

# ACCESSORY DWELLING UNIT - 1 BEDROOM

## PROJECT DATA:

PROJECT:  
 OWNER: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 APN NUMBER: \_\_\_\_\_  
 STORIES: 1  
 FIRE SPRINKLERS: YES/NO  
 SQUARE FOOTAGE: 625 SQ. FT.  
 TYPE OF CONSTRUCTION: V-B  
 OCCUPANCY GROUP: R-3  
 ZONING : \_\_\_\_\_  
 CLIMATE ZONE: 3  
 EXPOSURE CATEGORY: B  
 SEISMIC DESIGN CATEGORY (D<sub>0</sub>, D<sub>1</sub>, D<sub>2</sub>)

## GENERAL NOTES

1. The Contractor shall provide adequate stays and bracing of all framing until all elements of design have been incorporated in the project.
2. Contractor shall field verify all dimensions prior to commencing with new work.
3. Work under this permit does not require Special Inspection or structural observation.
4. If applicable fire walls shall be provided and shall comply with section R302.
5. Location of HVAC subject to field inspection.
6. HERS Verification required for the HVAC Cooling, HVAC Distribution, & HVAC Fan Systems per T24 Energy Calculation Documentation. Provide completed CalCerts or CHEERS Project Summary Report (PSR) as evidence of Third Party Verification (HERS) to Building Inspector prior to final inspection.

### SITE PLAN NOTES REQUIREMENTS

- **Applicant shall provide a site plan for property showing the location of the proposed ADU.**
- Location of the ADU shall comply with all setback and Fire Separation Distance requirements of OMC Titles 15 and 17.
- Site Plan shall be drawn to scale. Site slope shall not exceed 10%.
- Plans are based on 5' minimum Fire Separation Distance.

## APPLICABLE BUILDING CODES:

2022 CALIFORNIA BUILDING CODE (CBC)  
 2022 CALIFORNIA RESIDENTIAL CODE (CRC)  
 2022 CALIFORNIA PLUMBING CODE (CPC)  
 2022 CALIFORNIA MECHANICAL CODE (CMC)  
 2022 CALIFORNIA ELECTRIC CODE (CEC)  
 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)  
 2022 CALIFORNIA ENERGY CODE  
 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE  
 2022 CALIFORNIA FIRE CODE  
 OAKLAND MUNICIPAL CODE TITLES 15 AND 17

## SHEET INDEX:

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A1	FLOOR PLAN
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A6	ELEVATIONS

## BUILDING STAMP

## PLANNING STAMP

COVER PAGE

OWNER'S NAME:  
 PROJECT ADDRESS:

SHEET:

**A0.1**

# CALIFORNIA MECHANICAL CODE NOTES

## EXHAUST SYSTEMS

1. Exhaust ducts shall terminate outside the building and be equipped with back draft dampers. (CMC Section 504.1)
2. Kitchen range ventilation ducts shall be metal with smooth interior surfaces. (CMC Section 504.3)
3. The clothes dryer shall be exhausted using approved 4" Ø min ducting. The ducting shall not exceed 14' with a maximum of 2-90° elbows, unless permitted by manufacturer instructions and the local jurisdiction. (CMC Section 504.4)
4. No HVAC or water heater vents shall terminate less than 4'-0" below or to the side, or less than 1'-0" above any door or operable window. (CMC Section 802.8.1)

## VENTILATION (Per CMC Section 402 & ASHRAE 62.2)

5. Kitchen - 100 cfm (On Demand), 1 SONE, 5" Ø min duct
6. Bathroom - 50 cfm (On Demand), 1 SONE, 4" Ø min duct
- Whole House - Per plans
- Indoor Air Quality Fan - Per plans

## APPLIANCES

7. Appliances installed in attics shall be accessible through an opening and passageway at least as large as the largest component of the appliance and not less than 22" X 30" with minimum 30" headroom clearance. The appliance shall be located within 20' of the passageway access when attic has less than 6' headroom. Passageway shall be unobstructed and shall have solid flooring not less than 24" wide from the entrance to the appliance. A permanent 120- volt receptacle outlet and lighting fixture shall be located at the entrance to the passageway. (CMC 304.4, CPC 509.4)

# CALIFORNIA RESIDENTIAL CODE NOTES

## WINDOWS

1. All new or replaced windows shall be dual glazed with low-E glass. Do not remove NFRC stickers from glazing prior to approved inspection. Bedroom windows shall have a minimum net clear escape opening of 5.7 SF with a minimum net clear opening height of 24" and minimum net clear opening width of 20". The window opening bottom edge shall not be more than 44" above the floor. (CRC Section R310)
2. The Contractor shall provide safety glazing for all conditions deemed a "hazardous location" per CRC Section R308.4.

## BATHROOMS

3. Wall finishes at shower/ bathtub enclosures shall consist of a non- absorbent surface and extend up to six feet above finish floor per CRC R307.2. "Green Board" is not acceptable in shower/ bathtub enclosures. Acceptable tile based materials at shower/ bathtub enclosures include fiber cement, fiber mat reinforced concrete, glass mat gypsum backers, or fiber reinforced gypsum backers. (CRC Section R702.4.2)
4. Aging-In-Place and Fall Protection - Grab bar reinforcement, electrical receptacle outlet, switch and control heights, interior door sizes, and doorbell buttons per CRC R327.

# CALIFORNIA ENERGY CODE NOTES

## NEW CONSTRUCTION

1. Mandatory measures of section 150 shall apply only to and/or within the specific area of the addition or alteration. (Energy Code Section 150.2) MANDATORY MEASURES (Energy Code Sections 110 & 150)
2. MANDATORY REQUIREMENTS TO LIMIT AIR LEAKAGE (Energy Code Section 110.7) - All joist penetrations, and other openings in the building envelope that are potential source for air leakage shall be caulked, gasketed, weather-stripped or otherwise sealed to limit infiltration & exfiltration.
3. PHOTOVOLTAIC REQUIREMENTS  
All low-rise residential buildings shall have a photovoltaic (PV) system meeting the minimum requirements as specified in Joint Appendix JA11, with annual electrical output equal to or greater than the dwelling's annual electrical usage as determined by Equation 150.1-C
4. PIPE INSULATION - (Energy Code Section 150 (j)) Hot water pipe insulation shall have a minimum wall thickness of not less than the diameter of the pipe for a pipe up to 2" diameter. Insulate all pipes used to circulate hot water to kitchen fixtures, to a storage tank or between storage tanks. Insulate the first 5' of piping from the water heater.
5. LIGHTING - (Energy Code Section 150 (k))
  - a. Efficacy - All installed luminaires shall be high-efficacy in accordance w/Table 150.0- A
  - b. Recessed downlight luminaires in ceilings - All assemblies shall be IC rated, AT rated, sealed, and comply w/ Joint Appendix JA8. Recessed assemblies shall not contain screw base sockets.
  - c. Interior lighting, Switching Devices & Controls - Dimmers or vacancy sensors shall control all luminaires required to have a light source compliant w/ Joint Appendix JA8. (Closets less than 70sf & hallways do not require dimmers or vacancy sensors). At least one luminaire in a bathrooms, garages, laundry rooms, and utility rooms shall be controlled by an occupant or vacancy sensor.
  - d. Residential Outdoor Lighting - All fixtures shall be controlled by either photocell & motion sensor, photocontrol & automatic time switch, astronomical time clock, or EMCS.
6. HVAC - See Title 24 Energy Calculation Documentation
7. VENTILATION - (Energy Code Section 150 (o)) All dwelling units shall meet the requirements of ASHRAE 62.2 SEE CALIFORNIA MECHANICAL CODE NOTES.
8. All Newly Constructed Buildings are subject to the All-Electric provisions of OMC 15.37.

