL REINFORCING AT MID-DEPTH OF SLAB AT ALL REENTRANT CORNERS TYPICAL

- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATION DOUGLAS FIR - COAST REGION - WCLIB GRADING RULES NO. 17 DF NO. 2, U.N.O. REDWOOD - CALIFORNIA REDWOOD ASSOCIATION GRADING RULES, LATEST EDITION GLUED LAMINATED BEAMS - STANDARD SPEC. FOR STRUCTURAL GLUED LAMINATED TIMBER AITC 117 LATEST EDITION. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION OF GLUED-LAMINATED MEMBERS. PLYWOOD - U.S. PRODUCT STANDARD P.S. 2-92 FOR SOFT PLYWOOD STRUCT 1 @ WALLS; CDX @ FLOORS AND ROOF - U.N.O.
- PRESSURE TREATED DOUGLAS FIR AWPA (AMERICAN WOOD PRESERVERS' ASSOCIATION) U1. ALL WOOD IN DIRECT CONTACT WITH EARTH OR CONCRETE SHALL BE PRESSURE TREATED. BEARING AND SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL AND PARTITION
- PROVIDE SOLID BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS.
- PROVIDE BLOCKING AT ALL CEILING LEVELS.
- HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
- HOLES FOR LAG SCREW SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK AND THE REST NO LARGER THAN THE ROOT OF THE THREAD.
- LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. SOAP MAY
- BE USED TO LUBRICATE THE SCREWS. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS

WHICH BEAR ON WOOD. APPLIES A	LSO TO INSERTED EXPANDING FASTENERS	S, RED HEAD, ETC.	
BOLT DIAMETER	MI WASHER	STEEL WASHER	
1/2" DIA.	2" DIA. X 15/16"	3" X 3" X 1/4"	
5/8" DIA.	2-3/4" DIA. X 15/16"	3" X 3" X 1/4"	
3/4" DIA.	3" DIA. X 7/16"	3" X 3" X 5/16"	
7/8" DIA	3-1/2" DIA. X 7/16"	3-1/2" X 3-1/2" X 3/8"	_

- 4" DIA. X 1/2" 3-3/4" X3-3/4" X 3/8" ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED ON INSTALLATION AND RETIGHTENED BEFORE
- LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORT
- 12. BLOCK SP JOINTS WITH 2X4 FLAT BLOCKING WHERE NOTED ON ROOF OR FLOOR FRAMING PLANS AND WITH BLOCKING SAME AS STUDS AT WALLS.
- CONNECTOR HARDWARE MODEL NUMBER ARE THOSE FOR SIMPSON STRONG-TIE COMPANY. EQUIVALENT CONNECTORS WITH ICBO ACCEPTANCE MAY BE SUBSTITUTED. ALL JOIST HANGERS SHALL BE SIMPSON U SERIES UNLESS NOTED OTHERWISE
- FASTENERS FOR PRESERVATIVE TREATED & FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153.

2600Fb, 285Fv, 1.8E

CLOSING IN OR AT COMPLETION OF JOB.

	A THE PARTY OF THE		2900FD, 290FV, 2.0E
AB	ANCHOR BOLT	NTS	NOT TO SCALE
BTWN	BETWEEN	OH	OPPOSITE HAND
CC	CENTER TO CENTER	PC	PIECE
CJ	CONSTRUCTION JOINT	PP	PARTIAL PENETRATION
CLR	CLEAR	WS	WOOD SCREW
CONTIN	CONTINUOUS	SC	SHEAR CONNECTOR (6"®)
CP	COMPLETE PENETRATION	SP	STRUCTURAL PLYWOOD
CSK	COUNTERSINK	SPEN	STRUCTURAL PLYWOOD EDGE
DF	DOUGLAS FIR		NAILING
DL	DEAD LOAD	STFNR	STIFFENER
DO	DITTO	STGGRD	STAGGERED
(E)	EXISTING	T&B	TOP & BOTTOM
EJ	EXPANSION JOINT	T & G	TONGUE & GROOVE
EN	EDGE NAILING	TN	TOE NAIL
FB	FACE OF BLOCK	TOF	TOP OF FRAMING
FC	FACE OF CONCRETE		TOP OF STEEL
FS	FACE OF STUD	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	W/	WITH
HSB	HIGH STRENGTH BOLT (A-325)	W/O	WITHOUT
HT	HEIGHT	WP	WORK POINT
JH	JOIST HANGER (SIMPSON)	WWF	WELDED WIRE FABRIC
LL	LIVE LOAD	ር ዊ#	CENTERLINE
LS	LAG SCREW	P2	PLATE
LT WT	LIGHT WEIGHT	#	NUMBER OR POUNDS
MI	MALLEABLE IRON	Ф	SQUARE
(N)	NEW	φ	ROUND OR DIAMETER
CTJ	CONTROL JOINT	\sim	CONTINUOUS WOOD IN SECTION
SDSTS	SELF DRILLING SELF TAPPING		WOOD BLOCKING IN SECTION
	SCREW		
CONC	CONCRETE		END OF WOOD PIECE
FLR	FLOOR	FTG	FOOTING
HDR	HEADER	GLB	GLUED-LAMINATED BEAM
MFR	MANUFACTURER	RDWD	REDWOOD
	PRESSURE TREATED DOUGLAS FIR	FF	FINISH FLOOR
LVL	LAMINATED VENNEER LUMBER	LSL	LAMINATED STRAND LUMBER
			- 12000000000000000000000000000000000000

