

CALIFORNIA RANCH



COTTAGE



MODERN

WALNUT CREEK ACCESSORY DWELLING UNIT - PLAN 2

PROJECT ADDRESS: _____

PROJECT DIRECTORY

(TO BE PROVIDED BY APPLICANT OR OWNER)

APPLICANT

ADDRESS: _____
CONTACT: _____
EMAIL: _____
PHONE: _____

OWNER

ADDRESS: _____
CONTACT: _____
EMAIL: _____
PHONE: _____

ARCHITECT RRM DESIGN GROUP

ADDRESS: 3765 S Higuera St, Suite 102
SAN LUIS OBISPO, CA 93401
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CALGREEN CODE CHECKLIST

City of Walnut Creek
Development Review Services
1666 N. Main Street, Walnut Creek, CA 94596
(925) 943-5834 *phone* (925) 256-3500 *fax*

Revised June 9, 2017 ***Information Bulletin No. IB-35***

Residential
CalGreen Code Checklist

Project designer may use this checklist to indicate **sheet number on the project plans** showing compliance with CALGREEN code sections for all new residential structures (RNEW).

This guideline also identifies which **city division** has responsibility for **plan check** and **inspection** for the listed sections of the California Green Building Standards Code: **B** Building Division; E Current Engineering Division; P Planning Division.

When using this checklist: reviewer or inspector place a check mark ✓ next to the division letter; reviewer circle the appropriate letter E or B to indicate which division will do the inspection.

Permit No. Reviewed by:

Code Section	Section Title	Sheet Number	Primary responsibility (office use) Plan check	Inspection
4.106	**Site Development**			
	.2 Storm water during construction	AS-101	E	E/B
	.3 Grading and paving		E	E/B
	.4 Electric vehicle charging		E	E/B
4.201	**Energy Efficiency**			
	.1 use California Energy Code standards	G-201, G-202, T24	B	B
4.303	**Indoor Water Use**	G-201, G-202, T24,		
	.1 Water conserving plumbing fixtures and fittings	A-101	B	B
	.2 Plumbing fixtures and fittings		B	B
4.304	**Outdoor Water Use**	G-201, G-202, AS-101		
	.1 Outdoor potable water use in landscape areas		E	E/B
4.406	**Enhanced Durability & Reduced Maintenance**	G-201, G-202		
	.1 Rodent proofing		B	B
4.408	**Construction Waste Reduction, Disposal & Recycling**	G-201, G-202		
	.1 Construction waste reduction 65 percent		B	B
4.410	**Building Maintenance & Operation**			
	.1 Operation & maintenance manual	G-201, G-202	B	B
	.2 Recycling by occupants		B	B
~~4.503~~	~~**Fireplaces**~~			
	~~.1 EPA Phase II emission limits~~		B	B
4.504	**Pollutant Control**			
	.1 Cover ducts, protect mech equip during construction		B	B
	.2 Finish material	G-201, G-202, A-111	B	B
	.3 Carpet systems	A-201, A-202, A-203	B	B
	.4 Resilient flooring systems		B	B
	.5 Composite wood products		B	B
4.505	**Interior Moisture Control**			
	.2 Concrete slab foundations	G-201, G-202	B	B
	.3 Moisture content of building materials		B	B
4.506	**Indoor Air Quality and Exhaust**	G-201, G-202, A-111		
	.1 Bathroom exhaust fans		B	B
4.507	**Environmental Comfort**	G-201, G-202, A-111		
	.2 Heating and A/C system design		B	B

* For inspection items with E/B, Engineering Division will inspect when a site development permit is issued, otherwise Building Division will inspect.

SUPPORTING DOCUMENTS

ALL PRADU PLAN USERS MUST SUBMIT A COMPLETED LIABILITY AGREEMENT FORM AT THE TIME OF APPLICATION SUBMITTAL.

SIGNED USER LICENSE AGREEMENT? ☐ **YES** ☐ **NO**

STAFF INITIALS:_____

ENERGY COMPLIANCE

PREPARED BY: CARSTAIRS ENERGY
DATE PREPARED: FEBRUARY 06, 2023
JOB NUMBER: 23-02066

PROJECT INFORMATION

PROJECT SCOPE:

1. CONSTRUCTION OF A NEW DETACHED 1 STORY 614.5 SF ACCESSORY DWELLING UNIT WITH 1 BEDROOMS AND 1 BATH.
2. ALL SITE WORK WITHIN THE PROPERTY LINE.
3. ALL THE WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

(TO BE PROVIDED BY APPLICANT OR OWNER)

SITE INFORMATION:

APN:
ZONING:
LOT SIZE:
LAND USE:
EXISTING USE:
PROPOSED USE:

LOT COVERAGE

BUILDING:
HARDSACPE/PAVING:
LANDSCAPE:

SETBACKS

	REQUIRED	*PROPOSED*
FRONT:	MINIMUM	
REAR:	4' - 0" (A.B. NO. 86)	
SIDES:	4' - 0" (A.B. NO. 86)	
BETWEEN STRUCTURES:	10' - 0"	

IS THE ADU 5' - 0" OR LESS TO ANY PROPERTY LINE AND/OR IS THE ADU 10' - 0" OR LESS FROM ANY ADJACENT BUILDING OR STRUCTURE?

☐ **NO**

☐ **YES;** IF YES, FIRE RATED WALL & PROJECTIONS REQUIRED PER 2022 CBC, CHAPTER 2. FIRE RATED WALL DETAIL: **52/A-901**
IF YES, **FIREBLOCKING** IS REQUIRED IN PROJECTIONS, RAKES AND EAVES. SEE DETAILS: **24/A-903 31/A-912, 32/A-912, 31/A-922, 32/A-922, 31/A-932, 32/A-932**

ADDITIONALLY, 1-HOUR FIRE RATED PROJECTION NOTES ARE APPLICABLE ON DETAILS: **52/A-931, 42/A-903, 34/A-903**

UTILITIES

WATER AND SEWER SERVICE	CONTRA COSTA WATER DISTRICT
ELECTRICAL SERVICE	PACIFIC GAS AND ELECTRIC
GAS SERVICE	PACIFIC GAS AND ELECTRIC
SEWER SERVICE	EBMUD, CENTRAL SANITARY DISTRICT
GARBAGE SERVICE	REPUBLIC SERVICES
CABLE SERVICE	–

BUILDING AREAS

PLAN 2 - ONE BEDROOM

AREA:	614.5 SF
FRONT PORCH	85 SF
OPTIONAL SIDE PORCH	47 SF

PROJECT CHECKLIST

***FOR BUILDING DEPARTMENT REVIEW, INITIAL WHEN SECTION HAS BEEN REVIEWED**

STAFF INITIALS: _____

WASTE WATER *FILLED IN BY OWNER OR APPLICANT

☐ SEWER
☐ SEPTIC (REQUIRES APPROVAL)

FIRE SPRINKLERS

DOES THE PRIMARY RESIDNENCE HAVE NFPA 13D SPRINKLERS?

☐ **NO**
☐ **YES**

REQUIRED AT PROPOSED ADU:

☐ **NO** (NOT REQUIRED IF THE PRIMARY RESIDENCE IS UNSPRINKLERED
☐ **YES** (REQUIRED IF THE PRIMARY RESIDENCE IS SPRINKLERED

ELECTRICAL PANEL (SEE SITE PLAN FOR LOCATION):

☐ **OPTION 1** NEW ELECTRICAL MAIN PANEL OF 200 AMP WITH 225 AMP MINIMUM BUSBAR RATING
☐ **OPTION 2** A NEW ELECTRICAL SUBPANEL CONNECTS TO THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME. A SEPARATE ELECTRICAL PERMIT SHALL BE PULLED FOR THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME, ELECTRICAL LOAD CALCULATIONS ARE REQUIRED.

FIRE SPRINKLERS NOTES

WHEN SPRINKLERS ARE REQUIRED PER "PRE-APPROVED ADU PLANS APPLICATION FORM":

1. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.
2. SECTION 903.3.1.3 NFPA 13D SPRINKLER SYSTEMS AUTOMATIC FIRE SPRINKLER SYSTEMS INSTALLED IN ONE- AND TWO-FAMILY DWELLINGS, GROUP R-3.
3. SECTION 903.2.8 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA.
4. SECTION 903.2.8.1 GROUP R-3 AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PERMITTED IN GROUP R-3 OCCUPANCIES.
5. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1 INCH WATER SHALL BE INSTALLED.
6. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
7. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.

PROJECT INFORMATION

***FOR BUILDING DEPARTMENT REVIEW, INITIAL WHEN SECTION HAS BEEN REVIEWED**

STAFF INITIALS: _____

BUILDING INFORMATION:

NUMBER OF STORIES:	1
OCCUPANCY GROUP:	R-3
CONSTRUCTION TYPE:	VB
SPRINKLERED:	SEE FIRE SPRINLER SECTION ON SHEET
MAX. HEIGHT ALLOWED:	16' - 0"
MAX. HEIGHT PROPOSED:	15' - 6"

ADDITIONAL INFORMATION

1. ANY PROPOSED ENERGY STORAGE SYSTEM (ESS) SHALL FOLLOW ***SINGLE-FAMILY RESIDENTIAL MANDATORY REQ. SUMMARY SECTION 150.0(s)*** AND WILL REQUIRE A SEPARATE PERMITE TO BE PULLED BY APPLICANT.
2. VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION (VERIFICATION DETAILS FROM VCHP STAFF REPORT, APPENDIX B, AND RA3) **(PER TITLE 24).**
3. NORTHWEST ENERGY EFFICIENCY ALLIANCE (NEEA) RATED HEAT PUMP WATER HEATER; SPECIFIC BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED **(PER TITLE 24).**
4. THIS PLAN IS INTENDED FOR FLAT LOTS (FALLING LESS THAN 10" ACROSS THE LONGEST BUILDING DIMENSION OR 5% WHICHEVER IS THE LEAST), WITHOUT HIGHLY EXPANSIVE OR LIQUEFIABLE SOILS AND NOT IN DESIGNATED FLOOD ZONE. WHERE THE MAIN DWELLING UNIT IS SUPPORTED IN SHALLOW FOOTINGS WITH SLABS ON GRADE CONSTRUCTION. IF THE PROJECT SITE DEVIATES FROM ANY OF THE AFOREMENTIONED QUALITIES, AS DETERMINED BY THE BUILDING OFFICIAL, THERE PRE-APPROVED ADU FOUNDATION PLANS AND DETAILS ARE NOT APPLICABLE.

STYLE & OPTIONS SELECTIONS

***OWNER OR APPLICANT** TO SELECT ONE OF THE FOLLOWING STYLES AND ONE OF EACH OF THE SUBSEQUENT OPTIONS WITHIN THE CHOSEN STYLE.

***OWNER OR APPLICANT** REQUIRED TO PROVIDE MANUFACTURER AND COLOR/FINISH SPECIFICATION IN THE MATERIALS LEGEND; SEE ELEVATIONS.

☐ CALIFORNIA RANCH

OPTIONAL SIDE PORCH
☐ OPT. A - YES
☐ OPT. B - NO

HORIZONTAL SIDING
☐ OPT. A - FIBER CEMENT LAP SIDING (CRC R703.10.2)
☐ OPT. B - FIBER CEMENT PANEL SIDING (CRC R703.10.1)
☐ OPT. C - HORIZONTAL WOOD LAP SIDING (CRC R703.5.3)

EXTERIOR TRIM ELEMENTS
☐ OPT. A - FIBER CEMENT
☐ OPT. B - WOOD

PORCH RAILINGS
☐ OPT. A - WOOD PICKET
☐ OPT. B - NO RAILING

EXTERIOR LIGHT
☐ OPT. A - THE GREAT OUTDOORS
☐ OPT. B - LUTEC - BARN LIGHT

BASE TRIM
☐ OPT. A - YES
☐ OPT. B - NO

ASPHALT SHINGLE ROOF - CLASS C MIN. (CRC R905.1, CRC R905.2 & CRC R905.1.1)

EXTERIOR SOFFITS, RAKES, & EAVES MATERIAL
☐ OPT. A: EXT. GRADE TONGUE & GROOVE
☐ OPT. B: FIBER CEMENT
☐ OPT. C: EXT. GRADE PLYWOOD

SHUTTERS
☐ OPT. A
☐ OPT. B
☐ OPT. C

☐ COTTAGE

HORIZONTAL SIDING
☐ OPT. A - FIBER CEMENT LAP SIDING (CRC R703.10.2)
☐ OPT. B - FIBER CEMENT PANEL SIDING (CRC R703.10.1)
☐ OPT. C - HORIZONTAL WOOD LAP SIDING (CRC R703.5.3)

SNGLE/SHAKE SIDING (CRC R703.6)
☐ OPT. A - FIBER CEMENT
☐ OPT. B - WOOD

PORCH RAILINGS
☐ OPT. A - "X" STYLE
☐ OPT. B - WOOD PICKET
☐ OPT. C - NO RAILING

EXTERIOR TRIM ELEMENTS
☐ OPT. A - FIBER CEMENT
☐ OPT. B - WOOD

BASE TRIM
☐ OPT. A - YES
☐ OPT. B - NO

EXTERIOR LIGHT
☐ OPT. A - LNC - MODERN
☐ OPT. B - HAMPTON BAY

ASPHALT SHINGLE ROOF - CLASS C MIN. (CRC R905.1, CRC R905.2 & CRC R905.1.1)

EXTERIOR SOFFITS, RAKES, & EAVES MATERIAL
☐ OPT. A: EXT. GRADE TONGUE & GROOVE
☐ OPT. B: FIBER CEMENT
☐ OPT. C: EXT. GRADE PLYWOOD

OPTIONAL SIDE PORCH
☐ OPT. A - YES
☐ OPT. B - NO

☐ MODERN

VERTICAL SIDING
☐ OPT. A - FIBER CEMENT PANEL SIDING (CRC R703.10.1)
☐ OPT. B - VERTICAL WOOD SIDING (CRC R703.5.1)

EXTERIOR TRIM ELEMENTS
☐ OPT. A - FIBER CEMENT
☐ OPT. B - WOOD

OPTIONAL SIDE PORCH
☐ OPT. A - YES
☐ OPT. B - NO

EXTERIOR LIGHT
☐ OPT. A - LNC - MODERN
☐ OPT. B - HAMPTON BAY

BASE TRIM
☐ OPTION A - YES
☐ OPTION B - NO

STANDING SEAM METAL ROOF - CLASS C MIN. (CRC R905.1, CRC R905.10 & CRC R905.1.1)

ATTIC VENTING METHOD
☐ OPT. A - RIDGE & SOFFIT ATTIC VENTING
☐ OPT. B - ROOF VENTS

EXTERIOR SOFFITS, RAKES, & EAVES MATERIAL
☐ OPT. A - EXT. TONGUE & GROOVE
☐ OPT. B - FIBER CEMENT
☐ OPT. C - EXT. GRADE PLYWOOD

USER LICENSE AGREEMENT

OWNER/APPLICANT TO SIGN & SUBMIT SEPERATE SUPPORTING DOCUMENT "USER LICENSE AGREEMENT" IN ADDITON TO SIGNING THIS USER AGREEMENT BELOW:

BY USING THESE PERMIT READY ACCESSORY DWELLING UNIT CONSTRUCTION DOCUMENTS, THE USER AGREES TO RELEASE, HOLD HARMLESS, AND INDEMNIFY THE CITY OF WALNUT CREEK, ITS ELECTED OFFICIALS AND EMPLOYEES, RRM DESIGN GROUP, AND THE ARCHITECT OR ENGINEER WHO PREPARED THESE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS.

THE PLANS ATTACHED HERE ARE APPROVED FOR ONLY USE IN CITY OF WALNUT CREEK. NO DEVIATIONS, ALTERATIONS, OR OPTIONS BEYOND THOSE SPECIFICALLY INDICATED IN THE PLANS ARE ALLOWED WITHOUT PRIOR APPROVAL BY THE ISSUING JURISDICTION AND CHIEF BUILDING OFFICIAL. ANY UNAPPROVED PLAN MODIFICATIONS MAY BE DEVELOPED THROUGH RRM DESIGN GROUP AND THE APPROVING JURISDICTION IF REQUIRED. THIS SET OF PLANS SHALL NOT BE USED FOR A PUBLIC HOUSING PROJECT.

SIGNATURE DATE

SHEET INDEX

G-002	TITLE SHEET
G-101	GENERAL NOTES
G-102	SHEET INDEX, ABBREVIATIONS & SYMBOLS
G-201	CAL GREEN RESIDENTIAL REQUIREMENTS
G-202	CAL GREEN RESIDENTIAL REQUIREMENTS
AS102	ARCHITECTURAL SITE PLAN (EXAMPLE & INSTRUCTIONS)
A2-100	RENDERINGS
A2-101	FLOOR PLAN 2
A2-111	FINISH, MECHANICAL, & ELECTRICAL PLANS
A2-121	ROOF PLAN & REFLECTED CEILING PLAN - CAL RANCH
A2-122	ROOF PLAN & REFLECTED CEILING PLAN - COTTAGE
A2-123	ROOF PLAN & REFLECTED CEILING PLAN - MODERN
A2-201	ELEVATIONS & BUILDING SECTIONS - CAL RANCH
A2-202	ELEVATIONS & BUILDING SECTIONS - COTTAGE
A2-203	ELEVATIONS & BUILDING SECTIONS - MODERN
A-901	ARCHITECTURAL DETAILS - COMMON
A-902	ARCHITECTURAL DETAILS - COMMON
A-903	ARCHITECTURAL DETAILS - COMMON ROOF
A-911	ARCHITECTURAL DETAILS - CALIFORNIA RANCH
A-912	ARCHITECTURAL DETAILS - CALIFORNIA RANCH - ROOF
A-913	ARCHITECTURAL DETAILS - CALIFORNIA RANCH
A-921	ARCHITECTURAL DETAILS - COTTAGE
A-922	ARCHITECTURAL DETAILS - COTTAGE - ROOF
A-931	ARCHITECTURAL DETAILS - MODERN
A-932	ARCHITECTURAL DETAILS - MODERN - ROOF
S -101	SHEET INDEX, ABBREVIATION & SYMBOLS
S -102	GENERAL NOTES
S -103	GENERAL NOTES, SPECIAL INSPECTION & TESTS
S -201	FOUNDATION PLAN
S -202	ROOF FRAMING PLAN
S -301	TYPICAL CONCRETE DETAILS
S -311	CONCRETE DETAILS
S -312	CONCRETE DETAILS
S -401	TYPICAL WOOD DETAILS
S -402	TYPICAL WOOD DETAILS
S -403	TYPICAL WOOD DETAILS
S -421	ROOF FRAMING DETAILS
T24-201	ENERGY COMPLIANCE - PLAN 2
T24-202	ENERGY COMPLIANCE - PLAN 2
T24-203	ENERGY COMPLIANCE - PLAN 2
Grand total: 40	

CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

VICINITY MAP (TO BE PROVIDED BY OWNER OR APPLICANT)

WALNUT CREEK ADU
CITY OF WALNUT CREEK

TITLE SHEET

DATE
02/10/2023

SHEET
G-002

FOR USE IN THE CITY OF WALNUT CREEK

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FLOOR PLAN NOTES

1. **WEATHER BARRIERS.**
   a. NOT FEWER THAN ONE-LAYER WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS CONTINUOUS FROM TOP OF WALS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES WITH FLASHING. MINIMUM NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1.
   b. PROVIDE (1) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. *(2022 CRC R703.7.3)*
2. **DOMESTIC RANGE** VENTILATION DUCTS SHALL HAVE SMOOTH INTERIOR SURFACES. (2022 CMC 504.3)
3. **CLOTHES DRYER** MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT.*(2022 CMC 504.4)*
4. **ALL MANUFACTURED EQUIPMENT** SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH INSTALLATION REQUIREMENTS. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ON SITE FOR INSPECTIONS.
5. **SHOWERS AND TUB-SHOWER COMBINATIONS:** CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. *(2022 CPC 417.0.)*
6. **WET-ROOM GLAZING.** PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS, BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60 INCHES ABOVE A STANDING SURFACE. *(2022 CRC R308.4.5)*
7. **HEATING AND AIR-CONDITIONING SYSTEM DESIGN** SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT.
8. **WATER CLOSETS.**
   a. CLEARANCES: 24" MIN. FRONT, 30" MIN COMPARTMENT WIDTH.
   b. PROVIDE A MIN 3 SF WINDOW, 1/2 OF WHICH SHALL BE OPENABLE OR AN EXHAUST FAN 50 CFM FOR INTERMITTENT OR 20 CFM FOR CONTINUOUS. DIRECT VENT TO OUTSIDE WITH BACKDRAFT DAMPER. *(2022 CRC R303.3)*
   c. NEW WATER CLOSETS AND ASSOCIATED FLUSHOMETER VALVES, IF ANY SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS STANDARD A112.19.2. H & S CODE, SECTION 17921.3(B).
9. **BATH ACCESSORIES:** PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 TOWEL BAR PER BATHROOM. PROVIDE NECESSARY BLOCKNG FOR TOILET PAPER HOLDER AND TOWEL BARS.
10. **WHOLE-BUILDING MECHANICAL VENTILATION SYSTE**M PER ASHRAE STANDARD 62.2. AT TIME OF BUILDING PERMIT APPLICATION, APPLICANT TO PROVIDE THE FOLLOWING INFORMATION:
    a. PROVIDE 50 CFM FAN PER SECTION 150.0(O)(C)(I) [ASHRAE 62.2:4.1.2] CALCULATION ON MECHANICAL PLAN
    b. DUCT DIAMETER AND MAXIMUM DUCT LENGTH PER ASHRAE 62.2 TABLE 7.1
    c. TYPE OF SYSTEM USED AND PROVIDE COMPLETED CF-6R-MECH-05 FORM.
    d. FANS SHALL BE A MAXIMUM OF 1 SONE.
    e. FANS SHALL BE PROVIDED A COVER OF R-4.2 WHEN OFF.
11. **ATTIC ACCESS:**
    a. WHERE REQUIRED, PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE (2022 CRC R807.1)
    b. BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30-INCHES OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS.
    c. THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2022 CRC R807.1)
    d. IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY ELECTRICAL. PROVIDE UNOBSTRUCTED PASSAGEWAY 24" WIDE OF SOLID CONTINUOUS FLOORING FROM ACCESS TO EQUIPMENT AND IT'S CONTROLS. ALSO PROVIDE UNOBSTRUCTED WORK SPACE IN FRONT OF EQUIPMENT 30" DEPTH MINIMUM. PROVIDE COMBUSTION AIR AND CONDENSATE LINE TO OUTSIDE OR AN APPROVED DRAIN FOR OPTIONAL AIR CONDITIONING.
    e. PROVIDE A 120V RECEPTACLE AND A LIGHT NEAR THE EQUIPMENT WITH LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.
12. BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR PER 2022 CRC, SECTION R307.2.

SITE NOTES

1. **CALL BEFORE YOU DIG!** CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST 2 WORKING DAYS BEFORE EXCAVATING.
2. UNLESS OTHERWISE NOTED ON THE PLANS, FINISHED GROUND SURFACES SHALL BE GRADED TO DRAIN THE FINISHED SITE PROPERLY WITHIN 10-FEET OF ANY BUILDING FOUNDATION WITH A SLOPE OF 5% AWAY FROM ANY BUILDING OR STRUCTURE. ALL EXTERIOR HARDSCAPE WITHIN 10-FEET OF A BUILDING FOUNDATION SHALL BE INSTALLED WITH A 2% MINIMUM SLOPE AWAY FROM ANY BUILDING OR STRUCTURE. DRAINAGE SWALES SHALL BE A 1.5% MINIMUM SLOPE. ALL GRADED SLOPES SHALL HAVE A MAXIMUM SLOPE OF 3H TO 1V (33%), UNLESS SHOWN OTHERWISE ON THE PLANS
3. LOT GRADING SHALL CONFORM AT THE PROPERTY LINES AND SHALL NOT SLOPE TOWARD PROPERTY LINES IN A MANNER WHICH WOULD CAUSE STORM WATER TO FLOW ONTO NEIGHBORING PROPERTY. HISTORIC DRAINAGE PATTERNS SHALL NOT BE ALTERED IN A MANNER TO CAUSE DRAINAGE PROBLEMS TO NEIGHBORING PROPERTY.
4. NEW RAINWATER DOWNSPOUTS SHALL BE DISCONNECTED AND DIRECT RUNOFF TO A LANDSCAPED AREA. DOWNSPOUTS MAY BE CONNECTED TO A POP-UP DRAINAGE EMITTER IN THE LANDSCAPED AREA OR MAY DRAIN TO SPLASH BLOCKS OR COBBLESTONES THAT DIRECT WATER AWAY FROM THE BUILDING.
5. CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE. IF THE EXISTING DRAINAGE SYSTEM IS DAMAGED DURING EXCAVATION, CONTRACTOR SHALL REPAIR AND/OR REROUTE DRAINAGE SYSTEM AND CONNECT TO EXISTING DRAINAGE FACILITY AS NECESSARY.
6. EXISTING PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE PROJECT CONSTRUCTION SHALL BE REPAIRED OR REPLACED. EXISTING DAMAGED PUBLIC IMPROVEMENTS WITHIN THE PROJECT LIMITS SHALL BE REPAIRED OR REPLACED EVEN IF THE DAMAGE OCCURRED PRIOR TO THE START OF CONSTRUCTION.
7. EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO OCTOBER 1 AND SHALL BE MAINTAINED DAILY UNTIL APRIL 30. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATERS INTO EXISTING STORM DRAIN FACILITIES. EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON-SITE DURING THE DRY SEASON AND EMPLOYED, AS NECESSARY PRIOR TO AND DURING RAIN EVENTS.
8. SEASONALLY APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE FOLLOWING SITE MANAGEMENT CATEGORIES MUST BE IMPLEMENTED YEAR-ROUND: 1) EROSION CONTROL; 2) RUN-ON AND RUN-OFF CONTROL; 3) SEDIMENT CONTROL; 4) GOOD SITE MANAGEMENT; AND 5) NON-STORMWATER MANAGEMENT.
9. AN ENCROACHMENT PERMIT WILL BE REQUIRED FOR ANY CONSTRUCTION ACTIVITY WITHIN A PUBLIC STREET RIGHT OF WAY THAT HAS BEEN ACCEPTED BY THE CITY.

ELECTRICAL NOTES

1. CONFORM WITH CURRENT CEC, NFPA, MFR'S, AND LOCAL REQUIREMENTS.
2. ELECTRICAL SYSTEM GROUND TO BE PROVIDED PER NEC ARTICLE 250-81.
3. ALL MATERIALS TO BE U.L. LABELED.
4. METER IS NOT REQUIRED. IF IT IS PROVIDED FOR ADU, MAIN PANEL IS REQUIRED FOR ADU WITH MINIMUM OF 225 AMP BUS-BAR. IF MAIN PANEL IS NOT PROVIDED FOR ADU, ELECTRICAL PERMIT SHALL BE PULLED FOR THE PRIMARY RESIDENCE WITH ELECTRICAL LOAD CALCULATIONS.
5. IF PROVIDED, ELECTRICAL MAIN PANEL: FLUSH MOUNT, 30" CLEARANCE. 200 AMP WITH 225 AMP BUS-BAR.
6. CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
7. ALL LUMINARIES SHALL COMPLY WITH 2022 CENC SECTION 150.0 (K) AND TABLE 150.0-A AS REFERENCED IN ENERGY NOTES, LUMINAIRE REQUIREMENTS SHEET G-101.
8. ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, LAUNDRY AREAS, BASEMENTS, CRAWL SPACES, OUTDOORS, KITCHEN COUNTERS, AND AT WET BAR SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN COMPLIANCE WITH NEC Art. 210-8, CONSISTING OF 125 VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES.
9. ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. (2022 CEC 210.11(C))
10. THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL.
11. CEILING-SUSPENDED (PADDLE) FANS SHALL BE SUPPORTED INDEPENDENTLY OF AN OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH 2022 CEC 314.27(C) (2022 CEC 422.18).
12. ALL LUMINARIES, LAMPHOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 410.6).
13. ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. (2022 CEC 210-12(A)).
14. ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 5'6" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.10, AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMNETS AS PERMITTED IN CEC 406.4(D)(2)(A).
15. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.
16. BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 kHz.
17. SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS.
18. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARAMS SHALL BE INTERCONNECTED.
19. EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING STANDARDS CODE SECTION 4.506. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS *(2022 CEnC 150.0(k)2G)*.
20. IN ADDITION TO THE NUMBER OF BRANCH CIRCUTS REQUIRED BY OTHER PARTS OF THE CODE, TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA PER 2022 CEC, ARTICLE 210.11 (C)(1). THE CIRCUTS SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 210.52(B).
21. IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY OTHER PARTS OF THE CODE, AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY 2022 CEC, ARTICLE 210.52 (F). THIS CIRCUT SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 201.11(C)(2).

ENERGY NOTES

1. THE BUILDER MUST PROVIDE NEW HOMEWONERS WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF INSTALLED LAMPS AND LUMINARIES.

LUMINAIRE REQUIREMENTS *(2022 CEnC 150.0(k)1)*.

A. **LUMINAIRE EFFICACY.** ALL INSTALLED LUMINAIRES SHALL MEET THE REQUIREMENTS IN TABLE 150.0-A.
EXCEPT: *INTEGRATED DEVICE LIGHTING. LIGHTING INTEGRAL TO EXHAUST FANS, KITCHEN RANGE HOODS, BATH VANITY MIRRORS AND GARAGE DOOR OPENERS. NAVIGATION LIGHTS. NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS LESS THAN 5 WATTS. CABINET LIGHTING: LIGHTING INTERNAL TO DRAWERS, CABINETRY AND LINEN CLOSETS WITH AN EFFICACY OF 45 LUMENS PER WATT OR GREATER.*
THE FOLLOWING ARE HIGH-EFFICACY LIGHT SOURCES PER TABLE 150.0-A:
THE FOLLOWING LIGHT SOURCES, OTHER THAN THOSE INSTALLED IN CEILING RECESSED DOWNLIGHT LUMINAIRES, ARE NOT REQUIRED TO COMPLY WITH REFERENCE JOINT APPENDIX JA8:
   1. *LED LIGHT SOURCES INSTALLED OUTDOORS.*
   2. *INSEPARABLE SOLID STATE LIGHTING (SSL) LUMINAIRES CONTAINING COLORED LIGHT SOURCES THAT ARE INSTALLED TO PROVIDE DECORATIVE LIGHTING.*
   3. *PIN-BASED LINEAR FLUORESCENT OR COMPACT FLUORESCENT LIGHT SOURCES USING ELECTRONIC BALLASTS.*
   4. *HIGH INTENSITY DISCHARGE (HID) LIGHT SOURCES INCLUDING PULSE START METAL HALIDE AND HIGH PRESSURE SODIUM LIGHT SOURCES.*
   5. *LUMINAIRES WITH HARDWIRED HIGH FREQUENCY GENERATOR AND INDUCTION LAMP.*
   6. *CEILING FAN LIGHT KITS SUBJECT TO FEDERAL APPLIANCE REGULATIONS.*

THE FOLLOWING LIGHT SOURCES ARE ONLY CONSIDERED TO BE HIGH EFFICACY IF THEY ARE CERTIFIED TO THE COMMISSION AS HIGH EFFICACY LIGHT SOURCES IN ACCORDANCE WITH REFERENCE JOINT APPENDIX JA8 AND MARKED AS REQUIRED BY JA8:
   1. *ALL LIGHT SOURCES INSTALLED IN CEILING RECESSED DOWNLIGHT LUMINAIRES. NOTE THAT CEILING RECESSED DOWNLIGHT LUMINAIRES SHALL NOT HAVE SCREW BASES REGARDLESS OF LAMP TYPE AS DESCRIBED IN SECTION 150.0(K)1C.*
   2. *ANY LIGHT SOURCE NOT OTHERWISE LISTED.*

B. **SCREW-BASED LUMINAIRES.** SCREW-BASED LUMINAIRES SHALL CONTAIN LAMPS THAT COMPLY WITH REFERENCE JOINT APPENDIX JA8.
C. **RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS.** LUMINAIRES RECESSED INTO CEILINGS SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS:
   1. SHALL NOT CONTAIN SCREW BASE LAMP SOCKETS; AND
   2. HAVE A LABEL THAT CERTIFIES THE LUMINAIRE IS AIRTIGHT WITH AIR LEAKAGE LESS THAN 2.0 CFM AT 75 PASCALS WHEN TESTED IN ACCORDANCE WITH ASTM E283. AN EXHAUST FAN HOUSING WITH INTEGRAL LIGHT SHALL NOT BE REQUIRED TO BE CERTIFIED AIRTIGHT; AND
   3. BE SEALED WITH A GASKET OR CAULK BETWEEN THE LUMINAIRE HOUSING AND CEILING, AND HAVE ALL AIR LEAK PATHS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SEALED WITH A GASKET OR CAULK, OR BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN AIRTIGHTNESS BETWEEN THE LUMINAIRE HOUSING AND CEILING; AND
   4. MEET THE CLEARANCE AND INSTALLATION REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE SECTION 410.116 FOR RECESSED LUMINAIRES.
   EXCEPT: *RECESSED LUMINAIRES MARKED FOR USE IN FIRE-RATED INSTALLATIONS EXTRUDED INTO CEILING SPACE AND RECESSED LUMINAIRES INSTALLED IN NONINSULATED CEILINGS.*

ENERGY NOTES CONTINUED

D. **LIGHT SOURCES IN ENCLOSED OR RECESSED LUMINAIRES.** LAMPS AND OTHER SEPARABLE LIGHT SOURCES THAT ARE NOT COMPLIANT WITH THE JA8 ELEVATED TEMPERATURE REQUIREMENTS, INCLUDING MARKING REQUIREMENTS, SHALL NOT BE INSTALLED IN ENCLOSED OR RECESSED LUMINAIRES.
E. **BLANK ELECTRICAL BOXES.** THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, LOW VOLTAGE WIRING OR FAN SPEED CONTROLS.

