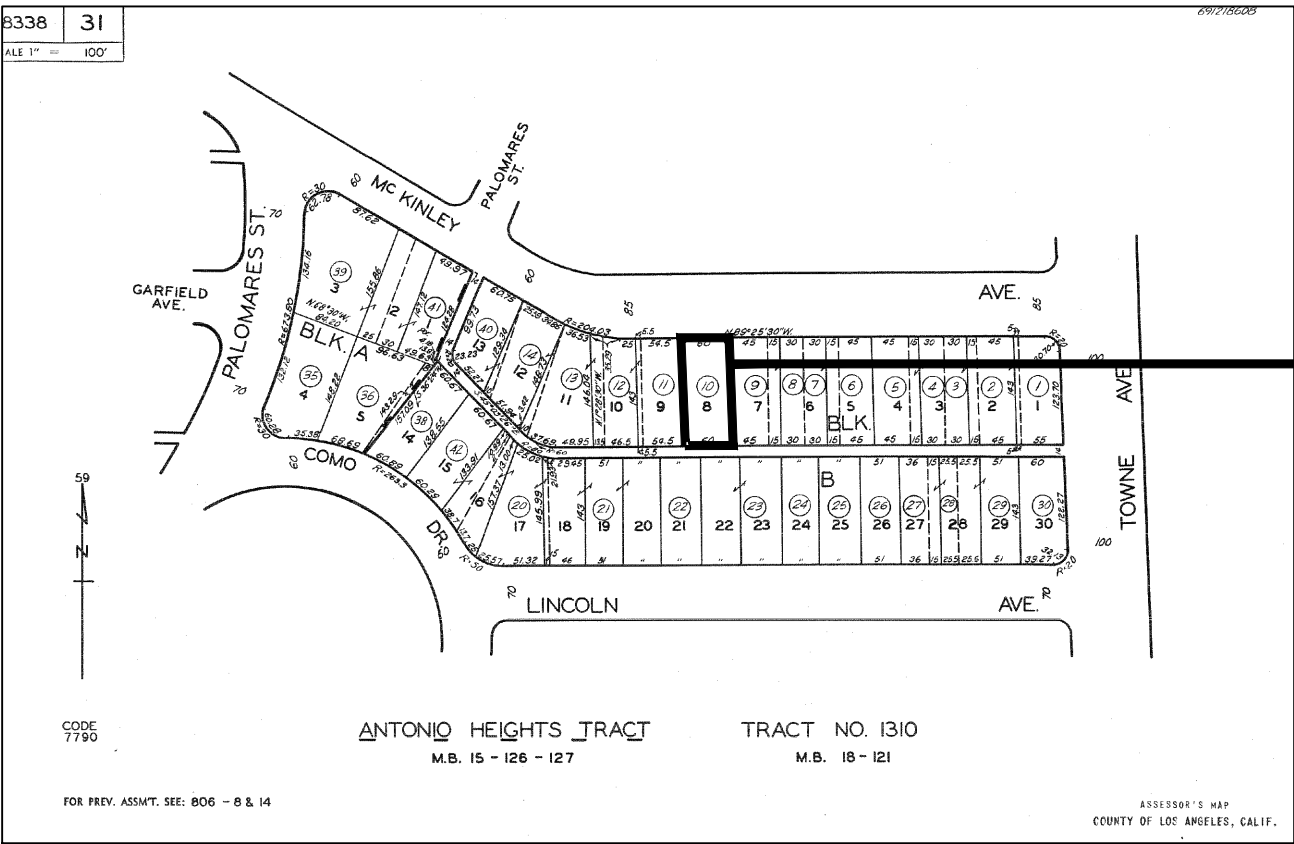
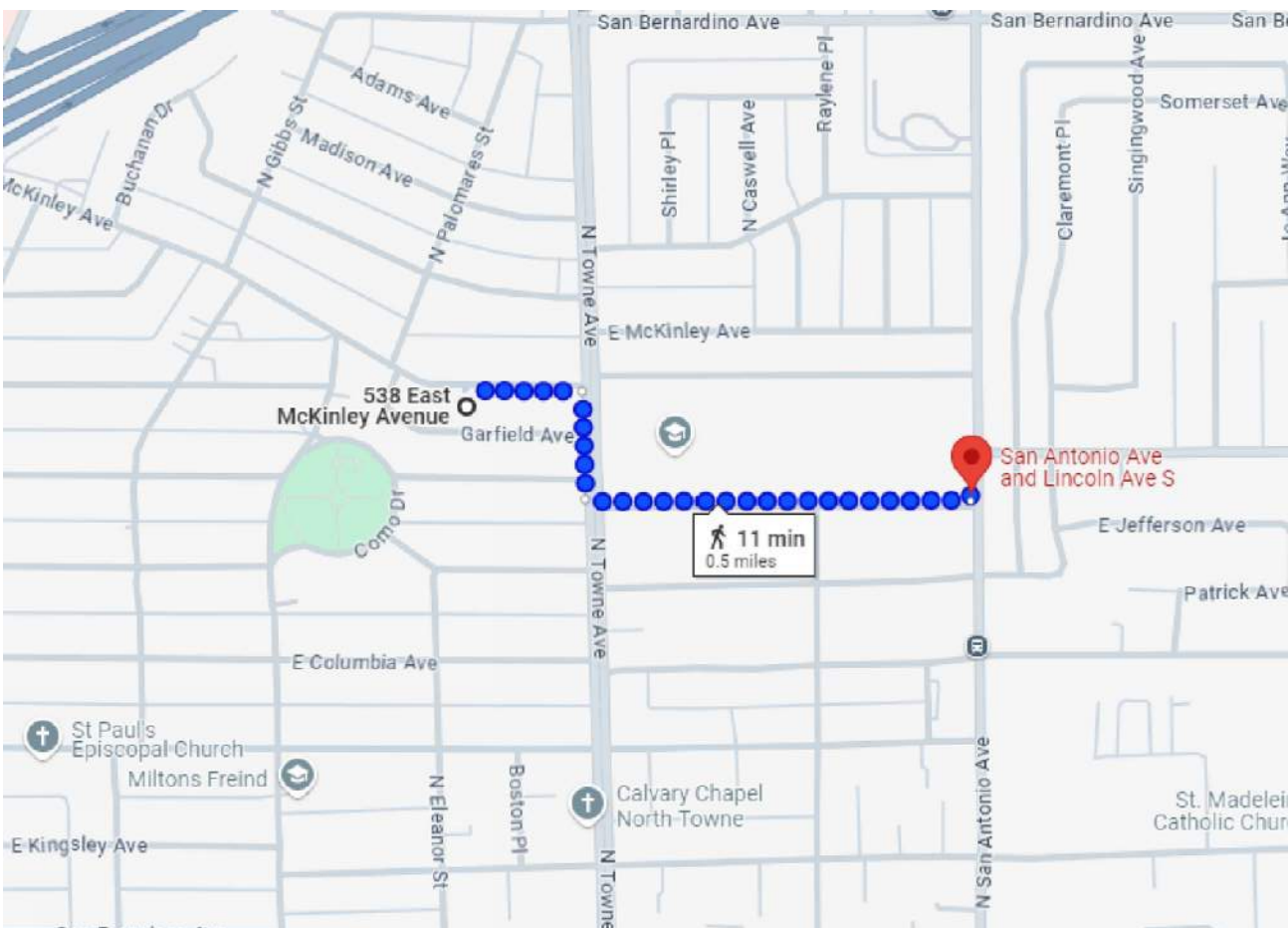


540 E MCKINLEY AVE
POMONA CA 91767
DETACHED ADU



SITE



0.5 MILES FROM THE NEAREST BUS STOP

APPLICABLE CODES:
2022 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2.
2022 CALIFORNIA RESIDENTIAL CODE (TITLE 24, PART 2.5)
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
2022 CALIFORNIA EXISTING BUILDING CODE
CITY OF POMONA MUNICIPAL CODE
NOTE:
PROPOSED ADU SHALL HAVE A PHOTOVOLTAIC (PV) SYSTEM. PV SOLAR PLANS TO BE DEFERRED SUBMITTAL.
THE PV SYSTEM SHALL BE SUBMITTED AND APPROVED PRIOR TO FINAL INSPECTION.

NOTE:
ALL LOW RISE RESIDENTIAL BUILDINGS SHALL HAVE A PHOTOVOLTAIC (PV) SYSTEM. PV SYSTEM SHALL BE A DEFERRED SUBMITTAL.
THE FUTURE INSTALLATION OF THE PHOTOVOLTAIC SYSTEM SHALL COMPLY WITH THE SIZE REQUIREMENTS OF THE ENERGY COMPLIANCE.

APPLICATIONS FOR WHICH NO PERMIT IS ISSUED WITHIN 180 DAYS FOLLOWING THE DATE OF APPLICATION SHALL AUTOMATICALLY EXPIRE.

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS WORK AUTHORIZED COMMENCES WITHIN 180 DAYS AFTER ITS ISSUANCE OR IF THE WORK AUTHORIZED IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS. A SUCCESSFUL INSPECTION MUST BE OBTAINED WITHIN 180 DAYS.