PARALLEL STRAND LUMBER

2900Fb, 290Fv, 2.0E

2325Fb, 310Fv, 1.55E

NAILING SCHEDULE

ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS CONFORMING TO THE FOLLOWING MINIMUM SIZES:

> 0.131"DIA.X2-1/2" 0.148"DIA.X3" 0.148"DIA.X1-5/8" PLUS THICKNESS OF S.P 10D SHORTS 0.162"DIA.X3-1/2" 0.192"DIA.X4"

HOLES SHALL BE SUB-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT NOTED BELOW OR ON PLANS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT. 8D NAILS FOR 1" MATERIAL AND 16D NAILS FOR 2" MATERIAL

8D NAILS FOR 1" MATERIAL AND 16D NAILS FOR 2" MATERIAL.
1. JOISTS TO SILL OR GIRDER, TOENAIL 3-8D
2. BRIDGING TO JOISTS, TOENAIL EACH END2-8D
3. 1"X6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL 2-8D
4. WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST, FACE NAIL 3-8D
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL 2-16D
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL 16D @ 16"O.C.
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANEL 3-16D PER 16"
7. TOP PLATE TO STUD, END NAIL 2-16D
8. STUD TO SOLE PLATE 4-8D, TOENAIL OR 2-16D, END NAIL
9. DOUBLE STUDS, FACE NAIL 16D @ 24"O.C.
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL 16D @ 16"O.C.
DOUBLE TOP PLATES, LAP SPLICE, U.N.O8-16D
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL 3-8D
12. RIM JOIST TO TOP PLATE, TOENAIL
13. TOP PLATES, LAPS AND INTERSECTION, FACE NAIL 2-16D
14. CONTINUOUS HEADER, TWO PIECES, TOENAIL 16D @ 16"O.C. ALONG EACH EDGE
15. CEILING JOISTS TO PLATE, TOENAIL 3-8D
16. CONTINUOUS HEADER TO STUD, TOENAIL 4-8D
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL 3-16D
18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL 3-16D
19. RAFTER TO PLATE, TOENAIL 3-8D
20. 1" BRACE TO EACH STUD & PLATE, FACE NAIL 2-8D
21. 1"X8" SHEATHING OR LESS TO EACH BEARING 3-8D
22. WIDER THAN 1'X8" SHEATHING TO EACH BEARING, FACE NAIL 3-8D
23. BUILT UP CORNER STUDS 16D @ 24"O.C.
24. BUILT UP GIRDER & BEAMS 20D @ 32"O.C. AT TOP & BOTTOM AND STAGGERED
2-20D AT ENDS AND AT EACH SPLICE
25. 2" PLANKS 2-16D AT EACH BEARING
26. WOOD STRUCTURAL PANELS:
SUBFLOOR & WALL SHEATHING TO FRAMING
1/2" AND LESS 6D
19/32" - 1" 8D
1-1/8" - 1-1/4" 10D
COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING

AILS SPACED @ 6"O.C AT EDGES, "O.C. @ INTERMEDIATE SUPPORTS CEPT 6" ATALL SUPPORTS WHERE IS ARE 48" OR MORE. FOR ING OF BRACED WALL PANELS OR EAR WALLS, SEE PLAN.

PLATED WOOD ROOF TRUSS NOTES

ROOF DESIGN LOADS

27. PANEL SIDING TO FRAMING

1/2" OR LESS -----

1-1/8" - 1-1/4" ----- 10D

		20 PSF LL (REDUCIBLE) 26 PSF SNOW LOAD
	BOTTOM CHORD	5 PSF DL 10 PSF LL (NON-CONCURRENT W/ TOP CHORD LL)
1.	2X4 MINIMUM TOP CHORD TYPICAL - 2X4 ALL OTHER MEM	BERS (U.N.O.).
2.	ALL MEMBERS SHALL BE DOUGLAS FIR (DF) NO. 2 OR BET	TER.
3.	TRUSS DRAWINGS AND CALCULATIONS SHALL BE SUBMIT FOR REVIEW PRIOR TO FABRICATION. CALCULATIONS FOR CARRIED TRUSS REACTIONS. ALL CALCULATIONS REGISTERED IN THE STATE OF CALIFORNIA.	OR GIRDER TRUSSES SHALL INCLUDE POINT LOADS

- DESIGN AND FABRICATION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (CBC), CURRENT EDITION, AND TPI-85 OF THE TRUSS PLATE INSTITUTE.
- ALLOWABLE STRESS INCREASE FOR LOAD DURATION SHALL BE 15% (PERCENT) MAXIMUM.
- INCREASE FOR ALLOWABLE STRESSES FOR REPETITIVE MEMBERS. SHALL BE PERMISSIBLE
- EFFECTS OF ECCENTRIC LOADING SHALL BE CONSIDERED IN THE DESIGN OF ALL JOINTS
- TRUSS MANUFACTURER SHALL SUBMIT LATEST ICBO APPROVED TEST DATA FOR TRUSS METAL PLATE CONNECTORS TO ARCHITECT AND/OR ENGINEER PRIOR TO FABRICATION.
- PROVIDE TEMPORARY ERECTION BRACING AS REQUIRED.
- 10. GENERAL CONTRACTOR TO PROVIDE WEB BRACING AS REQUIRED BY TRUSS MANUFACTURERS DESIGN.
- NOT USED

(MIN. 2 BOLTS PER PANEL)