INDOOR LIGHTING CONTROLS *(2022 CEnC 150.0(k)2)*.

A. LIGHTING SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY TURNED ON AND OFF.
   A. ***EXCEPT:*** *CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL.*
B. NO CONTROLS SHALL BYPASS A DIMMER, OCCUPANT SENSOR OR VACANCY SENSOR FUNCTION WHERE THAT DIMMER OR SENSOR HAS BEEN INSTALLED TO COMPLY WITH SECTION 150.0(K).
C. LIGHTING CONTROLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
D. AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) OR A MULTISCENE PROGRAMMABLE CONTROL MAY BE USED TO COMPLY WITH DIMMING, OCCUPANCY AND LIGHTING CONTROL REQUIREMENTS IN SECTION 150.0(K)2 IF IT PROVIDES THE FUNCTIONALITY OF THE SPECIFIED CONTROLS IN ACCORDANCE WITH SECTION 110.9, AND THE PHYSICAL CONTROLS SPECIFIED IN SECTION 150.0(K)2A.
E. **AUTOMATIC-OFF CONTROLS.**
   1. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY.
   2. FOR LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS, CONTROLS THAT TURN THE LIGHT OFF WHEN THE DRAWER OR DOOR IS CLOSED SHALL BE PROVIDED.
F. **DIMMING CONTROLS.** LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE DIMMING CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY ADJUSTED UP AND DOWN. FORWARD PHASE CUT DIMMERS CONTROLLING LED LIGHT SOURCES IN THESE SPACES SHALL COMPLY WITH NEMA SSL 7A.
EXCEPT: *CEILING FANS MAY PROVIDE CONTROL OF INTEGRATED LIGHTING VIA A REMOTE CONTROL. LUMINAIRES CONNECTED TO A CIRCUIT WITH CONTROLLED LIGHTING POWER LESS THAN 20 WATTS OR CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. NAVIGATION LIGHTING SUCH AS NIGHT LIGHTS, STEP LIGHTS AND PATH LIGHTS LESS THAN 5 WATTS, AND LIGHTING INTERNAL TO DRAWERS AND CABINETRY WITH OPAQUE FRONTS OR DOORS OR WITH AUTOMATIC-OFF CONTROLS.*
G. **INDEPENDENT CONTROLS.** INTEGRATED LIGHTING OF EXHAUST FANS SHALL BE CONTROLLED INDEPENDENTLY FROM THE FANS. THE FOLLOWING SHALL BE CONTROLLED SEPARATELY FROM CEILING-INSTALLED LIGHTING SUCH THAT ONE CAN BE TURNED ON WITHOUT TURNING ON THE OTHER:
   1. UNDERCABINET LIGHTING, UNDERSHELF LIGHTING, INTERIOR LIGHTING OF DISPLAY CABINETS, AND SWITCHED OUTLETS.

RESIDENTIAL OUTDOOR LIGHTING *(2022 CEnC 150.0(K)3)*. IN ADDITION TO MEETING THE REQUIREMENTS OF SECTION 150.0(K)1A, LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:

A. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
   i. CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT BYPASSES THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; &
   ii. CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR
   iii. CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
   NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

1. ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION (2022 CEnC 110.7).
2. ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE (2022 CEnC 150.0(a)3)

ADDTIONAL NOTES PER AGING IN PLACE REQUIREMENTS:

1. ELECTRICAL RECEPTABLE OUTLET, SWITCH AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR *(PER CRC R327.1.2)*.
2. DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48" ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48" MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48" ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL *(PER CRC R327.1.4)*

ENERGY STORAGE READINESS

1. **ENERGY STORAGE SYSTEM (ESS) REQUIREMENTS:**
   - IN SINGLE-FAMILY RESIDENTIAL BUILDINGS THAT INCLUDE ONE OR TWO DWELLINGS, EACH DWELLING UNIT SHALL BE PROVIDED WITH DEDICATED RACEWAYS, DESIGNATED BRANCH CIRCUITS AND ISOLATION DEVICES FOR ENERGY STORAGE SYSTEMS AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). ADDITIONALLY, THE PANELBOARDS SHALL BE PROVIDED WITH THE MINIMUM BUSBAR RATING AS SPECIFIED IN CALIFORNIA ENERGY CODE SECTION 150.0(S). (2022 CEC SECTION 706.10)

CALIFORNIA ENERGY CODE SECTION 150.0(S)

1. AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
   A. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR
   B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN 1 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKEDUP LOAD CIRCUITS."
2. A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
3. THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS.
4. SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.

PLUMBING NOTES

1. CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
2. PIPING:
   DOMESTIC WATER (WITHIN BUILDING): COPPER OR PEX PIPE OR APPROVED EQUAL.
3. AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO EACH FIXTURE.
4. DIELECTRIC UNIONS "F.P.C.O." REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS.
5. WHEN "OPTIONAL" SOFT-WATER LOOP INTALLED, PROVIDE WITH 2 GATE VALVES.
6. WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE JURISDICTION.
7. WATER METER: PER WATER DISTRICT (REFER SIZE W/ FIRE SPRINKLER PLANS IF APPLICABLE)
8. SHOWER HEADS AND FAUCETS: FLOW RATES PER 2022 *CGBSC SECTION 4.303.*
9. **WATER HEATER** (REFER TO BUILDING ENERGY ANALYSIS REPORT):
   A. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED. *(2022 CPC 609.12.1)*
      1. PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF PIPE. *(2022 CPC 609.12.2)*
      2. PIPES GREATER THAN 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN 2 INCHES. *(2022 CPC 609.12.2)*

      EXCEPTIONS:
      1. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. *(2022 CPC 609.12.2)*
      2. HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED. *(2022 CPC 609.12.2)*

   B. PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2' MAX. ABOVE GRADE POINTING DOWNWARD TO THE TERMINATION - UNTHREADED.
   C. COMBUSTION AIR PER MANUFACTURE REQUIREMENTS.
   D. CLEARANCES PER MANUFACTURE REQUIREMENTS.
10. **PLUMBING INSULATION** PER 2022 CENC 150.0 (J) AND CBC 609.11
    A. DOMESTIC HOT WATER PIPING SHALL BE INSULATED.
    B. 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 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 MM) FOR A PIPE

ABBREVIATIONS

A/C	AIR CONDITIONING
ABV	ABOVE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
BD	BOARD
BDRM	BEDROOM
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDNG
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BUR	BUILT UP ROOF
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CFM	CUBIC FEET PER MINUTE
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER, DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	
ELEC	ELECTRIC
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FAU	FORCED AIR UNIT
FAWP	FLUID APPLIED WATERPROOFING
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLOURESCENT
FND	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED PANELS
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE, GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GWB	GYPSUM BOARD
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATION, A/C
ID	INSIDE DIAMETER
IIC	IMPACT INSULATION CLASS
IN	INCH
INCAND	INCANDESCENT
INSUL	INSULATION, INSULATED
INT	INTERIOR
JC	JANITORS CLOSET
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LF	LINEAR FEET
LIN	LINEN CLOSET
LINO	LINOLEUM
LT(G)	LIGHT(ING)
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
LW	LIGHTWEIGHT
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O.P.	OVERFLOW PIPE
OC	ON CENTER
OD	OVERFLOW DRAIN
OFF	OFFICE
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
(P)	PROPOSED
PERM	PERIMETER
PERP	PERPENDICULAR
PG	PAINT, GRADE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRTN	PARTITION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTD	PAINTED
PV	PHOTO VOLTAIC
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R	RADIUS, RISER
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT (MECH)
S	SOUTH
SAFB	SOUND ATTENUATION FIBER BATT
SAWP	SELF ADHEREING WATERPROOFING
SC	SCUPPER/SOLID CORE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SM	SHEET METAL
SPEC	SPECIFICATION
SQ	SQURE
SS	SOLID SURFACE
SSTL	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUPSPENDED
SV	SHEET VINYL
SYM	SYMMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPERED
TER	TERRAZZO
THK	THICK
THR	THRESHOLD
TJI	TRUSS JOIST I-JOIST
TO	TOP OF
TOS	TOP OF SLAB
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL
UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
UG	UNDERGROUND
UNFIN	UNFINISHED
UNO	ULNESS NOTED OTHERWISE
UV	UTRAVIOLET
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VTR	VENT TERMINATION PIPE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/D	WASHER DRYER
W/O	WITHOUT
WC	WATERCLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WI	WROUGHT IRON
WIN	WINDOW
WP	WATERPROOF(ING)
WR	WEATHER RESISTIVE
WRB	WATER RESISTIVE BARRIER
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

FOR USE IN THE CITY OF WALNUT CREEK

VIEW NUMBER
VIEW TITLE
20 View Name
A-101 | A-202 SCALE: 1/8" = 1'-0"
VIEW SHEET LOCATION
REFERENCE SHEET LOCATION

LEVEL DESIGNATION
Name
0' - 0"
LEVEL ELEVATION
BUILDING LEVELS

NORTH ARROW

0
GRID REFERENCE

DOOR

101
DOOR TAG

1 A101 SIM
BUILDING ELEVATION

1 A101 SIM
SECTION REFERENCE

01
WINDOW TAG

1 A101 SIM
DETAIL REFERENCE

1
REVISION TAG

CENTERLINE

CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

WALNUT CREEK ADU
CITY OF WALNUT CREEK
SHEET INDEX, ABBREVIATIONS & SYMBOLS

DATE
02/10/2023

SHEET
G-102

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES (SHEET 1)

CHAPTER 1 - ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE.
THESE REGULATIONS SHALL BE KNOWN AS THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE." IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE CALGREEN CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE IS PART 11 OF THIRTEEN PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REPEAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

101.2 PURPOSE.
THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:

1. PLANNING AND DESIGN.
2. ENERGY EFFICIENCY.
3. WATER EFFICIENCY AND CONSERVATION.
4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY.
5. ENVIRONMENTAL QUALITY.

101.3 SCOPE.
THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE, THROUGHOUT THE STATE OF CALIFORNIA.

IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM.

SECTION 102 CONSTRUCTION DOCUMENTS AND INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS.
CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT. WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS.
CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE CALIFORNIA BUILDING STANDARDS CODE AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION.
DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

CHAPTER 3 - GREEN BUILDING

SECTION 301 GENERAL

301.1 SCOPE.
BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.

301.1.1 ADDITIONS AND ALTERATIONS. [HCD] THE MANDATORY PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION.

THE MANDATORY PROVISIONS OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION.

NOTE: REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS [HCD].
THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS, HIGH-RISE RESIDENTIAL BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS WILL BE DESIGNATED BY BANNERS TO INDICATE WHERE THE SECTION APPLIES SPECIFICALLY TO LOW-RISE ONLY (LR) OR HIGH-RISE ONLY (HR). WHEN THE SECTION APPLIES TO BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS.
IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES APPLICABLE TO EACH SPECIFIC OCCUPANCY.

CHAPTER 4 - RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN

4.106 SITE DEVELOPMENT

4.106.1 GENERAL.
PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS. PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION
PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE.

1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE.
2. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.
3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.

4.106.3 GRADING AND PAVING
CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. EXAMPLES OF METHODS TO MANAGE SURFACE WATER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

1. SWALES
2. WATER COLLECTION AND DISPOSAL SYSTEMS
3. FRENCH DRAINS
4. WATER RETENTION GARDENS
5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE.
   EXCEPTIONS: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

4.106.4 ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION
NEW CONSTRUCTION SHALL COMPLY WITH SECTION 4.106.4.1, 4.106.4.2, OR 4.106.4.3, TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE *CALIFORNIA ELECTRICAL CODE*, ARTICLE 625.

EXCEPTIONS:

1. ON A CASE-BY-CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:
   1.1. WHERE THERE IS NO LOCAL UTILITY POWER SUPPLY OR THE LOCAL UTILITY IS UNABLE TO SUPPLY ADEQUATE POWER.
   1.2. WHERE THERE IS EVIDENCE SUITABLE TO THE LOCAL ENFORCING AGENCY SUBSTANTIATING THAT ADDITIONAL LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS, DIRECTLY RELATED TO THE IMPLEMENTATION OF SECTION 4.106.4, MAY ADVERSELY IMPACT THE CONSTRUCTION COST OF THE PROJECT.
2. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

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 ACCOMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMTER). 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 MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE.

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 LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

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 SECTIONS 4.106.4.2.1 AND 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 A FUTURE 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 MULTIFAMILY DEVELOPMENT PROJECTS WITH LESS THAN 20 DWELLING UNITS; AND HOTELS AND MOTELS WITH LESS THAN 20 SLEEPING UNITS OR GUEST ROOMS
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.

1. **EV CAPABLE.** TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES (EXCEPT THOSE SERVING EV CHARGING SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

   THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
   EXCEPTIONS:
   1. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER EQUAL TO OR GREATER THAN THE REQUIRED NUMBER OF EV CAPABLE SPACES.
   2. WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER LESS THAN THE REQUIRED NUMBER OF EV CAPABLE SPACES, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED.

   NOTES:
   a. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING.
   b. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.
2. **EV READY.** TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.
   EXCEPTION: AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.
3. **EV CHARGERS.** FIVE (5) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LEVEL 2 EVSE. WHERE COMMON USE PARKING IS PROVIDED, AT LEAST ONE EV CHARGER SHALL BE LOCATED IN THE COMMON USE PARKING AREA AND SHALL BE AVAILABLE FOR USE BY ALL RESIDENTS OR GUESTS.

   WHEN LOW POWER LEVEL 2 EV CHARGING RECEPTACLES OR LEVEL 2 EVSE 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 EVSE SHALL HAVE A CAPACITY OF NOT LESS THAN 30 AMPERES. ALMS SHALL NOT BE USED TO REDUCE THE MINIMUM REQUIRED ELECTRICAL CAPACITY TO THE REQUIRED EV CAPABLE SPACES.

4.106.4.2.2 MULTIFAMILY DEVELOPMENT PROJECTS WITH 20 OR MORE DWELLING UNITS, HOTELS AND MOTELS WITH 20 OR MORE SLEEPING UNITS OR GUEST ROOMS
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.

1. **EV CAPABLE.** TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S), HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

   THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
   EXCEPTION: WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER GREATER THAN FIVE (5) PERCENT OF PARKING SPACES REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED OVER THE FIVE (5) PERCENT REQUIRED.

   NOTES:
   CONSTRUCTION DOCUMENTS SHALL SHOW LOCATIONS OF FUTURE EV SPACES.
   THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.
2. **EV READY.** TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.

   EXCEPTION: AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.
3. **EV CHARGERS.** FIVE (5) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LEVEL 2 EVSE. WHERE COMMON USE PARKING IS PROVIDED, AT LEAST ONE EV CHARGER SHALL BE LOCATED IN THE COMMON USE PARKING AREA AND SHALL BE AVAILABLE FOR USE BY ALL RESIDENTS OR GUESTS.

   WHEN LOW POWER LEVEL 2 EV CHARGING RECEPTACLES OR LEVEL 2 EVSE 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 EVSE SHALL HAVE A CAPACITY OF NOT LESS THAN 30 AMPERES. ALMS SHALL NOT BE USED TO REDUCE THE MINIMUM REQUIRED ELECTRICAL CAPACITY TO THE REQUIRED EV CAPABLE SPACES.

4.106.4.2.2.1 ELECTRIC VEHICLE CHARGING STATIONS (EVCS)
ELECTRIC VEHICLE CHARGING STATIONS REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, SHALL COMPLY WITH SECTION 4.106.4.2.2.1.

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 REQUIREMENTS.

4.106.4.2.2.1.1 LOCATION
EVCS SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS: THE CHARGING 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 SPACE.

THE CHARGING SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

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 AND SECTION 4.106.4.2.2.1.2, ITEM 3.

4.106.4.2.2.1.2 ELECTRIC VEHICLE CHARGING STATIONS (EVCS) DIMENSIONS
THE CHARGING SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET.
2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET.
3. ONE IN EVERY 25 CHARGING SPACES, BUT NOT LESS THAN ONE, SHALL ALSO HAVE AN 8-FOOT WIDE MINIMUM AISLE. A 5-FOOT WIDE MINIMUM AISLE SHALL BE PERMITTED PROVIDED THE MINIMUM WIDTH OF THE EV SPACE IS 12 FEET.
   a. SURFACE SLOPE FOR THIS EV SPACE AND THE AISLE SHALL NOT EXCEED 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL (2.083 PERCENT SLOPE) IN ANY DIRECTION.

4.106.4.2.2.1.3 ACCESSIBLE EV SPACES
IN ADDITION TO THE REQUIREMENTS IN SECTIONS 4.106.4.2.2.1.1 AND 4.106.4.2.2.1.2, ALL EVSE, WHEN 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 EV SPACE REQUIREMENTS

1. **SINGLE EV SPACE REQUIRED.** INSTALL A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR ENCLOSURE IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE. CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT, RECEPTACLE OR CHARGER LOCATION, AS APPLICABLE, THE SERVICE PANEL AND/ OR SUBPANEL SHALL HAVE A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT, INCLUDING BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE INSTALLED, OR SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

   EXCEPTION: A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE, AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
2. **MULTIPLE EV SPACES REQUIRED.** CONSTRUCTION DOCUMENTS SHALL INDICATE THE RACEWAY TERMINATION POINT AND THE LOCATION OF INSTALLED OR FUTURE EV SPACES, RECEPTACLES OR EV CHARGERS. CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMATION ON AMPERAGE OF INSTALLED OR FUTURE RECEPTACLES OR EVSE, RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL LOAD CALCULATIONS. PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BRANCH CIRCUIT. REQUIRED RACEWAYS AND RELATED COMPONENTS THAT ARE PLANNED TO BE INSTALLED UNDERGROUND, ENCLOSED, INACCESSIBLE OR IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT THE TIME OF ORIGINAL CONSTRUCTION.

   EXCEPTION: A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

4.106.4.2.4 IDENTIFICATION
THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

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 SUCCESSOR(S).

4.106.4.3 ELECTRIC VEHICLE CHARGING FOR ADDITIONS AND ALTERATIONS OF PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS
WHEN 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 ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE.

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.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE.
FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY STANDARDS.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS
PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

4.303.1.1 WATER CLOSETS
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILET.

NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS
THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

4.303.1.3 SHOWERHEADS
4.303.1.3.1 SINGLE SHOWERHEAD
SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER
WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

NOTE: A HAND HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

4.303.1.4 FAUCETS
4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS
THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS
THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.

4.303.1.4.3 METERING FAUCETS
METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE.

4.303.1.4.4 KITCHEN FAUCETS
THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES (SHEET 2)

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:

1. DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
2. 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.
3. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
4. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
5. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30–60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
6. INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
7. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION
8. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
9. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
10. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
11. INFORMATION FROM CAL FIRE ON MAINTENANCE OF DEFENSIBLE SPACE AROUND RESIDENTIAL STRUCTURES.
12. 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 IS 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 MEEL 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.

DIVISION 4.5 ENVIROMENTAL QUALITY

4.501 GENERAL

4.501.1 SCOPE

THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

4.503 FIREPLACES

4.503.1 GENERAL

ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED 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, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL

FINISH MATERIALS SHALL COMPLY WITH THIS SECTION.

4.504.2.1 ADHESIVES, SEALANTS AND CAULKS

ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY:

1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW.
2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

4.504.2.2 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF 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 LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

4.504.2.3 AEROSOL PAINTS AND COATINGS

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

4.504.2.4 VERIFICATION

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

1. MANUFACTURER'S PRODUCT SPECIFICATION.
2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

4.504.3 CARPET SYSTEMS

4.504.3.1 CARPET CUSHION

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA 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 CALIFORNIA SPECIFICATION 01350).

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.

4.504.4 RESILIENT FLOORING SYSTEMS

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA 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 CALIFORNIA SPECIFICATION 01350).

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 COMPOSITE WOOD PRODUCTS

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.) AS SHOWN IN TABLE 4.504.5.

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:

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
2. CHAIN OF CUSTODY CERTIFICATIONS.
3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
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, AND CANADIAN CSA O121, CSA O151, CSA O153 AND CSA O325 STANDARDS.
5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

TABLE 4.504.1 - ADHESIVE VOC LIMIT
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOORING ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	**CURRENT VOC LIMIT**
PVC WELDING	510
CPVC WELDING	490
ABD WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP AND TRIM ADHESIVES	250
SUBSTRATE SPECIFIC APPLICATIONS	**CURRENT VOC LIMIT**
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. 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.

TABLE 4.504.2 - SEALANT VOC LIMIT
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	**CURRENT VOC LIMIT**
ARCHITECTURAL NONPOROUS	250
POROUS	250
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2, 3]
(GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS)

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	**CURRENT VOC LIMIT**
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
IDUSTRIAL 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, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
2. THE SPECIFIED LIMITS REMAIN IN EFFECT ENLESS 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, FEBUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS[1]
(MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

DIVISION 4.5 ENVIORNMENTAL QUALITY CONTINUED

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 THE 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-THICK (101.6 MM) BASE OF 1/2 INCH (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER 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 A BUILDING

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 TO BE 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 INDOOR AIR QUALITY AND EXHAUST

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 OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. 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 ENVIROMENTAL COMFORT

4.507.1 RESERVED

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—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
2. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (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—2016 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEMS FUNCTION ARE ACCEPTABLE.

CHAPTER 7 - INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND 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:

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.

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:

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.

NOTES:

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 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.

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

WALNUT CREEK ADU
CITY OF WALNUT CREEK

CAL GREEN RESIDENTIAL REQUIREMENTS

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02/10/2023

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SITE PLAN TO BE PROVIDED BY APPLICANT

FOR USE IN THE CITY OF WALNUT CREEK

SITE PLAN LEGEND

- PROPERTY LINE
- SETBACK
- EASEMENTS
- (E) FENCE
- (E) WALLS/ RETAINING WALLS

SITE PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION
3. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY PER 2022 CRC, SECTION 310.1.
4. NOT LESS THAN 30" OF CLEARANCE IN WIDTH, DEPTH, & HEIGHT SHALL BE PROVIDED TO ACCESS EXTERIOR MECHANICAL EQUIPMENT. SHOW LOCATION ON SITE PLAN & LABEL (2022 CMC SECTION 304.1 & 2022 CPC 504.3).

SITE PLAN CHECKLIST

IS (N) ADU 5' - 0" OR LESS TO ANY PROPERTY LINE AND/OR IS (N) ADU 10' - 0" OR LESS FROM ANY ADJACENT BUILDING OR STRUCTURE:

☐ **NO** ☐ **YES;** IF YES, FIRE RATED WALL & ROOF REQUIRED PER 2022 CBC, CHAPTER 2. FIRE RATED WALL DETAIL: **52/A-901**

IF YES, ***FIREBLOCKING** IS REQUIRED IN PROJECTIONS, RAKES AND EAVES. SEE DETAILS: **24/A-903 31/A-912, 32/A-912, 31/A-922, 32/A-922, 31/A-932, 32/A-932**

***NOTE:** WHERE 1-HR FIRE-RESISTANCE RATED PROJECTIONS REQUIRED (NON-SPRINKLERED & FIRE SEPARATION DISTANCE ≥2'-0" - <5'-0") **TABLE 302.1(1) A.** THE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE OVERHANG IF FIREBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATHING

ELECTRICAL PANEL:

☐ **OPTION 1 -** NEW ELECTRICAL MAIN PANEL OF 200 AMP WITH 225 AMP MINIMUM BUSBAR RATING

☐ **OPTION 2 -** A NEW ELECTRICAL SUBPANEL CONNECTS TO THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME WITH A 225 AMP MINIMUM BUSBAR RATING. A SEPARATE ELECTRICAL PERMIT SHALL BE PULLED FOR THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME, ELECTRICAL LOAD CALCULATIONS IS REQUIRED.

☐ **FOOTPRINT OF ALL EXISTING AND PROPOSED BUILDINGS**
PLOT THE PROPOSED ADU BUILDING FOOTPRINT ALONG WITH ANY OTHER EXISTING BUILDINGS ONSITE. THIS INCLUDES ALL STRUCUTRES / PORCHES / GAZEBOS. IF AN OPTIONAL COVERED PATIO IS SELECTED, PLEASE PLOT THAT AS WELL.

☐ **AREA OF EXISTING BUILDING**
INDICATE THE SQUARE FOOTAGE OF THE EXISTING HOUSE.

☐ **DRAWING SCALE**
SITE PLAN SHOULD BE DRAWN TO A MEASURABLE SCALE.

☐ **PROPERTY LINES**
SHOW OUTLINE OF PROPERTY USING DASHED LINE IN LEGEND. INDICATE THE BEARING AND DISTANCE OF THE PROPERTY LINE.

☐ **LABEL YARDS**
LABEL FRONT, REAR, SIDE YARDS, AS WELL AS DRIVEWAYS, PATHWAYS AND ANY OTHER HARDSCAPE.

☐ **SETBACKS**
DIMENSION THE DISTANCE BETWEEN BUILDINGS AND PROPOERTY LINES, AS WELL AS BUILIDNGS TO OTHER STRUCTURES. SETBACKS TO SIDE AND REAR PROPERTY SIDE SHALL BE A MINIMUM OF (4' - 0").

☐ **EASEMENTS**
REFER TO LEGEND. MUST INCLUDE ALL APPLICABLE EASEMENTS. PROPOSED STRUCTURE SHALL COMPLY WITH EASEMENT REQUIREMENTS.

☐ **LOCATION OF RAIN WATER LEADERS**
THE ROOF DRAINS SHOULD DRAIN AWAY FROM THE PROPERTY LINES AND INTO THE LANDSCAPE AREA.

☐ **LABEL STREETS & SIDEWALKS**

☐ **DIMENSION BUILDING SEPARATION**
DIMENSION THE DISTANCE BETWEEN THE PROPOSED ADU AND ANY EXISTING STRUCTURES

☐ **LOT COVERAGE CALCULATION**
TOTAL FOOTPRINT AREA FOR STRUCTURES ON SITE / LOT AREA

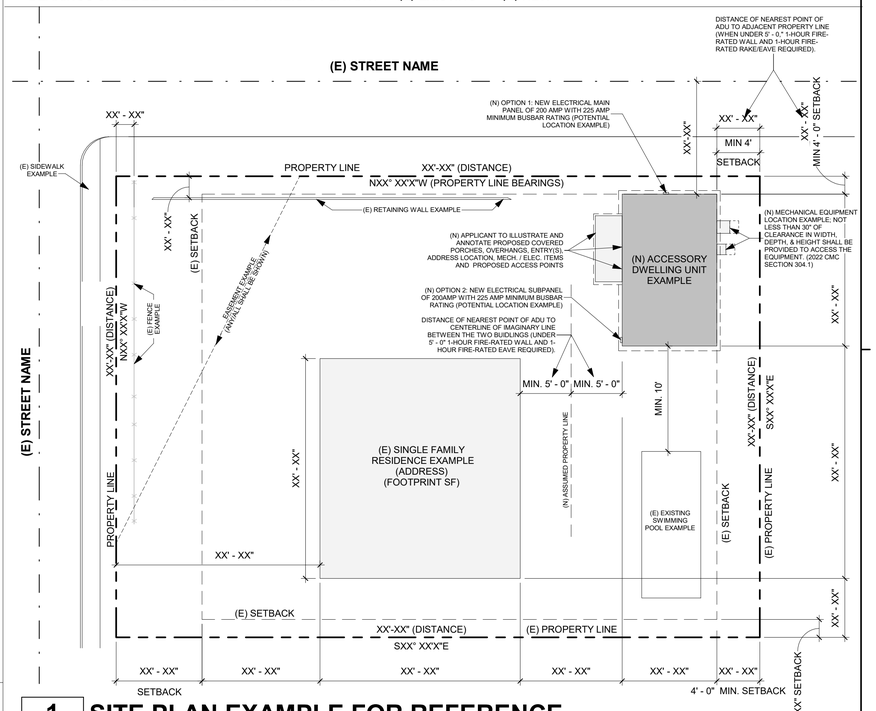
☐ **SWIMMING POOLS**
ALL EXISTING SWIMMING POOLS SHALL BE SHOWN ON THE SITE PLAN AND SHALL HAVE 10' MINIMUM SETBACK TO THE NEW ADU STRUCTURE.

☐ **PORCHES**
THERE SHALL BE NO MORE THAN 30 INCHES MEASURED VERITCALLY TO THE FLOOR OR GRADE BELOW (INCLUDING FLOORS, STAIRS, RAMPS, AND LANDINGS) ANYWHERE MEASURED LESS THAN 36 INCHES HORIZONTALLY TO THE EDGE OF THE PORCH/SLAB/SURFACE OF THE RAIL. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD.

☐ **LOCATION OF EXISTING UTILITIES**
UTILITIES, POLES, SEWER, DRAINS, ELECTRICAL, GAS METERS AND LINES AND ANY PHOTOVOLTATIC.

☐ **LOCATION OF PROPOSED UTILITIES**
PROPOSED UTILITIES SHALL CONFORM TO REQUIREMENTS OF CONTRA COSTA COUNTY SANITARY DISTRICT. SANITARY SEWER FROM ADU TO EXISTING SEWER. SEWER LINE TO THE PROPOSED ADU SHALL BE CONNECTED TO THE MAIN LATERAL AT THE PROPERTY LINE OR BEHIND THE SIDEWALK. LATERAL POINT OF CONNECTION INCLUDING REQUIRED CLEANOUTS, WATER LINE TO ADU, ELECTRIC TO ADU INCLUDING ANY NEW METERS OR SUBPANELS.