# CALGREEN CODE NOTES

## MANDATORY MEASURES (CALGREEN CH 4)

1. INDOOR WATER USE - (CALGreen Section 4.303) All new plumbing fixtures, or fixtures part of an addition or alteration shall comply with the following mandatory allowable flow rates.

FIXTURE TYPE	MANDATORY FLOW RATE FOR NEW "WATER CONSERVING" FIXTURES
SHOWERHEADS	1.8 GPM @ 80 PSI
LAVATORY FAUCETS	1.2 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PPSI
GRAVITY TANK TYPE WATER CLOSETS	1.28 GAL/ FLUSH

- A. When single shower fixtures are served by more than one shower-head, the combined flow rate of all the showerheads shall not exceed the maximum flow rates specified.
3. ENHANCED DURABILITY AND REDUCED MAINTENANCE - (CALGreen 4.406) Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls, shall be protected against the passage of rodents by closing such opening with cement mortar, concrete masonry or similar method acceptable to the building official.
  4. POLLUTANT CONTROL - (CAL Green Section 4.504) At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other approved method to reduce the amount of water, dust and debris, which may enter the system.
  5. INTERIOR MOISTURE CONTROL - (CALGreen Section 4.505) Building materials with visible signs of moisture damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content per CALGreen Section 4.505.3. 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 manufacturer's drying recommendations prior to enclosure. Concrete slab foundations required to have a vapor retarder and capillary break.
  6. INDOOR AIR QUALITY - (CALGreen Section 4.506) Each bathroom shall be mechanically ventilated with ENERGY STAR compliant fan. The fan shall be controlled by a humidity control and ducted outside the building. The humidity control shall be capable of adjustment between a relative humidity range of 50 to 80 percent. A humidity control may utilized manual or automatic means of adjustment. A humidity control may be a separate components to the exhaust fan and is not required to be integral.
  7. ENVIRONMENTAL COMFORT - (CALGreen Section 4.507) Perform residential load calculations using ANSI/ACCA 2 Manual J approved methods or software. Size ducting in accordance with ANSI/ACCA 1 Manual D. Select cooling equipment according to ANSI/ACCA 3 Manual S.

## GENERAL NOTES

SHEET:

**A0.2**

OWNER'S NAME:  
PROJECT ADDRESS:

WALL LEGEND	
	2X6 WOOD STUDS @16" O.C.
	2X4 WOOD STUDS @16" O.C.

- GENERAL NOTES
- USE 'DUROCK', 'WONDERBOARD', OR AN APPROVED EQUAL BEHIND GLUED-ON TILE IN TUB, BATH, OR SHOWER AREAS.
  - SEPARATE SEWER LATERAL PERMIT AND INSPECTIONS REQUIRED FROM DOT PRIOR TO CONNECTING.

CALIFORNIA PLUMBING CODE NOTES

- Provide a back flow prevention device at all hose bibs and water supply lines. (CPC 603.3)
- Showers and shower/ tub combinations shall have individual control valves of the pressure balance, thermostatic or combination pressure balance/thermostatic mixing valve type. Provide temperature regulation to limit hot water temperature to 120°F. The water heater thermostat shall not be considered appropriate means. (CPC 408.3)
- No Domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine. Listed air gaps shall be installed with the flood-level (FL) making at or above the flood level of the sink or drainboard, whichever is higher. (CPC 807.3)
- Water closet stool shall be located minimum 15" from its center to any side wall or obstruction (minimum 30" clear space in width) and have a clear space in front of the water closet stool not less than 24". (CPC 402.5)