3"x3"x0.229" SILL PLATE WASHERS

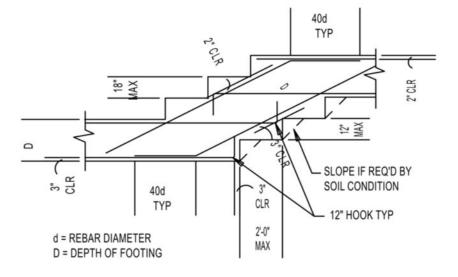
- 12. ALL HARDWARE REQUIRED FOR CONNECTING TRUSSES (JACK TO HIP, HIP TO GIRDER, GIRDER TO GIRDER, ETC.) SHALL BE DESIGNED, DETAILED AND SPECIFIED BY TRUSS FABRICATOR.
- 13. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS SHOWN ON TRUSS PROFILES WITH ARCHITECTURAL DRAWINGS AND IN FIELD WITH WALL LAYOUT PRIOR TO FABRICATION. PROVIDE SHOP DRAWINGS WITH DIMENSIONS REVIEWED AND APPROVED BY GENERAL CONTRACTOR.
- 14. TRUSS MANUFACTURER TO PROVIDE PLAN DRAWING SHOWING TRUSS LOCATIONS AND TRUSS PROFILE SHOP DRAWINGS PRIOR TO FABRICATION.
- 15. TRUSS MANUFACTURER TO ACCOUNT FOR THE WEIGHT OF ALL MECHANICAL EQUIPMENT IN DESIGN OF ALL TRUSSES WHICH SUPPORT SUCH UNITS.

3" O.C. AT FIELD

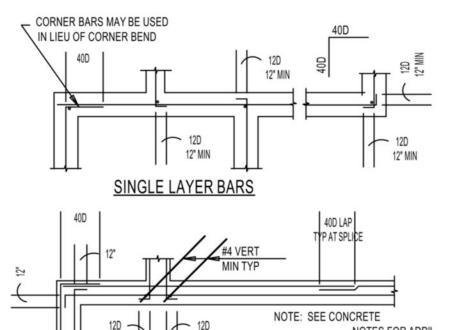
ANCHOR BOLTS @ 4'-0" O.C. 3"x3"x0.229" SILL PLATE WASHERS

WOOD UNDER PLATES MUST BE FREE OF KNOTS, KNOT HOLES AND GREATLY DISTORTED GRAINS.

■ BRACED WALL PANEL SCHEDULE WSP 3/8-IN CDX PLYWOOD ABW 3/8-IN CDX PLYWOOD SIDING (BLOCKED) SIDING (BLOCKED) NAILING: 8d's, (COMMON) NAILING: 8d's, (COMMON) 6" O.C. AT EDGES 3" O.C. AT EDGES 12" O.C. AT FIELD 12" O.C. AT FIELD ANCHOR BOLTS @ 4'-0" O.C. 3"x3"x0.229" SILL PLATE WASHERS 2x4 PTD SILL ANCHOR BOLTS @ 2'-0" O.C. GB 1/2-IN GYPSUM BOARD (MIN. 2 BOLTS PER PANEL) 3"x3"x0.229" SILL PLATE WASHERS 3/8-IN CDX PLYWOOD **NAILED WITH 6d COOLERS** 7" O.C. AT EDGES PFH SIDING (BLOCKED) 7" O.C. AT FIELD NAILING: 8d's, (COMMON) ANCHOR BOLTS @ 4'-0" O.C. 3" O.C. AT EDGES

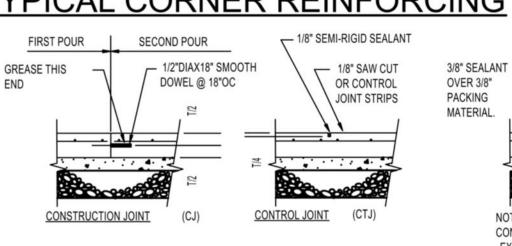


TYPICAL FOOTING STEP



DOUBLE LAYER BARS TYPICAL CORNER REINFORCING

REQUIREMENTS



EXPANSION JOINT (EJ) CONSTRUCTION JOINTS & CONTROL JOINTS SHALL DIVIDE SLAB INTO AREAS NOT EXCEEDING 400 SQ FT WITHOUT REENTRANT CORNERS & WITH LENGTH TO WIDTH RATIOS NOT EXCEEDING 1.5 TO 1. JOINT SPACING SHALL NOT EXCEED 20' IN EITHER DIRECTION. SEMI-RIGID SEALANT TO BE METZGER/MCGUIRE "MM-80" OR EQUAL.

SLAB-ON-GRADE JOINT

NO NOTCHES IN

1. PREDRILL CORNERS OF NOTCHES SO AS NOT TO OVER CUT

LOCATED IN THE MIDDLE THIRD OF THE SPAN.