NOTE: THIS IS AN EXAMPLE SITE PLAN. EXACT LAYOUT, DIMENSIONS, AND BEARINGS SHALL BE PROVIDED BY OWNER/APPLICANT. (E) EXISTING (N) NEW



1 SITE PLAN EXAMPLE FOR REFERENCE
AS102 SCALE: 1" = 20'-0"

CITY OF WALNUT CREEK

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SITE PLAN SCALE: NORTH ARROW

WALNUT CREEK ADU
CITY OF WALNUT CREEK
ARCHITECTURAL SITE PLAN (EXAMPLE & INSTRUCTIONS)

DATE
02/10/2023

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CALIFORNIA RANCH



COTTAGE

MODERN

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

RENDERINGS

DATE

02/10/2023

SHEET

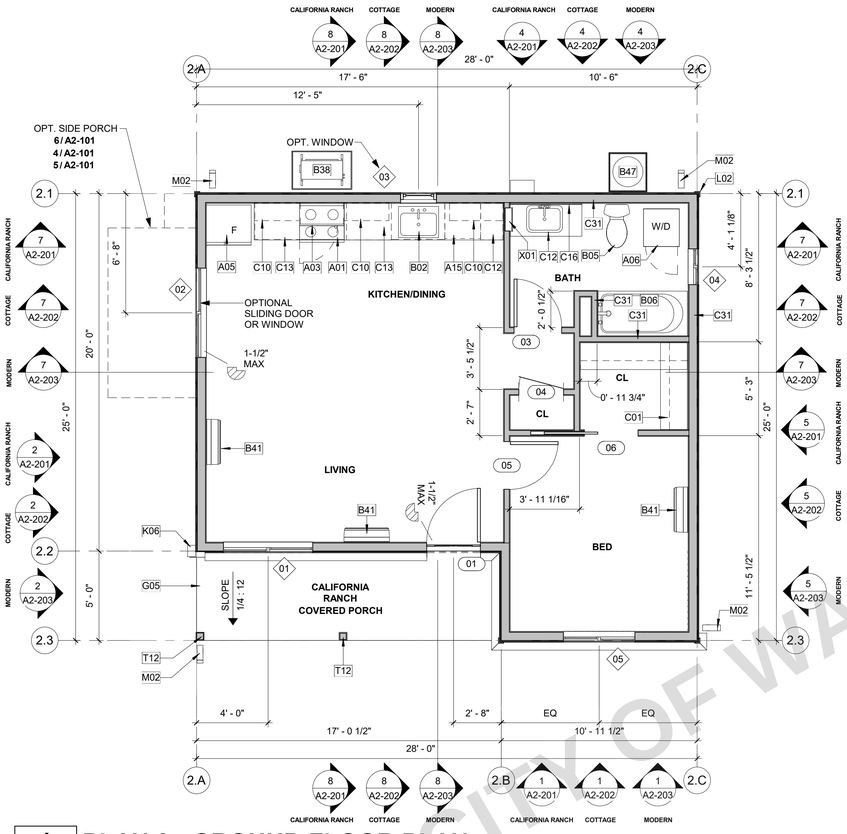
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PLUMBING NOTES

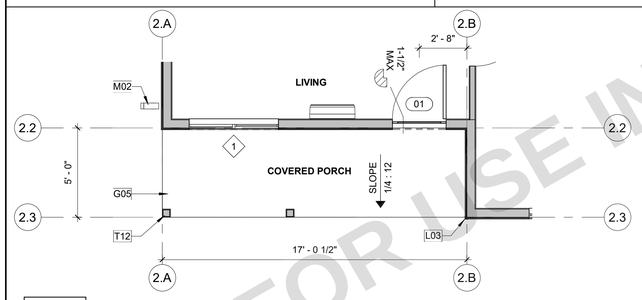
1. **WATER HEATER** (REFER TO BUILDING ENERGY ANALYSIS REPORT):
   - A. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED. *(2022 CPC 609.12.1)*
   - PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF PIPE. *(2022 CPC 609.12.2)*
   - PIPES GREATER THAN 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN 2 INCHES. *(2022 CPC 609.12.2)*

     EXCEPTIONS:
     1. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. *(2022 CPC 609.12.2)*
     2. HOT WATER PIPING BETWEEN THE FIXTURE CONTROL VALVE OR SUPPLY STOP AND THE FIXTURE OR APPLIANCE SHALL NOT BE REQUIRED TO BE INSULATED. *(2022 CPC 609.12.2)*
   - B. PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2' MAX. ABOVE GRADE POINTING DOWNWARD TO THE TERMINATION - UNTHREADED.
   - C. COMBUSTION AIR PER MANUFACTURE REQUIREMENTS.
   - D. CLEARANCES PER MANUFACTURE REQUIREMENTS.



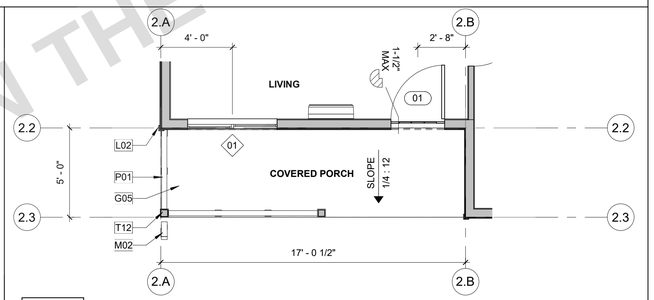
1 PLAN 2 - GROUND FLOOR PLAN

A1-201 | A2-101 SCALE: 1/4" = 1'-0"



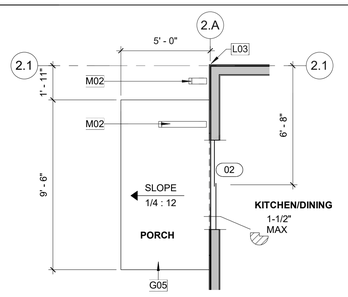
3 PLAN 2 - MODERN PORCH

A1-201 | A2-101 SCALE: 1/4" = 1'-0"



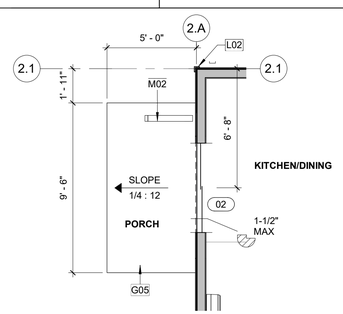
2 PLAN 2 - COTTAGE PORCH

A1-201 | A2-101 SCALE: 1/4" = 1'-0"



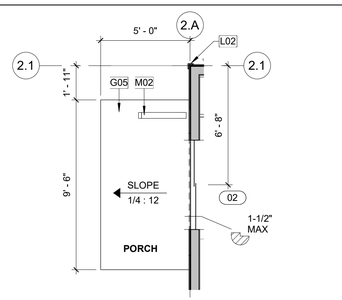
5 MODERN - OPTIONAL SIDE PORCH

A1-201 | A2-101 SCALE: 1/4" = 1'-0"



6 COTTAGE - OPTIONAL SIDE PORCH

A1-201 | A2-101 SCALE: 1/4" = 1'-0"



4 CALIFORNIA RANCH OPTIONAL SIDE PORCH

A1-201 | A2-101 SCALE: 1/4" = 1'-0"

KEYNOTES

A01	30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR, STAINLESS STEEL.
A03	30" WIDE BUILT-IN MICROWAVE WITH RANGE VENT, STAINLESS STEEL.
A05	REFRIGERATOR LOCATION. PROVIDE 42" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL).
A06	STACKED WASHER/DRYER MACHINE LOCATION. PROVIDE WASTE AND WATER IN RECESSED WALL BOX. PROVIDE DRYER VENT. VENT TO OUTSIDE AIR.
A15	WASHING MACHINE LOCATION. PROVIDE WASTE AND WATER IN RECESSED WALL BOX.
B02	20" SINGLE COMPARTMENT UNDER-MOUNT KITCHEN SINK W/ GARBAGE DISPOSAL. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEET.
B05	WATER CLOSET. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS. WATER CLOSET SHALL NOT BE SET CLOSER THAN 15" FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION PER CPC, SECTION 402.5.
B06	32" x 60" x 72" TUB AND SHOWER COMBINATION. MODEL BY BUILDER. PROVIDE SHOWER ROD.
B38	MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. PROVIDE PROTECTION PER CPC 507.25 & CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFO. SEE DETAIL 53/A-902.
B41	FAN COIL @ 80" A.F.F. TO BOTTOM OF UNIT. PROVIDE DEDICATED WALL OUTLET, INSTALL PER MANUFACTERER'S SPECIFICATIONS. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
B47	40 GALLON HEAT PUMP WATER HEATER. PROVIDE ENCLOSURE IN COMPLIANCE WITH CPC 507.25. PROVIDE CONCRETE PAD 3" MIN. ABOVE GRADE. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. SEE DETAIL 22/A-901. PROVIDE PROTECTION PER CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFORMATION. SEE DETAIL 53/A-902.
C01	SINGLE WOOD SHELF AND POLE.
C10	24" DEEP UPPER CABINET.
C12	34 1/2" HIGH BASE CABINET AND COUNTERTOP.
C13	30" HIGH BASE CABINET AND COUNTERTOP.
C16	MIRROR. THE LENGTH OF THE VANITY OR PEDESTAL X 80" AFS. UNO. VERIFY WITH THE ELECTRICAL PLAN FOR LOCATION OF OUTLETS WHICH REQUIRE A CUT-OUT., PROVIDE 2X6 BACKING AT BATHROOM WALL ATTACHEMENTS
C31	PROVIDE REINFORCEMENT FOR GRAB BARS PER CRC R327.1.1; SEE DETAILS 43/A-901 & 44/901; SEE GENERAL NOTES FOR MORE INFORMATION
G05	CONCRETE STOOP. SLOPE 1/4"/FT AWAY FROM THE BUILDING. MUST BE AT LEAST AS WIDE AS DOOR AND 3' DEEP.
K06	BRICK VENEER WITH WAINSCOT, SEE SHEET A-913 FOR DETAILS AND SEE MATERIALS LEGEND FOR MORE INFORMATION.
L02	CORNER TRIM; SEE DETAILS FOR MORE INFORMATION.
L03	TRIM, SEE DETAILS FOR MORE INFORMATION.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.
P01	DECORATIVE PORCH RAILING, HEIGHT OF 24" MIN. TO 48" MAX. REQUIRED FOR WOOD: PRIMER & 2 COATS OF EXTERIOR GRADE PAINT. REQUIRED: 30 INCHES MAX VERTICAL DROP IS PROHIBITED WITHIN 36 INCHES (HORIZONTALLY) OF THE PORCH, SEE DETAIL FOR MORE INFORMATION.
T12	WOOD POST, SEE STRUCTURAL - REQUIRED: PRIMER & 2 COATS OF EXTERIOR GRADE PAINT.
X01	OPTIONAL MEDICINE CABINET.

WINDOW GENERAL NOTES

1. REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
2. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS.
3. REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
4. ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED.
5. EGRESS WINDOWS SHALL HAVE A CLEAR OPENING WITH THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44" AFF, MIN. NET CLEAR OPENING FOR EMERGENCY ESCAPE SHALL BE 5.7 S.F. EXCEPT: 5 S.F. MIN. AT GROUND FLOOR. MINIMUM NET CLEAR OPENING DIMENSIONS: HEIGHT: 24", WIDTH: 20". **[CRC SEC. R310.2]** EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY PER CRC 2022, SECTION 310.1.
6. GLAZING IN WALLS ADJACENT TO BATHTUB / SHOWER WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE SAFETY GLAZING. **[CRC SEC. R308.4.5]**

WINDOW REMARKS

1. REQUIRED EGRESS WINDOW. REFER TO GENERAL NOTE #5 FOR ADDITIONAL INFORMATION.
2. WINDOW INCLUDES BOTH PANES TEMPERED GLAZING.
3. U-FACTOR =(.3) , SHGC = (.23). BUG SCREEN REQUIRED. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
4. OPTIONAL WINDOW.
5. OBSCURE.

WINDOW SCHEDULE

NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	REMARKS
01	B	5' - 0"	4' - 0"	6' - 8"	
02	B	5' - 0"	4' - 0"	6' - 8"	5
03	M	2' - 0"	3' - 0"	6' - 8"	
04	B	2' - 0"	2' - 0"	6' - 8"	2
05	B	4' - 0"	4' - 0"	6' - 8"	1

WINDOW DETAIL REFERENCES		
HEAD	JAMB	SILL
CALIFORNIA RANCH	11 / A-911	
COTTAGE	11 / A-921	
MODERN	11 / A-931	
FLASHING	32 / A-901	33 / A-901 34 / A-901

WINDOW LEGEND



A. SINGLE HUNG. **B.** SLIDER.

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
3. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
4. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
5. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
6. DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
8. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS.
9. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO ROUGH DOOR OPENING.
10. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED.
11. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.
12. PER CRC R311.3 FLOORS OR LANDINGS AT EXTERIOR DOORS SHALL BE AT LEAST AS WIDE AS DOOR SERVED AND SHALL PROVIDE A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 INCHES MINIMUM. SLOPE OF EXTERIOR LANDINGS SHALL NOT EXCEED 1/4" PER FOOT (2% SLOPE).
13. PER CRC 327.1.1 REINFORCEMENT FOR GRAB BARS SHALL BE PROVIDED IN AT LEAST ONE BATHROOM. 1. REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY. 2. REINFORCEMENT SHALL NOT BE LESS THAN 2X8 INCH NOMINAL LUMBER OR OTHER MATERIAL PROVIDING EQ. HT. AND CAPACITY. REINFORCEMENT ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING. 3. WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL. 4. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. 5. BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM. REFER TO DETAILS 43/A-901 AND 44/A-901
14. BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR PER 2022 CRC, SECTION R307.2.

LEGEND

EXTERIOR- 5 1/2" WOOD STUD W/ PLYWOOD SHEATHING AND FINISH, SEE ELEVATION FOR FINISH. ONE LAYER GYPSUM WALL BOARD INTERIOR.

EXTERIOR - DOUBLE 5 1/2" WOOD STUD W/ SHEATHING AND EXTERIOR FINISH (REFER TO ELEVATIONS)

INTERIOR - 3 1/2" WOOD STUD W/ONE LAYER GYPSUM WALL BOARD EACH SIDE.

DOOR GENERAL NOTES

1. GLAZING IN DOORS SHALL BE TEMPERED PER ***SECTION R308.4.1***. PANES INDICATED IN DOOR LEGEND WITH (T).
2. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
3. REFER TO PLANS FOR LOCATION OF DOORS.
4. VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
6. FIRE RATED DOORS SHALL BE SOLID WOOD OR SOLID HONEYCOMB CORE STEEL DOOR 1-3/8" THICK OR COMPLIANT WITH ***CRC SECTION R302.5.1***. DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING WITH WEATHER STRIPPING TO BE TIGHT FITTING.

DOOR REMARKS

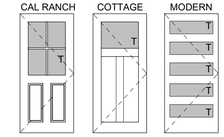
1. EXTERIOR DOOR.
2. GLAZING PER DOOR TYPES. REFER TO GENERAL DOOR NOTE #1
3. PROVIDE 100 SQ INCHES OF VENTING IN DOOR OR BY OTHER APPROVED MEANS.
4. OPTIONAL DOOR.
5. REQUIRED OPENING OF NOT LESS THAN 100 IN^2 FOR MAKEUP AIR SHALL BE PROVIDED IN THE DOOR OR BY APPROVED MEANS. **[CMC SEC. R504.4.1]**

DOOR SCHEDULE

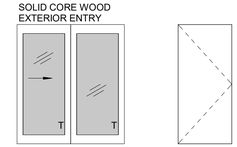
NO.	TYPE	DOOR WIDTH	DOOR HEIGHT	COMMENTS
01	A1	3' - 0"	6' - 8"	1, 2
02	D	5' - 0"	6' - 8"	1, 2
03	E	2' - 8"	6' - 8"	
04	E	2' - 6"	6' - 8"	
05	E	2' - 8"	6' - 8"	
06	F	3' - 0"	6' - 8"	

DOOR DETAIL REFERENCES	
HEAD	JAMB
CALIFORNIA RANCH	41 / A-911
COTTAGE	41 / A-921
MODERN	41 / A-931
THRESHOLD	11 / A-901 12 / A-901

DOOR LEGEND

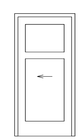


A1. SOLID CORE WOOD EXTERIOR ENTRY



D. SLIDING GLASS EXTERIOR.

E. HOLLOW CORE WOOD INTERIOR



F. HOLLOW CORE WOOD POCKET INTERIOR

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

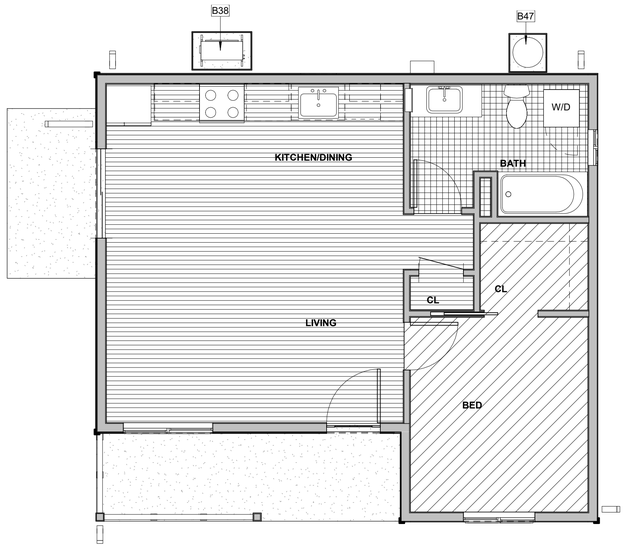
FLOOR PLAN 2

DATE
02/10/2023

SHEET
A2-101

FOR USE IN THE CITY OF WALNUT CREEK

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2 FINISH PLAN

A1-201 | A2-111 SCALE: 1/4" = 1'-0"

ELECTRICAL NOTES

1. CONFORM WITH CURRENT CEC, NFPA, MFR'S, AND LOCAL REQUIREMENTS.
2. ELECTRICAL SYSTEM GROUND TO BE PROVIDED PER NEC ARTICLE 250-81.
3. ALL MATERIALS TO BE U.L. LABELED.
4. METER IS NOT REQUIRED. IF IT IS PROVIDED FOR ADU, MAIN PANEL IS REQUIRED FOR ADU WITH MINIMUM OF 225 AMP BUS-BAR. IF MAIN PANEL IS NOT PROVIDED FOR ADU, ELECTRICAL PERMIT SHALL BE PULLED FOR THE PRIMARY RESIDENCE WITH ELECTRICAL LOAD CALCULATIONS. METER: "SQUARE D", 120 VOLT/ 240 VOLT, 1 AND 3 WIRE GROUND OR EQUAL.
5. IF PROVIDED, ELECTRICAL MAIN PANEL: FLUSH MOUNT, 30" CLEARANCE. 200 AMP WITH 225 AMP BUS-BAR.
6. CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
7. ALL LUMINARIES SHALL COMPLY WITH 2022 CENC SECTION 150.0 (K) AND TABLE 150.0-A AS REFERENCED IN ENERGY NOTES, LUMINAIRE REQUIREMENTS SHEET G-101.
8. ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, LAUNDRY AREAS, BASEMENTS, CRAWL SPACES, OUTDOORS, KITCHEN COUNTERS, AND AT WET BAR SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN COMPLIANCE WITH NEC Art. 210-8, CONSISTING OF 125 VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES.
9. ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. (2022 CEC 210.11(C))
10. THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL.
11. CEILING-SUSPENDED (PADDLE) FANS SHALL BE SUPPORTED INDEPENDENTLY OF AN OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH 2022 CEC 314.27(C) (2022 CEC 422.18).
12. ALL LUMINARIES, LAMPHOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 410.6).
13. ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. (2022 CEC 210-12(A)).
14. ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 5'6" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.10, AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMNETS AS PERMITTED IN CEC 408.4(D)(2)(A).
15. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.
16. BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 kHz.
17. SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTEED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS.
18. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARAMS SHALL BE INTERCONNECTEED.
19. EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING STANDARDS CODE SECTION 4.506. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS *(2022 CEnC 150.0(k)2G).*
20. IN ADDITION TO THE NUMBER OF BRANCH CIRCUITS REQUIRED BY OTHER PARTS OF THE CODE, TWO OR MORE 20-AMPERE SMALL-APPLIANCE BRANCH CIRCUITS SHALL BE PROVIDED FOR ALL RECEPTACLE OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA PER 2022 CEC, ARTICLE 210.11 (C)(1). THE CIRCUITS SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 210.52(B).
21. IN ADDITION TO THE NUMBER OF BRANCH CIRCUTS REQUIRED BY OTHER PARTS OF THE CODE, AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY 2022 CEC, ARTICLE 210.52 (F). THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS PER 2022 CEC, ARTICLE 201.11(C)(2).

FLOOR FINISH LEGEND

- LUXURY VINYL PLANK (LVP)
- CARPET (CPT)
- CERAMIC TILE (CT)
- CONCRETE (EC)

VENTILATION SUMMARIES

1) LOCAL EXHAUST VENTILATION

BATHROOM	OPTION A	OPTION B
BATHROOM FAN FLOW (cfm)	50 CFM	50 CFM
DUCT TYPE	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in)	4"	4"
MAX. ALLOWABLE DUCT LENGTH (ft)	70'	105'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 3 SONES.		

KITCHEN	OPTION A	OPTION B
KITCHEN FAN FLOW (cfm)	100 CFM	50 CFM
DUCT TYPE	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in)	5"	5"
MAX. ALLOWABLE DUCT LENGTH (ft)	35'	85'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 3 SONES.		

2) WHOLE BUILDING VENTILATION

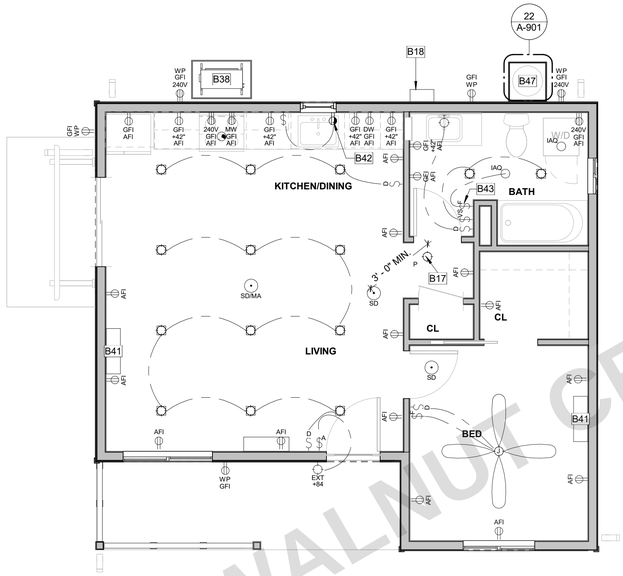
PER ASHRAE STANDARD 62.2, CEC EQUATION 150.0-B	OPTION A	OPTION B
BUILDING FAN FLOW (cfm)	50 CFM	50 CFM
DUCT TYPE	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in)	4"	4"
MAX. ALLOWABLE DUCT LENGTH (ft)	70'	105'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 1 SONE. THIS EXHAUST FAN IS REQUIRED TO OPERATE CONTINUOUSLY TO ENSURE CONTINUOUSLY TO ENSURE INDOOR AIR QUALITY.		

WHOLE DWELLING UNIT MECHANICAL VENTILATION

PER SECTION 150.0(O)(C)(i) [ASHRAE 62.2:4.1.2]

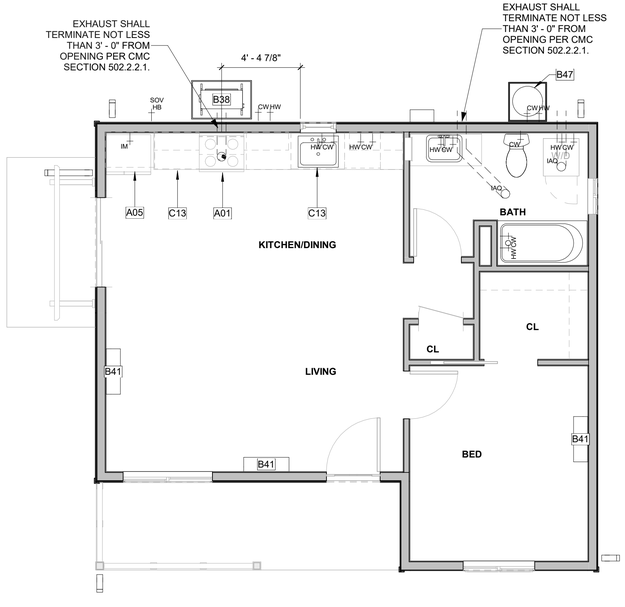
1 BED - MINIUM CUBIC FEET PER MINUTE (CFM) (Equation 150.0-B)

Qtot = 0.03Afloor + 7.5(Nbr + 1) **.03(614.5 sf) + 7.5 (2) = 33.44 CFM** < 50 CFM



1 ELECTRICAL PLAN

A1-201 | A2-111 SCALE: 1/4" = 1'-0"



3 MECHANICAL PLAN

A1-201 | A2-111 SCALE: 1/4" = 1'-0"

GENERAL MEP NOTES

1. REFER TO ELECTRICAL NOTES ON SHEET G-101.
2. REFER TO MECHANICAL NOTES ON SHEET G-101.
3. REFER TO PLUMBING NOTES ON SHEET G-101.
4. REFER TO TITLE 24 COMPLIANCE NOTES ON SHEET G-101.
5. EXTERNALLY MOUNTED HEATING/COOLING UNITS SHALL BE SCREENED IF THEY ARE VISIBLE FROM A PUBLIC STREET.
6. ENVIRONMENTAL AIR DUCT EXHAUST SHALL TERMINATE NOT LESS THAN 3 FT FROM WALL OPENINGS. ***CMC 502.2.2.1.***
7. *APPLIANCES NOT LISTED FOR OUTDOOR INSTALLATION BUT INSTALLED OUTDOORS SHALL BE PROVIDED WITH PROTECTION TO THE DEGREE THAT THE ENVIRONMENT REQUIRES. APPLIANCES LISTED FOR OUTDOOR INSTALLATION SHALL BE PERMITTED TO BE INSTALLED WITHOUT PROTECTION IN ACCORDANCE WITH THE PROVISIONS OF ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER* **CPC 507.25 PROTECTION OF OUTDOOR APPLIANCES.**
8. APPLIANCES INSTALLED IN GARAGES, WAREHOUSES, OR OTHER AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE AT LEAST 18" ABOVE THE FLOOR AND GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELEVATED OR LOCATED OUT OF THE NORMAL PATH OF VEHICLES PER **CMC 305.1.1 PHYSICAL DAMAGE.**
9. INSTALLED AIR CONDITIONER AND HEAT PUMP SYSTEMS SHALL HAVE A CLEARANCE OF AT LEAST FIVE (5) FEET FROM THE OUTLET OF ANY DRYER VENT. ***CENC2022 150.0 (H) 3.***
10. INSTALLED AIR CONDITIONER AND HEAT PUMP SYSTEMS SHALL BE EQUIPPED WITH LIQUID LINE DRIERS IF REQUIRED, AS SPECIFIC BY MANUFACTURER'S INSTRUCTIONS. ***CENC2022 150.0 (H) 3.*** **SEE DETAIL 53/A-902.**

KEYNOTES

A01	30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR, STAINLESS STEEL.
A05	REFRIGERATOR LOCATION. PROVIDE 42" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL).
B17	WHERE ATTIC ACCESS REQ. PROVIDE SWITCH AND OUTLET @ ATTIC ACCESS.
B18	ELECTRIC PANEL LOCATION. PROVIDE PROTECTION PER CPC 507.25 & CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFO.
B38	MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. PROVIDE PROTECTION PER CPC 507.25 & CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFO. SEE DETAIL 53/A-902.
B41	FAN COIL @ 80" A.F.F. TO BOTTOM OF UNIT, PROVIDE DEDICATED WALL OUTLET, INSTALL PER MANUFACTERER'S SPECIFICATIONS, REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION
B42	OUTLET FOR GARBAGE DISPOSAL UNIT.
B43	SWITCH FOR INDOOR AIR QUALITY FAN. PROVIDE LABEL "THIS SWITCH CONTROLS THE INDOOR AIR QUALITY VENTILATION FOR THE HOME. LEAVE IT ON UNLESS THE OUTDOOR AIR QUALITY IS VERY POOR."
B47	40 GALLON HEAT PUMP WATER HEATER. PROVIDE ENCLOSURE IN COMPLIANCE WITH CPC 507.25. PROVIDE CONCRETE PAD 3" MIN. ABOVE GRADE. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. SEE DETAIL 22/A-901. PROVIDE PROTECTION PER CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFORMATION. SEE DETAIL 53/A-902.
C13	30" HIGH BASE CABINET AND COUNTERTOP.