RESIDENTIAL PLAN GENERAL NOTES REQUIREMENTS

SECURITY REQUIREMENTS 1. Exterior doors, doors between house and garage, windows and their hardware shall conform to the Security Provisions of Chapter 67 of the Los Angeles County Building Code (LACBC): a. Single swinging doors, active leaf of a pair of doors, and the bottom leaf of Dutch doors shall be equipped with a latch and a deadbolt key operated from the outside. Deadbolts shall have a hardened insert with 1" minimum throw and 5/8" minimum embedment into the jamb. If a latch has a key locking feature, it shall be dead latch type. (BC6709.2) b. Inactive leaf of a pair of doors and the upper leaf of Dutch doors shall have a deadbolt as per paragraph "a", unless it is not key operated from the exterior, or has a hardened deadbolt at top and bottom with ½" embedment. (BC6709.3) c. Swinging wood door(s) shall be solid core not less than 1-3/8" thick. (BC6709.1.1) d. Panels of wood doors shall be 9/16" thick and not more than 300 sq. inches. Stiles and rails to be 1-3/8" thick and 3" minimum width. (BC6709.1.2) e. Door hinge pins accessible from the outside shall be non-removable. (BC6709.5) f. Door stops of wood jambs of in-swinging doors shall be one piece construction or joined by a rabbet. (BC 6709.4) g. Windows and door lights within 40" of the locking device of the door shall be fully tempered/approved burglary resistant/protected by bars, screens or grills. (BC6714) h. Overhead and sliding garage doors shall be secured with a cylinder lock, a padlock with a hardened steel shackle, or equivalent when not otherwise locked by electric power operation. Jamb locks shall be on both jambs for doors exceeding 9 feet in width (BC6711)		CONSTRUCTION REQUIREMENTS 2. Notching of exterior and bearing/nonbearing walls shall not exceed 25% / 40% of its width, respectively. Bored holes in bearing/nonbearing walls shall not exceed 40% / 60% of its width, respectively. (R602.6) 3. Interior finishes in Group R-3 shall have a flame spread index of not greater than 200, and a smoke-developed index not greater than 450. (R302.9) 4. Provide fire blocking in concealed spaces of stud walls, partitions, including furred spaces, at the ceiling and floor level, and at 10-foot intervals both vertical and horizontal. (R302.11) 5. Ducts installed under a floor in a crawl space shall not prevent access to an area of the crawl space. Where it is required to move under ducts for access to areas of the crawl space, a vertical clearance of 18" minimum shall be provided. (MC 603.1) 6. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than .019 inch (No. 26 galvanized steel). (R603.2.1) 7. Note on the plans: "Roof diaphragm nailing to be inspected before covering. Face grain of plywood shall be perpendicular to supports." 8. Subfloors shall have end-matched lumber, have blocked panel edges, or occur over supports. Floor sheathing shall comply with Section R503. 9. Provide a note: "SMOKE ALARM shall be interconnected hard-wired with battery backup and shall be installed in accordance with NFPA 72." (R314) 10. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." (R315)	
GLAZING REQUIREMENTS 15. The following shall be considered specific hazardous locations requiring safety glazing per Section R308: a. Glazing in fixed and operable panels of swinging, sliding, and bifold doors. b. Glazing in fixed or operable panels adjacent to a door where the nearest vertical edge of the glazing is within a 24-inch arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches above the walking surface. c. Window glazing in an individual fixed or operable panel, that meets all of the following conditions: 1. The exposed area of an individual pane is larger than 9 square feet. 2. The bottom edge is less than 18 inches above the floor. 3. The top edge is more than 36 inches above the floor. 4. One or more walking surfaces are within 36 inches, measured horizontally and in a straight line, of the glazing. d. Glazing in guards, railings, structural baluster panels, and nonstructural in-fill panels, regardless of area or height above a walking surface. e. Glazing in walls, enclosures or fences containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers, and indoor or outdoor swimming pools, where all of the following conditions are present: 1. The bottom edge of the glazing is less than 60 inches above any standing or walking surface. 2. The glazing is within 60 inches, measured horizontally and in a straight line, from a hot tub, spa, whirlpool, bathtub, or swimming pool.		MECHANICAL/PLUMBING/ELECTRICAL CODE REQUIREMENTS 16. Dwelling shall be provided with comfort heating facilities capable of maintaining a room temperature of 68 degrees F at 3 feet above the floor and 2 feet from exterior walls. (R303.10) 17. The following are required for central heating furnaces and low-pressure boilers in a compartment: a. Listed appliances shall be installed with clearances in accordance with the terms of their listings and the manufacturer's installation instructions. (MC 904.2(1)) b. Unlisted appliances shall meet both the clearances in Table 904.2, and the clearances allowed by the manufacturer's installation instructions. (MC 904.2(2)) c. When combustion air is taken from inside, the area of combustion air openings shall be 1 sq. inch per 1,000 BTU (100 sq. inch minimum) per opening. One Opening shall be within 12 inches of the ceiling and the second shall be within 12 inches of the bottom of the enclosure. The dimension shall not be less than 3 inches. (MC 701.5(1)) d. 1/4 inch screens are required at openings where combustion air is taken from the outside. (MC 701.10(2)) e. Separate ducts shall be used for upper and lower combustion air openings, and maintained to the source of combustion air. (MC 701.11(4)) 18. The following are required for appliances installed in an attic: a. An opening and passageway shall not be less than 22 inches by 30 inches, or less than the size of the largest piece of equipment. (MC 904.10) b. Where the passageway height is less than 6 feet, the distance from access to the appliance shall not exceed 20 feet, as measured along the centerline. (MC 904.10.1) c. Passageway shall be unobstructed and shall have solid flooring not less than 24 inches wide from entrance to appliance. (MC 904.10.2) d. A level working platform not less than 30 inches by 30 inches is required in front of the service side of the appliance. (MC 904.10.3)	
MECHANICAL/PLUMBING/ELECTRICAL CODE REQUIREMENTS 25. Lavatory faucets shall not exceed 1.2gpm at 60psi. The minimum flow rate shall not be less than 0.8gpm at 20psi. (GC 4.303.1.4) 26. Kitchen faucets shall not exceed 1.8gpm at 60psi. The faucet may temporarily increase to above this rate, but not to exceed 2.2gpm at 60psi, and must default to the maximum flow rate of 1.8gpm at 60psi. (GC 4.303.1.4) 27. ABS and PVC DWV piping installations are limited to not more than two stories of areas. (PC 701.1(2)) 28. All showers and tub-showers shall have a pressure balance, thermostatic mixing valve, or a combination pressure balance/thermostatic mixing type valve. (PC 418) 29. All new, replacement and existing water heaters shall be strapped to the wall in two places. One on the upper 1/3 of the tank, and one on the lower 1/3 of the tank. The lower point shall be a minimum of 4 inches above the controls. (PC 508.2) 30. Plumbing plan check and approval are required for 2 inch or larger gas lines and/or water lines. 31. Ground-fault circuit-interruption (GFCI) for personnel shall be provided per EC section 210.8(A), and installed in a readily accessible location. 32. Arc-fault circuit-interruption shall be installed to provide protection of the branch circuit. (EC 210.12) 33. Tamper-resistant receptacles shall be installed in all areas specified in 210.52, all nonlocking-type 12-volt, 15- and 20-ampere receptacles shall be listed tamper-resistant receptacles. (EC 406.12) 34. Where NM Cable (Romex) is run across the top of ceiling joists and/or where the attic is not accessible by permanent stairs or ladders, protection within 6 feet of the nearest edge of the scuttle or attic entrance shall be provided. (EC 334.23, 320.23(A))		MECHANICAL/PLUMBING/ELECTRICAL CODE REQUIREMENTS 25. Lavatory faucets shall not exceed 1.2gpm at 60psi. The minimum flow rate shall not be less than 0.8gpm at 20psi. (GC 4.303.1.4) 26. Kitchen faucets shall not exceed 1.8gpm at 60psi. The faucet may temporarily increase to above this rate, but not to exceed 2.2gpm at 60psi, and must default to the maximum flow rate of 1.8gpm at 60psi. (GC 4.303.1.4) 27. ABS and PVC DWV piping installations are limited to not more than two stories of areas. (PC 701.1(2)) 28. All showers and tub-showers shall have a pressure balance, thermostatic mixing valve, or a combination pressure balance/thermostatic mixing type valve. (PC 418) 29. All new, replacement and existing water heaters shall be strapped to the wall in two places. One on the upper 1/3 of the tank, and one on the lower 1/3 of the tank. The lower point shall be a minimum of 4 inches above the controls. (PC 508.2) 30. Plumbing plan check and approval are required for 2 inch or larger gas lines and/or water lines. 31. Ground-fault circuit-interruption (GFCI) for personnel shall be provided per EC section 210.8(A), and installed in a readily accessible location. 32. Arc-fault circuit-interruption shall be installed to provide protection of the branch circuit. (EC 210.12) 33. Tamper-resistant receptacles shall be installed in all areas specified in 210.52, all nonlocking-type 12-volt, 15- and 20-ampere receptacles shall be listed tamper-resistant receptacles. (EC 406.12) 34. Where NM Cable (Romex) is run across the top of ceiling joists and/or where the attic is not accessible by permanent stairs or ladders, protection within 6 feet of the nearest edge of the scuttle or attic entrance shall be provided. (EC 334.23, 320.23(A))	

PROPERTY INFORMATION:

A.P.N. 8338-031-010
TRACT # 1310 LOT 8 BLK B

ZONE: RND1-H
USE TYPE: RESIDENTIAL
CONSTRUCTION TYPE: V-B
OCCUPANCY GROUP: R3

SCOPE OF WORK:

PROPOSE NEW DETACHED ADU 1,200 SQ FT

AREA SUMMARY

TOTAL LOT AREA: 8,580 SQ FT
EXISTING MAIN HOUSE AREA: 1,298 SQ FT
5B 2B
NUMBER OF MAIN HOUSE STORY: 1
EXISTING GARAGE AREA: 302 SQ FT
PROPOSE NEW DETACHED ADU AREA: 1,200 SQ FT
3B 2B
NUMBER OF ADU STORY: 1
INSTALL FIRE SPRINKLER SYSTEM: YES

PRIMARY ADDRESS: 538 E MCKINLEY AVE, POMONA CA 91767
ADU ADDRESS: 540 E MCKINLEY AVE, POMONA CA 91767

HISTORIC DISTRICT: LINCOLN PARK HISTORIC DISTRICT
ARCHITECTURE STYLE OF PRIMARY: CRAFTSMAN BUNGALOW

LOT COVERAGE CALCULATION: 1,298+302+1,200=2,800/8,580=32.63% < 35%
IMPERVIOUS CALCULATION: 1,298+302+1,200+1,450=4,250/8,580=49.53%
LANDSCAPE CALCULATION: 4,330/8,580=50.47%

OTHER PROJECT INFO

OAK TREE: NO
EASEMENT: NO
ANY SLOPE 3:1 NO
EXISTING FIRE SPRINKLER IN MAIN HOUSE: NO
SWIMMING POOL: NO
NEW LANDSCAPE 500 SQ FT OR LARGER: NO

PUBLIC WORKS GENERAL NOTES:
IT IS THE OWNER'S AND THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL DAMAGE TO THE EXISTING PUBLIC IMPROVEMENTS DUE TO THE PROPOSED CONSTRUCTION ACTIVITIES AND TO ADDRESS ALL REPAIRS REQUESTED BY THE PUBLIC WORKS INSPECTOR BASED ON THE INSPECTOR'S REVIEW OF THE CURRENT CONDITION OF THE SAID PUBLIC IMPROVEMENTS.
UNDERGROUNDING OF ALL EXISTING AND PROPOSED UTILITY LINES IS REQUIRED AS PER CITY OF POMONA MUNICIPAL CODE SECTION 62-31(B)(1).
THE PARKWAY LANDSCAPING SHALL BE MAINTAINED BY THE PROPERTY OWNER PER CITY OF POMONA MUNICIPAL CODE SECTION 46-496.
THE PROPERTY ABUTTING SIDEWALK, PARKWAY AND ALLEY, AS APPLICABLE, SHALL BE MAINTAINED FREE OF WEEDS, RUBBISH AND REFUSE BY THE PROPERTY OWNER, AS REQUIRED BY THE CITY'S MUNICIPAL CODE SECTION 18-261.

SHEET INDEX:

A-1 GENERAL NOTES
A-2 EXISTING SITE PLAN & PROPOSED SITE PLAN
A-3 PROPOSED FLOOR PLAN
A-4 ADU ROOF PLAN & ELECTRICAL PLAN
A-5 ELEVATION
A-6 ELEVATION & SECTION
A-7 MATERIAL BOARD
A-8 GREEN STANDARD CODE
A-9 GREEN STANDARD CODE
S-1 GENERAL NOTES & DETAILS
S-2 GENERAL NOTES & DETAILS
S-3 ROOF FRAMING PLAN & FOUNDATION PLAN
T-1 TITLE 24
T-2 TITLE 24
T-3 TITLE 24

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JOB ADDRESS:

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POMONA CA 91767

OWNER:

ZHAOHUI FANG
(415)819-6218
SUSANFANG88@HOTMAIL.COM

STAMP:

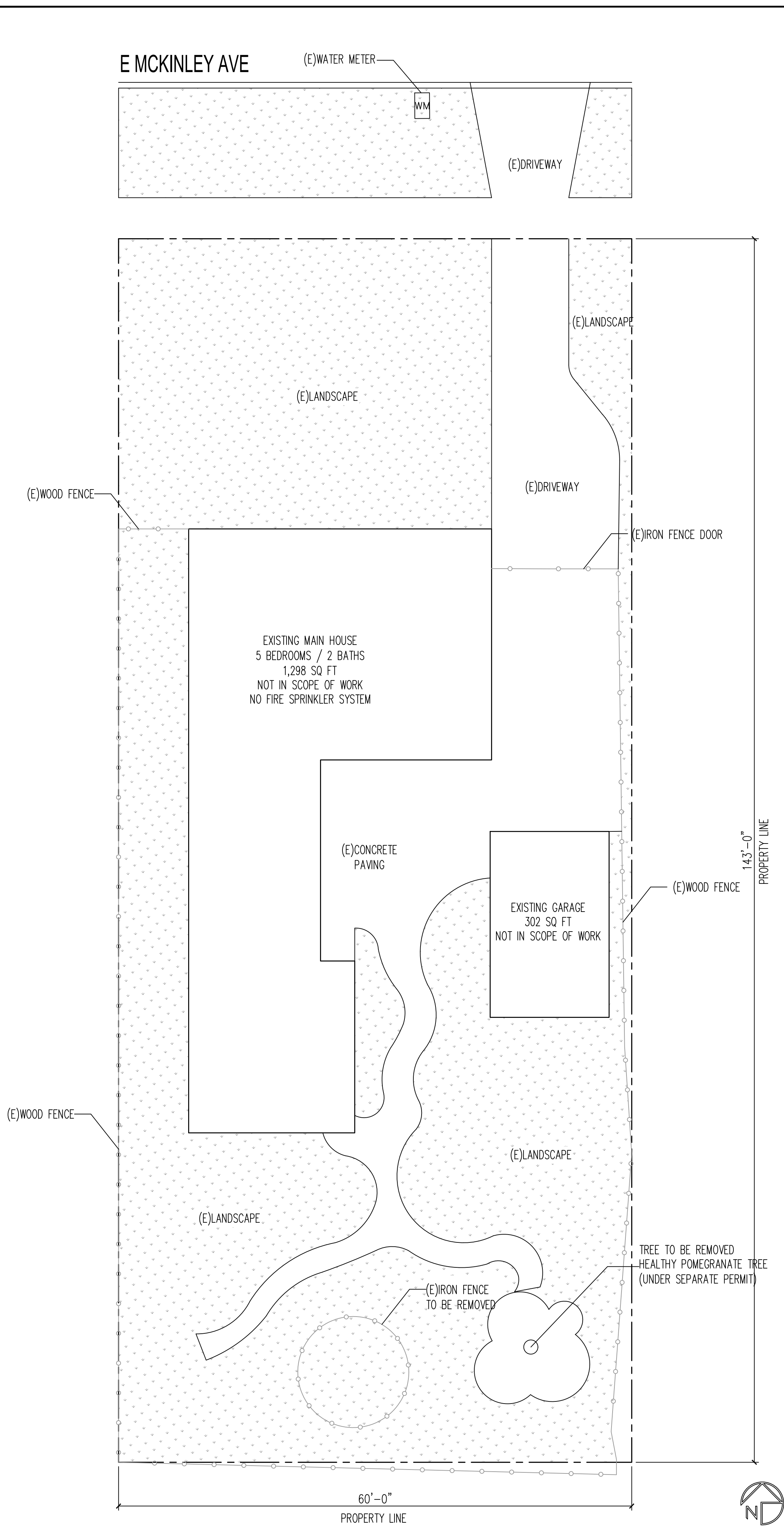


REVISIONS:

SHEET TITLE:

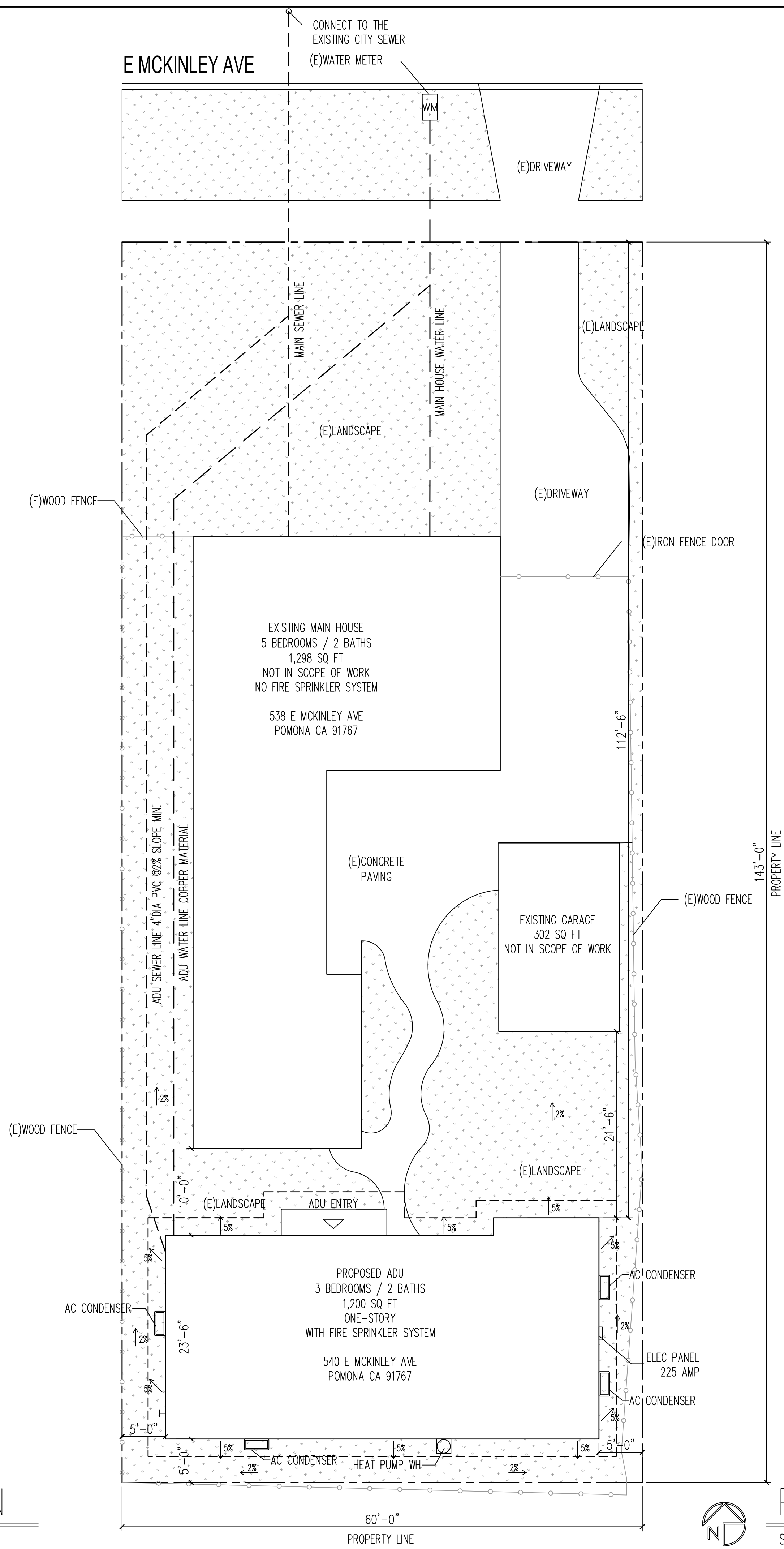
GENERAL NOTE

SHEET NUMBER:

[illegible]

EXISTING SITE PLAN

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



PROPOSED SITE PLAN

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



FLOOR PLAN NOTES:

FINISH MATERIALS INCLUDING ADHESIVES, SEALANTS, CAULK, PAINTS & COATINGS, CARPET SYSTEMS, ETC. SHALL MEET THE (VOC) EMISSION LIMITS PER LACGBSC CHAPTER 4.

WALL COVERING IN THE BATHROOMS SHALL BE CEMENT PLASTER, TILE OR APPROVED EQUAL TO 72" ABOVE THE DRAIN INLET AT SHOWERS OR TUB WITH SHOWERS. MATERIALS OTHER THAT STRUCTURAL ELEMENTS TO BE MOISTURE RESISTANT.

AT ALL SLEEPING ROOMS PROVIDE AT LEAST ONE OPENABLE ESCAPE WINDOW OR DOOR MEETING ALL THE FOLLOWING.

AN OPENABLE AREA OF NOT LESS THAN 5.7 SQ FT (5 SQ FT AT GRADE LEVEL) A MINIMUM CLEAR 24 INCH HEIGHT AN OR 20 INCH WIDTH, AND A SILL HEIGHT NOT OVER 44 INCHES ABOVE THE FLOOR.

EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTION 1205.2 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE ILLUMINATION OF 10 FOOT-CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL.

LIGHT AND VENTILATION CALCULATION

PROPOSED KITCHEN	=	147 SQ FT
LIGHT		
147 SQ FT x .08	=	11.76 SQ FT NEEDED
		12.0 SQ FT > 11.76 SQ FT (OK)
VENTILATION		
147 SQ FT x .04	=	5.88 SQ FT NEEDED
		6.0 SQ FT > 5.88 SQ FT (OK)

FLOOR PLAN NOTES:

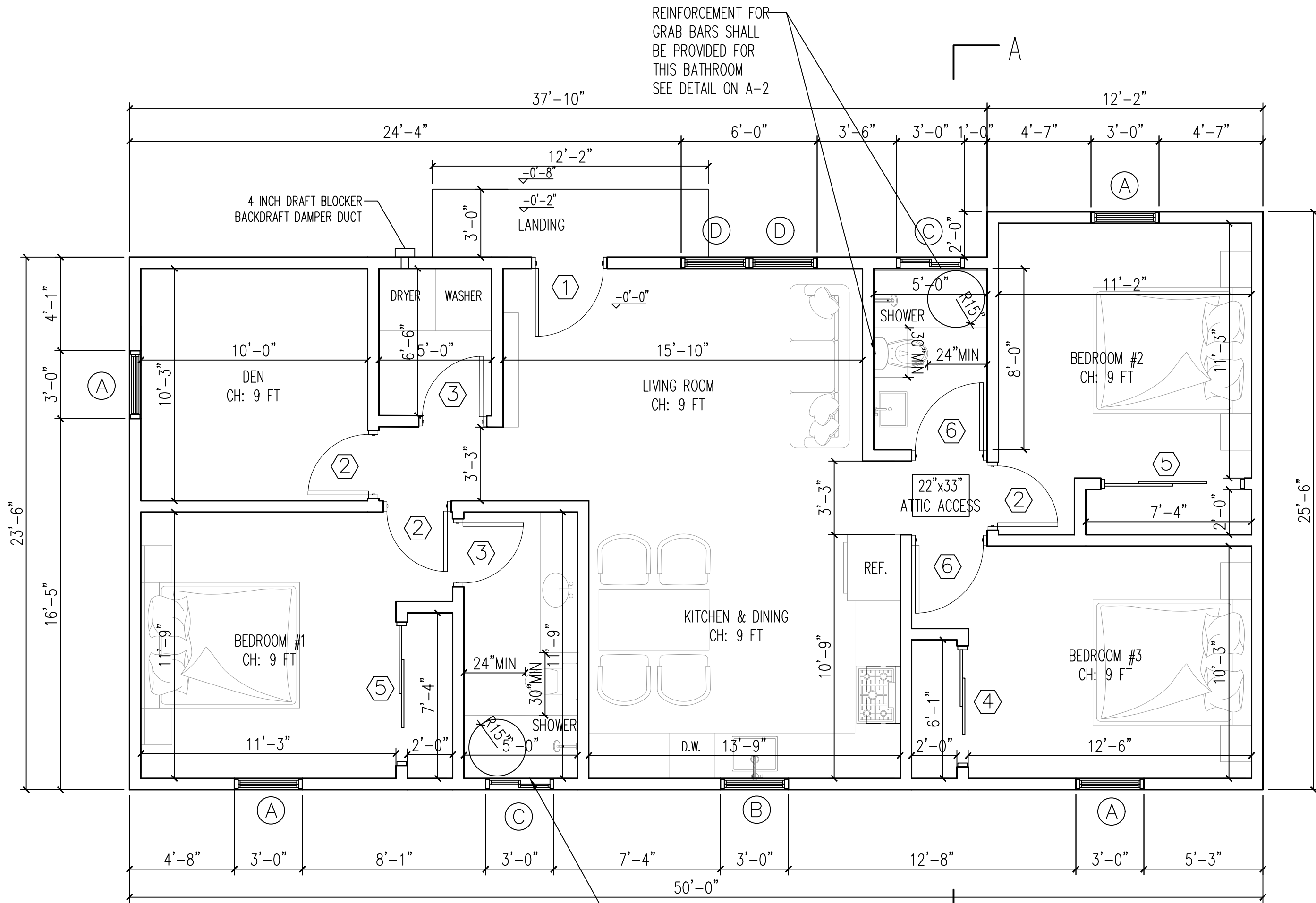
WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ON ONE SIDE WALL AND THE BACK WALL. PLEASE SEE THE REINFORCEMENT DETAIL ON THE SHEET A-3.

DOOR SCHEDULE:

NO.	SIZE	MATERIAL	TYPE	REMARKS
1	3'-0" x 7'-0"	FIBERGLASS/STEEL/WOOD	SOLID @ EXTERIOR 1 3/4"	
2	2'-8" x 7'-0"	WOOD	HOLLOW CORE 1 3/8"	
3	2'-6" x 7'-0"	WOOD	HOLLOW CORE 1 3/8"	
4	5'-0" x 7'-0"	WOOD	CLOSET SLIDING DOOR	
5	6'-0" x 7'-0"	WOOD	CLOSET SLIDING DOOR	
6	3'-0" x 7'-0"	WOOD	HOLLOW CORE 1 3/8"	

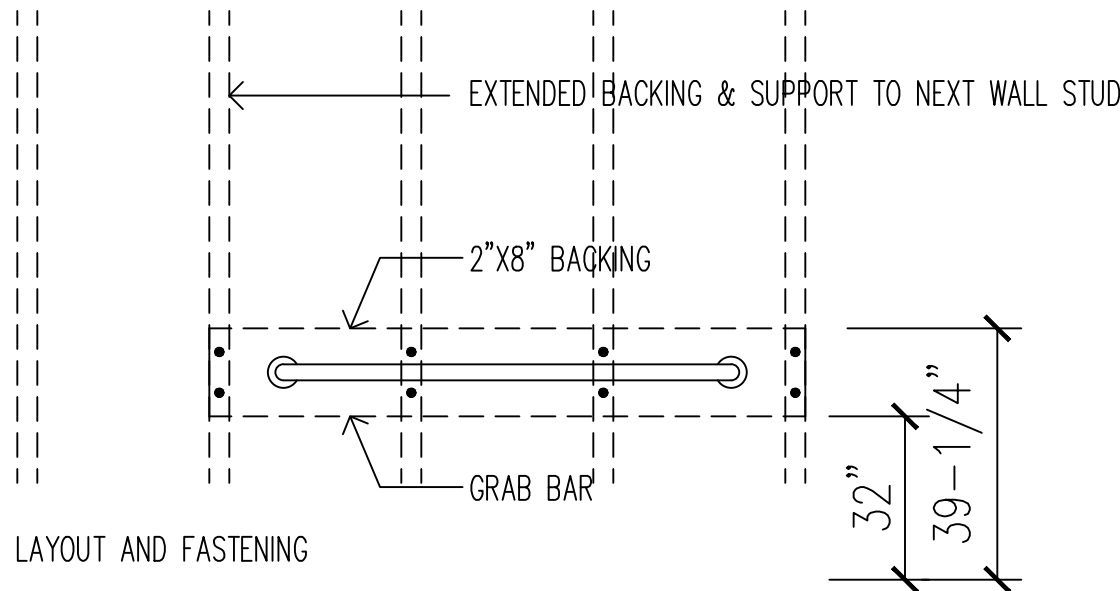
WINDOW SCHEDULE:

NO.	SIZE	SILL HEIGHT	U-FACTOR	SHGC	MATERIAL	TYPE	REMARKS
A	3'-0" x 5'-0"	2'-0"	0.3	0.23	WOOD	SINGLE-HUNG	EMERGENCY ESCAPE/RESCUE WINDOW
B	3'-0" x 3'-0"	4'-0"	0.3	0.23	WOOD	SINGLE-HUNG	
C	3'-0" x 1'-0"	6'-0"	0.3	0.23	WOOD	AWNING	TEMPERED GLASS
D	3'-0" x 4'-0"	3'-0"	0.3	0.23	WOOD	SINGLE-HUNG	



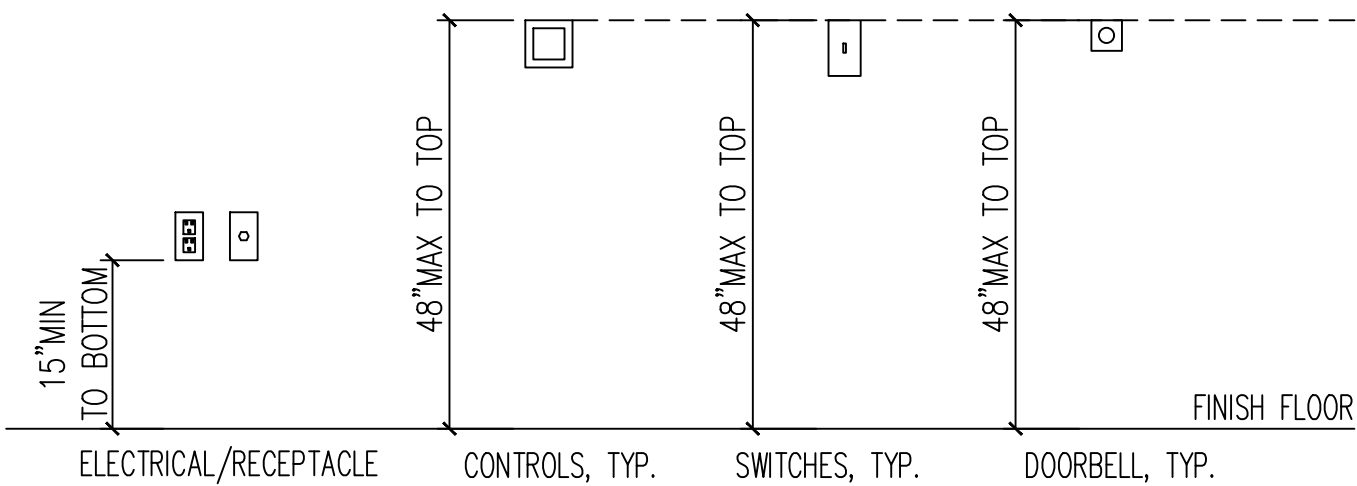
ADU FLOOR PLAN

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



GRAB BARS REINFORCEMENT DETAIL

NTS

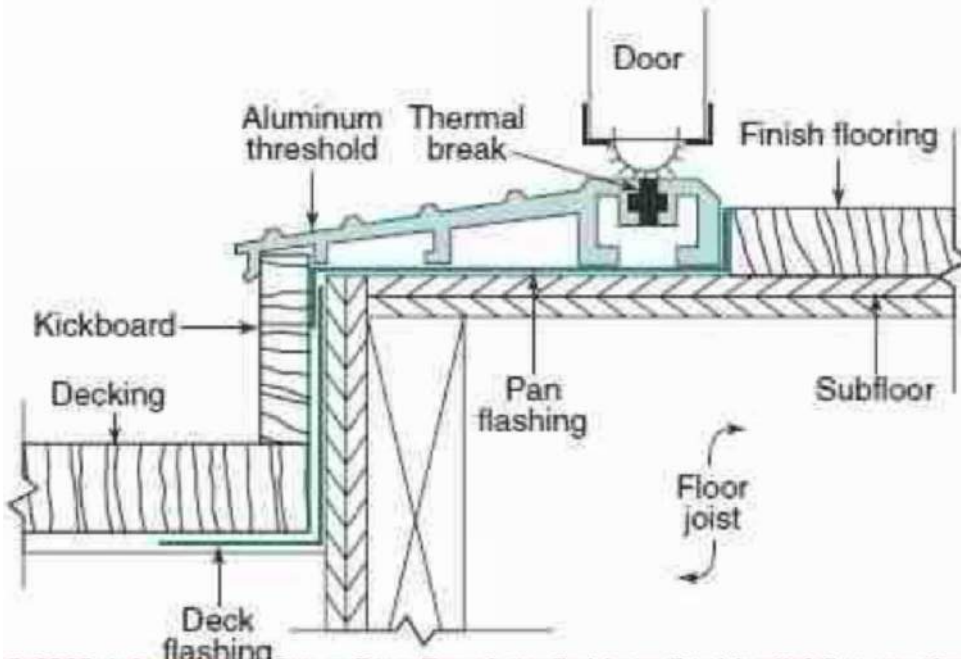
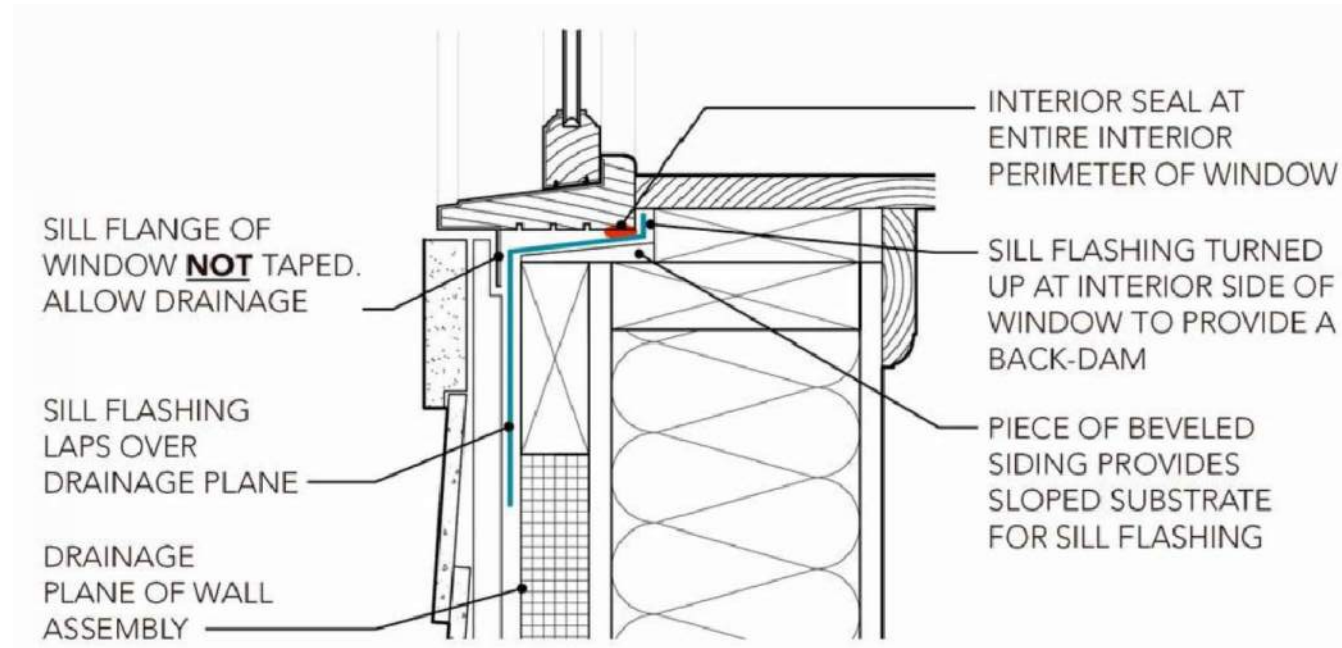


EXCEPTIONS:

DEDICATED RECEPTACLE OUTLETS; FLOOR RECEPTACLE OUTLETS; CONTROLS MOUNTED ON CEILING FANS AND CEILING LIGHTS; AND CONTROLS LOCATED ON APPLIANCES. RECEPTACLE OUTLETS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE ON A WALL SPACE WHERE THE DISTANCE BETWEEN THE FINISHED FLOOR AND A BUILT-IN FEATURE ABOVE THE FINISH FLOOR, SUCH AS A WINDOW, IS LESS THAN 15 INCHES.

TYPICAL RECEPTACLE OUTLETS, SWITCH, CONTROL AND DOORBELL DETAIL

NTS



WINDOW/DOOR FLASHING DETAIL

NTS

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JOB ADDRESS:

540 E MCKINLEY AVE
POMONA CA 91767

MEP NOTE:

1. KITCHEN MUST BE SUPPLIED WITH 20 AMP SMALL APPLIANCE CIRCUITS.
2. ALL RECEPTACLE OUTLETS SHOULD BE AT LEAST AFCI.
3. A MINIMUM OF ONE 20-AMP CIRCUIT IS REQUIRED FOR THE RECEPTACLES IN THE BATHROOMS. THIS CIRCUIT CAN HAVE NO OTHER OUTLETS, INCLUDING LIGHTS. IF A 20-AMP CIRCUIT SERVES ONLY ONE BATHROOM, LIGHTS AND FANS CAN BE ON THE SAME CIRCUIT WITH THE RECEPTACLES IN THAT BATHROOM.
4. PROVIDE A MINIMUM 280 CFM RANGE HOOD FOR KITCHEN. INDIVIDUAL BRACH CIRCUIT REQUIRED WHERE CORD AND PLUG CONNECTED.
5. ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LUMINAIRES IN ACCORDANCE WITH TABLE 150.0-A OF THE CALIFORNIA ENERGY CODE. ALL LUMINAIRES SHALL EITHER BE HIGH EFFICACY INCLUDING THE FAN LIGHTS OR SHALL BE CONTROLLED BY A VACANCY SENSOR.
6. ALL EXTERIOR DOORS HAVE A SWITCH-CONTROLLED EXTERIOR LIGHT AND THAT THE SWITCHES HAVE A PHOTO CONTROLLED MOTION SENSOR OR AUTOMATIC TIME SWITCH.
7. ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES SHALL BE PROTECTED BY COMBINATION TYPE AN ARC-FAULT CIRCUIT INTERRUPTERS. THIS REQUIREMENT IS FOR ENTIRE CIRCUIT, NOT JUST THE OUTLETS.
8. THE LAUNDRY MUST HAVE A DEDICATED 20-AMP OUTLET.
9. OUTDOOR RECEPTACLE OUTLETS MUST BE GFCI PROTECTED AND PROVIDE WITH A WEATHERPROOF COVER.
10. KITCHEN COUNTER-TOP, BATHROOM AND LAUNDRY RECEPTACLE OUTLETS ARE REQUIRED TO BE BOTH GFCI AND AFCI PROTECTED.
11. A COMPRESSOR OR CONDENSING UNIT SUPPORTED FROM THE GROUND SHALL REST ON A CONCRETE OR OTHER APPROVED BASE EXTENDING NOT LESS THAN THREE INCHES ABOVE THE ADJOINING GROUND LEVEL.
12. DRYER IS GAS. DRYERS WITH GAS HOOKUPS: REQUIRES 240-VOLT/30-AMP FEED FOR FUTURE INSTALLATION OF AN ELECTRIC DRYER.
13. WATER PIPING MATERIALS WITHIN A BUILDING SHALL BE IN ACCORDANCE WITH SEC. 604.1 OF THE CALIFORNIA PLUMBING CODE. PEX, CPVC AND OTHER PLASTIC WATER PIPING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 604 OF THE CPC, INSTALLATION STANDARDS OF APPENDIX I OF THE CPC AND MANUFACTURERS' RECOMMENDED INSTALLATION STANDARDS. GPCP WATER PIPING REQUIRES A CERTIFICATION OF COMPLIANCE AS SPECIFIED IN SEC. 604.1(D) OF THE CPC PRIOR TO PERMIT ISSUANCE. WATER PIPE MATERIAL IS HARD DRAWN COPPER TYPE "K" OR "L" FOR THE UNDERGROUND AND TYPE "L" FOR ABOVE GROUND.
14. MINIMUM SEWER SLOPE TO BE 2%. PLASTIC AND COPPER PIPING RUN THROUGH FRAMING MEMBERS TO WITHIN ONE INCH OF THE EXPOSED FRAMING SHALL BE PROTECTED BY STEEL NAIL PLATES NOT LESS THAN 18 GAUGE.
15. WATER HEATERS SHALL HAVE STRAPS LOCATED IN THE UPPER AND LOWER 1/3 OF ITS VERTICAL DIMENSION. AT THE LOWER POINT, A MINIMUM DISTANCE OF 4 INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.