TYPICAL BEAM & POST CONNECTION

MIDDLE 1/3 OF SPAN

2. NOTCHES ON THE ENDS OF JOISTS & HEADERS SHALL NOT EXCEED 1/6 THE JOIST DEPTH.

4. NOTCHES ON THE BOTTOM OF JOISTS ALLOWED ONLY WHERE SPECIFICALLY SHOWN ON DRAWINGS

5. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM AND SHALL NOT

- SIMPSON CCQ POST CAP

ECCQ POST CAP @ END

SIMPSON A34 @ 2X4 SILL

OR A35 @ 2X6 SILL

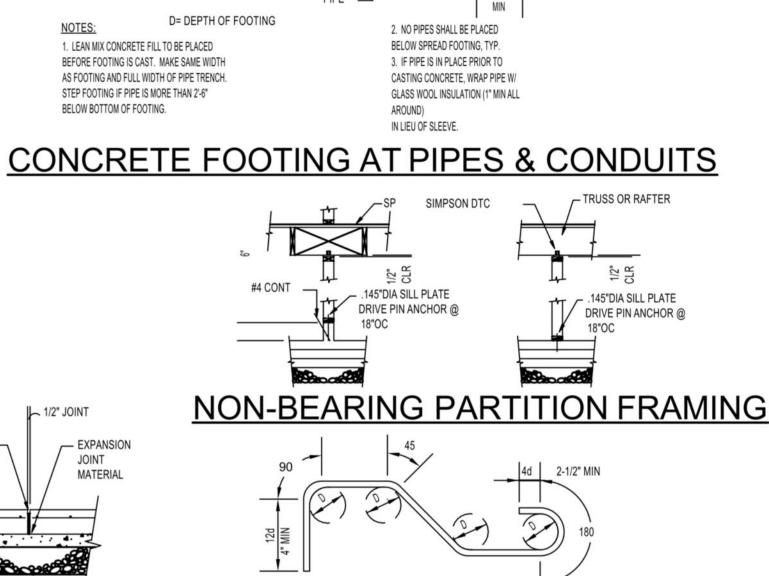
BEAM, SEE PLAN

CONDITION

NOTCHES & HOLES IN JOISTS & HEADERS

3. NOTCHES IN THE TOP OF JOISTS SHALL NOT EXCEED 1/6 THE DEPTH AND SHALL NOT BE

HAVE A DIAMETER LARGER THAN 1/3 THE DEPTH OF THE JOIST.



*4 ₹

SLEEVE

ALL PIPES TO CLEAR

SLEEVE BY 1/2" ALL

AROUND.

PIPES & CONDUIT

TO BE LOCATED

IN MIDDLE 1/3 OF

NO DIGGING FOR

TRENCH PARALLEL

TO FOOTING BELOW

THESE LINES.

1/2" JOINT

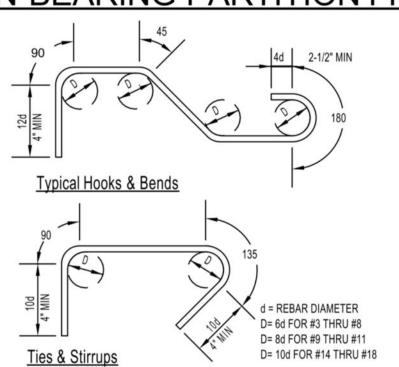
- SIMPSON PBS POST BASE

POST BASE (NO SILL PLATE)

NOTE: REINFORCING NOT

CONTIN. THRU JOINT

FOOTING.



SO AS NOT TO CROSS

OTHER CONDUITS WHEN

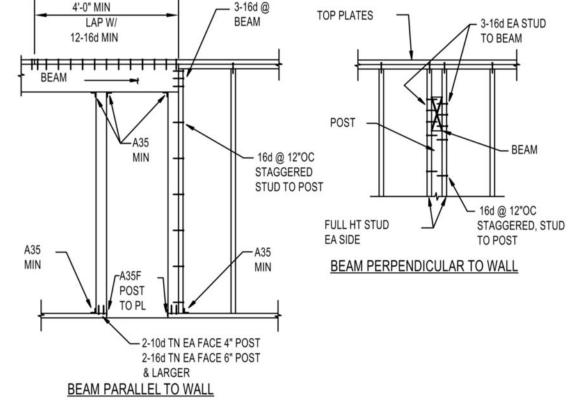
CAULK WHERE

NECESSARY

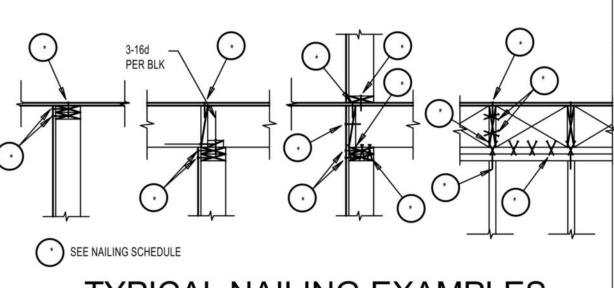
CONCRETE FILL

- LEAN MIX

REBAR HOOKS & BENDS



POST & BEAM CONNECTIONS

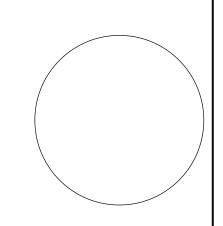


TYPICAL NAILING EXAMPLES

PREMIER DESIGN EL DORADO HILLS,CA 95672 PHONE:(916)743-0123 FAX:(866)631-1424 **EMAIL:PREMIERDESIGN@YMAIL.COM** WEB:PRMIERDESIGNONLINE.COM