LEGEND

- ELECTRICAL SWITCH
- 3 ELECTRICAL SWITCH-THREE WAY
- 4 ELECTRICAL SWITCH-FOUR WAY
- VS ELECTRICAL SWITCH-VACANCY SENSOR
- D ELECTRICAL SWITCH-DIMMER
- F ELECTRICAL SWITCH-FAN
- A ASTRONOMICAL TIME SWITCH
- EXHAUST FAN
- IAQ INDOOR AIR QUALITY FAN
- P PENDANT LIGHT HIGH-EFFICACY
- SURFACE MOUNTED HIGH-EFFICACY LIGHT
- WALL MOUNTED HIGH-EFFICACY LIGHT
- +84 EXT EXTERIOR WALL MOUNTED HIGH-EFFICACY LIGHT W/ PHOTO SENSOR
- RECESSED HIGH- EFFICACY DOWNLIGHT
- OPT. OPTIONAL RECESSED HIGH- EFFICACY DOWNLIGHT
- VP RECESSED HIGH- EFFICACY DOWNLIGHT-VAPOR PROOF
- SD SMOKE DETECTOR/ALARM
- SD/MA COMBINATION SMOKE/CARBON MONOXIDE
- D DATA LOCATION
- T TELEPHONE LOCATION
- TV CABLE TELEVISION LOCATION
- J ELECTRICAL JUNCTION BOX

CEILING FAN OPTIONAL (PRE WIRE FOR CEILING FAN ONLY)

ELECTRICAL WIRING

- AFI DUPLEX OUTLET ARC-FAULT CIRCUIT INTERRUPTER
- GFI 240V DUPLEX OUTLET 240 VOLTS
- GFI DUPLEX OUTLET GROUND FAULT INTERRUPTER
- GFI WP DUPLEX OUTLET WATERPROOF GROUND FAULT INTERRUPTER
- DUPLEX OUTLET AFCI-HALF HOT
- GFI MW DUPLEX OUTLET MICROWAVE GROUND FAULT INTERRUPTER
- GFI DW DUPLEX OUTLET DISH WASHER GROUND FAULT INTERRUPTER
- H DUPLEX OUTLET RANGE HOOD
- CW COLD WATER STUB OUT
- HW HOT WATER STUB OUT
- HB WATER HOSE BIBB
- SOV HB WATER HOSE BIBB WITH SHUT OF VALVE
- IM ICE MACHINE STUB OUT
- FC FAN COIL UNIT +80" TO BOTTOM OF UNIT PROVIDE DEDICATED OUTLET

NOTE: IONIZATION SMOKE DETECTOR 10' MINIMUM FROM STOVE, ALL OTHERS 20'MIN CLEARANCE

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CITY OF WALNUT CREEK

WALNUT CREEK ADU

CITY OF WALNUT CREEK

FINISH, MECHANICAL, & ELECTRICAL PLANS

DATE

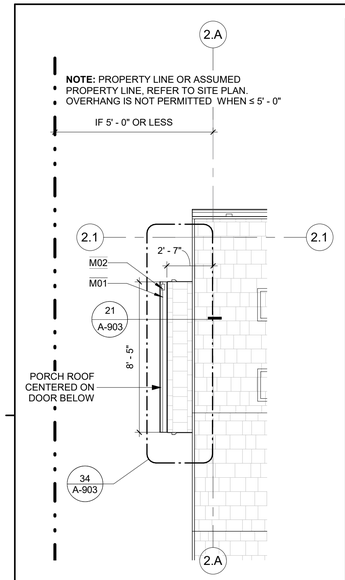
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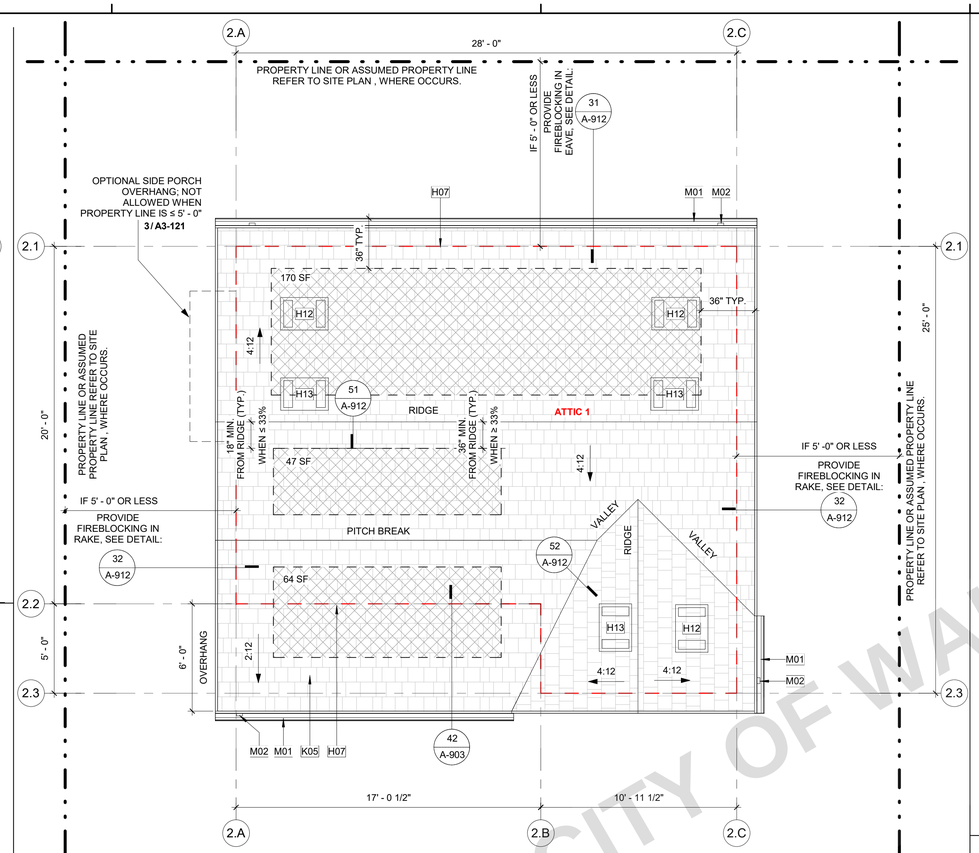
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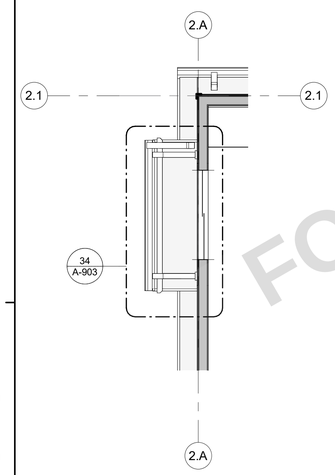
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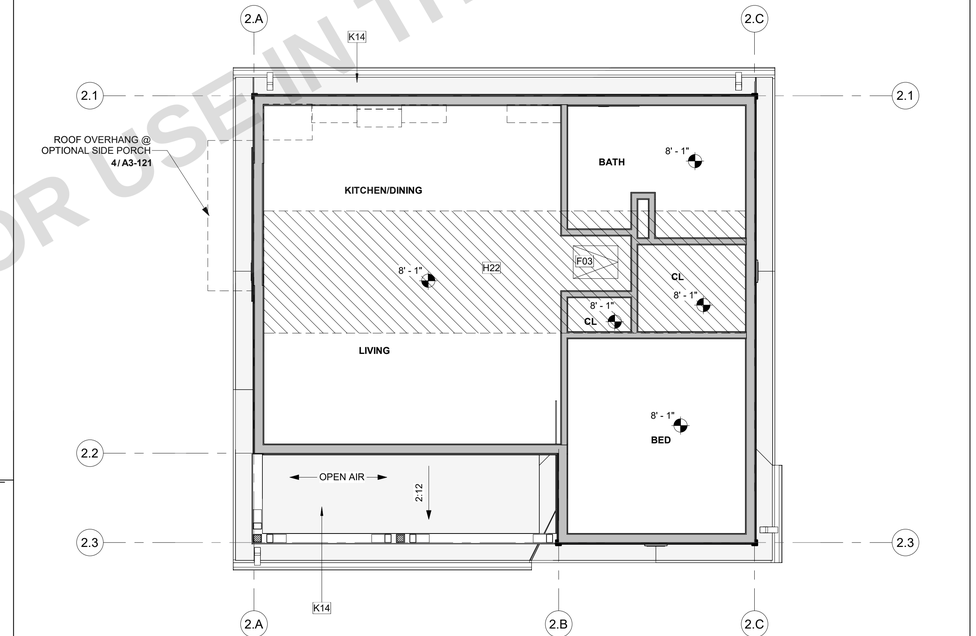
3 PLAN 2 - OPT. SIDE PORCH
A1-201 A2-121 SCALE: 1/4" = 1'-0"



1 PLAN 2 - CALIFORNIA RANCH - ROOF PLAN
A1-201 A2-121 SCALE: 1/4" = 1'-0"



4 PLAN 2 - OPT. SIDE PORCH
A1-201 A2-121 SCALE: 1/4" = 1'-0"



2 PLAN 2 - CALIFORNIA RANCH - REFLECTED CEILING PLAN
A1-201 A2-121 SCALE: 1/4" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

ROOF PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
3. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
4. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
5. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
7. ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH (***CRC R905***), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROOF COVERINGS SHALL BE INSTALLED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED IN R301.2.1(1), AND ADJUSTED FOR HEIGHT AND EXPOSURE IN ACCORDANCE WITH TABLE R301.2.1(2).
8. ROOF UNDERLAYMENTS SHALL BE IN ACCORDANCE WITH WITH SECTION R905.1.1, TABLE R905.1.1(2), AND TABLE R905.1.1(1).
9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.

   FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

   ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSION LARGER THAN 1/4 INCH (6.4 MM) SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR AND SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES AND OTHER SIMILAR CREATURES (***CRC R806).***
10. THE MINIMUM NET FREE VENTILATING AREA SHALL COMPLY WITH ***CRC R806.2.***
11. IN THE INSTANCE OF UPPER VENTS, VENTS SHALL BE LOCATED NO MORE THAN 3 FT BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. ***CRC R806.2.***

ROOF VENTING CALCULATIONS

VENTING:

UPPER & LOWER VENTS:

O'HAGIN TAPERED LOW PROFILE COMPOSITION SHINGLE
FINISH TO MATCH ROOF. SEE DETAIL: **41 / A-912** **41 / A-922**
72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC 1 - PLAN 2	704 SF	2.35 SF	1.17 SF	1.17 SF

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
ATTIC 1 - PLAN 2				
LOWER				
O'HAGIN SHINGLE ROOF VENT (LOWER)	3	2' - 8"	0.50 SF	1.50 SF
UPPER				
O'HAGIN SHINGLE ROOF VENT (UPPER)	3	2' - 8"	0.50 SF	1.50 SF
				3.00 SF

RCP GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS.
2. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR TO FINISH FACE OF GWB, U.N.O.
3. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
4. REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE AND EXHAUST LOCATIONS.
5. DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED.
6. SOFFITS ARE TO BE HELD TIGHT TO UNDERSIDE OF MECHANICAL EQUIPMENT.

KEYNOTES

F03	22" X 30" MINIMUM ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC. THERE IS NO HVAC EQUIPMENT (SUCH AS FURNACE, HEAT PUMP, OR FAU) IN THE ATTIC. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CEnC 150.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CEnC 150.0 (a)1."
H07	BUILDING LINE BELOW.
H12	ATTIC VENT (LOW); LOWER VENTILATORS SHALL BE LOCATED IN THE BOTTOM ONE-THIRD OF THE ATTIC SPACE PER R806.2 EXCEPTION 2. PROVIDE DAMPER TO PROVIDE 1" CLR. AIRSPACE WHERE REQ. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
H13	ATTIC VENT (HIGH); UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
H22	AREA OF ATTIC WITH AT LEAST 30" OF HEIGHT, SEE SECTION.
K05	COMPOSITE ROOF SHINGLES, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K14	EXTERIOR SOFFIT, SEE COVER PAGE FOR MATERIAL SELECTION, SEE DETAILS FOR MORE INFORMATION.
M01	GUTTER, CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4. SEE DETAIL 12/A-903.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.

X: SETBACK AT RIDGE TABLE

PV ARRAYS PERCENT OF THE PLAN VIEW TOTAL ROOF AREA	(X) HORIZONTAL RIDGE SETBACK
≤33%	18" BOTH SIDES OF RIDGE
>33%	36" BOTH SIDES OF RIDGE
≤66% + 13D SPRINKLER	18" BOTH SIDES OF RIDGE
>66% + 13D SPRINKLER	36" BOTH SIDES OF RIDGE

ROOF PLAN & RCP LEGEND

- XX'-X" — CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - GYPSUM BOARD CEILING
- EXTERIOR SOFFITS, RAKES, & EAVES; SEE TITLE SHEET FOR MATERIAL SELECTION AND CORRESPONDING DETAILS FOR MORE INFORMATION.
- STANDING SEAM METAL ROOF; SEE MATERIALS LEGEND ON ELEVATION SHEET FOR MORE INFORMATION.
- X : 12 — ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- X : 12 — CEILING SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- 22"X30" MIN. ATTIC ACCESS PANEL (WHERE REQ.)
- CONT. ATTIC VENTING OPTION A, MARK WITH "X" IF NOT USED. SEE ROOF VENTING CALCS.
- ATTIC ROOF VENT OPTION B, MARK WITH "X" IF NOT USED. SEE ROOF VENTING CALCS.
- OUTLINE OF WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT; SEE DETAIL: **12 / A-903**
- APPROXIMATE LOCATION OF DOWNSPOUT/LEADER TO ROOF OR SPLASHBLOCK BELOW; SEE DETAILS:
- XX SF — AVAILABLE SOLAR ZONE LOCATIONS; PV SYSTEM IS MANDATORY IF THE CONDITIONED AREA IS MORE THAN 652 SQUARE FEET, OTHERWISE IT'S OPTIONAL TO INSTALL A PV SYSTEM. WHEN PV SYSTEM IS INSTALLED, IT SHALL BE UNDER A SEPERATE PERMIT. SEE TITLE 24 REPORT FOR MORE INFORMATION
- AREA OF ATTIC WITH 30" HEIGHT OR GREATER. 22" X 30" CLEAR OPENING ACCESS REQUIRED IF TOTAL AREA GREATER THAN 30 SQ. FT. PER CRC R807.1

CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

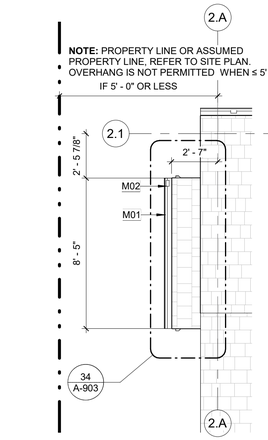
WALNUT CREEK ADU
CITY OF WALNUT CREEK

ROOF PLAN & REFLECTED CEILING PLAN - CAL RANCH

DATE
02/10/2023

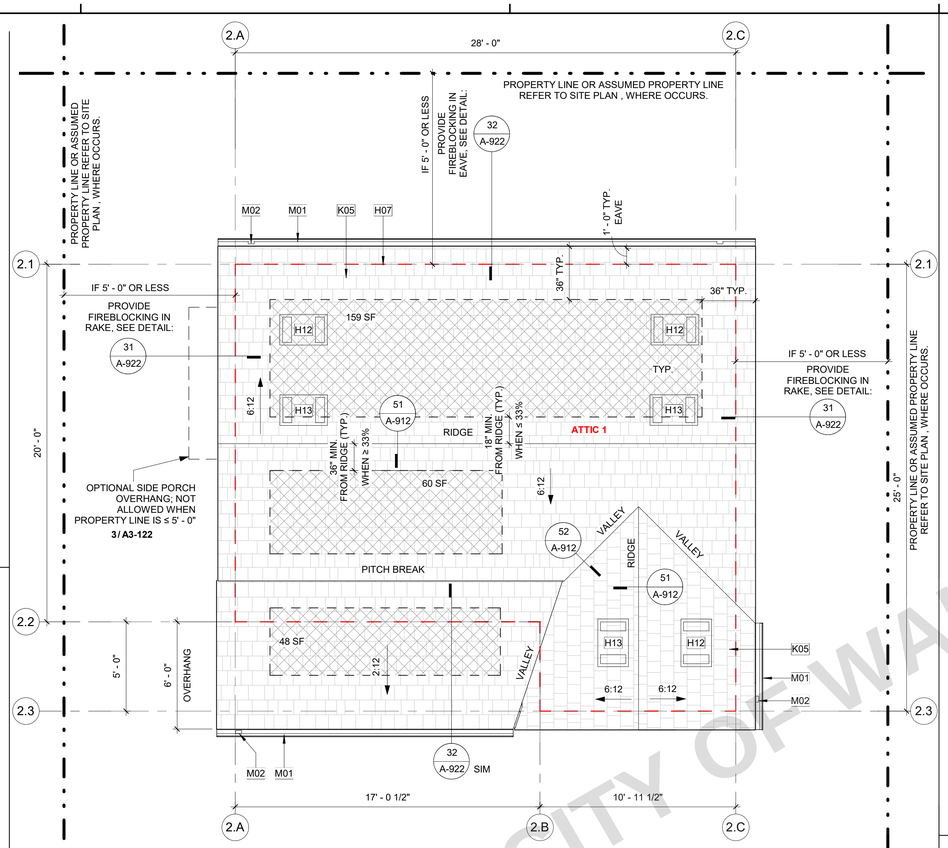
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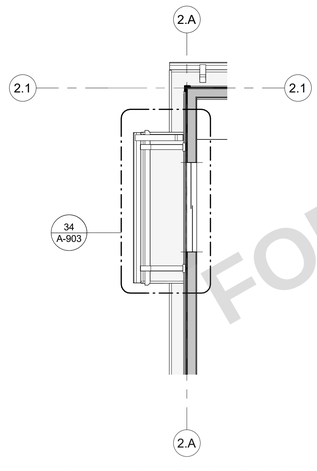
PLAN 2 - OPT. SIDE PORCH ROOF PLAN

3 | A1-201 | A2-122 | SCALE: 1/4" = 1'-0"



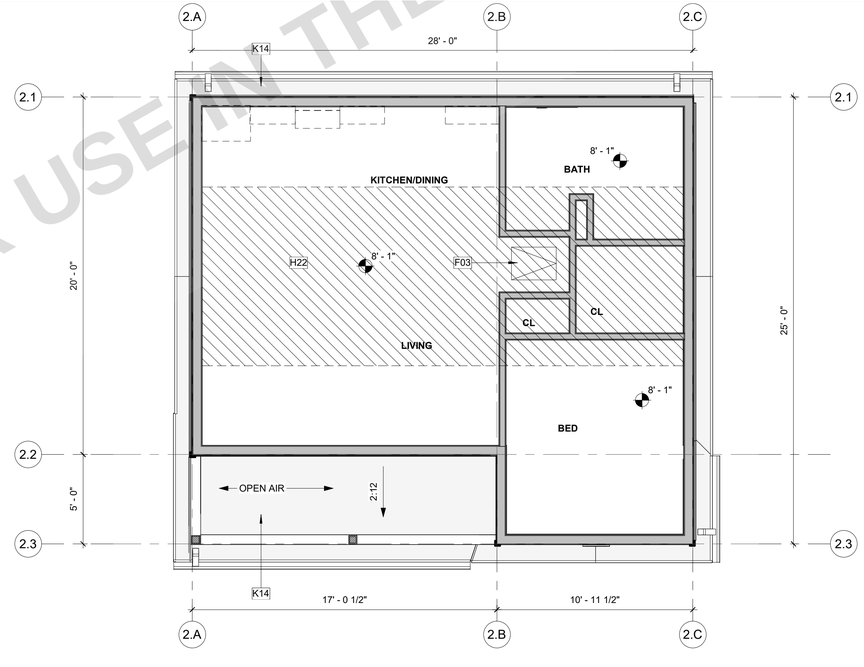
PLAN 2 - COTTAGE - ROOF PLAN

1 | A1-201 | A2-122 | SCALE: 1/4" = 1'-0"



PLAN 2 - OPT. SIDE PORCH REFLECTED CEILING PLAN

4 | A1-201 | A2-122 | SCALE: 1/4" = 1'-0"



PLAN 2 - COTTAGE - REFLECTED CEILING PLAN

2 | A1-201 | A2-122 | SCALE: 1/4" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

ROOF PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
3. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
4. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
5. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
7. ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH (***CRC R905***), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROOF COVERINGS SHALL BE INSTALLED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED IN R301.2.1(1), AND ADJUSTED FOR HEIGHT AND EXPOSURE IN ACCORDANCE WITH TABLE R301.2.1(2).
8. ROOF UNDERLAYMENTS SHALL BE IN ACCORDANCE WITH WITH SECTION R905.1.1, TABLE R905.1.1(2), AND TABLE R905.1.1(1).
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10. THE MINIMUM NET FREE VENTILATING AREA SHALL COMPLY WITH ***CRC R806.2.***
11. IN THE INSTANCE OF UPPER VENTS, VENTS SHALL BE LOCATED NO MORE THAN 3 FT BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. ***CRC R806.2.***

RCP GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS.
2. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR TO FINISH FACE OF GWB, U.N.O.
3. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
4. REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE AND EXHAUST LOCATIONS.
5. DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED.
6. SOFFITS ARE TO BE HELD TIGHT TO UNDERSIDE OF MECHANICAL EQUIPMENT.

KEYNOTES

F03	22" X 30" MINIMUM ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC. THERE IS NO HVAC EQUIPMENT (SUCH AS FURNACE, HEAT PUMP, OR FAU) IN THE ATTIC. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CEnC 150.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CEnC 150.0 (a)1.*
H07	BUILDING LINE BELOW.
H12	ATTIC VENT (LOW); LOWER VENTILATORS SHALL BE LOCATED IN THE BOTTOM ONE-THIRD OF THE ATTIC SPACE PER R806.2 EXCEPTION 2. PROVIDE DAMPER TO PROVIDE 1" CLR. AIRSPACE WHERE REQ. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
H13	ATTIC VENT (HIGH); UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
H22	AREA OF ATTIC WITH AT LEAST 30" OF HEIGHT, SEE SECTION.
K05	COMPOSITE ROOF SHINGLES, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K14	EXTERIOR SOFFIT, SEE COVER PAGE FOR MATERIAL SELECTION, SEE DETAILS FOR MORE INFORMATION.
M01	GUTTER, CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4. SEE DETAIL 12/A-903.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.

X: SETBACK AT RIDGE TABLE

PV ARRAYS PERCENT OF THE PLAN VIEW TOTAL ROOF AREA	(X) HORIZONTAL RIDGE SETBACK
≤33%	18" BOTH SIDES OF RIDGE
>33%	36" BOTH SIDES OF RIDGE
≤66% + 13D SPRINKLER	18" BOTH SIDES OF RIDGE
>66% + 13D SPRINKLER	36" BOTH SIDES OF RIDGE

ROOF VENTING CALCULATIONS

VENTING:

UPPER & LOWER VENTS:

O'HAGIN TAPERED LOW PROFILE COMPOSITION SHINGLE
FINISH TO MATCH ROOF. SEE DETAIL: **41 / A-912** **41 / A-922**
72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC 1 - PLAN 2	704 SF	2.35 SF	1.17 SF	1.17 SF

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
ATTIC 1 - PLAN 2				
LOWER				
O'HAGIN SHINGLE ROOF VENT (LOWER)	3	2' - 8"	0.50 SF	1.50 SF
UPPER				
O'HAGIN SHINGLE ROOF VENT (UPPER)	3	2' - 8"	0.50 SF	1.50 SF
				3.00 SF

ROOF PLAN & RCP LEGEND

- XX'-X" — CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - GYPSUM BOARD CEILING
- EXTERIOR SOFFITS, RAKES, & EAVES; SEE TITLE SHEET FOR MATERIAL SELECTION AND CORRESPONDING DETAILS FOR MORE INFORMATION.
- COMPOSITE ASHPALT SHINGLE ROOF; SEE MATERIALS LEGEND ON ELEVATION SHEET FOR MORE INFORMATION.
- X : 12 — ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- X : 12 — CEILING SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- 22"X30" MIN. ATTIC ACCESS PANEL (WHERE REQ.)
- DORMER STYLE ROOF VENT, SEE ROOF VENTING CALCULATIONS
- OUTLINE OF WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT; SEE DETAIL: **12 / A-903**
- APPROXIMATE LOCATION OF DOWNSPOUT/LEADER TO ROOF OR SPLASHBLOCK BELOW; SEE DETAILS:
- XX SF — AVAILABLE SOLAR ZONE LOCATIONS; PV SYSTEM IS MANDATORY IF THE CONDITIONED AREA IS MORE THAN 652 SQUARE FEET, OTHERWISE IT'S OPTIONAL TO INSTALL A PV SYSTEM. WHEN PV SYSTEM IS INSTALLED, IT SHALL BE UNDER A SEPERATE PERMIT. SEE TITLE 24 REPORT FOR MORE INFORMATION
- AREA OF ATTIC WITH 30" HEIGHT OR GREATER. 22" X 30" CLEAR OPENING ACCESS REQUIRED IF TOTAL AREA GREATER THAN 30 SQ. FT. PER CRC R807.1

CITY OF WALNUT CREEK

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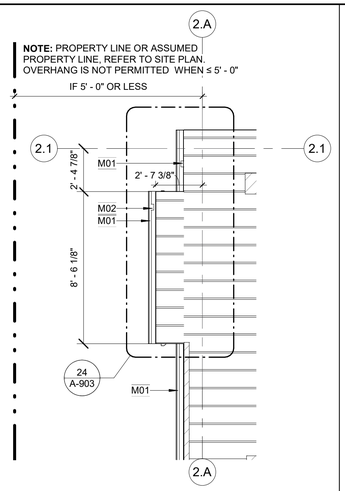
WALNUT CREEK ADU
CITY OF WALNUT CREEK

ROOF PLAN & REFLECTED CEILING PLAN - COTTAGE

DATE
02/10/2023

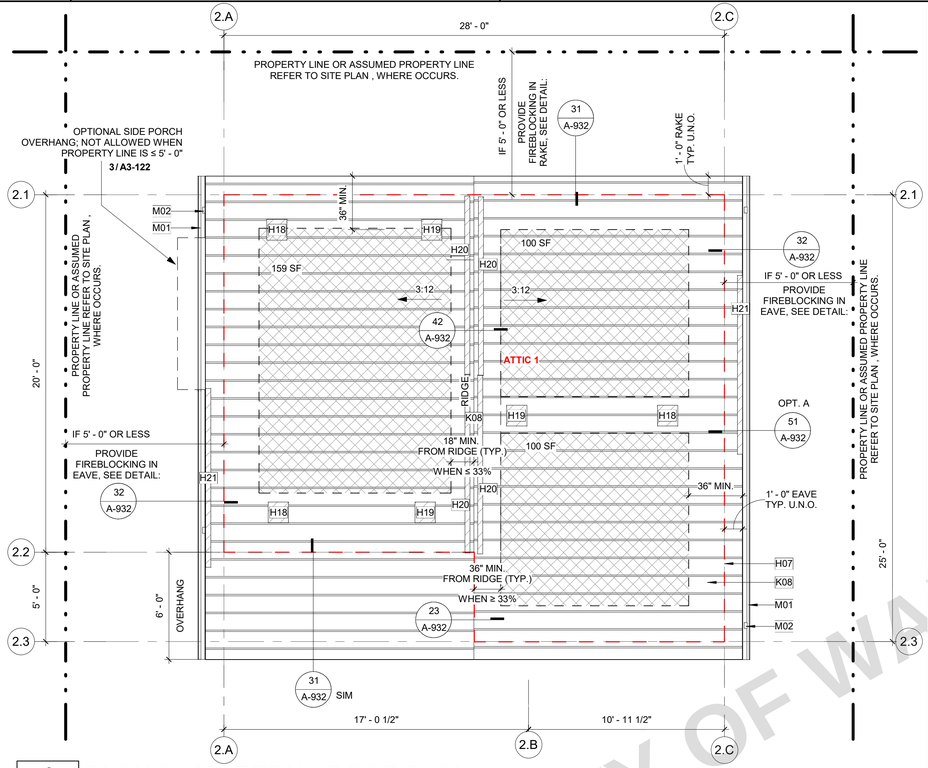
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PLAN 2 - OPT. SIDE PORCH - ROOF PLAN

3 | A1-201 | A2-123 | SCALE: 1/4" = 1'-0"



PLAN 2 - MODERN - ROOF PLAN

1 | A1-201 | A2-123 | SCALE: 1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
3. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
4. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
5. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
7. ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH (***CRC R905***), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROOF COVERINGS SHALL BE INSTALLED TO RESIST THE COMPONENT AND CLADDING LOADS SPECIFIED IN R301.2.1(1), AND ADJUSTED FOR HEIGHT AND EXPOSURE IN ACCORDANCE WITH TABLE R301.2.1(2).
8. ROOF UNDERLAYMENTS SHALL BE IN ACCORDANCE WITH WITH SECTION R905.1.1, TABLE R905.1.1(2), AND TABLE R905.1.1(1).
9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.

   FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

   ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSION LARGER THAN 1/4 INCH (6.4 MM) SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16 INCH (1.6 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR AND SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES AND OTHER SIMILAR CREATURES (***CRC R806.***).
10. THE MINIMUM NET FREE VENTILATING AREA SHALL COMPLY WITH ***CRC R806.2.***
11. IN THE INSTANCE OF UPPER VENTS, VENTS SHALL BE LOCATED NO MORE THAN 3 FT BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. ***CRC R806.2.***

ROOF VENTING CALCULATIONS

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC 1 - PLAN 2	621 SF	2.07 SF	1.03 SF	1.03 SF

NOTE: SEE TITLE PAGE FOR VENTING OPTION SELECTION; STRIKE THROUGH NON-USED ITEMS

OPTION A RIDGE AND SOFFIT VENTS

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.35 SF)

CONTINUOUS RIDGE VENTING WITH 2 1/2" HOLES IN SHEATHING.
SEE DETAIL: **42 / A-932**

50.0 SQ.IN OF AIR MOVEMENT PER 120" = 50.0 SQ.IN. / 144 = 0.35 SF

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.35 SF)

VULCAN 120" CONTINUOUS SOFFIT VENT.
ALTERNATIVE PRODUCT SHALL PROVIDE EQUAL OR GREATER NFA.
SEE DETAIL: **51 / A-932**

96.0 SQ.IN OF AIR MOVEMENT PER VENT = 96.0 SQ.IN. / 144 = 0.67 SF

VENT TYPE	COUNT	LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
ATTIC 1 - PLAN 2 - A				
HIGH				
Vulcan Ridge Vent - High	4	10' - 0"	0.35 SF	1.39 SF
LOW				
Vulcan Soffit Vent - Low	2	10' - 0"	0.67 SF	1.33 SF
				2.72 SF

OPTION B DORMER VENTS

UPPER & LOWER VENTS (RECOMMENDED):

VULCAN VENT VDLR419 13" X 19" - SEE DETAIL: **52 / A-932**
ALTERNATIVE PRODUCT SHALL PROVIDE EQUAL OR GREATER NFA.
52.0 SQ. IN OF AIR MOVEMENT PER VENT = 52.0 SQ. IN. / 144 =0.36 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.36 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) * (0.5) / (0.36 SF)

VENT TYPE	COUNT	LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
ATTIC 1 - PLAN 2 - B				
HIGH				
Vulcan Roof Vent - High	3		0.36 SF	1.08 SF
LOW				
Vulcan Roof Vent - Low	3		0.36 SF	1.08 SF
				2.16 SF

RCP GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS.
2. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR TO FINISH FACE OF GWB, U.N.O.
3. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
4. REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE AND EXHAUST LOCATIONS.
5. DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED.
6. SOFFITS ARE TO BE HELD TIGHT TO UNDERSIDE OF MECHANICAL EQUIPMENT.

KEYNOTES

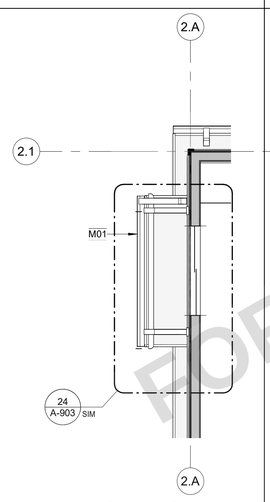
F03	22" X 30" MINIMUM ATTIC ACCESS. PROVIDED SWITCH AND OUTLET AT ATTIC. THERE IS NO HVAC EQUIPMENT (SUCH AS FURNACE, HEAT PUMP, OR FAU) IN THE ATTIC. PERMANENTLY ATTACH R-38 OR GREATER INSULATION TO ATTIC ACCESS DOOR USING ADHESIVE OR MECHANICAL FASTENERS CEnC 150.0 (a)1. PROVIDE GASKETED ATTIC ACCESS TO PREVENT AIR LEAKAGE CEnC 150.0 (a)1."
H07	BUILDING LINE BELOW.
H18	DORMER VENT (LOW). ATTIC VENTING OPTION B. STRIKE THROUGH IF NOT USED. SEE VENTING CALCS.
H19	DORMER VENT (HIGH). ATTIC VENTING OPTION B. STRIKE THROUGH IF NOT USED. SEE VENTING CALCS.
H20	RIDGE VENT (HIGH). ATTIC VENTING OPTION A. STRIKE THROUGH IF NOT USED. SEE VENTING CALCS.
H21	SOFFIT VENT (LOW). ATTIC VENTING OPTION A. STRIKE THROUGH IF NOT USED.SEE VENTING CALCS.
H22	AREA OF ATTIC WITH AT LEAST 30" OF HEIGHT, SEE SECTION.
K08	METAL ROOF, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K14	EXTERIOR SOFFIT, SEE COVER PAGE FOR MATERIAL SELECTION, SEE DETAILS FOR MORE INFORMATION.
M01	GUTTER, CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4. SEE DETAIL 12/A-903.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.
U13	FAUX OUTRIGGER, SEE STRUCTURAL AND DETAILS FOR MORE INFORMATION.