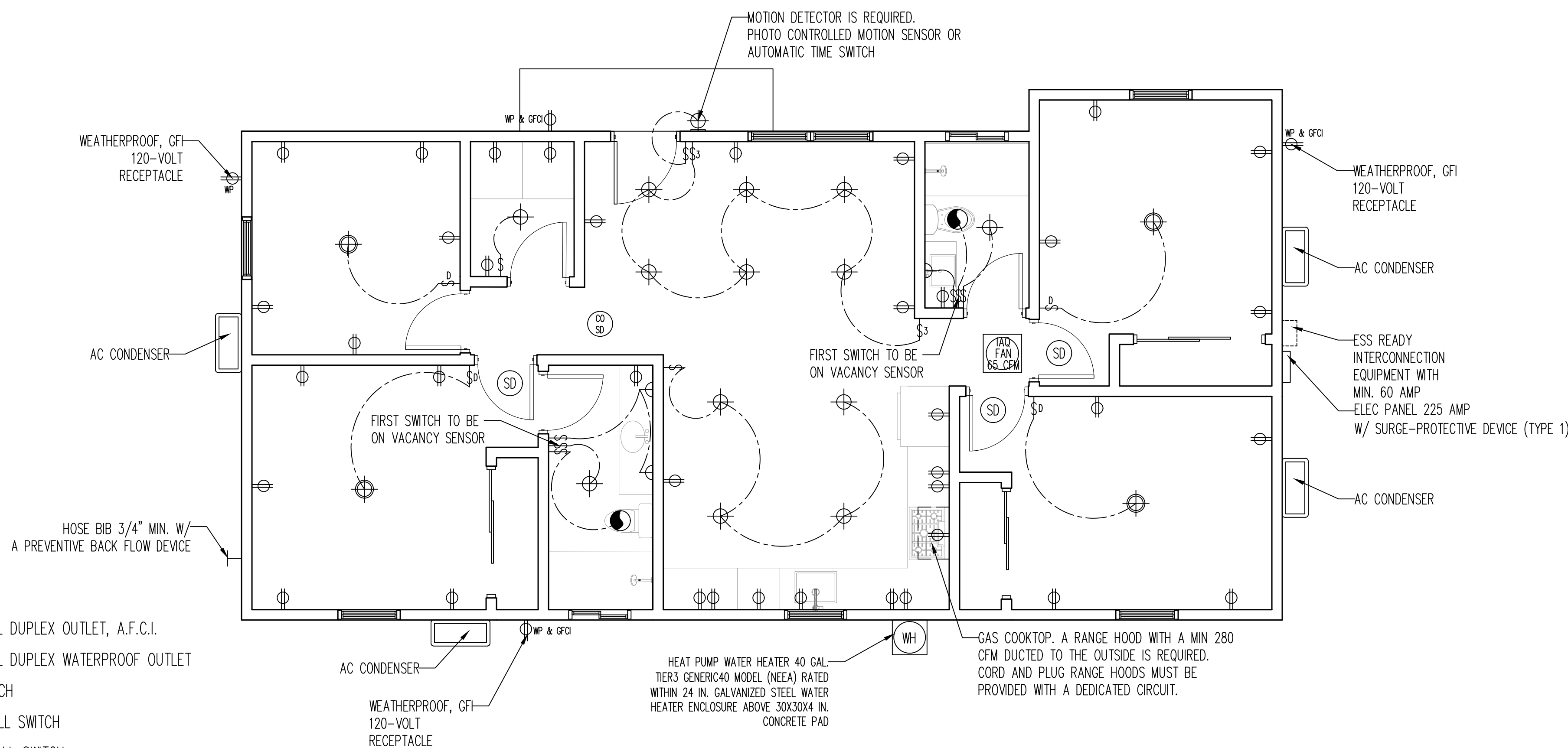
ROOF VENTILATION CALCULATION

PROPOSED ATTIC SPACE = 1,200 SQ. FT.

REQUIRED NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/300 OF THE ATTIC SPACE

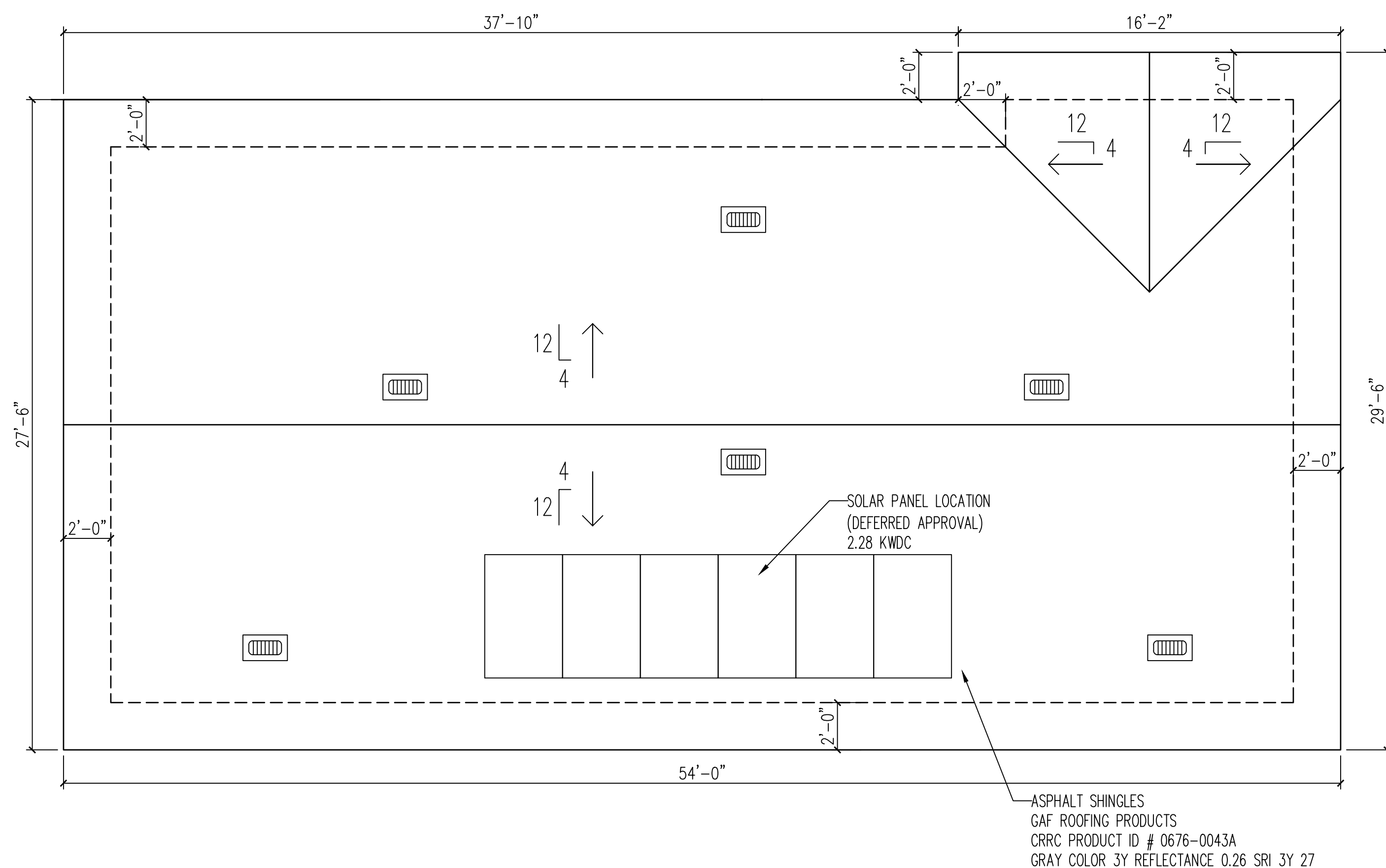
REQUIRED ROOF VENTILATION = $1.200 \times 1/300 = 4 \text{ SQ FT} = 576 \text{ SQ IN}$

(6) O'HAGIN LOW PROFILE ASPHALT SHINGLE ROOF VENT PRODUCT: (NET VENTING 97.5 SQ IN EACH) = 487.5 SQ IN
TOTAL PROPOSED VENTILATION: 585 SQ IN > 576 SQ IN (OK)



ADU ELECTRICAL PLAN

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



- EXHAUST FAN "ENERGY STAR RATED"
MINIMUM 50 CFM INTERMITTENT (DIRECTLY VENTED TO OUTSIDE)
EQUIPPED WITH READILY ACCESSIBLE HUMIDISTAT 4" ALUMINUM DUCT
MOISTURE EXHAUST DUCTS SHALL BE OF METAL AND HAVE A
SMOOTH INTERIOR SURFACE
NO SCREWS INTO AIRFLOW CMC 504.3.1
- (SD) INTERCONNECTED HARD WIRED SMOKE DETECTOR WITH
BATTERY BACKUP (A.F.C.I.)
- (CO SD) INTERCONNECTED HARD WIRED SMOKE / CARBON MONOXIDE
DETECTOR COMBO WITH BATTERY BACKUP (A.F.C.I.)
THE EXISTING HOUSE IS EQUIPPED WITH SMOKE AND CARBON
MONOXIDE ALARMS.
- MINIMUM 3 FT CLEARANCE REQUIRED FROM HVAC SUPPLIES, RETURN,
BATHROOMS WITH TUBS OR SHOWERS AND CEILING FANS.
MINIMUM 10 FT CLEAR FROM STOVES AND RANGES REQUIRED.
- (IAQ FAN) IAQ VENT FAN – 46 CFM
PROVIDE PLACARD AT THE SWITCH THAT STATES: "THIS FAN TO REMAIN ON
DURING ALL HOURS THE HOUSE IS OCCUPIED"

16. RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS: (A) RECESSED FIXTURES SHALL NOT CONTAIN SCREW-BASED SOCKETS. (B) MEET THE CLEARANCE AND INSTALLATION REQUIREMENTS OF THE CEC 410.116.(C) BE MARKED "JA8-2016-E", "JA8-2022-E", INDICATING THEY ARE CERTIFIED AS MEETING THE ELEVATED TEMPERATURE REQUIREMENTS OF JA8. (D) WHEN INSTALLED IN INSULATED CEILINGS AND NOTE MARKED FOR USE IN FIRE-RATED INSTALLATION SHALL HAVE: 1. A ZERO-CLEARANCE INSULATION COVER CONTACT AND AIRTIGHT CAN (ICAT) EXCEPT WHEN EXHAUST FAN HOUSING HAS INTEGRAL LIGHTING. 2. GASKET OR CAULKING SEALING BETWEEN THE LUMINAIRE'S HOUSING AND CEILING FOR ALL AIR LEAK PATHWAYS BETWEEN CONDITIONED AND UNCONDITIONED SPACES.
17. CLOTHES DRYERS AND ELECTRIC RANGES SHALL HAVE A 4-WIRE GROUNDED ELECTRICAL OUTLET PER CEC 250.140.
18. ALL DWELLING UNIT RECEPTACLE OUTLETS SHALL BE LISTED "TAMPER-RESISTANT" RECEPTACLES.
19. INTERNALLY ILLUMINATED ADDRESS SIGNS MUST MEET RESIDENTIAL SIGN LIGHTING POWER REQUIREMENTS IN §140.8 OR USE NO MORE THAN 5 WATTS.
20. ELECTRIC READY: COOKTOP: REQUIRES A 240-VOLT/50-AMP FEED FOR FUTURE COOKTOP.
21. SMOKE ALARMS OR SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 20 FEET HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. EXCEPTION: IONIZATION SMOKE ALARMS WITH AN ALARM SILENCING SWITCH OR PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED 10 FEET OR GREATER FROM A PERMANENTLY INSTALLED COOKING APPLIANCE.
22. KITCHEN HOOD REQUIRES A HERS RATED INSPECTION AS PER CF-1R.
23. ADU ELECTRICAL SERVICE 225 AMPS – NO. 4 COPPER. PROVIDE UFER OR OTHER APPROVED GROUND PER CEC250. ALL NEW SERVICES SUPPLYING THE DWELLING UNIT SHALL BE PROVIDED WITH A SURGE-PROTECTIVE DEVICE (TYPE 1) UNDER THE ELECTRICAL PANEL.
24. SPACE HEATING (FURNACE): REQUIRES A 240-VOLT/30-AMP ELECTRICAL FEED TO THE FURNACE FOR FUTURE HEAT PUMP. 25. GAS APPLIANCE INCLUDES GAS COOKTOP (18,000 BTU/H) AND GAS DRYER (20,000 BTU/H). GAS PIPE LENGTH OF SEGMENT IS 18 FT. TOTAL PIPE LENGTH IS 103 FT.