CONSULTANTS



ADDITION

812 SIBLEY ST, **FOLSOM, CA 95630,** APN#07104000110000

OWNER INFORMATION

MARK DATE DESCRIPTION

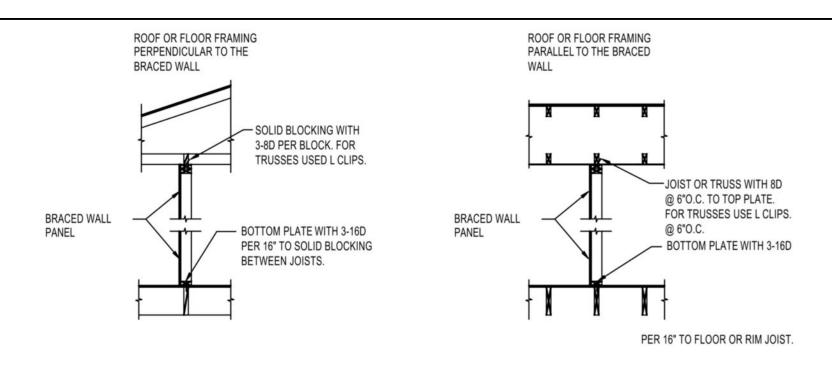
REVISION DATE: DRAWN BY: ANDREY GINZBURG CHK'D BY: **COPYRIGHT:**

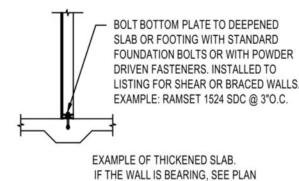
SHEET TITLE

PROJECT NO:

STRUCTURE NOTES

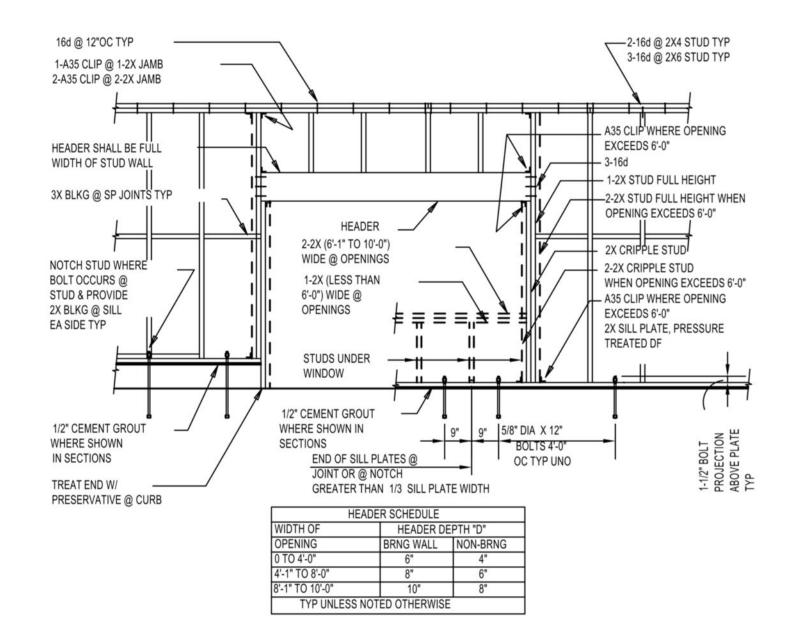
SN1



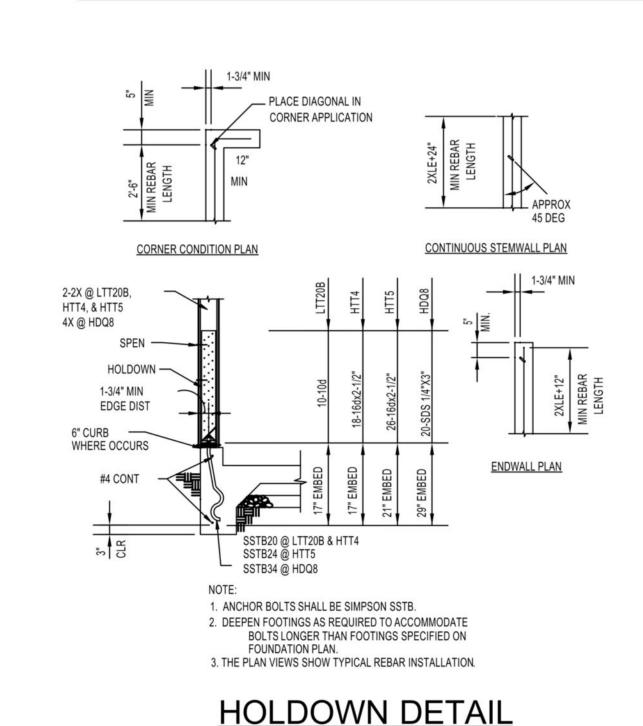


FOR FULL FOOTING REQUIREMENTS.

BRACED WALL PANEL ATTACHMENTS



TYPICAL STUD WALL & OPENING FRAME



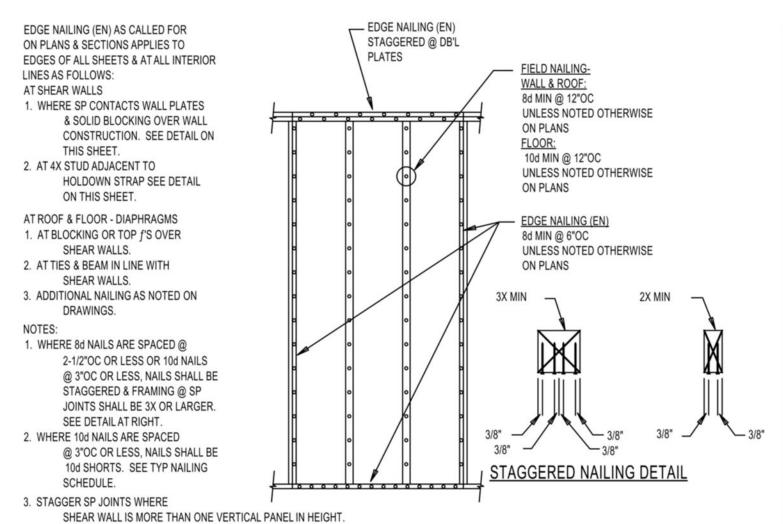
5/8" DIA STUD OR THRU BOLTS @ 36"OC & @ 6" FROM 1/4" CLR BTWN **ENDS OF STUD** SHEATHING TS COLUMN IN WALL - 2X STUD (USE 3X STUD WHERE USE 20d @ 12"OC **BOLT IS COUNTER** WHERE DRIVEN THRU TYPICAL STUD FRAMING AT CORNERS DBL JSTS RAFTERS OR STUDS JH OR FC TYP SEE PLAN FOR FRAMING - 2X BLKG TYPICAL