X: SETBACK AT RIDGE TABLE

PV ARRAYS PERCENT OF THE PLAN VIEW TOTAL ROOF AREA	(X) HORIZONTAL RIDGE SETBACK
≤33%	18" BOTH SIDES OF RIDGE
>33%	36" BOTH SIDES OF RIDGE
≤66% + 13D SPRINKLER	18" BOTH SIDES OF RIDGE
>66% + 13D SPRINKLER	36" BOTH SIDES OF RIDGE

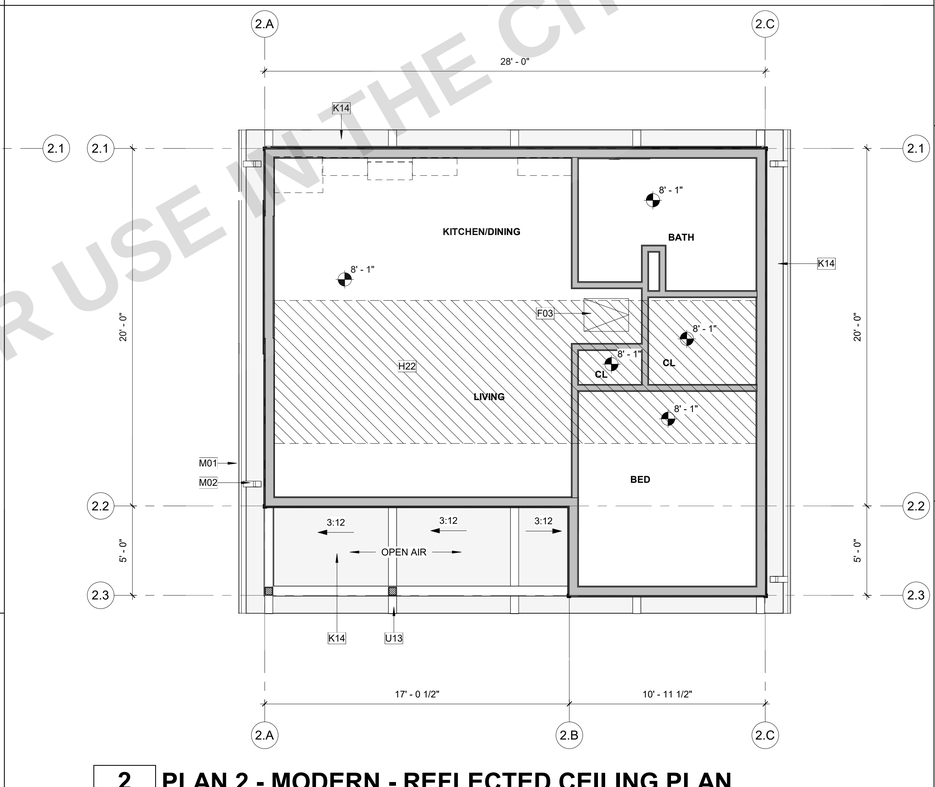
CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.



PLAN 2 - OPT. SIDE PORCH REFLECTED CEILING PLAN

4 | A1-201 | A2-123 | SCALE: 1/4" = 1'-0"



PLAN 2 - MODERN - REFLECTED CEILING PLAN

2 | A1-201 | A2-123 | SCALE: 1/4" = 1'-0"

ROOF PLAN & RCP LEGEND

- XX'-X" — CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - GYPSUM BOARD CEILING
- EXTERIOR SOFFITS, RAKES, & EAVES; SEE TITLE SHEET FOR MATERIAL SELECTION AND CORRESPONDING DETAILS FOR MORE INFORMATION.
- STANDING SEAM METAL ROOF; SEE MATERIALS LEGEND ON ELEVATION SHEET FOR MORE INFORMATION.
- X : 12 — ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- X : 12 — CEILING SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- 22"X30" MIN. ATTIC ACCESS PANEL (WHERE REQ.)
- CONT. ATTIC VENTING OPTION A, MARK WITH "X" IF NOT USED. SEE ROOF VENTING CALCS.
- ATTIC ROOF VENT OPTION B, MARK WITH "X" IF NOT USED. SEE ROOF VENTING CALCS.
- OUTLINE OF WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT; SEE DETAIL: **12 / A-903**
- APPROXIMATE LOCATION OF DOWNSPOUT/LEADER TO ROOF OR SPLASHBLOCK BELOW; SEE DETAILS;
- XX SF — AVAILABLE SOLAR ZONE LOCATIONS; PV SYSTEM IS MANDATORY IF THE CONDITIONED AREA IS MORE THAN 652 SQUARE FEET, OTHERWISE IT'S OPTIONAL TO INSTALL A PV SYSTEM. WHEN PV SYSTEM IS INSTALLED, IT SHALL BE UNDER A SEPERATE PERMIT. SEE TITLE 24 REPORT FOR MORE INFORMATION
- AREA OF ATTIC WITH 30" HEIGHT OR GREATER. 22" X 30" CLEAR OPENING ACCESS REQUIRED IF TOTAL AREA GREATER THAN 30 SQ. FT. PER CRC R807.1

WALNUT CREEK ADU
CITY OF WALNUT CREEK

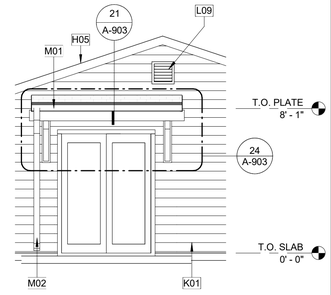
ROOF PLAN & REFLECTED CEILING PLAN - MODERN

DATE
02/10/2023

SHEET
A2-123

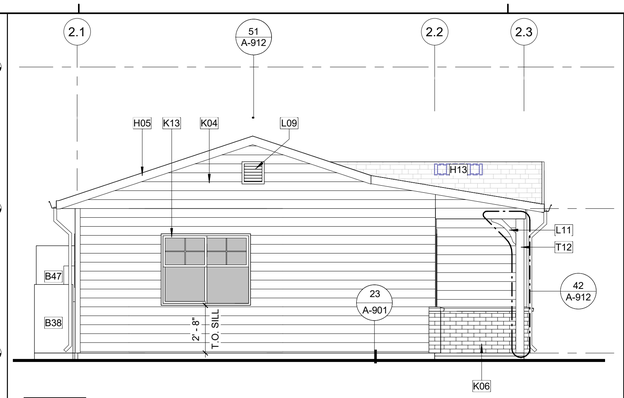
FOR USE IN THE CITY OF WALNUT CREEK

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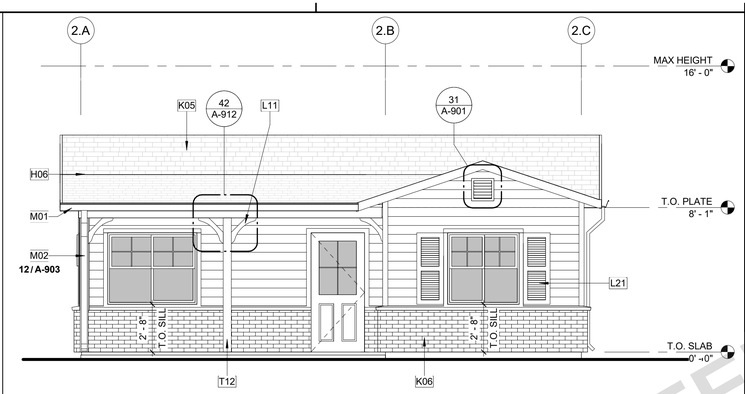
3 LEFT - OPT. PORCH

A2-201 SCALE: 1/4" = 1'-0"



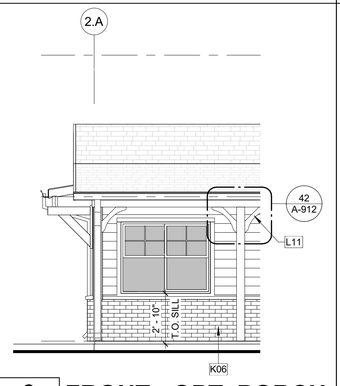
2 PLAN 2 - CAL RANCH - LEFT ELEVATION

A2-101 A2-201 SCALE: 1/4" = 1'-0"



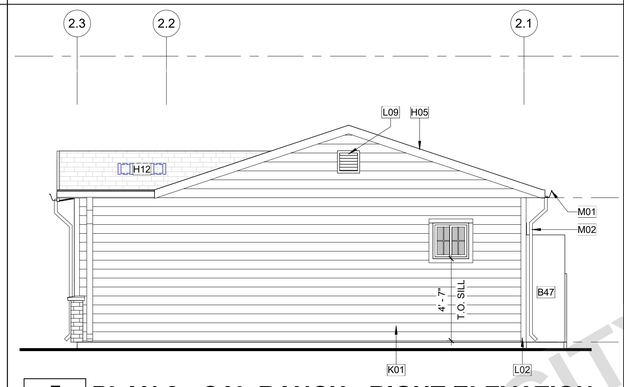
1 PLAN 2 - CAL RANCH - FRONT ELEVATION

A2-101 A2-201 SCALE: 1/4" = 1'-0"



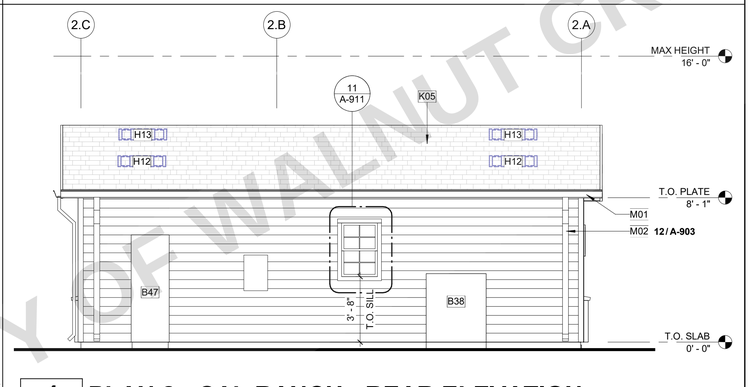
6 FRONT - OPT. PORCH

A2-201 SCALE: 1/4" = 1'-0"



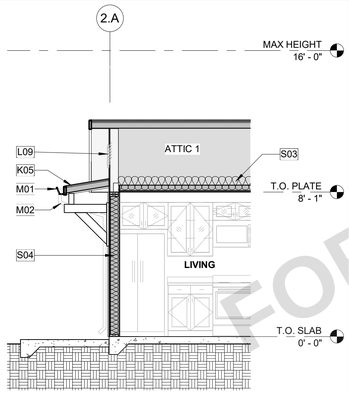
5 PLAN 2 - CAL RANCH - RIGHT ELEVATION

A2-101 A2-201 SCALE: 1/4" = 1'-0"



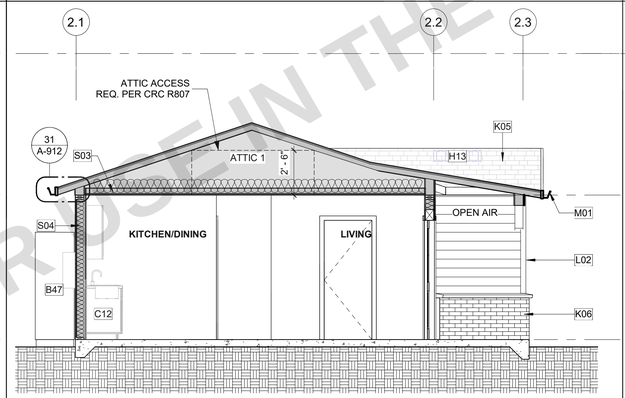
4 PLAN 2 - CAL RANCH - REAR ELEVATION

A2-101 A2-201 SCALE: 1/4" = 1'-0"



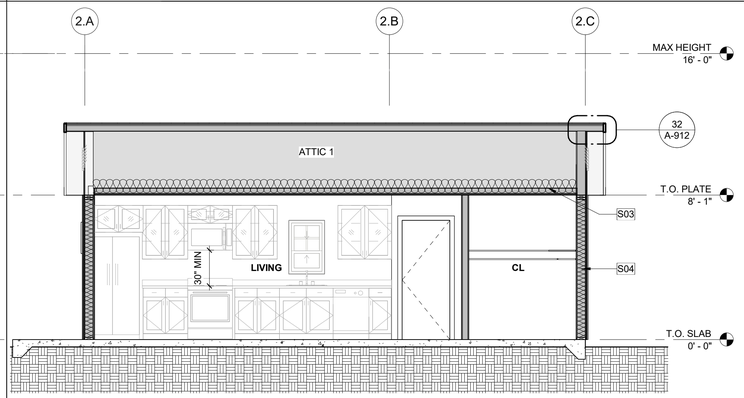
CAL. RANCH - OPT. PORCH - SECTION 03

A2-201 SCALE: 1/4" = 1'-0"



8 PLAN 2 - CALIFORNIA RANCH - SECTION 02

A2-101 A2-201 SCALE: 1/4" = 1'-0"



7 PLAN 2 - CALIFORNIA RANCH - SECTION 01

A2-101 A2-201 SCALE: 1/4" = 1'-0"

MATERIALS LEGEND CALIFORNIA RANCH

NOTES:

1. **SEE TITLE SHEET FOR MATERIAL SELECTIONS. APPLICANT OR OWNER TO PROVIDE MANUFACTURER AND COLOR/FINISH.**
2. **ALL MATERIAL SELECTIONS SHALL COMPLY WITH CRC, SECTION R703.**

GRAPHICS LEGEND: (SEE TITLE SHEET; STRIKE THROUGH NON-USED OPTIONS)	SIZE, MANUFACTURER, & PRODUCT INFORMATION:	COLOR/FINISH:
HORIZONTAL SIDING 4" MIN. TO 12" MAX. BOARD EXPOSURE **OPTION A:** FIBER CEMENT (PER CRC R703.10) **OPTION B:** WOOD SIDING (PER CRC 703.5.3)		**SIDING:** **TRIM:**
BRICK VENEER WITH BRICK WAINSCOT ADHERED MASONRY VENEER (PER CRC 703.12) (SEE SHEET A-913 FOR REFERENCE DETAILS)		
ASPHALT COMPOSITE ROOF SHINGLES - CLASS C MIN. REQUIRED. (SHALL COMPLY WITH CRC R905.2.4, CRC R905.1, TABLE R905.1.1(1), TABLE R905.1.1(2) & ASTM D3462)		
EAVES, RAKES, & EXT. SOFFIT MATERIAL (SEE REFLECTED CEILING PLAN) **OPTION A:** FIBER CEMENT **OPTION B:** EXTERIOR TOUNGE & GROOVE **OPTION C:** EXTERIOR GRADE PLYWOOD		(REQ. PRIMER & 2 COATS OF EXT. GRADE PAINT)

SECTIONS GENERAL NOTES

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS. *KEYNOTES ONLY APPLY IF REFERENCED ON PLANS.
2. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
3. DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.
4. INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
5. FIREBLOCKING TO BE LOCATED PER ***CRC SECTION R302.11***:
   A. ***SECTION R302.11*** -
      1. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
         1. VERTICALLY AT CEILING AND FLOOR LEVELS
         2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
      2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
      3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH ***SECTION R302.7***.
      4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS.
      5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE ***SECTION R1003.19***.
      6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
   B. ***SECTION R302.11.1*** - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
      1. TWO-INCH NOMINAL LUMBER
      2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
      3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
      4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
      5. ONE-HALF-INCH GYPSUM BOARD
      6. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
      7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
      8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.
6. PER ***CRC SECION R317*** SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH AWPA U1.
7. REFER TO RCP'S FOR SOFFIT DIMENSIONS AND FURTHER INFORMATION.
8. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
9. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH ***CRC 803.13*** FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

GENERAL ELEVATION NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ROOF PLAN FOR OVERHANGS. FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
4. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
5. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1).
6. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH CRC TABLE R602.3.
7. CLADDING ATTACHMENT OVER FOAM SHEATHING TO WOOD FRAMING IN ACCORDANCE WITH CRC R703.15. REFER TO CRC R703.8 FOR ANCHORED MASONRY OR STONE VENEER INSTALLED OVER FOAM SHEATHING.

KEYNOTES

B38	MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. PROVIDE PROTECTION PER CPC 507.25 & CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFO. SEE DETAIL 53/A-902.
B47	40 GALLON HEAT PUMP WATER HEATER. PROVIDE ENCLOSURE IN COMPLIANCE WITH CPC 507.25. PROVIDE CONCRETE PAD 3" MIN. ABOVE GRADE. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. SEE DETAIL 22/A-901. PROVIDE PROTECTION PER CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFORMATION. SEE DETAIL 53/A-902.
C12	34 1/2" HIGH BASE CABINET AND COUNTERTOP.
H05	ROOF EDGE/FASCIA. SEE DETAILS FOR FASCIA TYPE.
H06	LINE OF PITCH BREAK.
H12	ATTIC VENT (LOW); LOWER VENTILATORS SHALL BE LOCATED IN THE BOTTOM ONE-THIRD OF THE ATTIC SPACE PER R806.2 EXCEPTION 2. PROVIDE DAMPER TO PROVIDE 1" CLR. AIRSPACE WHERE REQ. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
H13	ATTIC VENT (HIGH); UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
K01	HORIZONTAL SIDING, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K04	VERTICAL SIDING, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K05	COMPOSITE ROOF SHINGLES, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K06	BRICK VENEER WITH WAINSCOT, SEE SHEET A-913 FOR DETAILS AND SEE MATERIALS LEGEND FOR MORE INFORMATION.
K13	WINDOW PER PLAN
L02	CORNER TRIM; SEE DETAILS FOR MORE INFORMATION.
L09	FAUX DECORATIVE VENT, SEE DETAIL 31/A-901.
L11	DECORATIVE KNEE BRACE, SEE DETAIL 42/A-912.
L21	DECORATIVE FAUX SHUTTERS, SEE DETAIL 23/A-912.
M01	GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4. SEE DETAIL 12/A-903.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.
S03	R-38 MIN. ROOF INSULATION; RADIANT BARRIER REQUIRED (VERIFY WITH TITLE 24 REPORT).
S04	2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
T12	WOOD POST, SEE STRUCTURAL - REQUIRED: PRIMER & 2 COATS OF EXTERIOR GRADE PAINT.

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

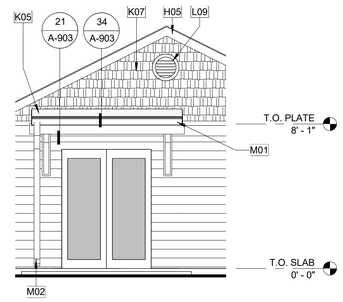
ELEVATIONS & BUILDING SECTIONS - CAL RANCH

DATE
02/10/2023

SHEET
A2-201

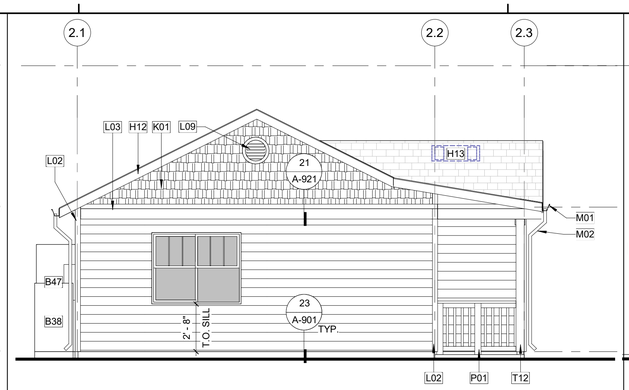
FOR USE IN THE CITY OF WALNUT CREEK

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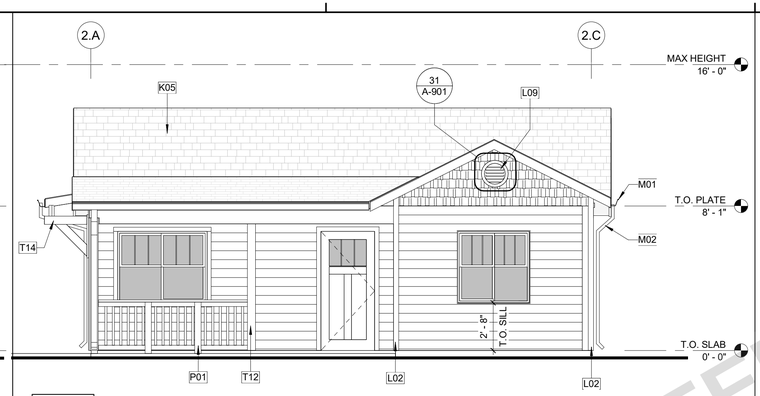
3 LEFT - OPT. PORCH

A2-202 SCALE: 1/4" = 1'-0"



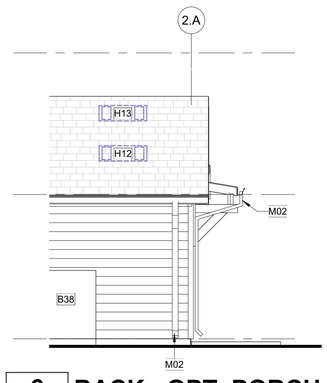
2 PLAN 2 - COTTAGE - LEFT ELEVATION

A2-101 A2-202 SCALE: 1/4" = 1'-0"



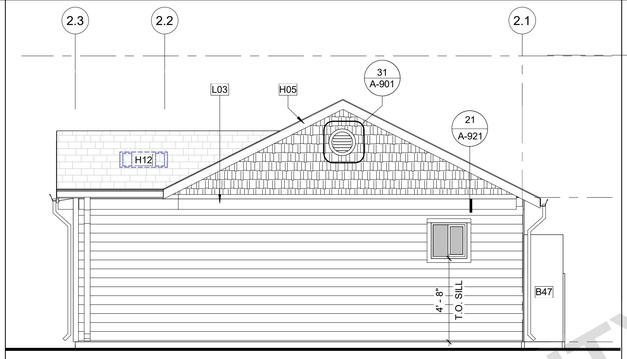
1 PLAN 2 - COTTAGE - FRONT ELEVATION

A2-101 A2-202 SCALE: 1/4" = 1'-0"



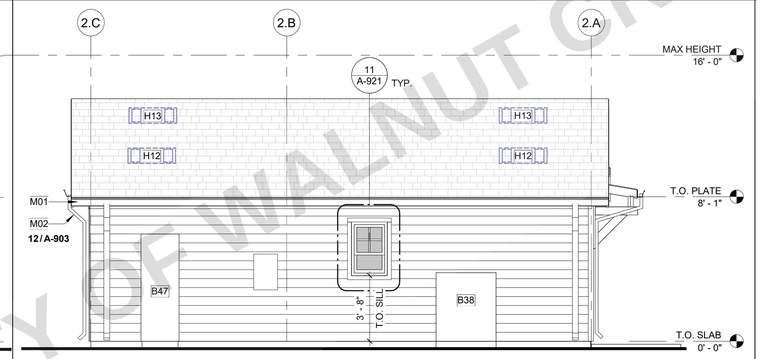
6 BACK - OPT. PORCH

A2-202 SCALE: 1/4" = 1'-0"



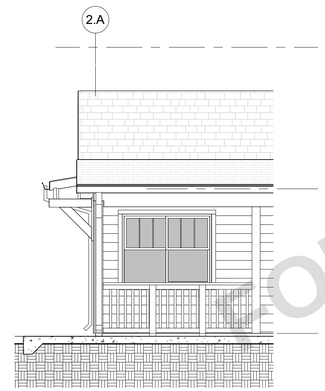
5 PLAN 2 - COTTAGE - RIGHT ELEVATION

A2-101 A2-202 SCALE: 1/4" = 1'-0"



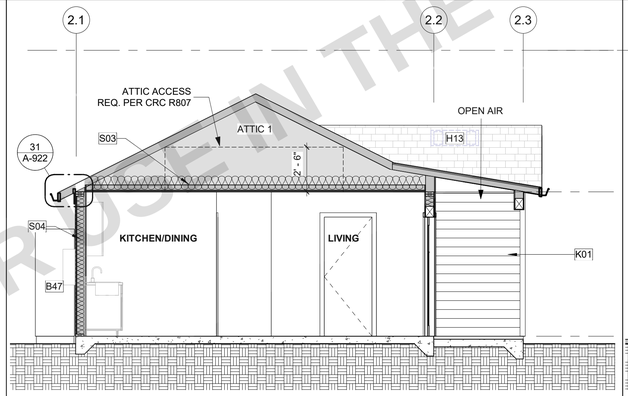
4 PLAN 2 - COTTAGE - REAR ELEVATION

A2-101 A2-202 SCALE: 1/4" = 1'-0"



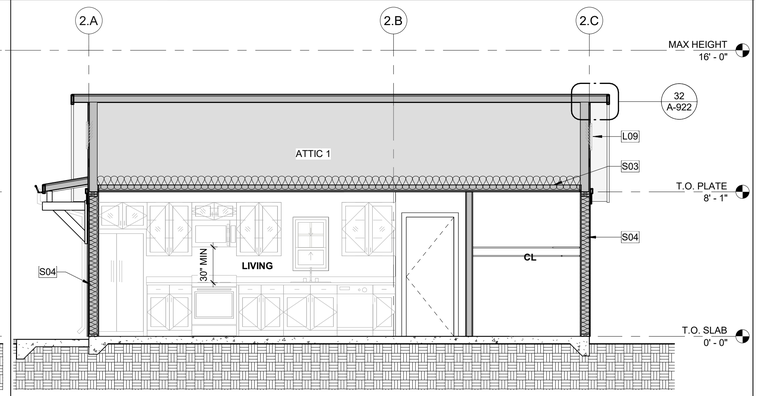
9 FRONT - OPT. PORCH

A2-202 SCALE: 1/4" = 1'-0"



8 PLAN 2 - COTTAGE - SECTION 02

A2-101 A2-202 SCALE: 1/4" = 1'-0"



7 PLAN 2 - COTTAGE - SECTION 01

A2-101 A2-202 SCALE: 1/4" = 1'-0"

MATERIALS LEGEND COTTAGE

NOTES:

1. **SEE TITLE SHEET FOR MATERIAL SELECTIONS. APPLICANT OR OWNER TO PROVIDE MANUFACTURER AND COLOR/FINISH.**
2. **ALL MATERIAL SELECTIONS SHALL COMPLY WITH CRC, SECTION R703.**

GRAPHICS LEGEND: (SEE TITLE SHEET; STRIKE THROUGH NON-USED OPTIONS)	**SIZE, MANUFACTURER, & PRODUCT INFORMATION:**	**COLOR/FINISH:**
HORIZONTAL SIDING 4" MIN. TO 12" MAX. BOARD EXPOSURE **OPTION A:** FIBER CEMENT (PER CRC R703.10) **OPTION B:** WOOD SIDING (PER CRC 703.5.3)		**SIDING:** **TRIM:**
SHAKE/SHINGLE SIDING **OPTION A:** FIBER CEMENT (PER CRC R703.10) **OPTION B:** WOOD SHAKES/SHINGLES (PER CRC R703.6)		
ASPHALT COMPOSITE ROOF SHINGLES - CLASS C MIN. REQUIRED. (SHALL COMPLY WITH CRC R905.2.4, CRC R905.1, TABLE R905.1.1(1), TABLE R905.1.1(2) & ASTM D3462)		
EAVES, RAKES, & EXT. SOFFIT MATERIAL (SEE REFLECTED CEILING PLAN) **OPTION A:** FIBER CEMENT **OPTION B:** EXTERIOR TOUNGE & GROOVE **OPTION C:** EXTERIOR GRADE PLYWOOD		(REQ. PRIMER & 2 COATS OF EXT. GRADE PAINT)

SECTIONS GENERAL NOTES

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS. *KEYNOTES ONLY APPLY IF REFERENCED ON PLANS.
2. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
3. DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.
4. INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
5. FIREBLOCKING TO BE LOCATED PER ***CRC SECTION R302.11***:
   A. ***SECTION R302.11*** -
      1. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
         1. VERTICALLY AT CEILING AND FLOOR LEVELS
         2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
      2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
      3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH ***SECTION R302.7***.
      4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS.
      5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE ***SECTION R1003.19***.
      6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
   B. ***SECTION R302.11.1*** - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
      1. TWO-INCH NOMINAL LUMBER
      2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
      3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
      4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
      5. ONE-HALF-INCH GYPSUM BOARD
      6. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
      7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
      8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.
6. PER ***CRC SECION R317*** SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH AWPA U1.
7. REFER TO RCP'S FOR SOFFIT DIMENSIONS AND FURTHER INFORMATION.
8. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
9. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH ***CRC 803.13*** FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

GENERAL ELEVATION NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ROOF PLAN FOR OVERHANGS. FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
4. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
5. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1).
6. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH CRC TABLE R602.3.
7. CLADDING ATTACHMENT OVER FOAM SHEATHING TO WOOD FRAMING IN ACCORDANCE WITH CRC R703.15. REFER TO CRC R703.8 FOR ANCHORED MASONRY OR STONE VENEER INSTALLED OVER FOAM SHEATHING.

KEYNOTES

B38	MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. PROVIDE PROTECTION PER CPC 507.25 & CMC 305.1.1. SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFO. SEE DETAIL 53/A-902.
B47	40 GALLON HEAT PUMP WATER HEATER. PROVIDE ENCLOSURE IN COMPLIANCE WITH CPC 507.25. PROVIDE CONCRETE PAD 3" MIN. ABOVE GRADE. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. SEE DETAIL 22/A-901. PROVIDE PROTECTION PER CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFORMATION. SEE DETAIL 53/A-902.
H05	ROOF EDGE/FASCIA. SEE DETAILS FOR FASCIA TYPE.
H12	ATTIC VENT (LOW); LOWER VENTILATORS SHALL BE LOCATED IN THE BOTTOM ONE-THIRD OF THE ATTIC SPACE PER R806.2 EXCEPTION 2. PROVIDE DAMPER TO PROVIDE 1" CLR. AIRSPACE WHERE REQ. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
H13	ATTIC VENT (HIGH); UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY. PAINT FINISH TO MATCH ROOF COLOR, SEE VENTING CALCS.
K01	HORIZONTAL SIDING, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K05	COMPOSITE ROOF SHINGLES, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K07	SHINGLE/SHAKE SIDING, SEE MATERIALS LEGEND FOR MORE INFORMATION.
L02	CORNER TRIM; SEE DETAILS FOR MORE INFORMATION.
L03	TRIM, SEE DETAILS FOR MORE INFORMATION.
L09	FAUX DECORATIVE VENT, SEE DETAIL 31/A-901.
M01	GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4. SEE DETAIL 12/A-903.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.
P01	DECORATIVE PORCH RAILING, HEIGHT OF 24" MIN. TO 48" MAX. REQUIRED FOR WOOD: PRIMER & 2 COATS OF EXTERIOR GRADE PAINT. REQUIRED: 30 INCHES MAX VERTICAL DROP IS PROHIBITED WITHIN 36 INCHES (HORIZONTALLY) OF THE PORCH, SEE DETAIL FOR MORE INFORMATION.
S03	R-38 MIN. ROOF INSULATION; RADIANT BARRIER REQUIRED (VERIFY WITH TITLE 24 REPORT).
S04	2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
T12	WOOD POST, SEE STRUCTURAL - REQUIRED: PRIMER & 2 COATS OF EXTERIOR GRADE PAINT.
T14	OVERHANG, SEE DETAIL, REFER TO STRUCTURAL.