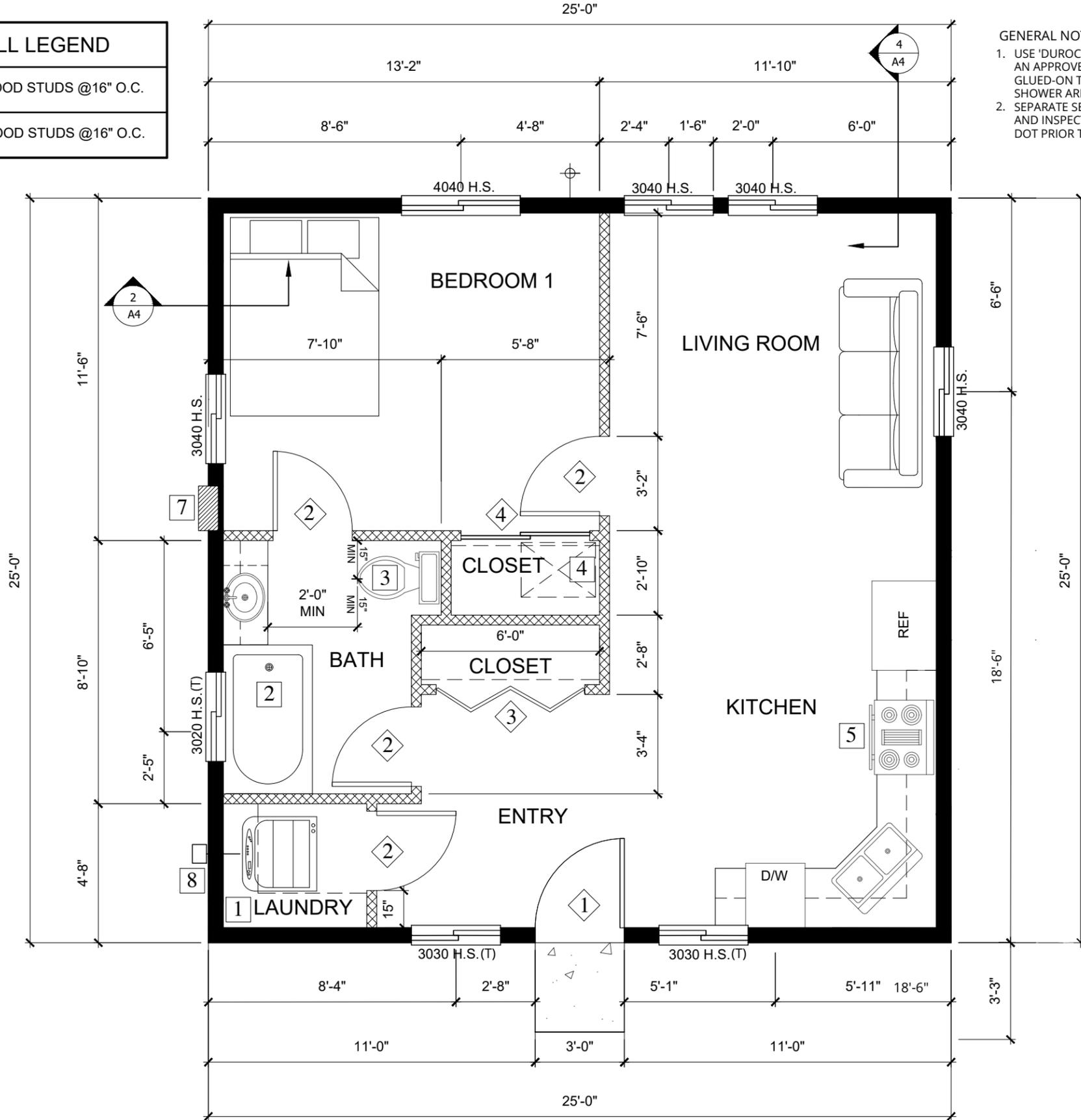
DOOR AND FRAME SCHEDULE

SYMBOL	SIZE			
	WD	HGT	THK	STYLE
1	3'-0"	6'-8"	1 3/4"	R.H.
2	2'-8"	6'-8"	1 3/8"	L.H.
3	5'-0"	6'-8"	1 3/8"	BIFOLD
4	2'-4"	6'-8"	1 3/8"	SLIDER

- NOTE:
- ALL HEADERS AT EXTERIOR DOOR AND WINDOW OPENINGS SHALL BE 4X8 D.F. #2 MIN.
  - WINDOWS IN BEDROOMS THAT ARE A PART OF EMERGENCY EGRESS ESCAPE RESCUE OPENING REQUIREMENTS SHALL HAVE A SILL HEIGHT NO MORE THAN 44" ABOVE FINISHED FLOOR.

FLOOR PLAN LEGEND

1	STACK-ABLE WASHER/ DRYER COMBO
2	30" X 60" TUB/SHOWER UNIT SHOWER HEAD 1.8 GPM
3	TOILET 1.28 GPM
4	22"X30" ATTIC ACCESS PANEL
5	RANGE/OVEN MICRO OV.
6	NOT USED
7	EXTERIOR WATER HEATER
8	EXHAUST FOR DRYER



# FLOOR PLAN

SCALE 1/4" = 1'-0"

FLOOR PLAN

OWNER'S NAME:  
 PROJECT ADDRESS:

SHEET:

A1

# CALIFORNIA ELECTRICAL CODE NOTES

## GROUNDING

1. Provide UFER ground located at main service panel per CEC Article 250.50.

## CIRCUITS

2. Provide two minimum separate amp circuit to kitchen appliances. (CEC Article 220.52 (A)).
3. Provide one minimum 20 amp circuit to laundry appliances. (CEC Article 220.52 (B)).
4. At least one bathroom receptacle outlet supplied by at least one 20-amp branch circuit shall be located within 3' of the basin edge. Such circuits shall have no other outlets. (CEC Article 210.52 (D))
5. The following receptacles shall be GFCI protected (CEC Article 210.8):
  - a. Bathrooms
  - b. Garages
  - c. Outdoors
  - d. Kitchens- where the receptacles are installed to serve the countertop
  - e. Within 6' of sink basins
  - f. Laundry Rooms
6. All branch circuits that supply 120-volt, single phase, and 15 and 20 amp outlets installed in dwelling unit bedrooms, family rooms, living rooms, dens, closets, and hallways shall be protected by a listed arc-fault circuit interrupter. (CEC Article 210.12)

## RECEPTACLES

7. Receptacle outlets shall be installed so that no point along the floor line in any wall space is more than 6 feet measured horizontally, from an outlet in that space, including any wall space 2 feet more in width. (CEC Article 210-52(A))
8. All 120-volt, 15 and 20 amp receptacles shall be listed tamper resistant. (CEC Article 406.12)
9. Clothes closet light fixtures shall be listed and installed in accordance with their listing. (CEC Article 410.16)
10. At least one 120-volt weather-proof receptacle should be located at the front & back at no more than 6.5' above grade (CEC Article 210.52(E)(1)-(E)(3)).