— SIMPSON ST22 TYP

— 2-2X BLKG MATCH DEPTH OF FRAMING

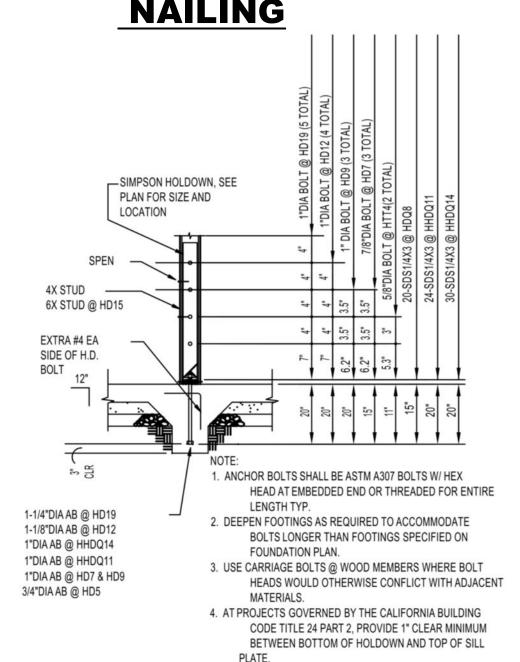
— SEE PLAN FOR

TYPICAL OPENING IN ROOF OR WALL PLYWOOD DIAPHRAM (OPNGS TO BE 4'-0" SQ MAXIMUM)



STRUCTURAL PLYWOOD & PLYWOOD SIDING N

NAILING



HOLDOWN DETAIL

RESIDENTIAL NAILING SCHEDULE

		NUMBER AND TYPE OF	
ITEM	DESCRIPTION OF BUILDING ELEMENTS	FASTENER AND TIPE OF	SPACING OF FASTENERS
Roof			
1	Blocking between joists or rafters to top plate, toe nail	4-8d box (2 ½ x 0.113")or 3-8d (2½" × 0.113"); or 3-10d box (3"x0.128");or 3-3"x0.131" neils	Toe nail
2	Ceiling joists to plate, toe nail	4-8d box (2 ½ x 0.113")or 3-8d (2½" × 0.113"); or 3-10d box (3"x0.128");or 3-3"x0.131" nails	Per joist, toe nail
3	Ceiling joists not attached to parallel rafter, laps over partitions, face (see Sections R802.3.2, R802.3.2 and Table R802.5.1(9))	4-10d box (3"x0.128");or 3-16d common (3 ½" x 0.162");or 4-3"x0.131" nails	Face nail
4	Ceiling joist attached to parallel rafter (heel joint) (see Sections R802.3.1 and R802.3.2 and Table R802.5.1(9))	Table R802.5.1(9)	Face nail
5	Collar tie to rafter, face nail or 11/4" × 20 gage ridge strap to rafter	4-10d box (3"x0.128"); or 3-10d common (3" × 0.148"); or 4-3"x0.131 nails	Face nail each rafter
6	Rafter or roof truss to plate	3-16d box nails (31½" × 0.135") or 3-10d common nails (3" × 0.148"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss!
7	Roof rafters to ridge, valley or hip rafters or roof rafter to	4-16d (3½" × 0.135"); or 3-10d common (3" × 0.148"); or 4-10d box (3"x0.128"); or 4-3" × 0.131 nails	Toe nail
	minimum 2" ridge beam	3-16d box (3½" × 0.135"); or 3-16d common (3½" × 0.148"); or 3-10d box (3"x0.128"); or 3-3" x 0.131 nails	End nails
Wall	·		12
Sec		16d common (3 ½ " × 0.162")	24" o. c. face nail
8	Stud to stud (not at braced wall panels)I	10d box (3" x 0.128"); or 3"x 0.131" nails	16" o. c. face nail
9	Stud to stud and abutting studs at intersecting wall	16d box (31/2" × 0.135"); or 3" x 0.131" naits	12" a.c.
	corners (at braced wall panels)	16d common (3 ½" x 0.162")	16" o.c. face nail
10	Built-up header (2" to 2" header with 1/2" spacer	16d common (3½" × 0.162")	16" o.c. each edge face nail
	and the same in th	16d box (3 ½" x 0.135")	12" o.c. each edge face nail
11	Continuous header to stud	5-8d box (21½" × 0.113"); or 4-8d common (2 ½"x 0.131"); or 4-10d box (3" x 0.128")	
le:	Term of	16d common (3 1/2" x 0.162")	16" o.c. face nail
12	Top plate to top plate	10d box (3" × 0.128"); or 3" x 0.131" nails	12" o.c. face nail
13	Double top plate splice	8-16d common (3½" × 0.162"); or 12-16d box (3 ½" x 0.135"); or 12-10d box (3" x 0.128"); or 12-3" x 0.131 nails	Face nail on each side of end joist (minimum 24" la splice length each side of end joint)
		IA-G A V. I STI DIMIS	