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

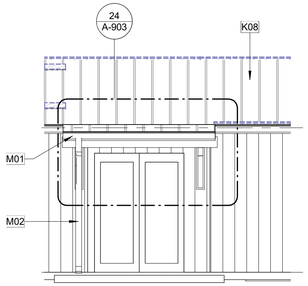
ELEVATIONS & BUILDING SECTIONS - COTTAGE

DATE
02/10/2023

SHEET
A2-202

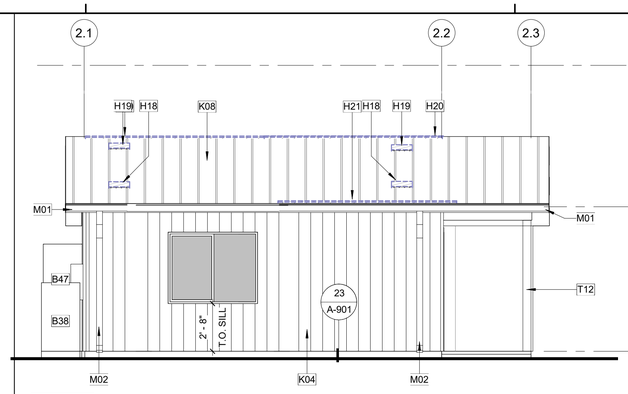
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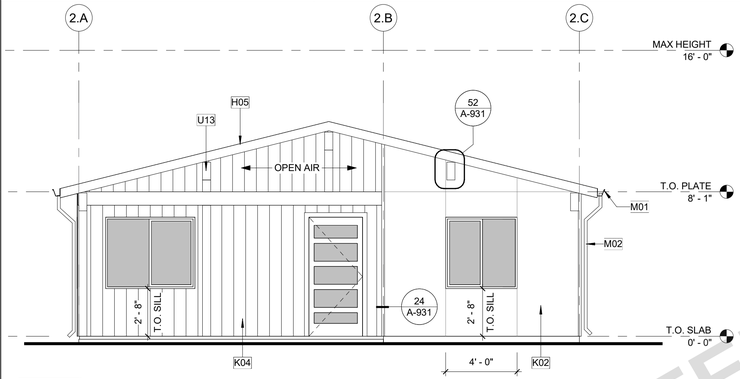
3 PLAN 2 - MODERN - LEFT ELEVATION - OPT. SIDE PORCH

A2-203 SCALE: 1/4" = 1'-0"



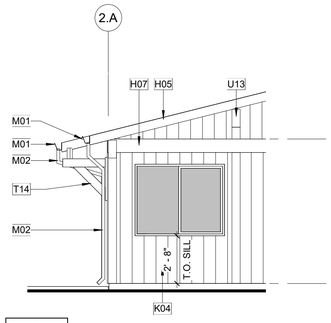
2 PLAN 2 - MODERN - LEFT ELEVATION

A2-101 A2-203 SCALE: 1/4" = 1'-0"



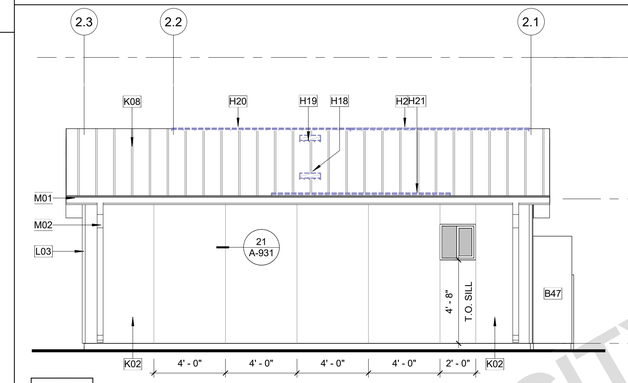
1 PLAN 2 - MODERN - FRONT ELEVATION

A2-101 A2-203 SCALE: 1/4" = 1'-0"



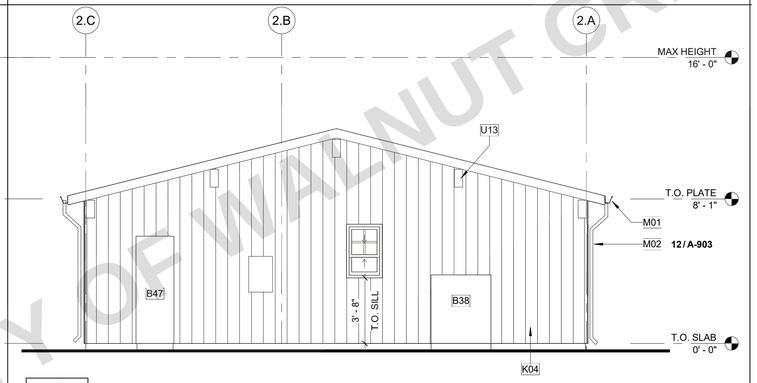
6 FRONT - OPT. PORCH

A2-203 SCALE: 1/4" = 1'-0"



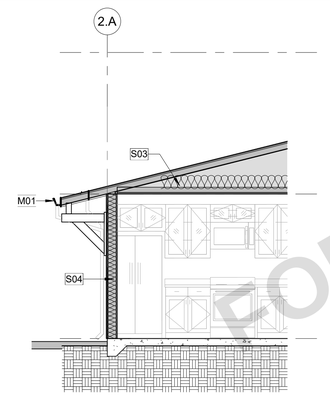
5 PLAN 2 - MODERN - RIGHT ELEVATION

A2-101 A2-203 SCALE: 1/4" = 1'-0"



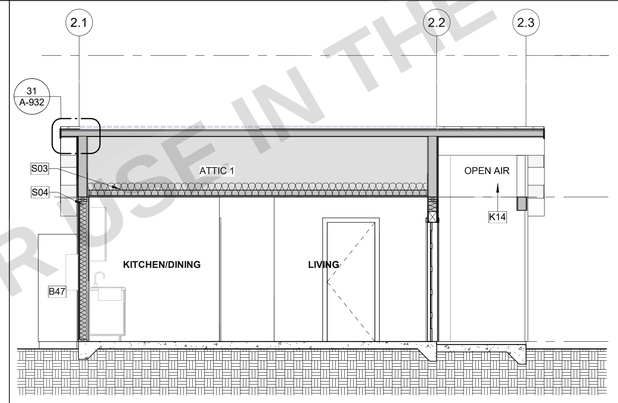
4 PLAN 2 - MODERN - REAR ELEVATION

A2-101 A2-203 SCALE: 1/4" = 1'-0"



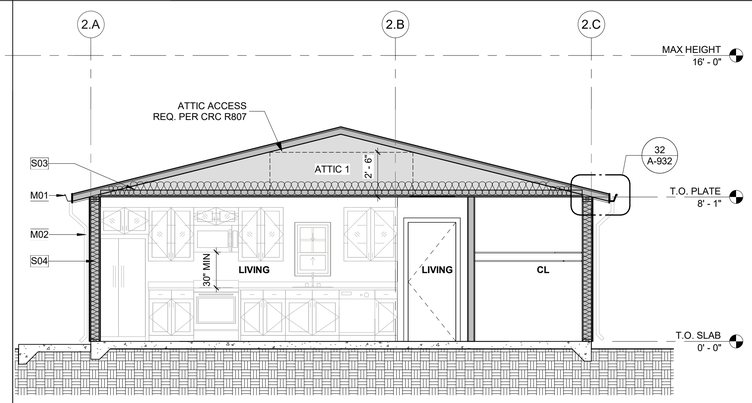
9 MODERN SECTION 01 SIDE PORCH OPTION

A2-203 SCALE: 1/4" = 1'-0"



8 PLAN 2 - MODERN - SECTION 02

A2-101 A2-203 SCALE: 1/4" = 1'-0"



7 PLAN 2 - MODERN - SECTION 01

A2-101 A2-203 SCALE: 1/4" = 1'-0"

MATERIALS LEGEND MODERN

NOTES:

1. **SEE TITLE SHEET FOR MATERIAL SELECTIONS. APPLICANT OR OWNER TO PROVIDE MANUFACTURER AND COLOR/FINISH.**
2. **ALL MATERIAL SELECTIONS SHALL COMPLY WITH CRC, SECTION R703.**

GRAPHICS LEGEND: (SEE TITLE SHEET; STRIKE THROUGH NON-USED OPTIONS)	**SIZE, MANUFACTURER, & PRODUCT INFORMATION:**	**COLOR/FINISH:**
VERTICAL SIDING **OPTION A:** FIBER CEMENT (PER CRC R703.10) **OPTION B:** WOOD SIDING (PER CRC 703.5.3)		**SIDING:** **TRIM:**
48" X 96" FIBER CEMENT PANELS (PER CRC R703.10) LOCATIONS OF REVEALS PER ELEVATION SEE DETAIL: **21 / A-931**		
STANDING SEAM METAL ROOF PANEL SYSTEM - CLASS C MIN. REQ. (SHALL COMPLY WITH CRC R905.1, CRC R905.10 & CRC R905.1.1)		
EAVES, RAKES, & EXT. SOFFIT MATERIAL (SEE REFLECTED CEILING PLAN) **OPTION A:** FIBER CEMENT **OPTION B:** EXTERIOR TOUNGE & GROOVE **OPTION C:** EXTERIOR GRADE PLYWOOD		(REQ. PRIMER & 2 COATS OF EXT. GRADE PAINT)

SECTIONS GENERAL NOTES

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3. DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.
4. INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
5. FIREBLOCKING TO BE LOCATED PER ***CRC SECTION R302.11***:
   A. ***SECTION R302.11*** -
      1. FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
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         2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
      2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
      3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH ***SECTION R302.7***.
      4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS.
      5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE ***SECTION R1003.19***.
      6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
   B. ***SECTION R302.11.1*** - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
      1. TWO-INCH NOMINAL LUMBER
      2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
      3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
      4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
      5. ONE-HALF-INCH GYPSUM BOARD
      6. ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
      7. BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
      8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.
6. PER ***CRC SECION R317*** SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH AWPA U1.
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GENERAL ELEVATION NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ROOF PLAN FOR OVERHANGS. FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
4. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
5. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1).
6. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH CRC TABLE R602.3.
7. CLADDING ATTACHMENT OVER FOAM SHEATHING TO WOOD FRAMING IN ACCORDANCE WITH CRC R703.15. REFER TO CRC R703.8 FOR ANCHORED MASONRY OR STONE VENEER INSTALLED OVER FOAM SHEATHING.

KEYNOTES

B38	MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. PROVIDE PROTECTION PER CPC 507.25 & CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFO. SEE DETAIL 53/A-902.
B47	40 GALLON HEAT PUMP WATER HEATER. PROVIDE ENCLOSURE IN COMPLIANCE WITH CPC 507.25. PROVIDE CONCRETE PAD 3" MIN. ABOVE GRADE. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. SEE DETAIL 22/A-901. PROVIDE PROTECTION PER CMC 305.1.1, SEE GENERAL MEP NOTES 7 & 8 ON THE "FINISH, MECHANICAL, & ELECTRICAL PLANS" SHEET FOR MORE INFORMATION. SEE DETAIL 53/A-902.
H05	ROOF EDGE/FASCIA. SEE DETAILS FOR FASCIA TYPE.
H07	BUILDING LINE BELOW.
H18	DORMER VENT (LOW). ATTIC VENTING OPTION B. STRIKE THROUGH IF NOT USED. SEE VENTING CALCS.
H19	DORMER VENT (HIGH). ATTIC VENTING OPTION B. STRIKE THROUGH IF NOT USED. SEE VENTING CALCS.
H20	RIDGE VENT (HIGH). ATTIC VENTING OPTION A. STRIKE THROUGH IF NOT USED. SEE VENTING CALCS.
H21	SOFFIT VENT (LOW). ATTIC VENTING OPTION A. STRIKE THROUGH IF NOT USED.SEE VENTING CALCS.
K02	FIBER CEMENT PANELS WITH REVEALS, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K04	VERTICAL SIDING, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K08	METAL ROOF, SEE MATERIALS LEGEND FOR MORE INFORMATION.
K14	EXTERIOR SOFFIT, SEE COVER PAGE FOR MATERIAL SELECTION, SEE DETAILS FOR MORE INFORMATION.
L03	TRIM, SEE DETAILS FOR MORE INFORMATION.
M01	GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4. SEE DETAIL 12/A-903.
M02	DOWNSPOUT DOWNSPOUT TO SPLASH BLOCK BELOW. SEE DETAIL 12/A-903.
S03	R-38 MIN. ROOF INSULATION; RADIANT BARRIER REQUIRED (VERIFY WITH TITLE 24 REPORT).
S04	2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
T12	WOOD POST, SEE STRUCTURAL - REQUIRED: PRIMER & 2 COATS OF EXTERIOR GRADE PAINT.
T14	OVERHANG, SEE DETAIL, REFER TO STRUCTURAL.
U13	FAUX OUTRIGGER, SEE STRUCTURAL AND DETAILS FOR MORE INFORMATION.

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

ELEVATIONS & BUILDING SECTIONS - MODERN

DATE
02/10/2023

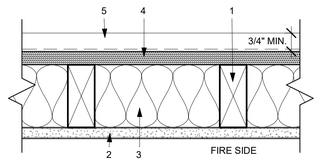
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FOR USE IN THE CITY OF WALNUT CREEK

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UL DESIGN NO. U 356

REFER TO DETAIL: **54 / A-901** FOR THROUGH WALL PENETRATIONS



WOOD STUDS, GYPSUM BOARD AND CEMENT STUCCO

1. WOOD STUDS
NOMINAL 2X6 SPACED 16" O.C. WITH (2) 2X4 TOP PLATES (1) 2X4 BOTTOM PLATE. STUDS LATERALLY-BRACED BY WOOD STRUCTURAL PANEL SHEATHING (ITEM 5) AND EFFECECTIVELY FIRE STOPPED AT TOP AND BOTTOM OF WALL.

2. GYPSUM BOARD
ANY CLASSIFIED 5/8" THICK, 48" WIDE, APPLIED VERTICALLY AND NAILED TO STUDS AND BEARING PLATES 7" O.C. WITH 6D CEMENT-COATED NAILS, 1 7/8" LONG WITH 1/4" DIAM. HEAD.

JOINTS AND NAILHEADS (NOT SHOWN) - WALLBOARD JOINTS COVERED WITH TAPE AND JOINT COMPOUND. NAIL HEADS COVERED WITH JOINT COMPOUND.

3. BATTS AND BLANKETS
MINERAL FIBER OR GLASS INSULATION, 3 1/2" THICK, PRESSURE FIT TO FILL WALL CAVITIES BETWEEN STUDS AND PLATES. MINERAL FIBER INSULATION TO BE UNFACED AND TO HAVE A MIN. DENSITY OF 3 PCF. GLASS FIBER INSULATION TO BE FACED WITH ALUMIUM FOIL OR FRAFT PAPER AND TO HAVE A MIN. DENSITY OF 0.9 PCF (MIN. R-13 THERMAL INSULATION RATING). FIBER SPRAYED - AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 4) - SPRAY APPLIED CELLULOSE INSULATION MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.0 LB/CU.FT.

4. WOOD STRUCTURAL PANEL SHEATHING
MIN 7/16" THICK, 4 FT. WIDE WOOD STRUCTURAL PANELS, MIN. GRADE "C-D" OR "SHEATHING". INSTALLED WITH LONG DIMENSION OF SHEET (STRENGTH AXIS) OR FACE GRAIN OF PLYWOOD PARALLEL WITH OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. HORIZONTAL JOINTS BACKED WITH NOMINAL 2X4 WOOD BLOCKING. ATTACHED TO STUDS ON EXTERIOR SIDE OF WALL WITH 6D CEMENT COATED BOX NAILS SPACED 6" O.C. AT PERIMETER OF PANELS AND 12" O.C. ALONG INTERIOR STUDS.

5. EXTERIOR FACING
INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION. ONE OF THE FOLLOWING EXTERIOR FACINGS IS TO BE APPLIED OVER THE SHEATHING. REFER TO PLAN FOR INFOEMATION:

D. CEMENTITIOUS STUCCO - PORTLAND CEMENT OR SYNTHETIC STUCCO SYSTEM WITH SELF-FURRING METAL LATH OR ADHESIVE BASE COAT. THICKNESS FROM 3/8" TO 3/4", DEPENDING ON SYSTEM.
H. FIBER-CEMENT SIDING - FIBER-CEMENT EXTERIOR SIDING INCLUDING SMOOTH AND PATTERNED PANEL OR LAP SIDING.

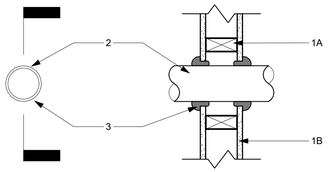
UL DES U305
AT INTERIOR WALL USE:
5/8" SHEETROCKFIRECODE CORE PANELS,
5/8" SHEETROCK ULTRALIGHT PANELS FIRE CODE X OR
5/8" FIBEROCK PANELS –
2 X 4 WOOD STUD 16" OR 24" O.C.

52 1-HR EXTERIOR RATED WALL ASSEMBLY

A-901 SCALE: 3" = 1'-0"

XHEZ.W-L-1166

WALL SYSTEM PENENTRATION
F RATING - 1 AND 2 HR (SEE ITEM 1B)
T RATING - 0 HR



1. WALL ASSEMBLY
THE 1 OR 2 HR. FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS-
WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 IN. BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN. 3 1/2 IN. WIDE AND SPACED MAX. 24 IN. O.C.

B. GYPSUM BOARD (BEARING THE UL CLASSIFICATION MARKING)-
THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAM. OF OPENING IS 5 IN.

THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH- PENETRANTS
ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBING AND PERIPHERY OF THE OPENING SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO A MAX. 1/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. COPPER TUBING-
NOM. 4 IN. DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING.

B. COPPER PIPE-
NOM. 4 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

C. STEEL PIPE-
NOM. 4 IN. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

D. CONDUIT-
NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT

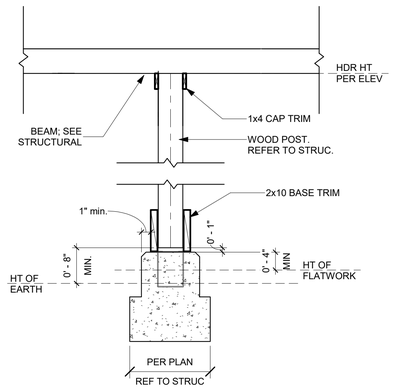
E. IRON PIPE-
NOM. 4 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.

3. FILL, VOID OR CAVITY MATERIALS (BEARING THE UL CLASSIFICATION MARKING) - CAULK OR PUTTY-MIN. 1/2 IN. DIAMETER BEAD CAULK OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRANT ON THE WALL SURFACES ON BOTH SIDES OF THE WALL.

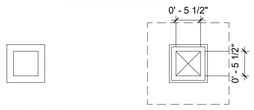
3M COMPANY - CP 25WB+ CAULK OR MPS-2+ PUTTY

54 THROUGH PENETRATION @ WALL

A-901 SCALE: 1 1/2" = 1'-0"



FRONT/SIDE ELEVATION



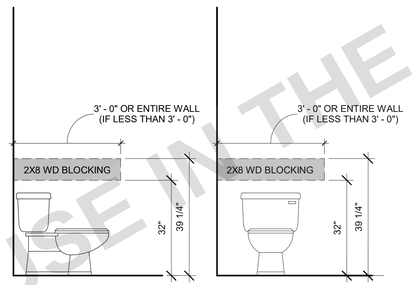
TOP PLAN VIEW **PLAN VIEW**

POSTS AND COLUMNS THAT ARE EITHER EXPOSED TO THE WEATHER OR LOCATED IN BASEMENTS OR CELLARS, SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS, SHALL BE PROJECTED AT LEAST 1 INCH ABOVE THE SLAB OR DECK AND 8 INCHES ABOVE EXPOSED EARTH AND SHALL BE SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER.

NOTE: REQUIRED ON ALL EXPOSED LUMBER: PIMER & 2 COATS OF EXTERIOR GRADE PAINT

42 TYPICAL POST

A1-201 A-901 SCALE: 3/4" = 1'-0"

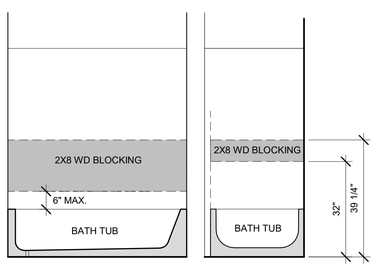


SIDE WALL **BACK WALL**

REF 2022 CRC R327.1

43 TOILET BLOCKING - AGING-IN-PLACE

A-901 SCALE: 1/2" = 1'-0"



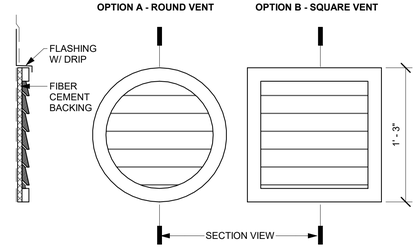
BACK WALL **FRONT / REAR WALL**

REF 2022 CRC R327.1

44 TUB BLOCKING - AGING-IN-PLACE

A-901 SCALE: 1/2" = 1'-0"

OPTION A - ROUND VENT **OPTION B - SQUARE VENT**

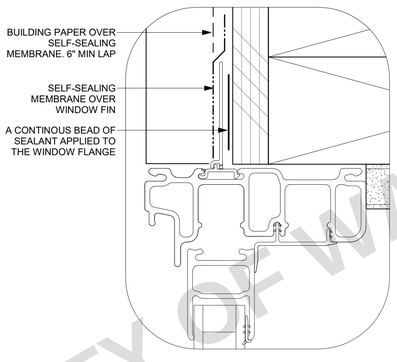


SECTION CUT ROUND VENT SQUARE VENT

NOTE: SEE TITLE SHEET FOR STYLE SELECTION

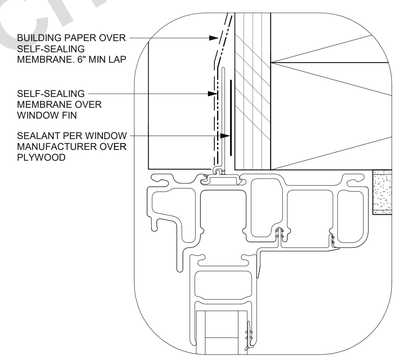
31 DECORATIVE FAUX GABLE VENTS

A1-201 A-901 SCALE: 1 1/2" = 1'-0"



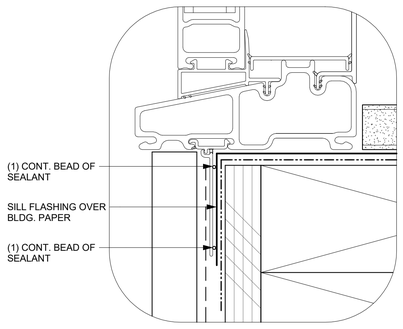
32 DETAILED HEAD FLASHING

A-901 SCALE: 12" = 1'-0"



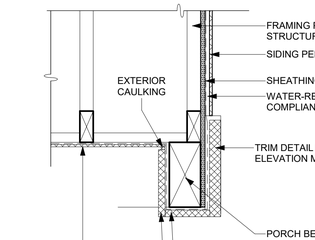
33 DETAILED JAMB FLASHING

A-901 SCALE: 12" = 1'-0"



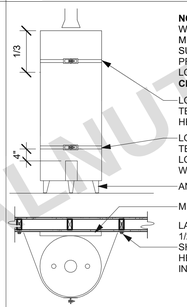
34 DETAILED SILL FLASHING

A-901 SCALE: 12" = 1'-0"



21 TYP. PORCH BEAM

A-901 SCALE: 1 1/2" = 1'-0"



NOTE: APPLIANCES INSTALLED IN GARAGES, WAREHOUSES OR OTHER AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELECATED OR LOCATED OUT OF THE NORMAL PATH OF VEHICLES. **CPC 507.13.1 PHYSICAL DAMAGE**

LOCATE TS-1 EARTHQUAKE STRAP WITH TENSIONING BUCKLES WITHIN UPPER 1/3 OF WATER HEATER

LOCATE TS-1 EARTHQUAKE STRAP WITH TENSIONING BUCKLES 4" ABOVE CONTROLS WITHIN LOWER 1/3 OF THE VERTICAL DIMENSION OF THE WATER HEATER ***CPC 507.2***

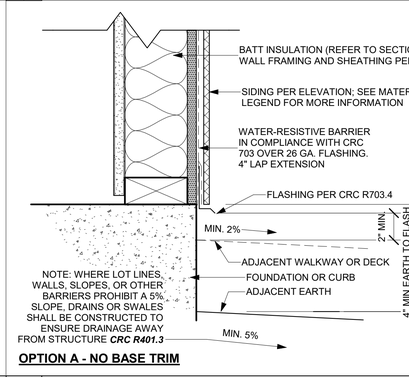
ANCHOR LEGS TO PLATFORM OR FLOOR

MINIMUM 1" NON-METALLIC SPACER

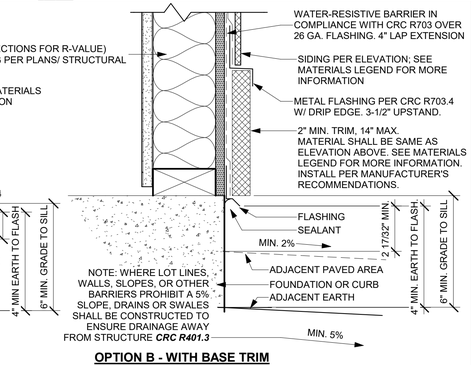
LAG STRAP SECURELY TO WALL FRAMING: (4) 3/8"x 2 1/2" LAG BOLTS AND FENDER WASHERS. STRAP SHALL BE ENCIRCLED TIGHTLY AROUND WATER HEATER IN A MANNER WHICH DOES NOT DEPRESS INSULATION BLANKET

22 WATER HEATER MOUNTING

A5-111 A-901 SCALE: 1/2" = 1'-0"



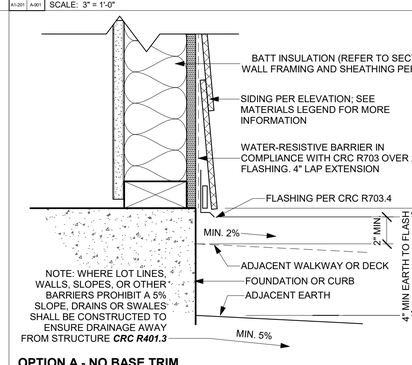
OPTION A - NO BASE TRIM



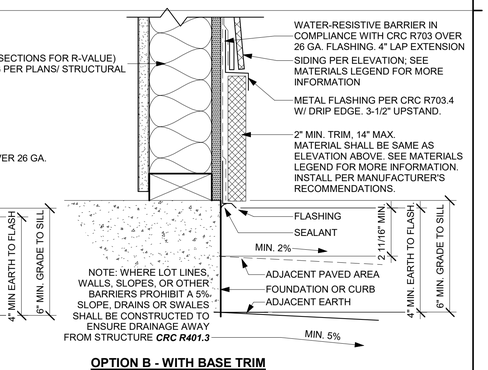
OPTION B - WITH BASE TRIM

23 TYPICAL FOUNDATION - SIDING

A1-201 A-901 SCALE: 3" = 1'-0"



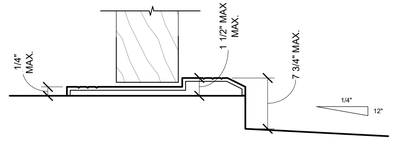
OPTION A - NO BASE TRIM



OPTION B - WITH BASE TRIM

24 TYPICAL FOUNDATION - HORIZONTAL LAP SIDING

A1-202 A-901 SCALE: 3" = 1'-0"

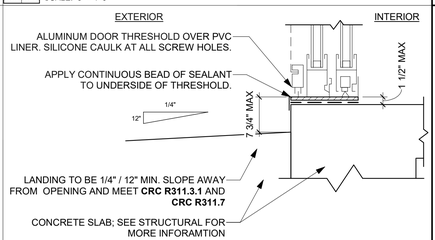


R311.3.1 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS
LANDINGS OR FINISHED FLOORS AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1 1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7 3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR.

WHERE EXTERIOR LANDINGS OR FLOORS SERVING THE REQUIRED EGRESS DOOR ARE NOT AT GRADE, THEY SHALL BE PROVDED WITH ACCESS TO GRADE BY MEANS OF A RAMP IN ACCORDANCE WITH **CRC R311.8** OR A STAIRWAY IN ACCORDANCE WITH **CRC R311.7.**

11 EXTERIOR DOOR THRESHOLD - TYPICAL

A-911 A-901 SCALE: 6" = 1'-0"



R311.3.1 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS
LANDINGS OR FINISHED FLOORS AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1 1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7 3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR.

WHERE EXTERIOR LANDINGS OR FLOORS SERVING THE REQUIRED EGRESS DOOR ARE NOT AT GRADE, THEY SHALL BE PROVDED WITH ACCESS TO GRADE BY MEANS OF A RAMP IN ACCORDANCE WITH CRC R311.8 OR A STAIRWAY IN ACCORDANCE WITH CRC R311.7

12 EXT. THRESHOLD - SLIDING DOOR TYP.

A5-111 A-901 SCALE: 3" = 1'-0"

R311.3.1 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS
LANDINGS OR FINISHED FLOORS AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1 1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7 3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR.