## LIGHTING

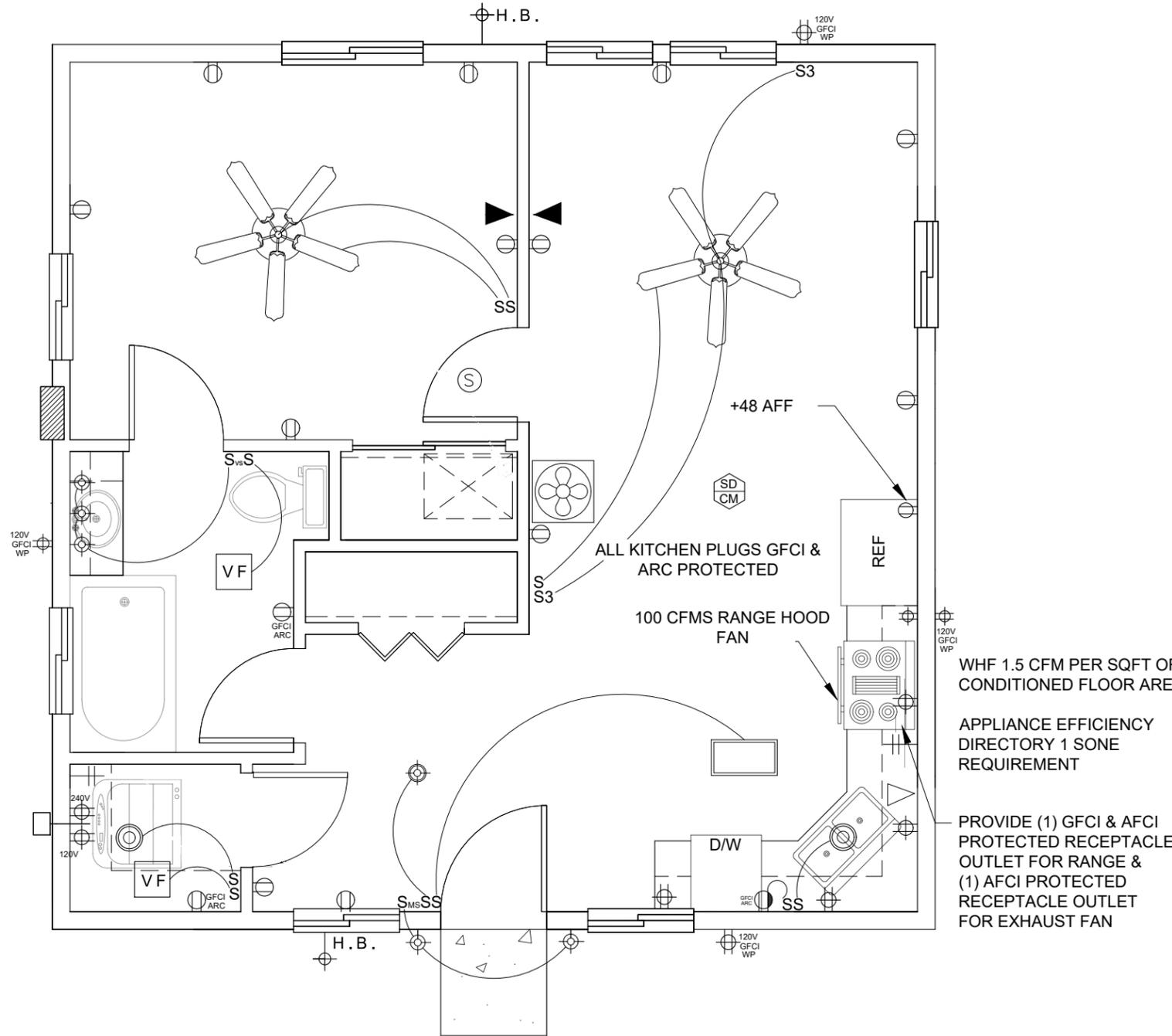
11. See CALIFORNIA ENERGY CODE NOTES

## FIRE PROTECTION REQUIREMENTS

1. Install combination smoke detector/ carbon monoxide alarms in dwelling units and sleeping units within which fuel-burning appliances are installed and in dwelling units that have attached garages. Alarms shall be interconnected such that activation of one alarm will activate all alarms within the unit. (CRC Section R315.2)

## MISCELLANEOUS

2. Ceiling fans shall not be supported by standard outlet boxes. Ceiling fan support boxes shall be listed accordingly. (CEC Article 314.27 (C))
3. Provide a minimum 30" wide by 36" deep by 6 1/2' high illuminated clear working area shall be provided in front of each panel (CEC Article 110.26).



GENERAL NOTES  
 1. ALL HVAC EQUIPMENT AND WATER HEATERS TO COMPLY WITH APPROVED ENERGY CALCULATIONS FOR TYPE AND EFFICIENCY.

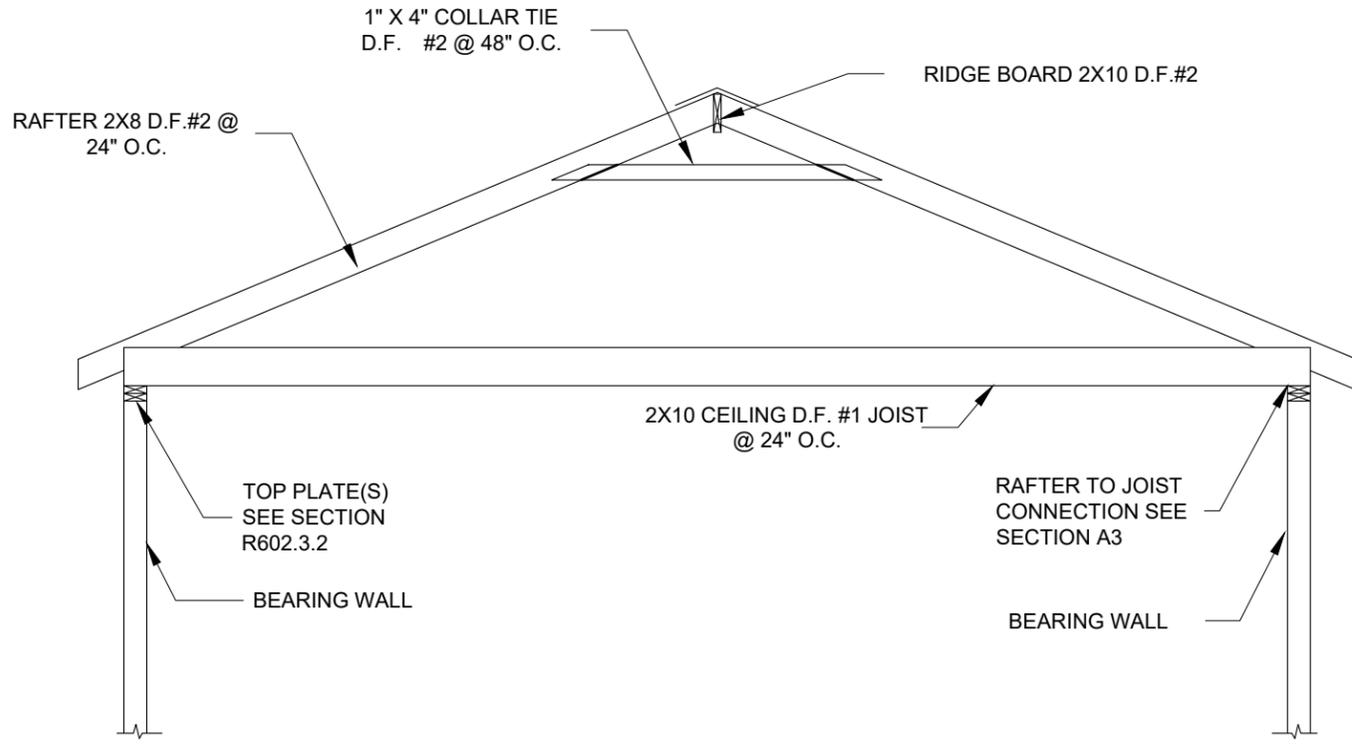
ELECTRICAL KEY	
	CEILING FAN WITH HIGH EFFICACY LIGHT FIXTURE
S	SINGLE WALL SWITCH
S <sub>vs</sub>	WALL SWITCH WITH VACANCY SENSOR
S <sub>ms</sub>	WALL SWITCH EQUIPPED WITH A MOTION SENSOR AND PHOTOCONTROL
S <sub>s</sub>	TWO-WAY SWITCH
	TELEPHONE JACK
	TELEVISION JACK
	GAS
	HOSE BIB (LOCATE IN FIELD) PROTECTED BY A BACKFLOW PREVENTION DEVICE
	2' X 4' LED PANEL (CEC Article 110.26).
	RECESSED LIGHT / BULB OR EXTERIOR LIGHT
	HIGH EFFICACY LIGHTING. IF OUTDOORS OR ABOVE A SHOWER/TUB IT MUST BE LISTED FOR WET OR DAMP LOCATIONS.
	WHOLE HOUSE FAN MIN. 937.5 CFMS
	VENT FAN (MIN 50 CFM EQUIPT WITH HUMIDISTAT & ENERGY STAR COMPLIANT)
	SWITCH CONTROLLED RECEPTACLE OUTLET
	110V DUPLEX RECEPTACLE OUTLET (ARC FAULT PROTECTED)
	110V DUPLEX OUTLET ABOVE COUNTER HT. (GFCI & ARC FAULT PROTECTED)
	120V DUPLEX OUTLET ABOVE GRADE (WP & GFCI PROTECTED)
	COMBO UNIT SMOKE & CO2
	SMOKE DETECTORS (CARBON MONOXIDE DETECTOR NOTED)