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER * * C	SPACING OF FASTENERS
Roof	1	PADIENCE	
1	Blocking between joists or rafters to top plate, toe nail	4-8d box (2 % x 0.113")or 3-8d (2"\5" x 0.113"); or 3-10d box (3"x0.128");or 3-3"x0.131" neils	Toe nail
2	Ceiling joists to plate, toe nail	4-8d box (2 ½ x 0.113")or 3-8d (2½" × 0.113"); or 3-10d box (3"x0.128");or 3-3"x0.131" nails	Per joist, toe nail
3	Ceiling joists not attached to parallel rafter, laps over partitions, face (see Sections R802.3.2, R802.3.2 and Table R802.5.1(9))	4-10d box (3"x0.128");or 3-16d common (3 ½" x 0.162");or 4-3"x0.131" nails	Face nail
4	Ceiling joist attached to parallel rafter (heel joint) (see Sections R802.3.1 and R802.3.2 and Table R802.5.1(9))	Table R802.5.1(9)	Face nail
5	Collar tie to rafter, face nail or 11/4" × 20 gage ridge strap to rafter	4-10d box (3"x0.128"); or 3-10d common (3" × 0.148"); or 4-3"x0.131 nails	Face nail each rafter
6	Rafter or roof truss to plate	3-16d box nails (31½" × 0.135") or 3-10d common nails (3" × 0.148"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss!
7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	4-16d (3½" × 0.135"); or 3-10d common (3" × 0.148"); or 4-10d box (3"x0.128"); or 4-3" x 0.131 nails	Toe nail
		3-16d box (3½" × 0.135"); or 3-16d common (3½" × 0.148"); or 3-10d box (3"x0.128"); or 3-3" x 0.131 nails	End nails
Wall			
	Stud to stud (not at braced wall panels)I	16d common (3 ½ " × 0.162")	24° o. c. face nail
8		10d box (3" x 0.128"); or 3"x 0.131" nails	16" o. c. face nail
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d box (31/2" × 0.135"); or 3" x 0.131" nails	12" o.c.
*:		16d common (3 ½" x 0.162")	16" o.c. face nail
		16d common (31/2" × 0.162")	16" o.c. each edge face nail
10	Built-up header (2" to 2" header with 1/2" spacer	16d box (3 1/2" x 0.135")	12" o.c. each edge face nail
11	Continuous header to stud	5-8d box (2½" × 0.113"); or 4-8d common (2 ½"x 0.131"); or 4-10d box (3" x 0.128")	Toe nail
100	ito a co	16d common (3 ½" x 0.162")	16" o.c. face nail
12	Top plate to top plate	10d box (3" × 0.128"); or 3" x 0.131" nails	12" o.c. face nail
13	Double top plate splice	8-16d common (31½" × 0.162"); or 12-16d box (3 ½" x 0.135"); or 12-10d box (3" x 0.128"); or 12-3" x 0.131 nails	Face nail on each side of end joist (minimum 24" la splice length each side of end joint)
		1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 -	16" o.c. face nail
	Bottom plate to joist, rim joist, band joist or blocking (no	16d common (3 ½" x 0.162")	12 ° o.c. face nail
14	at braced wall panels)	16d box (3 ½" x 0.135"); or 3" x 0.131" nails	10 200 3000 1100

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER 4 5.0	SPACING OF FASTENERS
15	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panels)	3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 4-3" x 0.131 nails	3 each 16" o.c. face nail 2 each 16" o.c. face nail 4 each 16" o.c. face nail
16	Top or bottom plate to stud	4-8d box (2 ½" x 0.113"); or 3-16d box (3½" x 0.135"); or 4-8d common (2½" x 0.131"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131 nails	Toe nail
		3-16d box (3 ½" x 0.135"); or 2-16d common (3 ½" x 0.162"); or 3-10d box (3"x 0.128"); or 3-3" x 0.131 nails	End nail
17	Top plates, laps at corners and intersections	3-10d box (3" x 0.128"); or 2-16d common (3 ½" x 0.162"); or 3-3" x 0.131 nails	Face nail
18	1" brace to each stud and plate	3-8d box (2½" × 0.113"); or 2-8d common (2 ½"x 0.131"); or 2010d box (3" x 0.128"); or 2 staples 1 ½" ×	Face nail
19	1" × 6" sheathing to each bearing	3-8d box (2½" × 0.113"); or 2-8d common (2 ½" × 0.131"); or 2-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1 ¾" long	Face nail
20	1" × 8" and wider sheathing to each bearing	3-8d box (2*/s" × 0.113"); or 3-8d common (2 %" x 0.121"); or 3-10d box (3" x 0.128"); or 3 staples 1" crown, 16 ga., 1 %" long Wider than 1" x 8" 4-8d box (2 %" x 0.113"); or 3-8d common (2 %" x 0.131"); or 3-10d common (3" x 0.128"); or 4 staples, 1" crown, 16 ga., 1%" long	Face nail
Floor	<u> </u>		
21	Joist to sill, top plate or girder	4-8d box (21/3" × 0.113"); or 3-8d common (2 %" x 0.131"); or 3-10d box (3"x 0.128"); or 3-3" x 0131" nails	Toe nail
22	Rim joist, band joist or blocking to sill or top plate (roof application also)	8d box (21½" × 0.113") 8d common (2 ½" x 0.131"); or 10d box (3" x 0.128"); or 3" x 0.131" nails	4" o.c. toe nail 6" o.c. toe nail
23	1" × 6" subfloor or less to each joist	3-8d box (21/2" × 0.113"); or 2-8d common (2 ½" x 0.131"); or 3-10d box (3" x 0.128"); or 2 staples, 1" crown, 16 ga., 1 ½" long	Face nail
24	2" subfloor to joist or girder	3-16d bax (3 ½" x 0.135") 2-16d common (3 ½ " x 0.162")	Blind or face nail
25	2" planks (plank & beam - floor & roof)	3-16d box (31/2" × 0.135"); or 2-16d common (3 1/2" x 0.162")	At each bearing
26	Band or rim joist to joist	3-16d common (3 ½" x 0.162") 4-10 bax (3" x 0.128"), or 4-3" x 0.131" nails, or 4-3" x 14 ga. staples, 7/16" crown	End nail
		20d common (4" x 0.192"); or	Nail each layer as follows: 32" o.c. at top and bottom and staggered.
27	Built-up girders and beams, 2-inch lumber layers	10d box (3" x 0.128"); or 3" x 0.131" nails	24° o.c. face nail at top and bottom staggered of opposite sides.
		And: 2-20d common (4" x 0.192©; or 3-10d box(3 ½" x 0.128"); or 3-3" x 0.131" nails	Face nail at ends and at each splice
28	Ledger strip supporting joists or rafters	4-16d box (3 ½" x 0.135"); or 3-16d common (3½" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131 nails	At each joist or rafter, face nail
29	Bridging to joist	2-10d (3" x 0.128"), or 2-8d common (2 ½" x 0.131"; or 2-3" x 0.131") nails	Each end, toe nail