WHERE EXTERIOR LANDINGS OR FLOORS SERVING THE REQUIRED EGRESS DOOR ARE NOT AT GRADE, THEY SHALL BE PROVDED WITH ACCESS TO GRADE BY MEANS OF A RAMP IN ACCORDANCE WITH **CRC R311.8** OR A STAIRWAY IN ACCORDANCE WITH **CRC R311.7.**

CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

WALNUT CREEK ADU
CITY OF WALNUT CREEK

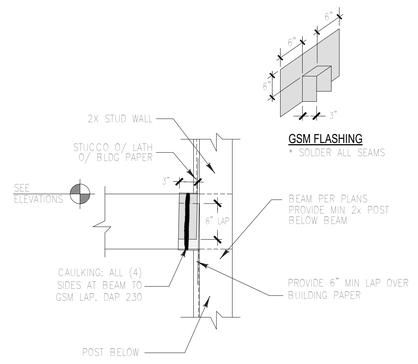
ARCHITECTURAL DETAILS - COMMON

DATE
02/10/2023

SHEET
A-901

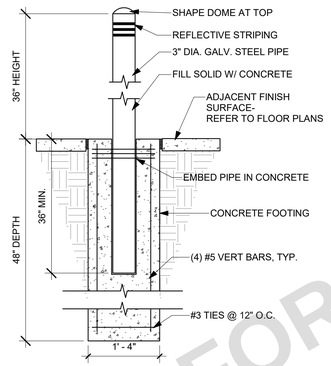
FOR USE IN THE CITY OF WALNUT CREEK

11/20/2023 1:47:42 PM
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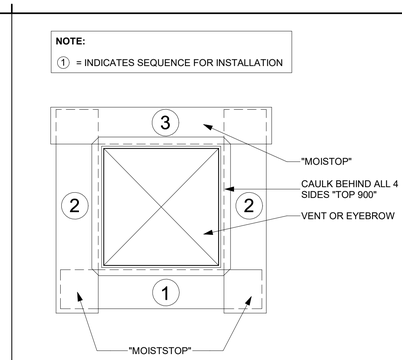
52 BEAM TO WALL FLASHING

A-902 SCALE: 1" = 1'-0"



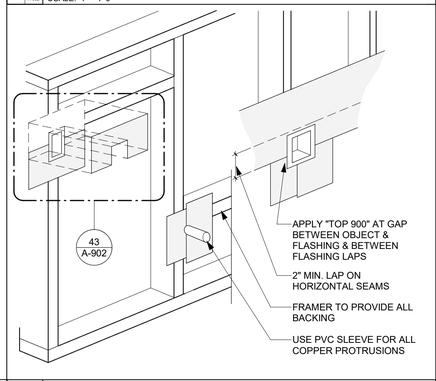
53 FIXED BOLLARD

A-902 SCALE: 3/4" = 1'-0"



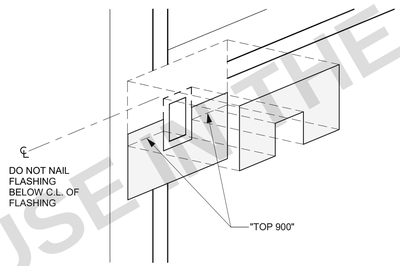
41 FLASHING - G.I. VENT

A-902 SCALE: 1" = 1'-0"



42 FLASHING - PROTRUSIONS

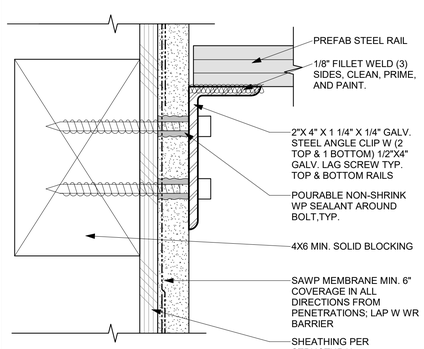
A-902 SCALE: 1 1/2" = 1'-0"



NOTE:
ALL OBJECTS PROTRUDING THROUGH WALL PLANE
MUST BE FLASHED ACCORDING TO THESE DETAILS

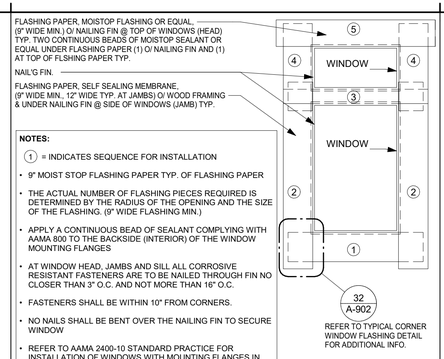
43 FLASHING - DETAILED PROTRUSION

A-902 A-902 SCALE: 1 1/2" = 1'-0"



44 RAILING CONNECTION DETAIL

A-902 SCALE: 6" = 1'-0"



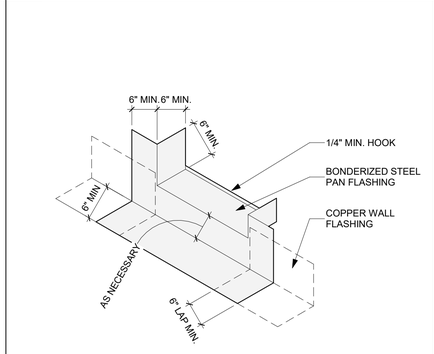
NOTES:

① = INDICATES SEQUENCE FOR INSTALLATION

- 9" MOIST STOP FLASHING PAPER TYP. OF FLASHING PAPER
- THE ACTUAL NUMBER OF FLASHING PIECES REQUIRED IS DETERMINED BY THE RADIUS OF THE OPENING AND THE SIZE OF THE FLASHING. (9" WIDE FLASHING MIN.)
- APPLY A CONTINUOUS BEAD OF SEALANT COMPLYING WITH AAMA 800 TO THE BACKSIDE (INTERIOR) OF THE WINDOW MOUNTING FLANGES
- AT WINDOW HEAD, JAMBS AND SILL ALL CORROSIVE RESISTANT FASTENERS ARE TO BE NAILED THROUGH FIN NO CLOSER THAN 3" O.C. AND NOT MORE THAN 16" O.C.
- FASTENERS SHALL BE WITHIN 10" FROM CORNERS.
- NO NAILS SHALL BE BENT OVER THE NAILING FIN TO SECURE WINDOW
- REFER TO AAMA 2400-10 STANDARD PRACTICE FOR INSTALLATION OF WINDOWS WITH MOUNTING FLANGES IN STUD CONSTRUCTION FOR ADDITIONAL REQUIREMENTS.
- SEE FLASHING PROFILES AT ROOF TO WALL DETAILS

31 FLASHING - WINDOW TYP.

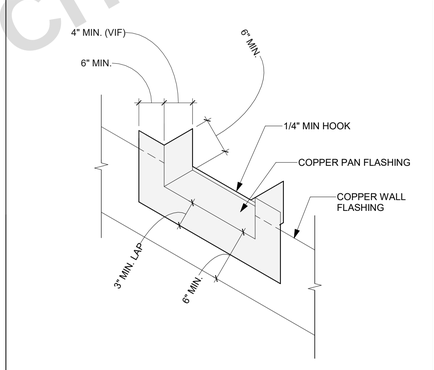
A-901 A-902 SCALE: 12" = 1'-0"



NOTE:
REFER TO AAMA 2400-10 STANDARD
PRACTICEW FOR INSTALLATION OF
WINDOWS WITH MOUNTING FLANGES IN
STUD CONSTRUCTION FOR ADDITIONAL
REQUIREMENTS.

32 FLASHING - WINDOW CORNER TYP.

A-902 A-902 SCALE: 12" = 1'-0"

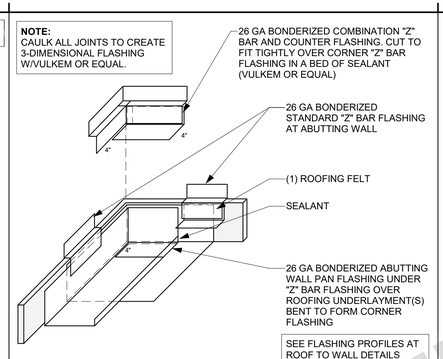


33 FLASHING - DOOR AT GRADE2

A-902 NTS

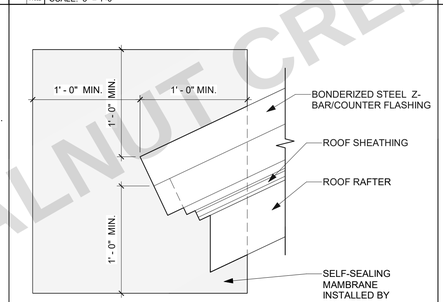
34 FLASHING - DOOR AT W.P. DECK2

A-902 NTS



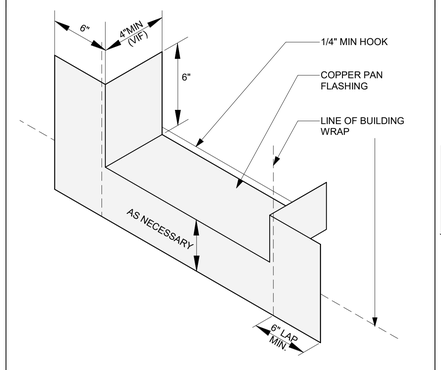
21 ROOF TO WALL TYP. FLASHING 5

A-902 SCALE: 3" = 1'-0"



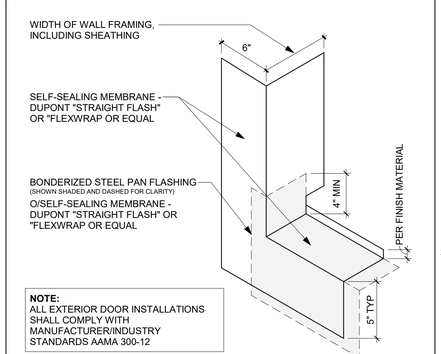
22 FLASHING - FASCIA TO WALL TYP.

A-902 SCALE: 1 1/2" = 1'-0"



23 FLASHING PAN @ DOOR THRESHOLD

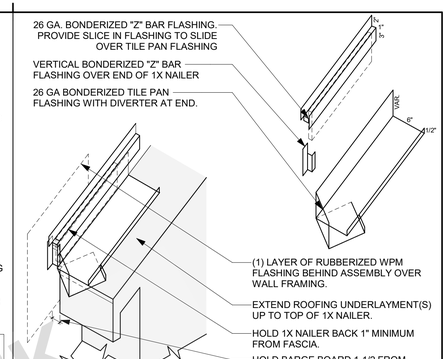
A-902 SCALE: 3" = 1'-0"



NOTE:
ALL EXTERIOR DOOR INSTALLATIONS
SHALL COMPLY WITH
MANUFACTURER/INDUSTRY
STANDARDS AAMA 300-12

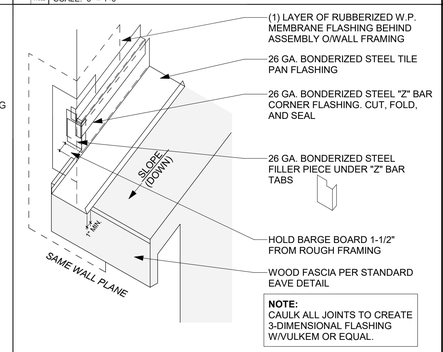
24 FLASHING - JAMB TO SILL TYP.

A-902 SCALE: 3" = 1'-0"



11 ROOF TO WALL TYP. FLASHING 1

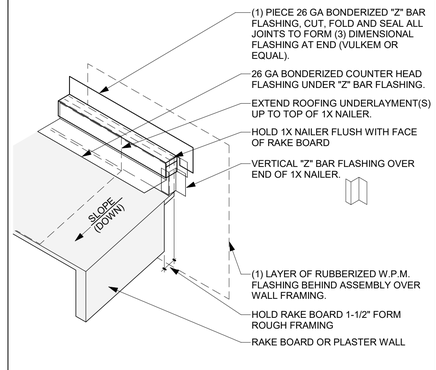
A-902 SCALE: 6" = 1'-0"



NOTE:
CAULK ALL JOINTS TO CREATE
3-DIMENSIONAL FLASHING
W/VULKEM OR EQUAL.

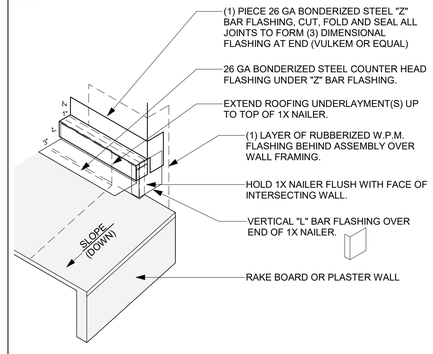
12 ROOF TO WALL TYP. FLASHING 2

A-902 SCALE: 3" = 1'-0"



13 ROOF TO WALL TYP. FLASHING

A-902 SCALE: 3" = 1'-0"



14 ROOF TO WALL TYP. FLASHING

A-902 SCALE: 3" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

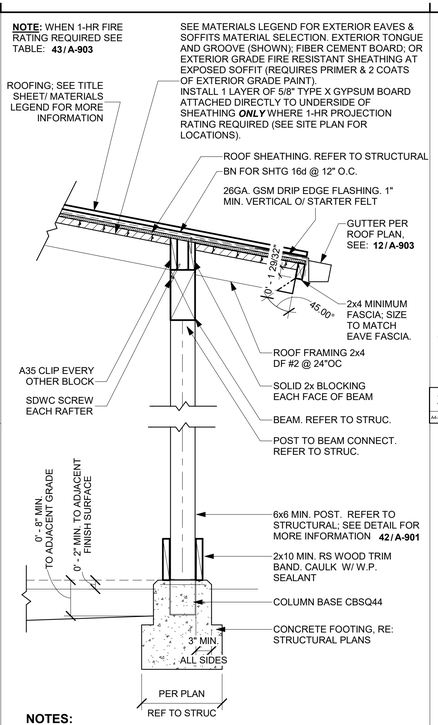
CITY OF WALNUT CREEK

ARCHITECTURAL DETAILS - COMMON

DATE
02/10/2023

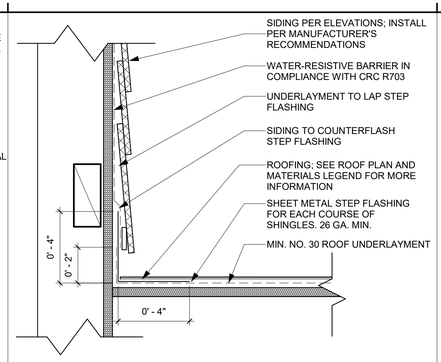
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A-902

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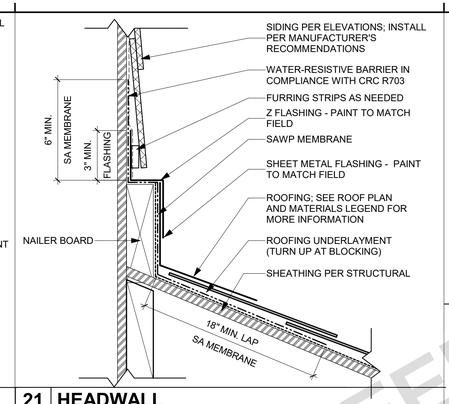


NOTES:
1. CAULK ALL JOINTS.
2. PRIME TRIM ALL SIDES.
3. REQUIRED ON ALL EXPOSED LUMBER, PIMER & 2 COATS OF EXTERIOR GRADE PAINT.

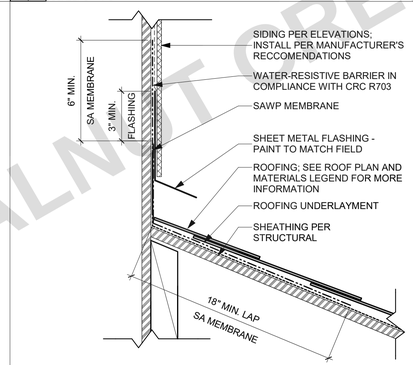
42 TYP. POST & ROOF
A1-121 | A-903 SCALE: 3/4" = 1'-0"



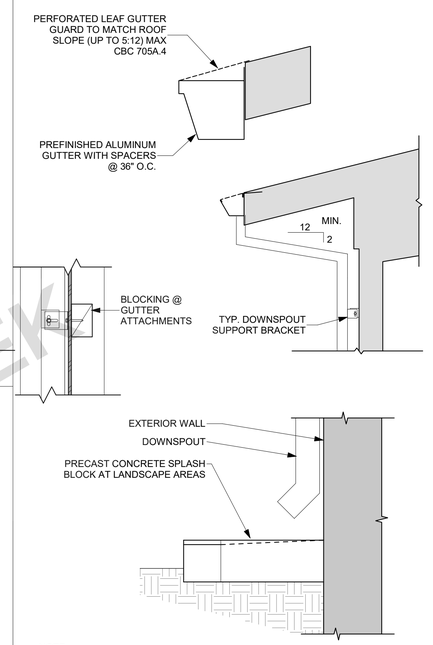
31 SIDE WALL
A4-201 | A-903 SCALE: 3" = 1'-0"



21 HEADWALL
A2-121 | A-903 SCALE: 3" = 1'-0"



22 HEADWALL - VERTICAL SIDING
A3-121 | A-903 SCALE: 3" = 1'-0"



NOTE:
SPLASH BLOCK OCCURS: AT ANY DOWNSPOUT ENDING AT GRADE LEVEL

12 GUTTER TO EXTERIOR DOWNSPOUT
A-903 SCALE: 1/2" = 1'-0"

***ROOF ASSEMBLY REQUIREMENTS ONLY APPLY TO EAVES AND ROOF EXTENSIONS WHERE LESS THAN 5' - 0" FROM PROPERTY LINE OR ASSUMED PROPERTY LINE BETWEEN STRCTURES.**

ROOF ASSEMBLY FIRE RESISTANCE CALCULATION
PER CBC TABLE 722.6.2(1)
& PER CBC 722.6.2(2)

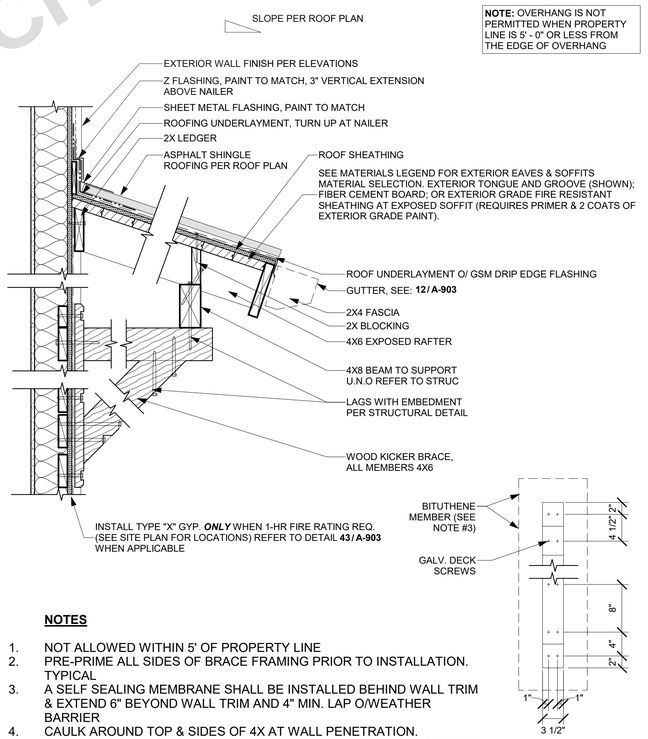
WOOD JOISTS 16" O.C.	10 MIN.
1/2" PLYWOOD	10 MIN.
5/8" TYPE X GYPSUM BOARD	40 MIN.
TOTAL FIRE RESISTANCE	**60 MIN.**

***WALL ASSEMBLY REQUIREMENTS ONLY APPLY WHERE LESS THAN 5'-0" FROM PROPERTY LINE OR ASSUMED PROPERTY LINE BETWEEN STRCUTURES.**

WALL ASSEMBLY FIRE RESISTANCE CALCULATION
PER CBC TABLE 722.6.2(1)
& PER CBC 722.6.2(2)

WOOD STUDS 16" O.C.	20 MIN.
1/2" PLYWOOD	10 MIN.
5/8" TYPE X GYPSUM BOARD	40 MIN.
TOTAL FIRE RESISTANCE	**70 MIN.**

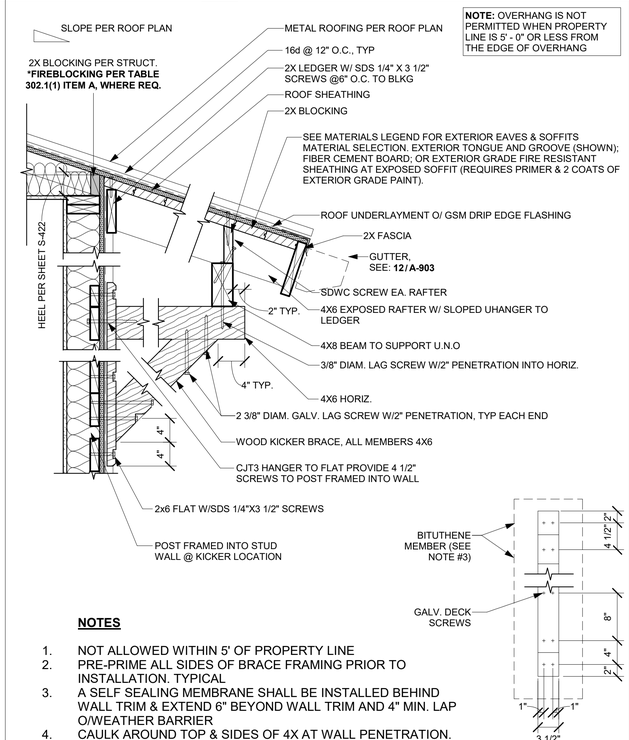
43 CALC. FIRE RESISTANCE RATING
A-903 SCALE: 12" = 1'-0"



NOTES

1. NOT ALLOWED WITHIN 5' OF PROPERTY LINE
2. PRE-PRIME ALL SIDES OF BRACE FRAMING PRIOR TO INSTALLATION. TYPICAL
3. A SELF SEALING MEMBRANE SHALL BE INSTALLED BEHIND WALL TRIM & EXTEND 6" BEYOND WALL TRIM AND 4" MIN. LAP O/WEATHER BARRIER
4. CAULK AROUND TOP & SIDES OF 4X AT WALL PENETRATION.
5. A BITUTHENE MEMBRANE SHALL BE INSTALLED BEHIND 4X6 BRACE W/ 4" LAP MIN.

34 SHED ROOF W/ KICKER
A2-121 | A-903 SCALE: 1" = 1'-0"



NOTES

1. NOT ALLOWED WITHIN 5' OF PROPERTY LINE
2. PRE-PRIME ALL SIDES OF BRACE FRAMING PRIOR TO INSTALLATION. TYPICAL
3. A SELF SEALING MEMBRANE SHALL BE INSTALLED BEHIND WALL TRIM & EXTEND 6" BEYOND WALL TRIM AND 4" MIN. LAP O/WEATHER BARRIER
4. CAULK AROUND TOP & SIDES OF 4X AT WALL PENETRATION.
5. A BITUTHENE MEMBRANE SHALL BE INSTALLED BEHIND 4X6 BRACE W/ 4" LAP MIN.

24 SHED ROOF WITH KICKER @ METAL ROOF
A2-123 | A-903 SCALE: 1" = 1'-0"

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

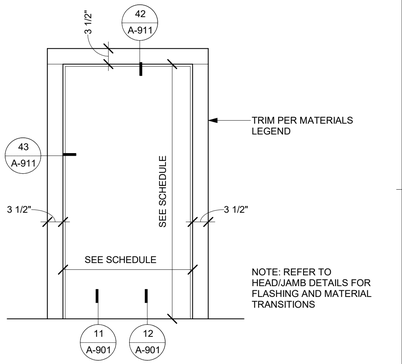
ARCHITECTURAL DETAILS - COMMON ROOF

DATE
02/10/2023

SHEET
A-903

FOR USE IN THE CITY OF WALNUT CREEK

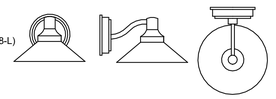
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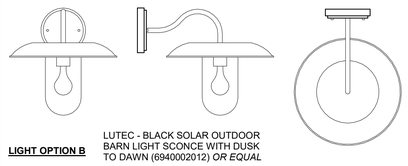
41 DOOR TRIM - CAL RANCH

A-911 SCALE: 3/4" = 1'-0"

THE GREAT OUTDOORS - WALL MOUNT KIRKHAM ASPEN BRONZE (8102-A138-L) *OR EQUAL*



LIGHT OPTION A



LIGHT OPTION B

LUTEC - BLACK SOLAR OUTDOOR BARN LIGHT SCONCE WITH DUSK TO DAWN (6940002012) *OR EQUAL*

NOTE: ALL EXTERIOR LIGHTS MUST BE ON A MANUAL SWITCH AND MUST COMPLY WITH ALL SINGLE FAMILY RESIDENTIAL MANDATORY REQUIREMENTS SUMMARY SECTION:

150.0(K)1A - LUMINARE EFFICACY

150.0(K)1D - LIGHT SOURCES IN ENCLOSED RECESSED LUMINARES

150.0(K)2E - AUTOMATIC SHUTOFF CONTROLS

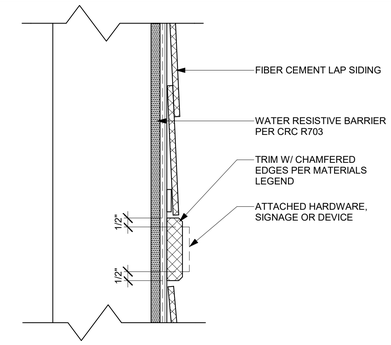
150.0(K)3A - RESIDENTIAL OUTDOOR LIGHTING *(2022 CEnC 150.0(k)3)*.

IN ADDITION TO MEETING THE REQUIREMENTS OF SECTION 150.0(K)1A, LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:

A. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
   1. CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND
   2. CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR
   3. CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL **NOTE:** CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

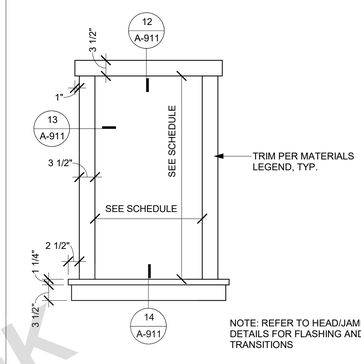
32 LIGHT FIXTURE - CAL RANCH

A-911 SCALE: 1 1/2" = 1'-0"



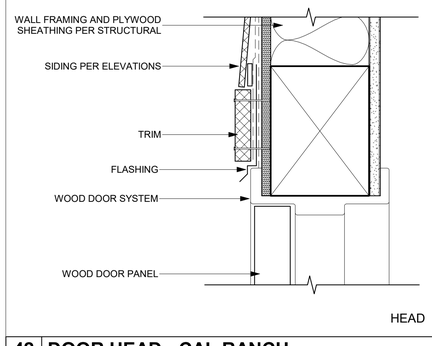
21 FIBER CEMENT - LAP - MOUNTING PAD

A-911 SCALE: 3" = 1'-0"



11 WINDOW TRIM - CAL. RANCH

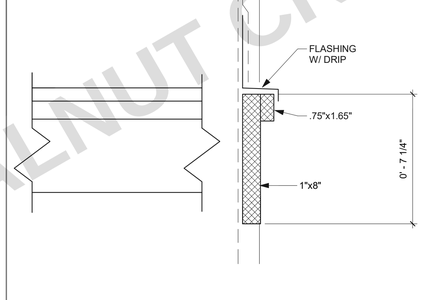
A-201 A-911 SCALE: 3/4" = 1'-0"



HEAD

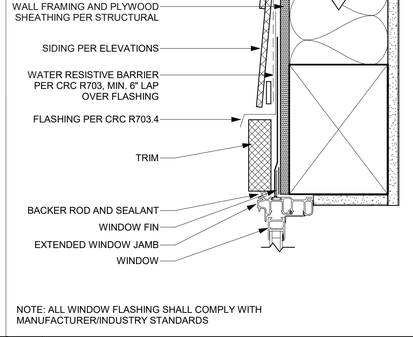
42 DOOR HEAD - CAL RANCH

A-911 A-911 SCALE: 3" = 1'-0"



22 CALIFORNIA RANCH - TRIM PROFILE

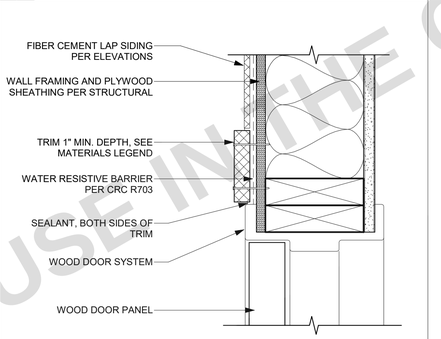
A-201 A-911 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

12 TYP. WINDOW HEAD

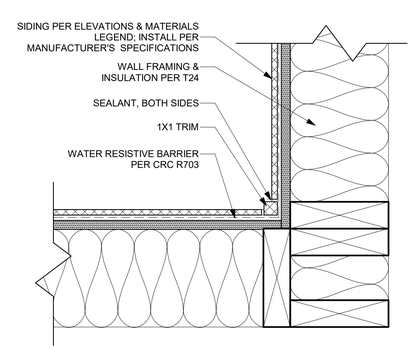
A-911 A-911 SCALE: 3" = 1'-0"



JAMB

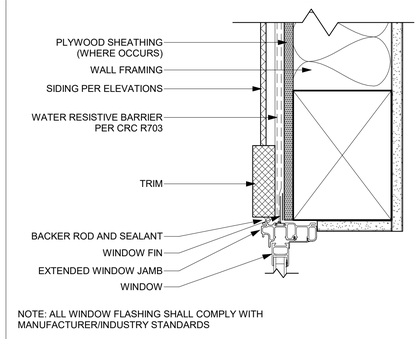
43 DOOR JAMB - CAL RANCH

A-911 A-911 SCALE: 3" = 1'-0"



23 TYP. INSIDE CORNER - CAL. RANCH

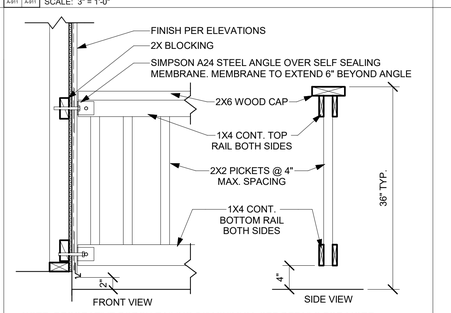
A-911 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

13 TYP. WINDOW JAMB

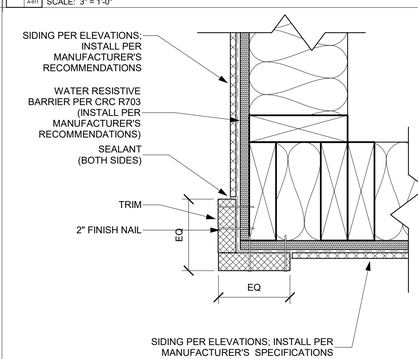
A-911 A-911 SCALE: 3" = 1'-0"



NOTE: DECORATIVE PORCH RAILING 24" MINIMUM, SEE DETAILS FOR MORE INFORMATION. THERE SHALL BE NO MORE THAN 30 INCHES MEASURED VERITCALLY TO THE FLOOR OR GRADE BELOW, (INCLUDING FLOORS, STAIRS, RAMPS, AND LANDINGS) ANYWHERE MEASURED LESS THAN 36 INCHES HORIZONTALLY TO THE EDGE OF THE PORCH/SLAB/SURFACE OF THE RAIL. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD

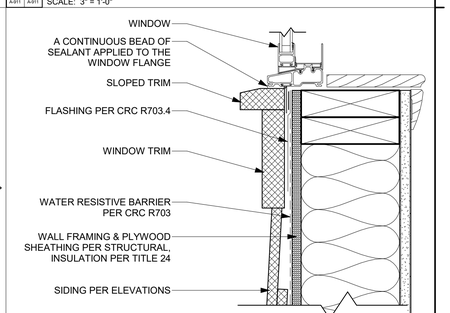
44 DECORATIVE PORCH RAILING

A-911 SCALE: 1" = 1'-0"



24 TYP. OUTSIDE CORNER - CAL. RANCH

A-201 A-911 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS AAMA 2400-02

14 TYP. WINDOW SILL

A-911 A-911 SCALE: 3" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

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WALNUT CREEK ADU

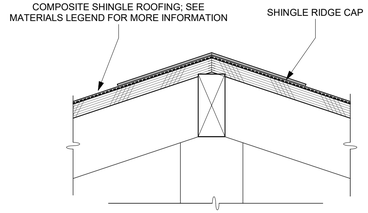
CITY OF WALNUT CREEK

ARCHITECTURAL DETAILS - CALIFORNIA RANCH

DATE
02/10/2023

SHEET
A-911

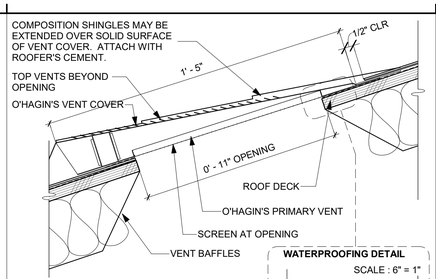
11/20/2023 1:47:44 PM
C:\Users\jcox\Documents\2264-01-CU21_Walnut Creek ADU_Central 2022_jcox9EWTU.rvt



NOTE: INSTALL ROOFING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS

51 RIDGE/HIP DETAIL

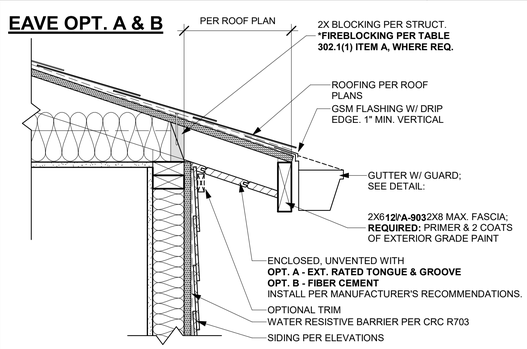
A1-121 | A912 SCALE: 3" = 1'-0"



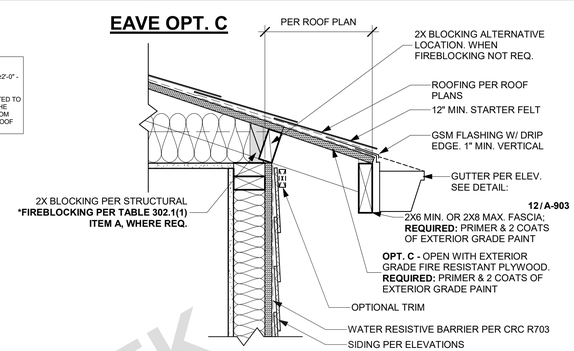
41 O'HAGIN ROOF VENT

A912 SCALE: 3" = 1'-0"

NOTE: INSTALL PER MANUFACTURER'S RECCOMENDATIONS



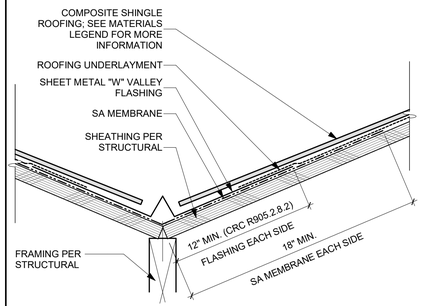
*NOTE: WHERE 1-HR FIRE-RESISTANCE RATED PROJECTIONS REQUIRED (NON-SPRINKLERED & FIRE SEPARATION DISTANCE ≥2'-0" - <5'-0") TABLE 302.1(1) A, THE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE OVERHANG IF FIREBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATING



31 CALIFORNIA RANCH - EAVE

A1-121 | A912 SCALE: 1 1/2" = 1'-0"

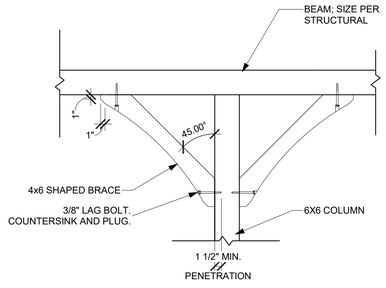
NOTE: INSTALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS, TYP.