NOTE: ALL RECEPTACLE OUTLETS SHALL BE TAMPER RESISTANT

# ELECTRICAL PLAN

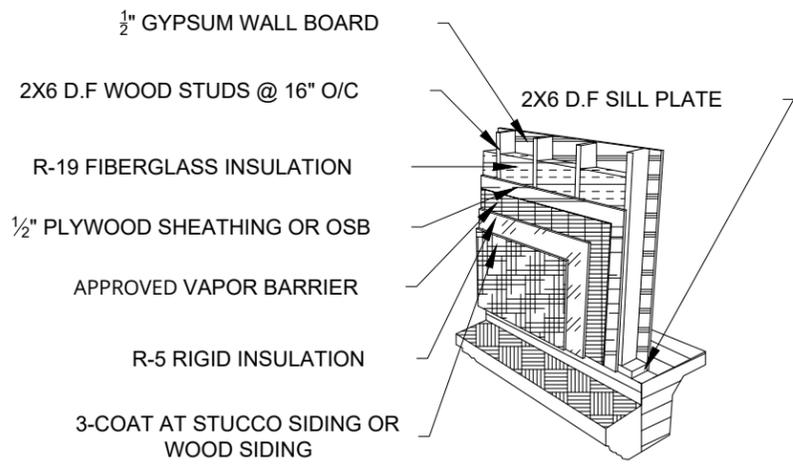
SCALE 1/4" = 1'-0"



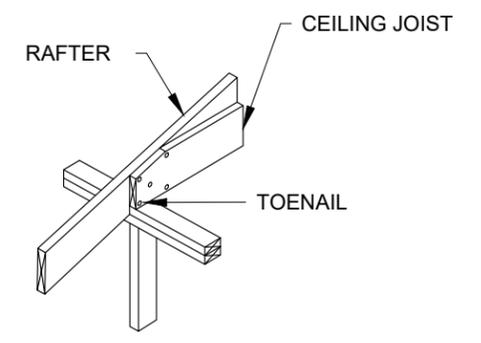


**1**  
**A4** BRACED RAFTER CONSTRUCTION

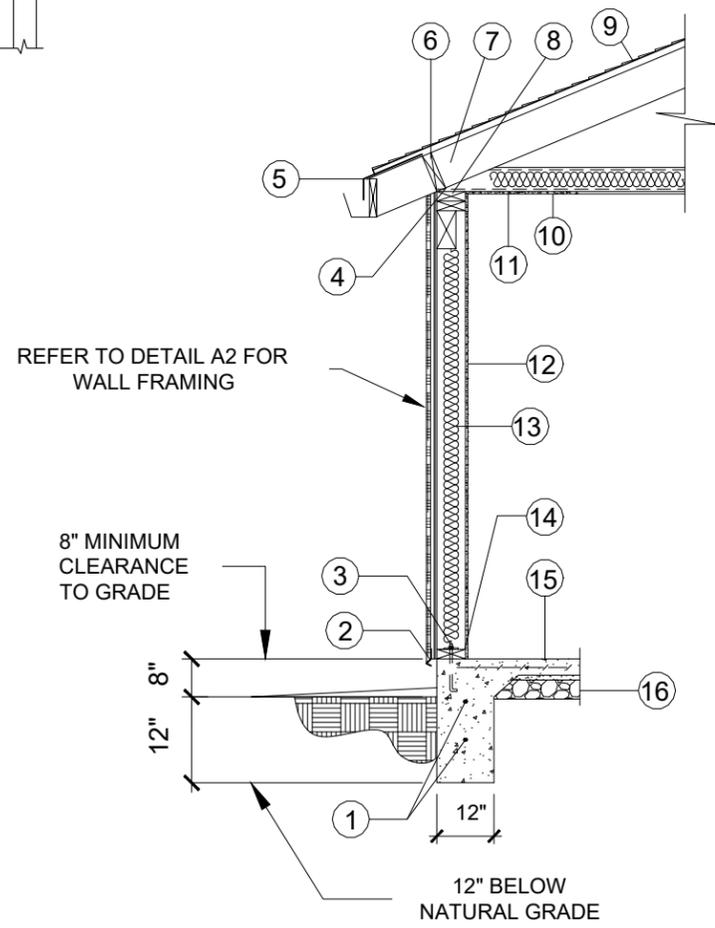
1. 1 #4 TOP & BOTTOM CONT. 24" OVERLAP AT ALL SPLICES.
2. WEEP SCREED 26 GAUGE GALVANIZED
3. 5/8" DIA. X 10" ANCHOR BOLT W/ 3" X 3" X 1/4" SQUARE WASHER, TYP.
4. SIMPSON A-35 @ 24" O.C.
5. DRIP EDGE
6. 2X8 D.F. #2 BLOCKING W/ 8d NAILS @ 6" O.C
7. RAFTERS 2X8 @ 24" O.C. OR PRE MANUFACTURED TRUSSES W/ R-19 INSULATION
8. DOUBLE TOP PLATE (MIN. 48" SPLICE) WITH 12 (16D) NAILS @ EACH SIDE OF SPLICE
9. ROOF SHEATHING (SEE ROOF PLAN)
10. 5/8" GYPSUM BOARD APPLIED PERPENDICULAR @ CEILING
11. BOTTOM TRUSS CORD OR CEILING JOIST W/ R-30 INSULATION
12. INTERIOR WALL FINISH- 1/2" GYPSUM BOARD APPLIED PERPENDICULAR
13. R-19 INSULATION IN STUD CAVITY
14. 2X6 D.F. #2 BOTTOM PLATE (PRESSURE-TREATED WHEN IN CONTACT WITH CONCRETE) WITH 5/8" X 10" ANCHOR BOLT @ 4' O.C. MAX (MIN. TWO BOLTS PER SILL SECTION)
15. 4" CONCRETE SLAB 2,500 PSI MINIMUM REINFORCED WITH A MINIMUM OF 6X6 #10 GAUGE WELDED WIRE REINFORCING MESH CENTERED IN SLAB OVER 10MIL VAPOR BARRIER, OVER 2" SAND, OVER 4" AGGREGATE BASE
16. 4" SAND/ GRAVEL MIN.