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			TABLE	R602.3(3)					
MINIMUM NAIL		MINIMUM WOOD STRUCTURAL	MINIMUM NOMINAL M	MAXIMUM WALL STUD SPACING	PANEL NAIL SPACING		ULTIMATE DESIGN WIND SPEED V _{slt} (mph)		
Size	Penetration (inches)	PANEL SPAN RATING	THICKNESS (inches)	(inches)	Edges (inches o.c.)	Field (inches o.c.)	Wind exp	c c	ategor
6d Common	1.5	24/0	3/ ₈	16	6	12	140	115	110
$(2.0" \times 0.113")$									
(2.0" × 0.113") 8d Common	1.75	24/16	7/16	16	6	12	170	140	13

a. Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports. b. Table is based on wind pressures acting toward and away from building surfaces in accordance with Section R301.2. Lateral bracing requirements shall be in

e. Wood structural panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16 o.c. or 24 o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 o.c. shall be used with studs spaced not more than 16 inches on center.

TABLE R602.3(4) ALLOWABLE SPANS FOR PARTICLEBOARD WALL SHEATHING^a

(see Table R602.3(3) for wood structural panel exterior wall sheathing to wall framing)

6d common (2" × 0.113") nail (subfloor wall)

"long 16 ga. Staple with 7/16" or 1" crown 2" galvanized roofing nail; staple galvanized.

f. Where the ultimate design wind speed is 130 mph or less, nails for wood structural panel roof sheathing to gable end wall framing shall be space 6 inches on center. Where the ultimate wind speed is greater than 130 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.

g. Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.

As in Case,

In Spacing of fasteners on floor sheathing panel edges applies to panel edge supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof and floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or sold locking.

j. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be

1/2" gypsum sheathing⁽⁾

3/4" and less

7/e" - 1"

11/8" - 11/4"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 Ksi = 6.895 MPa

required.

j. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

b. Staples are 16 gage wire and have a minimum ⁷/₉₈-inch on diameter crown width.

d. Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically. e. Spacing of fasteners not included in this table shall be based on Table R602.3(2)

THICKNESS	GRADE	STUD SPACING (inches)			
(Inch)		When siding is nailed to studs	When siding is nalled to sheathing		
3/8	M-1 Exterior glue	16	_		
1/2	M-2 Exterior glue	16	16		

a. Wall sheathing not exposed to the weather. If the panels are applied horizontally, the end joints of the panel shall be offset so that four panel corners will not meet. All panel edges must be supported. Leave a 1/15-inch gap between panels and nail not less than 3/18 inch from panel edges.

TABLE R602.3(5) SIZE, HEIGHT AND SPACING OF WOOD STUDS Maximum spacing when supporting one floor, plus a roof-ceiling assembly or a habitable attic habitable attic (inches) Laterally

a. Listed heights are distances between points of lateral support placed perpendicular to the plane of the wall. Bearing walls shall be sheathed on not less than one side or bridging shall be installed not greater than 4 feet apart measured vertically from either end of the stud. Increases in unsupported height are permitted where in compliance with Exception 2 of Section R602.3.1 or designed in accordance with accepted engineering practice. b. Shall not be used in exterior walls.

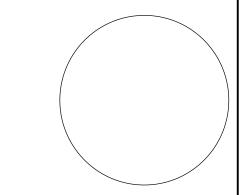
c. A habitable attic assembly supported by 2 × 4 studs is limited to a roof span of 32 feet. Where the roof span exceeds 32 feet, the wall studs shall be increased to 2×6 or the studs shall be designed in accordance with accepted engineering practice.

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ADDITION

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OWNER INFORMATION

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SHEET TITLE

STRUCTURE NOTES

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