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



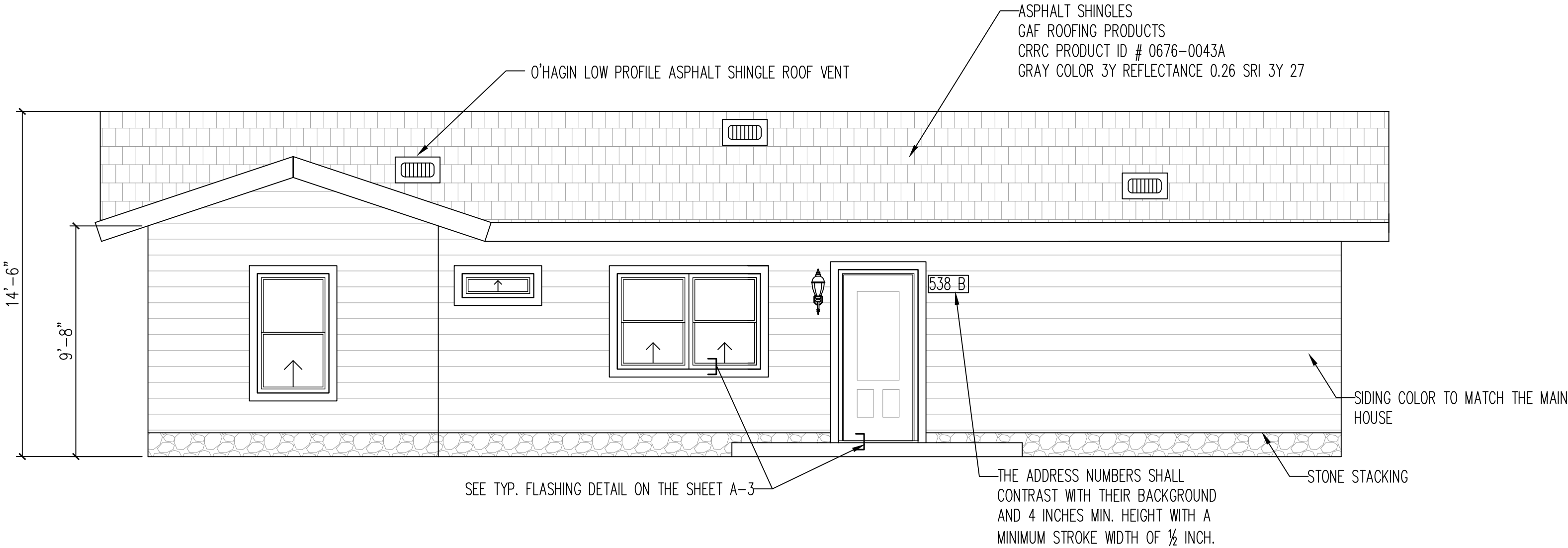
REVISIONS:

SHEET TITLE:

ADU ROOF PLAN
ADU ELECTRICAL PLAN

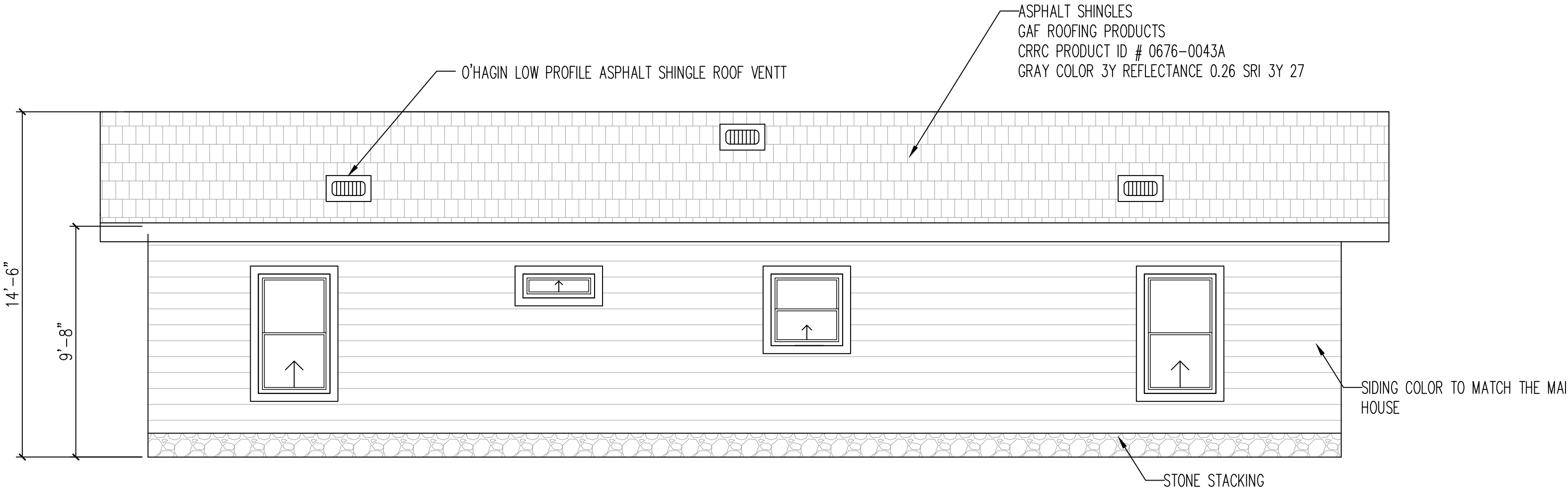
SHEET NUMBER:





NORTH ELEVATION

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

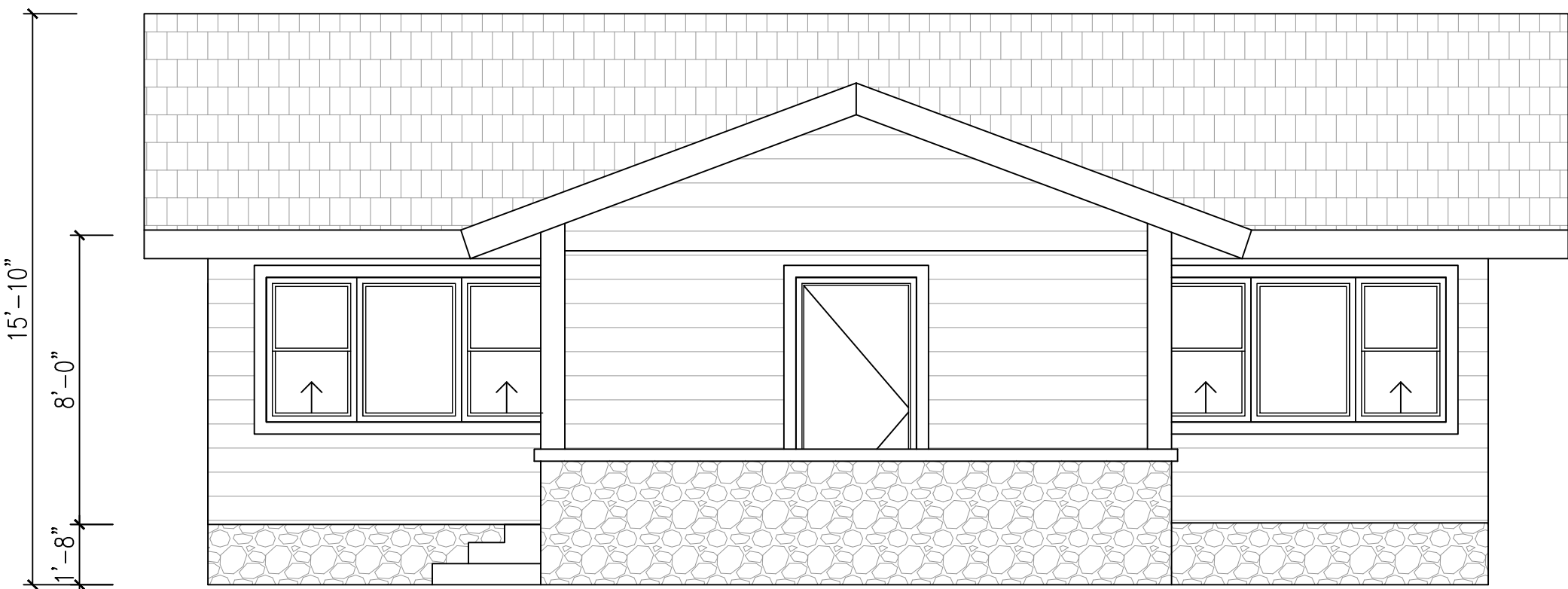


SOUTH ELEVATION

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

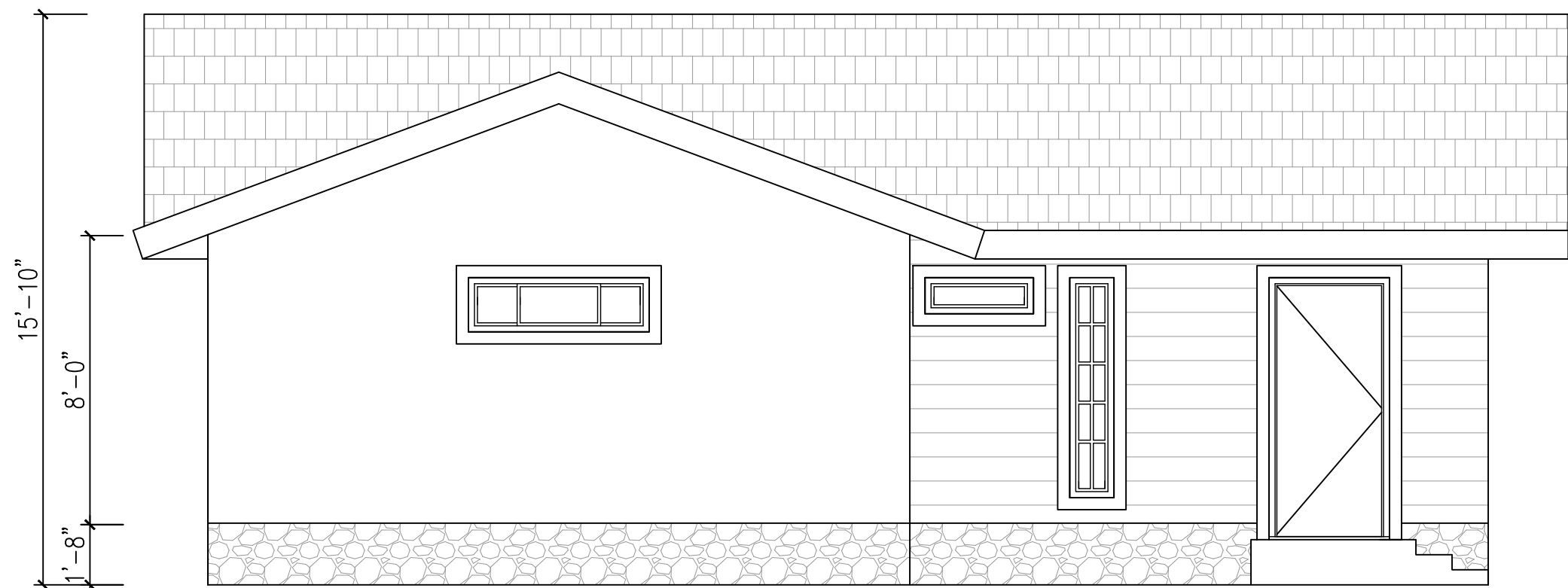
NOTE:

EXTERIOR COLORS AND MATERIALS OF THE PROPOSED ADU, INCLUDING WALLS, ROOF, AND WINDOWS MUST MATCH THE EXISTING MAIN HOUSE.
PROVIDE 2 LAYERS OF GRADE D PAPER WATER-RESISTIVE BARRIER FOR THE STUCCO EXTERIOR APPLICATION WHEN APPLIED TO WOOD-BASED SHEATHING ON THE ELEVATIONS.