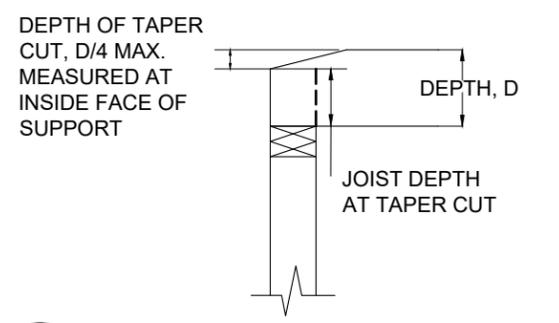
**2**  
**A4** EXTERIOR WALL FRAMING



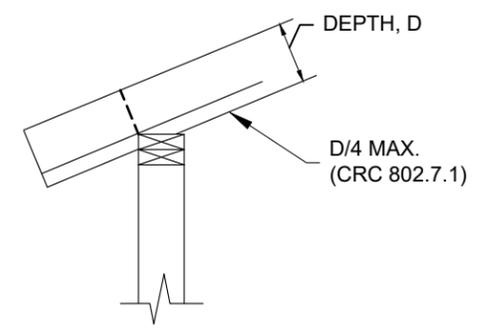
**3**  
**A4** CEILING JOIST TAPER CUT



**4**  
**A4** SLAB-FLOOR CONSTRUCTION FOOTING



**3.1**  
**A4** CEILING JOIST TAPER CUT



**3.2**  
**A4** RAFTER NOTCH

# DETAILS

SCALE 1/4" = 1'-0"

## DETAILS

OWNER'S NAME:  
 PROJECT ADDRESS:

SHEET:

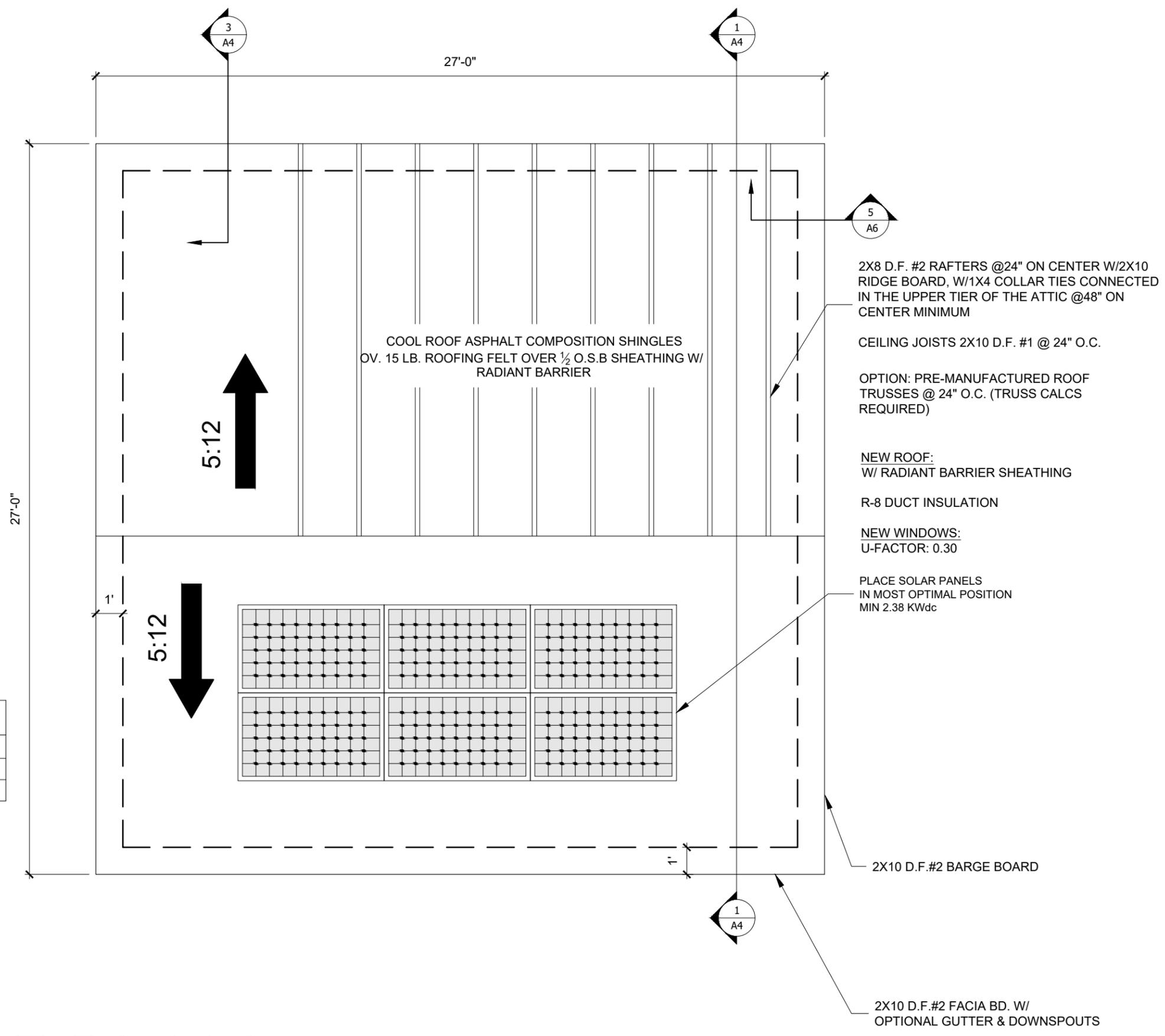
**A4**

ROOF PLAN

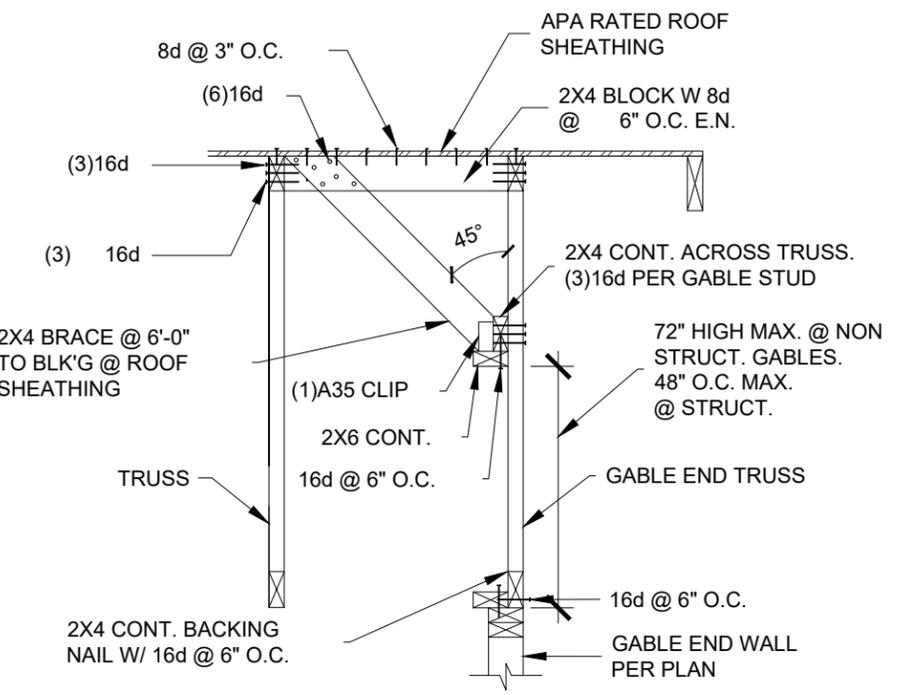
OWNER'S NAME:  
 PROJECT ADDRESS:

SHEET:

A



- 2X8 D.F. #2 RAFTERS @24" ON CENTER W/2X10 RIDGE BOARD, W/1X4 COLLAR TIES CONNECTED IN THE UPPER TIER OF THE ATTIC @48" ON CENTER MINIMUM
- CEILING JOISTS 2X10 D.F. #1 @ 24" O.C.
- OPTION: PRE-MANUFACTURED ROOF TRUSSES @ 24" O.C. (TRUSS CALCS REQUIRED)
- NEW ROOF:  
W/ RADIANT BARRIER SHEATHING
- R-8 DUCT INSULATION
- NEW WINDOWS:  
U-FACTOR: 0.30
- PLACE SOLAR PANELS  
IN MOST OPTIMAL POSITION  
MIN 2.38 KWdc



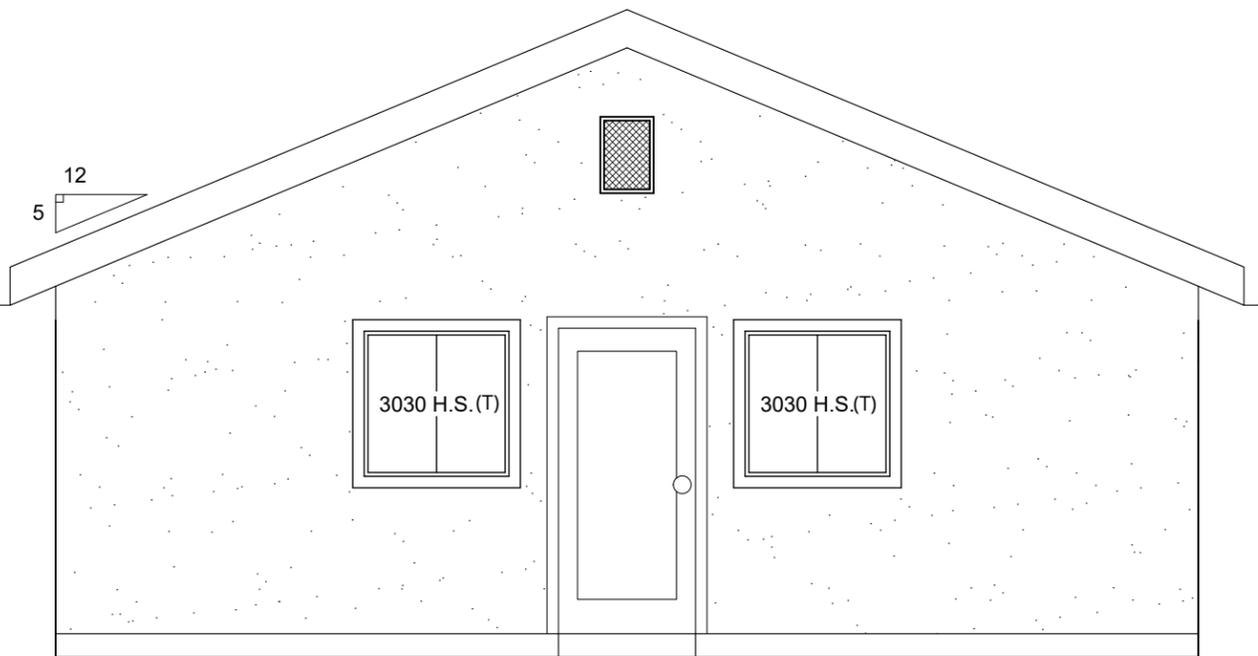
5 GABLE END DETAIL  
 A5

ATTIC VENT CALCULATIONS				
TYPE	SIZE	QUANTITY	NET FREE AREA	PERCENTAGE (BETWEEN 40% - 50%)
GABLE VENT	12 X 18	2	126 SQ IN	42%
EAVE	22 X 3	4	160 SQ IN	58%

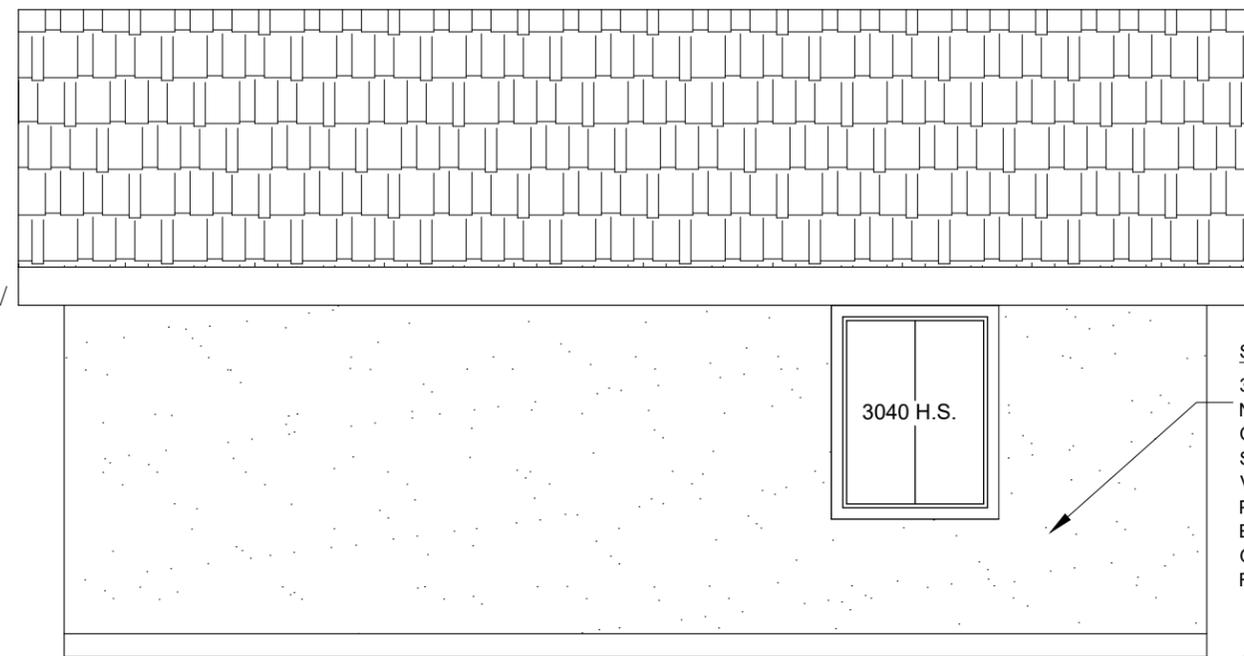
CALCULATION: ADU SQUARE FOOTAGE  $\frac{626}{300} = 2.09$  SQ FT.  
 $2.09 \times 144 = 301$  SQ IN.