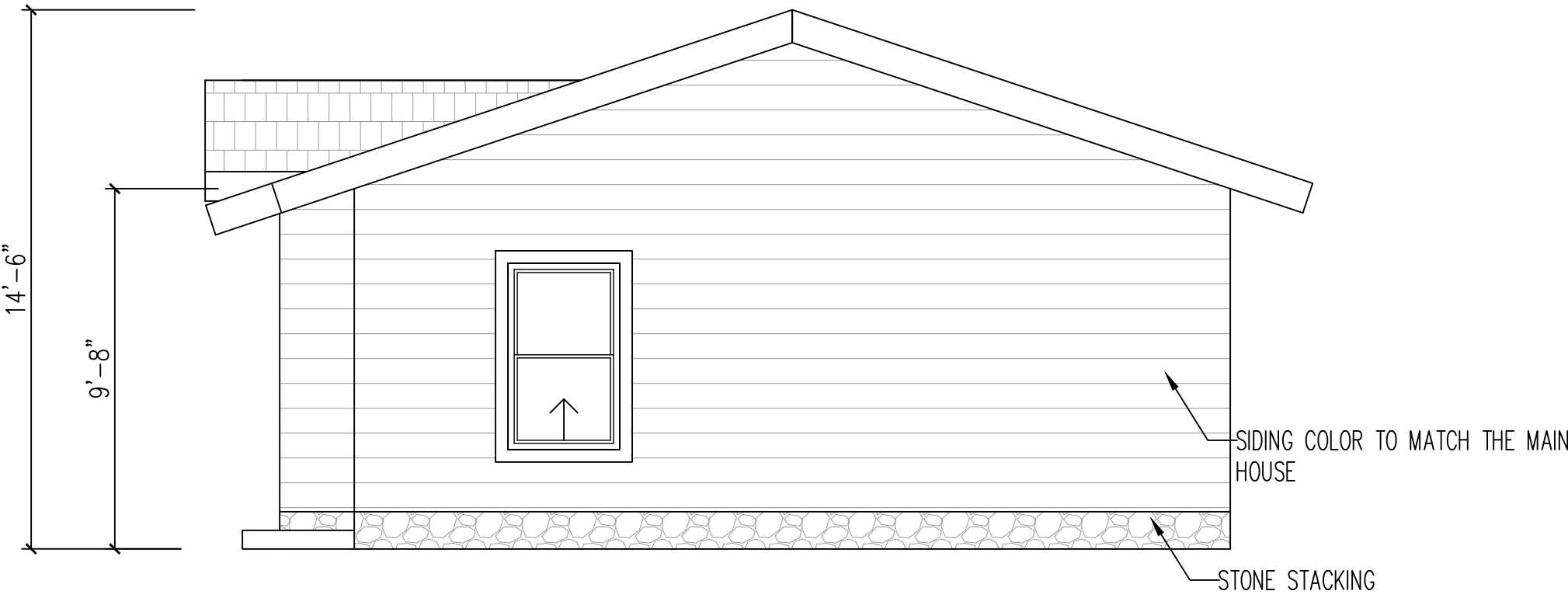
NORTH ELEVATION-MAIN HOUSE

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



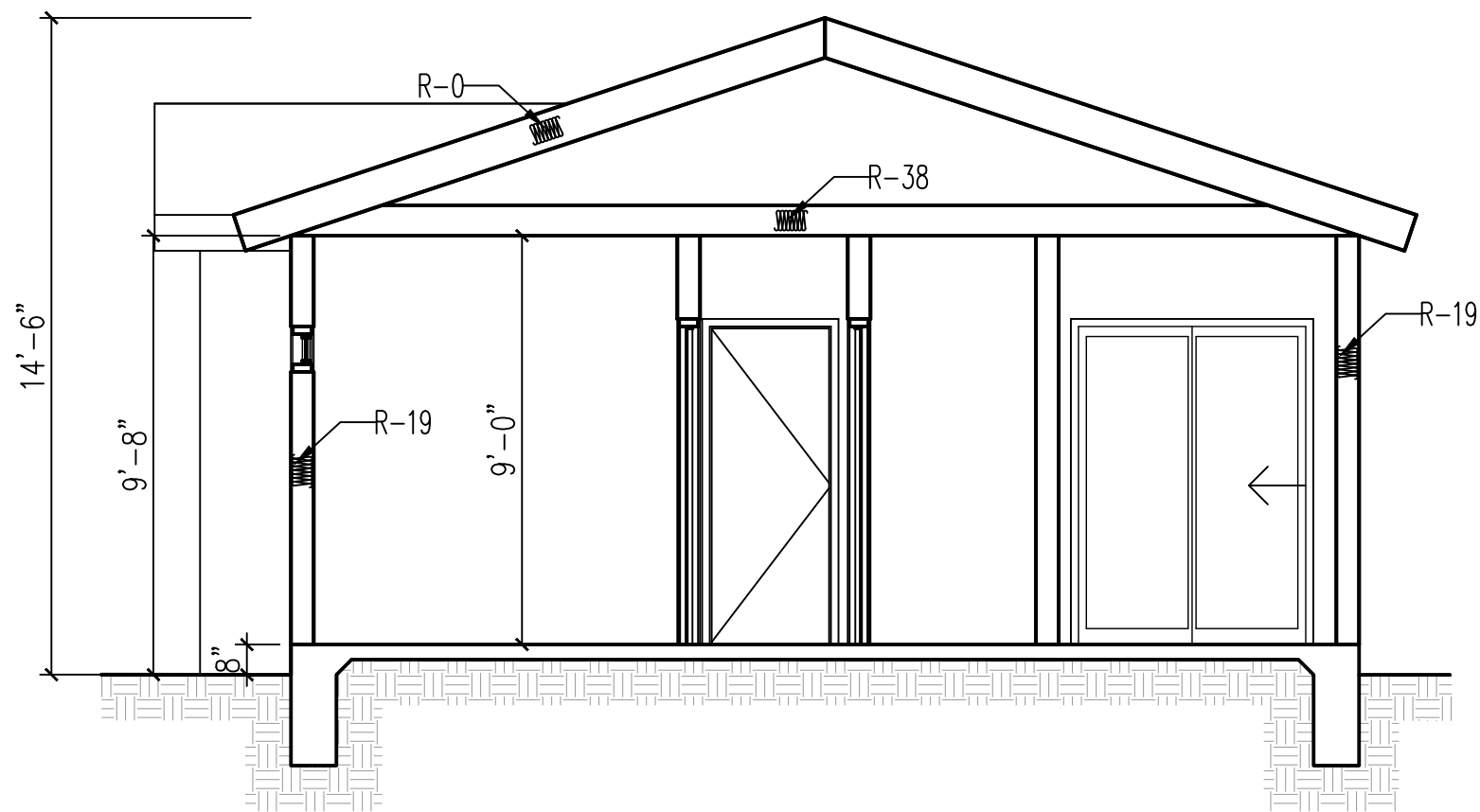
SOUTH ELEVATION-MAIN HOUSE

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



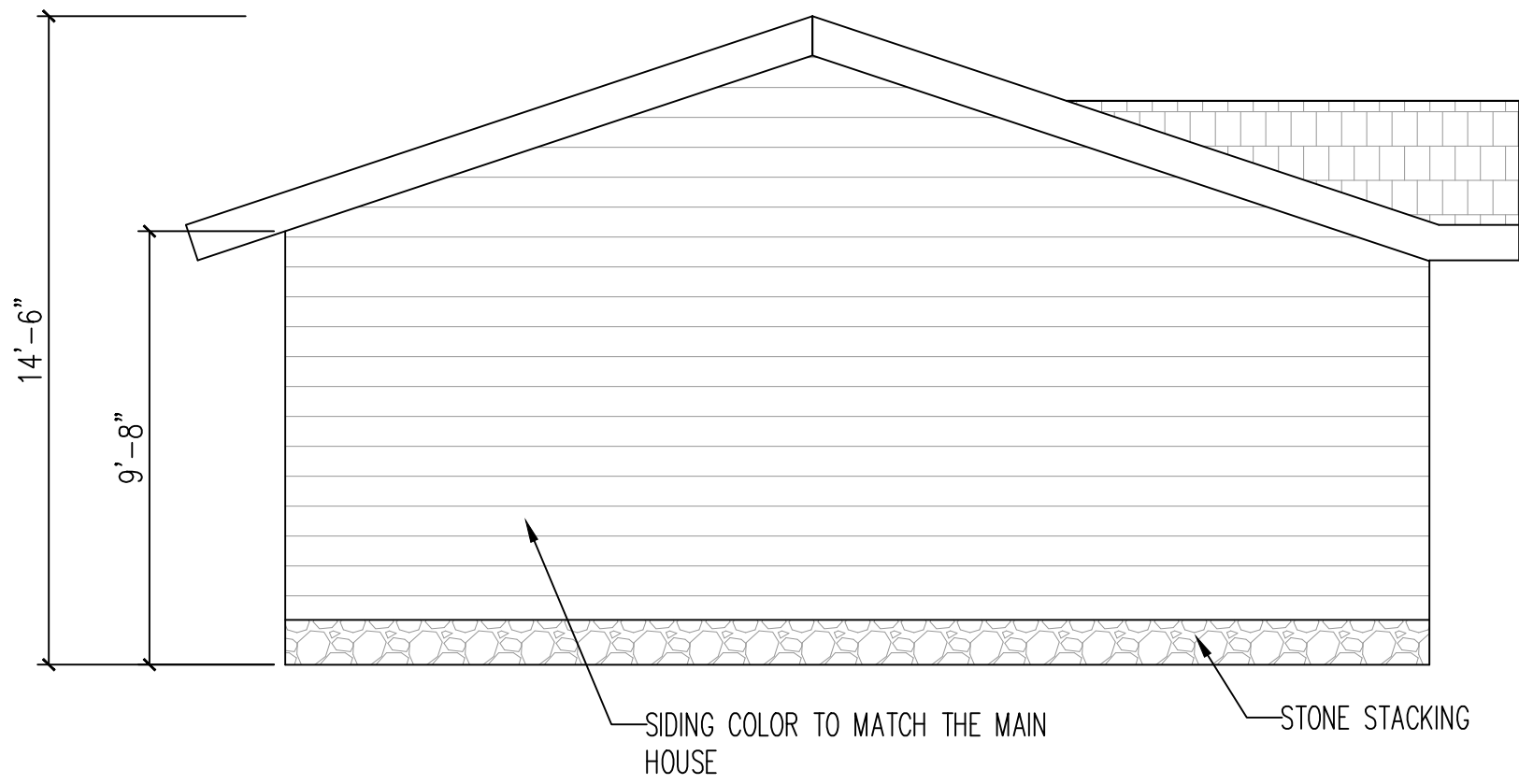
WEST ELEVATION-ADU

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



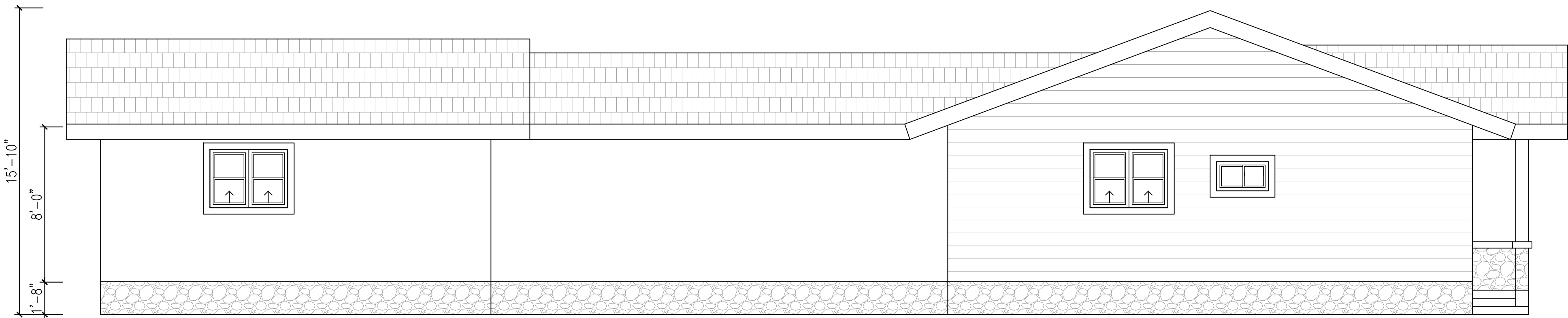
SECTION A-A

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



EAST ELEVATION-ADU

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



EAST ELEVATION-MAIN HOUSE

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

NOTE:

EXTERIOR COLORS AND MATERIALS OF THE PROPOSED ADU, INCLUDING WALLS,
ROOF, AND WINDOWS MUST MATCH THE EXISTING MAIN HOUSE.
PROVIDE 2 LAYERS OF GRADE D PAPER WATER-RESISTIVE BARRIER FOR THE STUCCO
EXTERIOR APPLICATION WHEN APPLIED TO WOOD-BASED SHEATHING ON THE ELEVATIONS.