# ROOF PLAN

SCALE:  $\frac{1}{4}'' = 1'-0''$



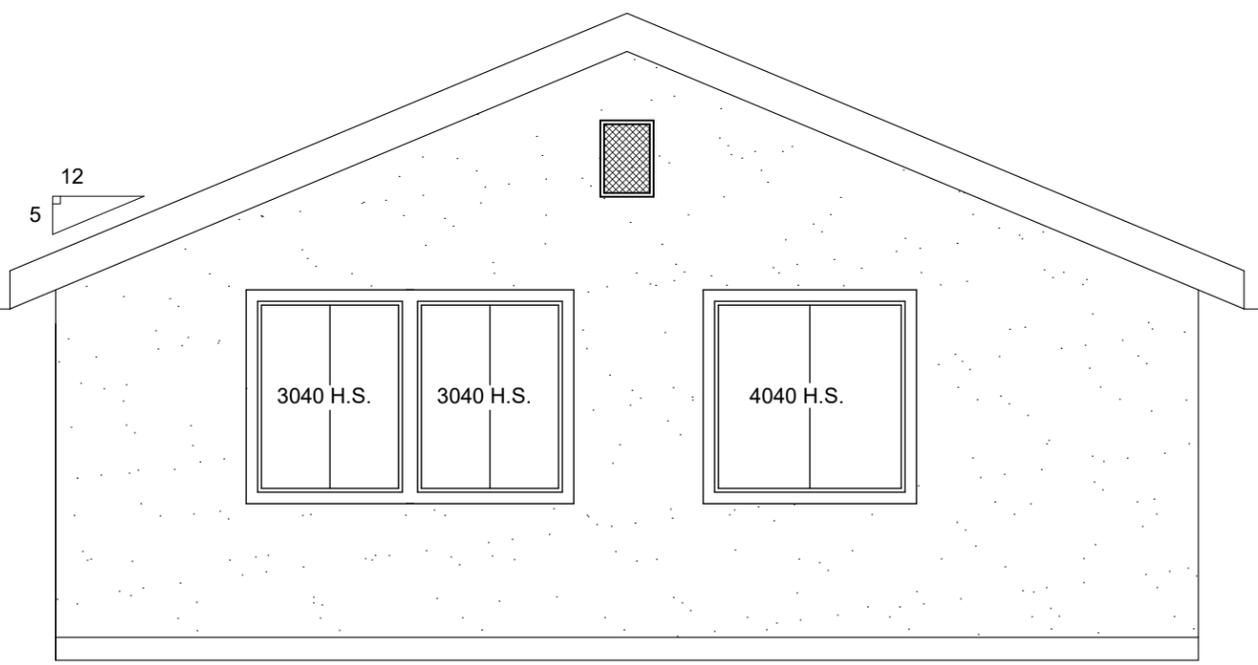
FRONT



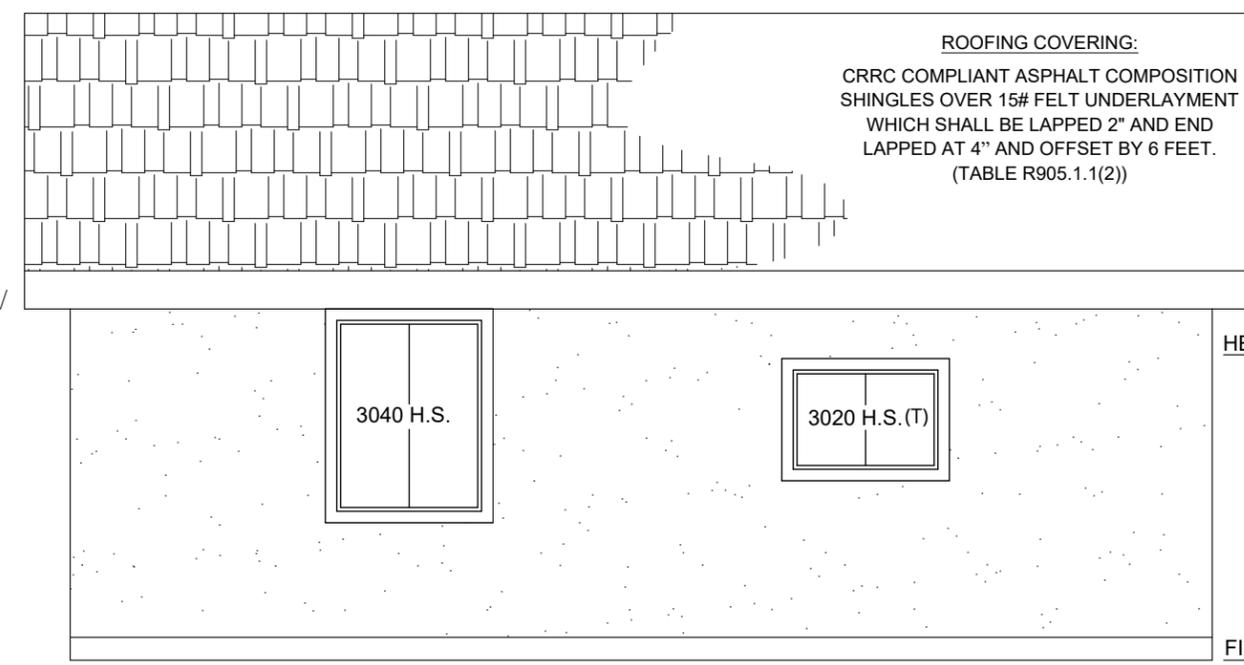
RIGHT

**STUCCO**  
 3-COAT STUCCO OVER ONE LAYER OF NO. 15 ASPHALT FELT. WHEN APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER. (R702.1(2), R703.2, R703.7.3)

OPTION:  
 1/2" MIN. WOOD SIDING

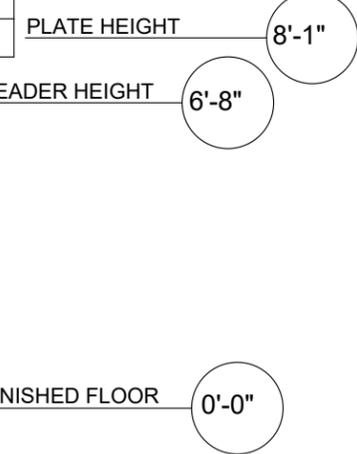


BACK



LEFT

**ROOFING COVERING:**  
 CRRC COMPLIANT ASPHALT COMPOSITION SHINGLES OVER 15# FELT UNDERLAYMENT WHICH SHALL BE LAPPED 2" AND END LAPPED AT 4" AND OFFSET BY 6 FEET. (TABLE R905.1.1(2))



# ELEVATIONS

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

## ELEVATIONS

OWNER'S NAME:  
 PROJECT ADDRESS:

SHEET:  
**A**