STAMP:

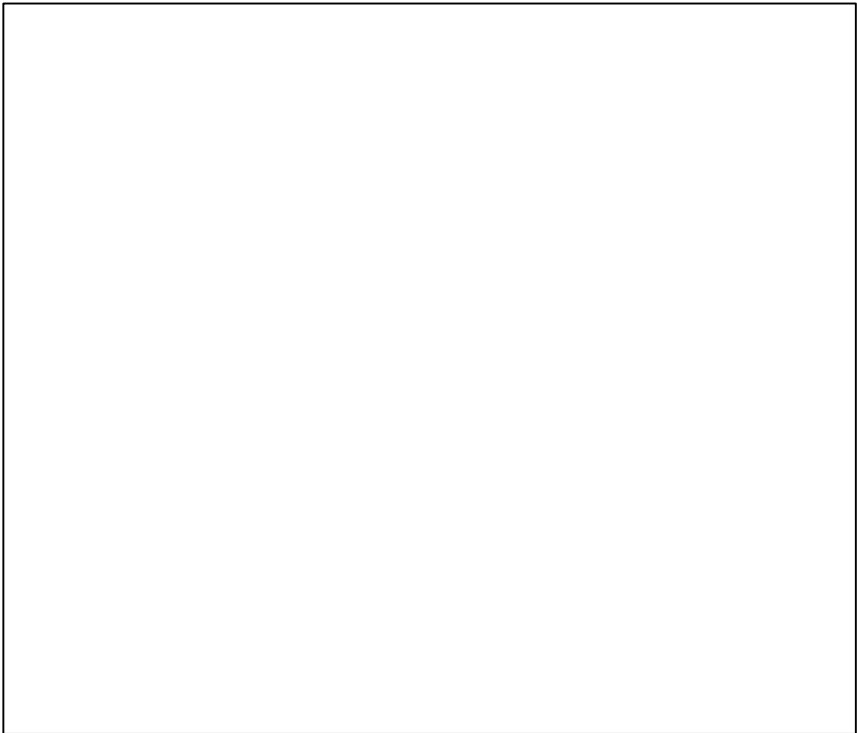


REVISIONS:

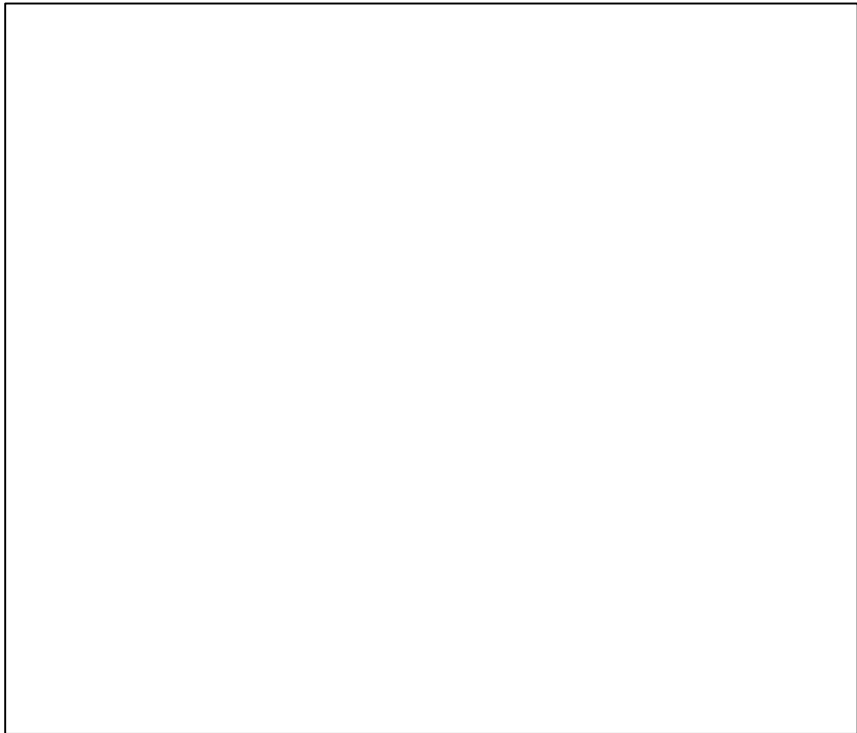
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ELEVATION
SECTION

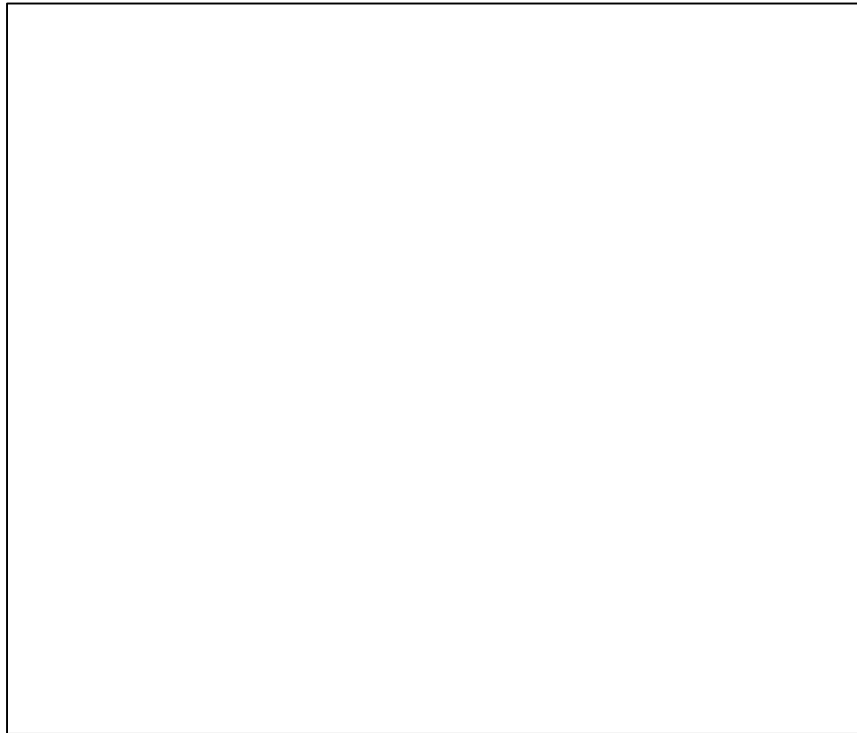
SHEET NUMBER:



WINDOW/DOOR WOOD TRIM
WHITE COLOR



WINDOW/DOOR WOOD FRAMING
WHITE COLOR



FASCIA BOARD
WHITE COLOR



ASPHALT SHINGLES
GAF ROOFING PRODUCTS
CRRC PRODUCT ID # 0676-0043A
GRAY COLOR 3Y REFLECTANCE 0.26 SRI 3Y 27



WOOD SIDING
COLOR MATCH TO EXISTING MAIN HOUSE



RIVER ROCK FOUNDATION
COLOR MATCH TO EXISTING MAIN HOUSE



36 IN. X 84 IN. RIGHT-HAND 3/4 OVAL BLAKELY
GLASS CHOCOLATE PAINT FIBERGLASS PREHUNG
FRONT DOOR W/ROT RESISTANT FRAME

Dimensions	
Door Height (in.)	81.888 in
Door Thickness (in.)	1.75 in
Door Width (in.)	37.563 in
Jamb Size (in.)	4-9/16"
Nominal Door Height (in.)	80 in
Nominal Door Thickness (in.)	2 in
Nominal Door Width (in.)	36 in
Rough Opening Height (in.)	82.5 in
Rough Opening Width (in.)	38.5 in
Details	
Bore Type	Double Bore
Color Family	Dark Brown
Color/Finish	Dark Chocolate
Door Configuration	Single Door
Door Glass Insulation	Tempered
Door Handing	Right-Hand/Inswing
Door Style	Traditional
Door Type	Exterior Prehung
Features	Glass Panel, Lockset Bore (Double Bore), Weatherstripping
Finish Type	Painted
Frame Material	Wood
Glass Caming Finish	Nickel
Glass Layout	3/4 Lite
Glass Shape	Oval Lite
Glass Style	Decorative Glass
Hinge Finish	Satin Nickel
Hinge Type	Ball Bearing
Included	Instructions
Material	Fiberglass
Number of Hinges	3
Number of Lites	1 Lite
Panel Type	2 Panel
Product Weight (lb.)	48.33 lb
Returnable	90-Day
Suggested Application	Back, Front, Side



SINGLE-HUNG WINDOW
WOOD FRAMING WITH WHITE COLOR



YANG
ARCHITECT

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540 E MCKINLEY AVE
POMONA CA 91767

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling reuse on the project or salvage for future use or sale.
2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
3. Identify diversion facilities where the construction and demolition waste material collected will be taken.
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
- Operation and maintenance instructions for the following:
 - a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
 - b. Roof and yard drainage, including gutters and downspouts.
 - c. Space conditioning systems, including condensers and air filters.
 - d. Landscape irrigation systems.
 - e. Water reuse systems.
- Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycling programs and locations.
6. Public transportation and/or carpool options available in the area.
7. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
8. Information about water-conserving landscape and irrigation design and controllers which conserve water.
9. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 6 feet away from the foundation.
- Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
10. Information about state solar energy and incentive programs available.
11. A copy of all special inspections verifications required by the enforcing agency or this code.
12. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.
13. Information and/or drawings identifying the location of grab bar reinforcements.

4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 33120.1.

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

A-8

	Y	NA	RESPON- PARTY
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 <i>California Building Code</i>, 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 <i>California Building Code</i>, 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 - For 30-ampere receptacles, NEMA 14-30R - 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 with J1772 connectors. 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 areas 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 less than 30 amperes.			
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 comply with Section 4.106.4.2.2.1.1. Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See <i>California Building Code</i>, Chapter 11B, for applicable requirements.			
4.106.4.2.2.1.1 Electric vehicle charging stations (EVCS) spaces with EV chargers installed; dimensions and location.			
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: - The EVCS space shall be located adjacent to an accessible parking space meeting the requirements of the <i>California Building Code</i>, Chapter 11A, to allow use of the EV charger from the accessible parking space. - The EVCS space shall be located on an accessible route, as defined in the <i>California Building Code</i>, Chapter 2, to the building. Exception: Electric vehicle charging stations designed and constructed in compliance with the <i>California Building Code</i>, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1.			
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 <i>California Building Code</i> , Chapter 11B, EV ready spaces and EVCS in multifamily developments shall comply with <i>California Building Code</i> , 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.	☒		Contractor
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 successor(s).			
4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multi-family buildings.			
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."			
Notes:			
1.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.			
2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.			

4.304 OUTDOOR WATER USE

4.304.1 UTILITY POTABLE WATER USE IN LANDSCAPE AREAS.

Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

NOTES:

- The Model Water Efficient Landscape Ordinance (MWELO) is located in the *California Code Regulations*, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: <https://www.water.ca.gov/>

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING.

Annual spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT.

Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

Exceptions:

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
- The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN.

Submit a construction waste management plan in conformance with items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

- Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse, the project's salvage for future use or sale.
- Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
- Identify diversion facilities where the construction and demolition waste material collected will be taken.
- Identify construction methods employed to reduce the amount of construction and demolition waste generated.
- Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3 WASTE MANAGEMENT COMPANY.

Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [L.R].

Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.

Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

4.408.5 DOCUMENTATION.

Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4..

Notes:

- Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
- Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL.

At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

- Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
- Operation and maintenance instructions for the following:
 - Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
 - Roof and yard drainage, including gutters and downspouts.
 - Space conditioning systems, including condensers and air filters.
 - Landscape irrigation systems.
 - Water reuse systems.
- Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
- Public transportation and/or carpool options available in the area.
- Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- Information about water-conserving landscape and irrigation design and controllers which conserve water.
- Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
- Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
- Information about state solar energy and incentive programs available.
- A copy of all special inspections verifications required by the enforcing agency or this code.
- Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.
- Information and/or drawings identifying the location of grab bar reinforcements.

4.410.2 RECYCLING BY OCCUPANTS.

Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the following:

- destruction, stasis, structure, composite or non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42549.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

4.501.1 Scope

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

SECTION 4.502 DEFINITIONS

5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference)

AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (F&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, decking, stais, structure, composite or non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42549.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

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SECTION 4.501 GENERAL

4.501.1 Scope

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5.102.1 DEFINITIONS

The following terms are defined in Chapter 2 (and are included here for reference)

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COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, decking, stais, structure, composite or non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42549.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

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SECTION 4.502 DEFINITIONS

5.102.1 DEFINITIONS

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COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, decking, stais, structure, composite or non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42549.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

4.501.1 Scope

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

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YANG
ARCHITECT

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POMONA CA 91767

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

1. 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.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

[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.

703 VERIFICATIONS

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.

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

<https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx>

See California Department of Public Health's website for certification programs and testing labs.

<https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx>.

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

See California Department of Public Health's website for certification programs and testing labs

<https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx>

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- #### 4.505 INTERIOR MOISTURE CONTROL

4.505.1 General. Buildings shall meet or exceed the provisions of the *California Building Standards Code*.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.

4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:

1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
2. Other equivalent methods approved by the enforcing agency.
3. A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.
2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.
3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

Insulation products which are visibly wet or have 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 recommendations prior to enclosure.

4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
 - a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.
 - b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.
2. Lighting integral to bathroom exhaust fans shall comply with the *California Energy Code*.

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:

1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
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 acceptable.

NIA	RESPON- PARTY
TABLE 4.504.2 - SEALANT VOC LIMIT	
(Less Water and Less Exempt Compounds in Grams per Liter)	
SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750
☒	☐ Contractor
TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS _{2,3}	
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	
COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ₁	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340
☒	☐ Contractor
1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.	
☒	☐ Contractor

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