NOTE: INSTALL ROOFING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS

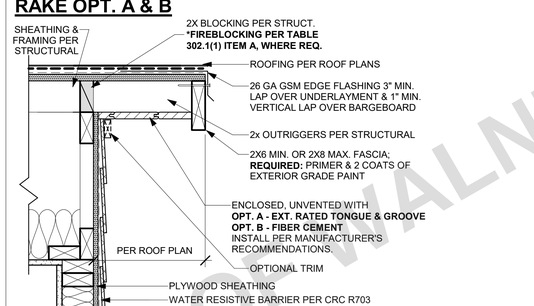
52 VALLEY DETAIL

A2-121 | A912 SCALE: 3" = 1'-0"

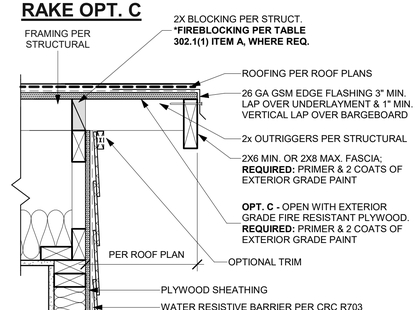


42 BRACE - CALIFORNIA RANCH

A1-201 | A912 SCALE: 3/4" = 1'-0"



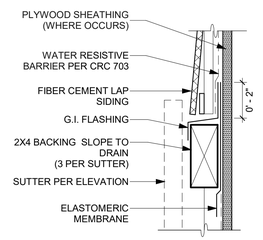
*NOTE: WHERE 1-HR FIRE-RESISTANCE RATED PROJECTIONS REQUIRED (NON-SPRINKLERED & FIRE SEPARATION DISTANCE ≥2'-0" - <5'-0") TABLE 302.1(1) A, THE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE OVERHANG IF FIREBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATING



32 CALIFORNIA RANCH - RAKE

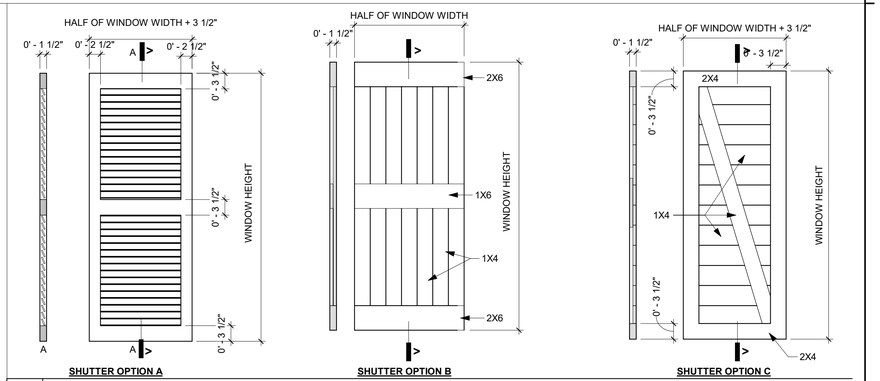
A1-121 | A912 SCALE: 1 1/2" = 1'-0"

NOTE: INSTALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS, TYP.



33 CAL. RANCH - DECORATIVE SHUTTER

A3-201 | A912 SCALE: 3" = 1'-0"



23 CALIFORNIA RANCH - DECORATIVE SHUTTER

A1-201 | A912 SCALE: 3/4" = 1'-0"

FOR FLASHING SEE DETAIL: 33/A-912

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

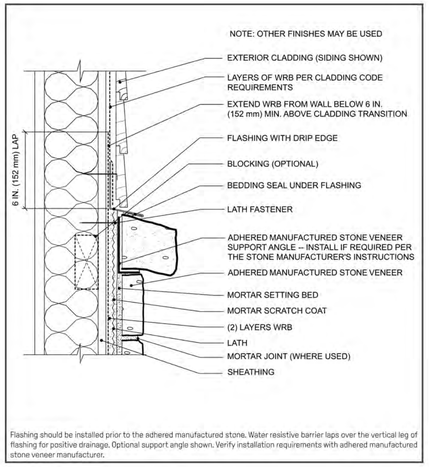
ARCHITECTURAL DETAILS - CALIFORNIA RANCH - ROOF

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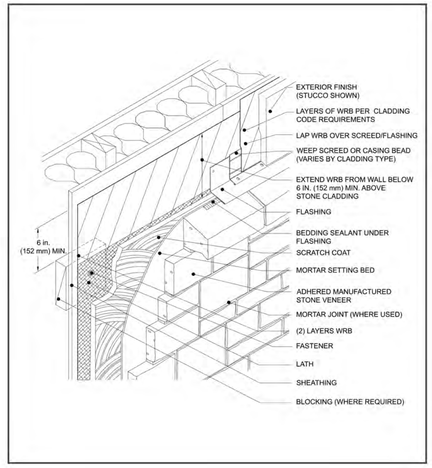
Figure 8a. Cladding Transition



Flashing should be installed prior to the adhered manufactured stone. Water resistive barrier laps over the vertical leg of flashing for positive drainage. Optional support angle shown. Verify installation requirements with adhered manufactured stone veneer manufacturer.

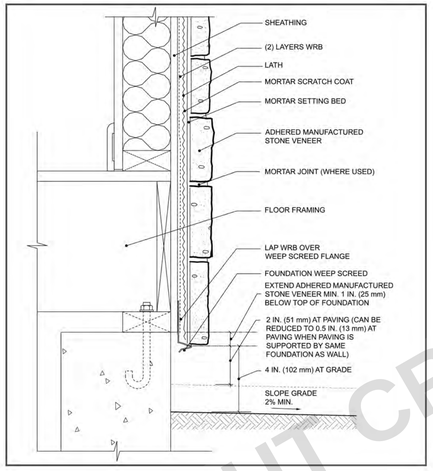
DISCLAIMER: EL DORADO STONE DETAILS HAVE BEEN INCLUDED **FOR REFERENCE ONLY**. REFER AND INSTALL ADHERED MASONRY FROM THE SELECTED MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.

Figure 3. Wall Assembly Transition



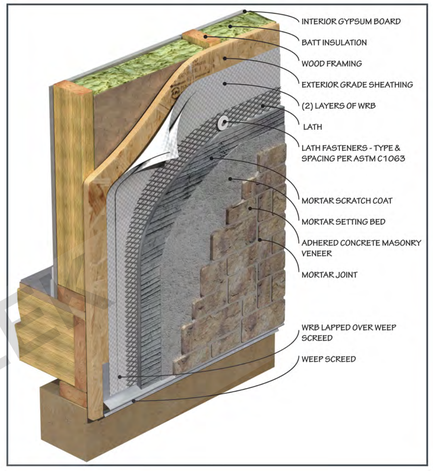
DISCLAIMER: EL DORADO STONE DETAILS HAVE BEEN INCLUDED **FOR REFERENCE ONLY**. REFER AND INSTALL ADHERED MASONRY FROM THE SELECTED MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.

Figure 5a. Foundation Wall Base



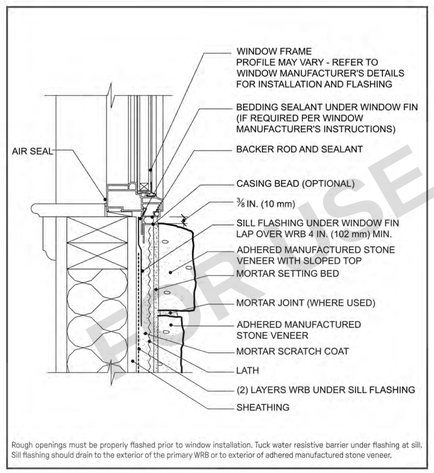
DISCLAIMER: EL DORADO STONE DETAILS HAVE BEEN INCLUDED **FOR REFERENCE ONLY**. REFER AND INSTALL ADHERED MASONRY FROM THE SELECTED MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.

Figure 1. Installation Over Wood Framing



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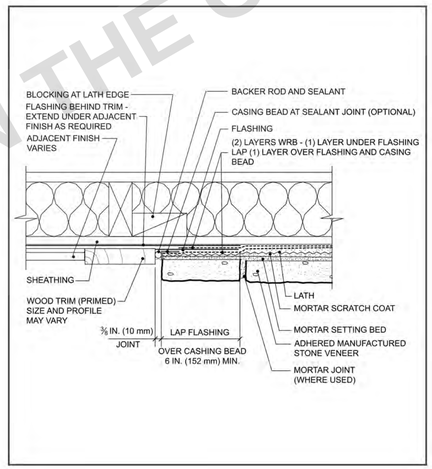
Figure 21a. Window Sill



Rough openings must be properly flashed prior to window installation. Tuck water resistive barrier under flashing at sill. Sill flashing should drain to the exterior of the primary WRB or to exterior of adhered manufactured stone veneer.

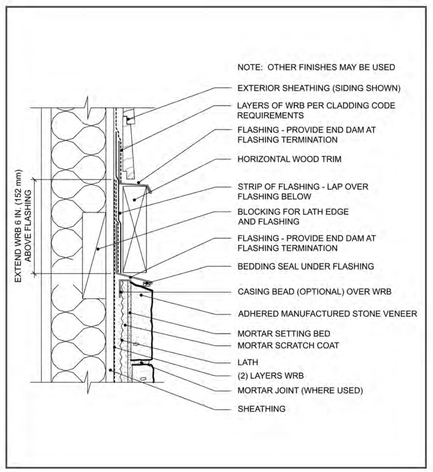
DISCLAIMER: EL DORADO STONE DETAILS HAVE BEEN INCLUDED **FOR REFERENCE ONLY**. REFER AND INSTALL ADHERED MASONRY FROM THE SELECTED MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.

Figure 12a. Vertical Transition



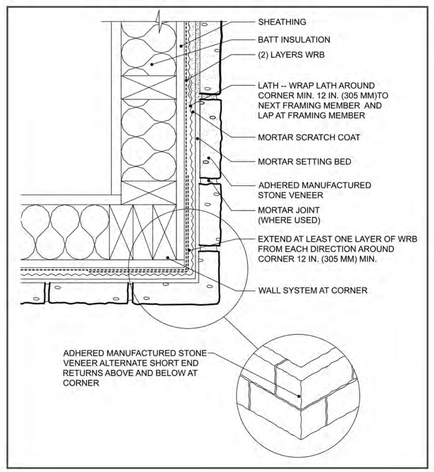
DISCLAIMER: EL DORADO STONE DETAILS HAVE BEEN INCLUDED **FOR REFERENCE ONLY**. REFER AND INSTALL ADHERED MASONRY FROM THE SELECTED MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS.

Figure 11a. Horizontal Transition



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Figure 9a. Outside Corner



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FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

ARCHITECTURAL DETAILS - CALIFORNIA RANCH

DATE

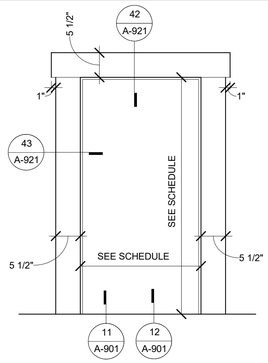
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A-913

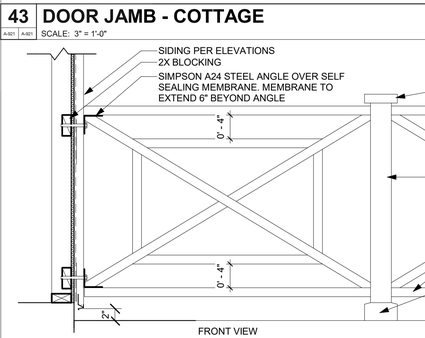
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NOTE: REFER TO HEAD/JAMB DETAILS FOR FLASHING AND MATERIAL TRANSITIONS



41 COTTAGE DOOR TRIM

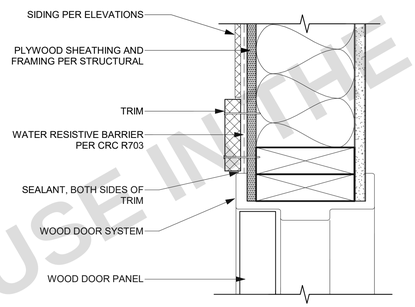
A-921 SCALE: 3/4" = 1'-0"



HEAD

42 DOOR HEAD - COTTAGE

A-921 A-921 SCALE: 3" = 1'-0"

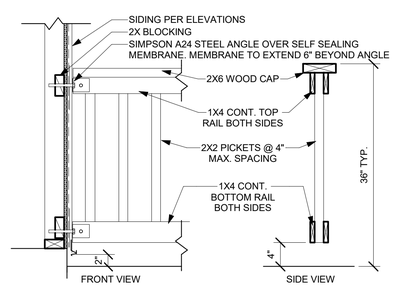


JAMB

43 DOOR JAMB - COTTAGE

A-921 A-921 SCALE: 3" = 1'-0"

OPTION A DECORATIVE "X" PORCH RAILING



OPTION B DECORATIVE PORCH RAILING

NOTE: DECORATIVE PORCH RAILING 24" MINIMUM, SEE DETAILS FOR MORE INFORMATION. THERE SHALL BE NO MORE THAN 30 INCHES MEASURED VERITCALLY TO THE FLOOR OR GRADE BELOW, (INCLUDING FLOORS, STAIRS, RAMPS, AND LANDINGS) ANYWHERE MEASURED LESS THAN 36 INCHES HORIZONTALLY TO THE EDGE OF THE PORCH/SLAB/SURFACE OF THE RAIL. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD

44 DECORATIVE PORCH RAILING

A1-101 A-921 SCALE: 1" = 1'-0"

LNC - MODERN FROSTED BLACK PORCH OUTDOOR WALL SCONCE WITH MUSHROOM CLEAR SEEDED GLASS SHADE (VAFNYAHD13356V6) *OR EQUAL*



LIGHT OPTION A

HAMPTON BAY- BLACK OUTDOOR WALL LANTERN SCONCE (JBO1691A-4) *OR EQUAL*



LIGHT OPTION B

NOTE: ALL EXTERIOR LIGHTS MUST BE ON A MANUAL SWITCH AND MUST COMPLY WITH ALL SINGLE FAMILY RESIDENTIAL MANDATORY REQUIREMENTS SUMMARY SECTION:

150.0(K)1A - LUMINARE EFFICACY

150.0(K)1D - LIGHT SOURCES IN ENCLOSED RECESSED LUMINARES

150.0(K)2E - AUTOMATIC SHUTOFF CONTROLS

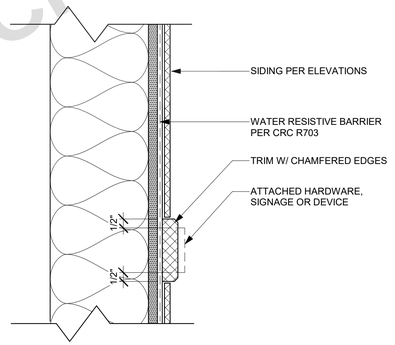
150.0(K)3A - RESIDENTIAL OUTDOOR LIGHTING *(2022 CEnC 150.0(k)3)*.

IN ADDITION TO MEETING THE REQUIREMENTS OF SECTION 150.0(K)1A, LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:

A. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
   1. CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND
   2. CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR
   3. CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
   NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

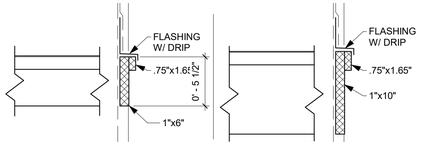
32 COTTAGE - LIGHT FIXTURE

A-921 A-921 SCALE: 1 1/2" = 1'-0"



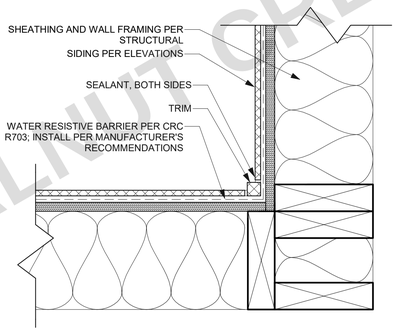
33 COTTAGE - FIBER CEM. MOUNTING PAD

A-921 A-921 SCALE: 3" = 1'-0"



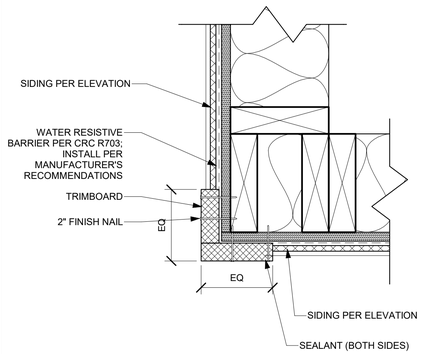
21 COTTAGE - TRIM PROFILE

A1-202 A-921 SCALE: 1 1/2" = 1'-0"



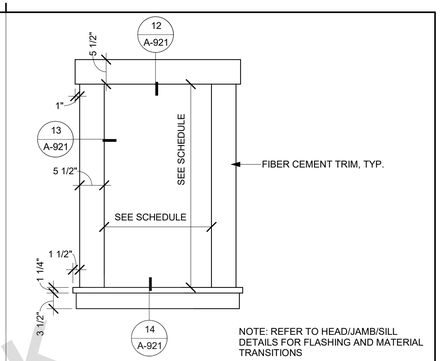
22 COTTAGE - TYP. INSIDE CORNER

A-921 SCALE: 3" = 1'-0"



23 COTTAGE - TYP. OUTSIDE CORNER

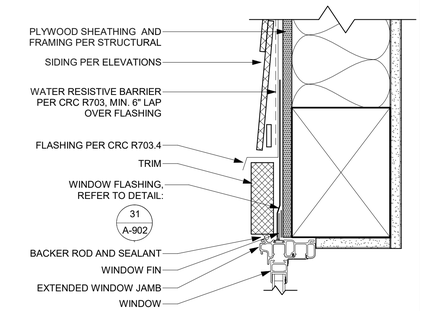
A1-202 A-921 SCALE: 3" = 1'-0"



NOTE: REFER TO HEAD/JAMB/SILL DETAILS FOR FLASHING AND MATERIAL TRANSITIONS

11 COTTAGE - WINDOW TRIM

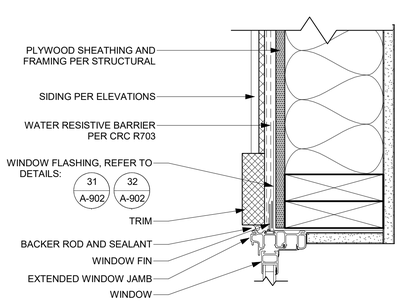
A1-202 A-921 SCALE: 3/4" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

12 COTTAGE - TYP. WINDOW HEAD

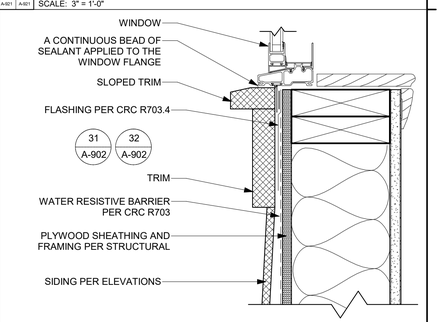
A-921 A-921 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

13 COTTAGE - TYP. WINDOW JAMB

A-921 A-921 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS AAMA 2400-02

14 COTTAGE - TYP. WINDOW SILL

A-921 A-921 SCALE: 3" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

ARCHITECTURAL DETAILS - COTTAGE

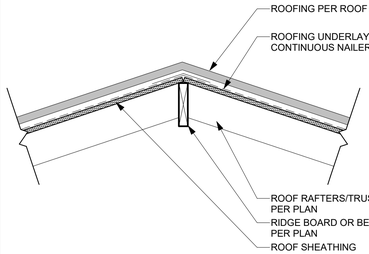
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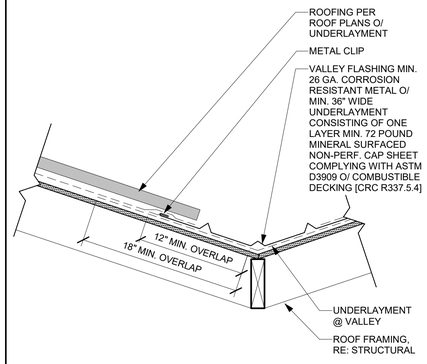
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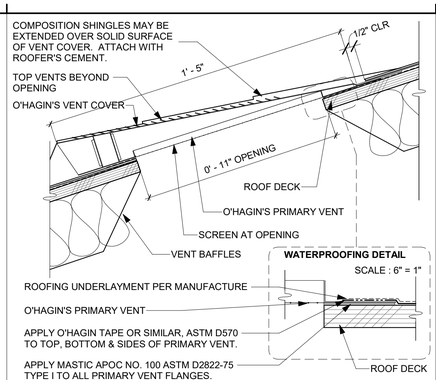
51 COTTAGE - ROOF - HIP/RIDGE

A-922 SCALE: 1" = 1'-0"



52 COTTAGE - ROOF - VALLEY

A-922 SCALE: 1 1/2" = 1'-0"

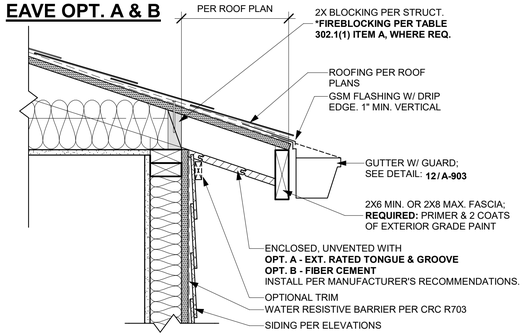


41 O'HAGIN ROOF VENT

A-922 SCALE: 3" = 1'-0"

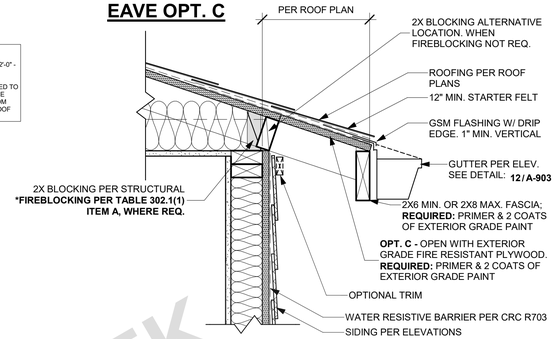
NOTE: INSTALL PER MANUFACTURER'S RECCOMENDATIONS

EAVE OPT. A & B



*NOTE: WHERE 1-HR FIRE-RESISTANCE RATED PROJECTIONS REQUIRED (NON-SPRINKLERED & FIRE SEPARATION DISTANCE ≥2'-0" - <5'-0") [TABLE 302.1(1)] A. THE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE OVERHANG IF FIREBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATING

EAVE OPT. C



31 COTTAGE - EAVE

A1-122 A-922 SCALE: 1 1/2" = 1'-0"

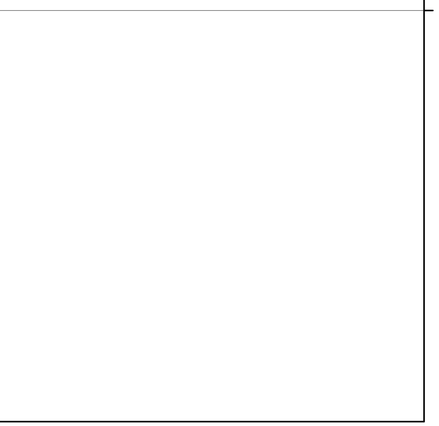
NOTE: INSTALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS, TYP.

RAKE OPT. A & B



*NOTE: WHERE 1-HR FIRE-RESISTANCE RATED PROJECTIONS REQUIRED (NON-SPRINKLERED & FIRE SEPARATION DISTANCE ≥2'-0" - <5'-0") [TABLE 302.1(1)] A. THE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE OVERHANG IF FIREBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATING

RAKE OPT. C



32 COTTAGE - RAKE

A1-122 A-922 SCALE: 1 1/2" = 1'-0"

NOTE: INSTALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS, TYP.

FOR USE IN THE CITY OF WALNUT CREEK

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WALNUT CREEK ADU

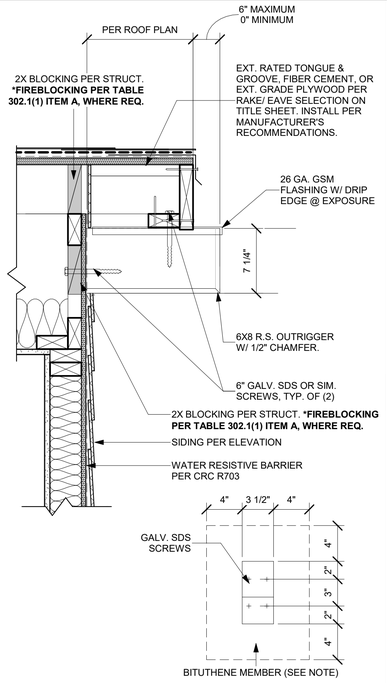
CITY OF WALNUT CREEK

ARCHITECTURAL DETAILS - COTTAGE - ROOF

DATE
02/10/2023

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A-922

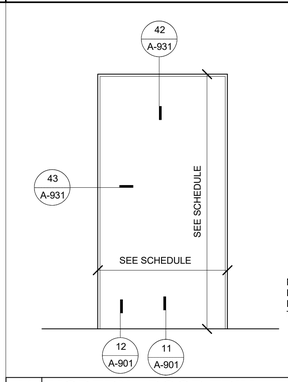
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NOTES:
1. PRE-PRIME ALL SIDES OF BRACE PRIOR TO INSTALLATION.
2. A BITUTHENE MEMBRANE SHALL BE INSTALLED BEHIND OUTRIGGER W/ 4" LAP MIN.

52 MODERN - OUTRIGGER

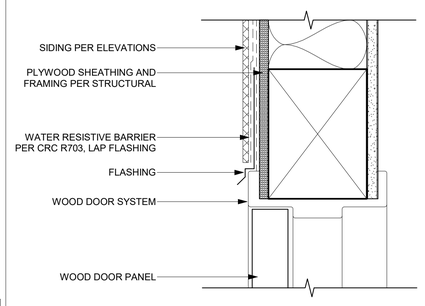
A1/203 A/901 SCALE: 1 1/2" = 1'-0"



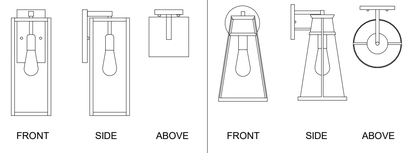
NOTE: REFER TO HEAD/JAMB DETAILS FOR FLASHING AND MATERIAL TRANSITIONS

41 MODERN - DOOR TRIM

A/901 SCALE: 3/4" = 1'-0"



HEAD



HAMPTON BAY HURLEY MODERN MATTE BLACK OUTDOOR WALL LANTERN SCONCE (44833) *OR EQUAL*

LIGHT OPTION A

ROBERT STEVENSON LIGHTING - JAXON AGED TUSCAN OUTDOOR METAL AND SEEDY GLASS WALL SCONCE (EC1323C) *OR EQUAL*

LIGHT OPTION B

NOTE: ALL EXTERIOR LIGHTS MUST BE ON A MANUAL SWITCH AND MUST COMPLY WITH ALL SINGLE FAMILY RESIDENTIAL MANDATORY REQUIREMENTS SUMMARY SECTION:

150.0(K)1A - LUMINARE EFFICACY

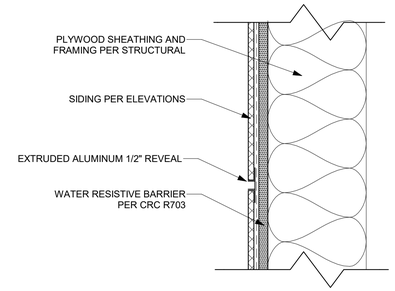
150.0(K)1D - LIGHT SOURCES IN ENCLOSED RECESSED LUMINARES

150.0(K)2E - AUTOMATIC SHUTOFF CONTROLS

150.0(K)3A - RESIDENTIAL OUTDOOR LIGHTING *(2022 CEnC 150.0(k)3)*.

IN ADDITION TO MEETING THE REQUIREMENTS OF SECTION 150.0(K)1A, LUMINAIRES PROVIDING RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:

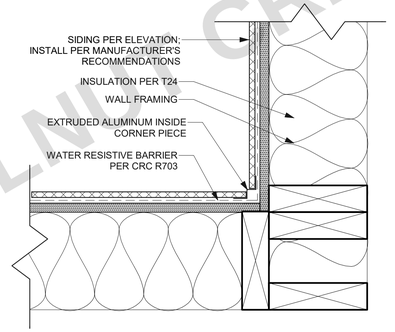
A. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
   1. CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND
   2. CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR
   3. CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
   NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

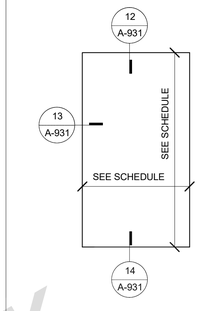


MODERN - ALUMINUM REVEAL

21 @ FIBER CEMENT PANELS

A2-203 A/901 SCALE: 3" = 1'-0"

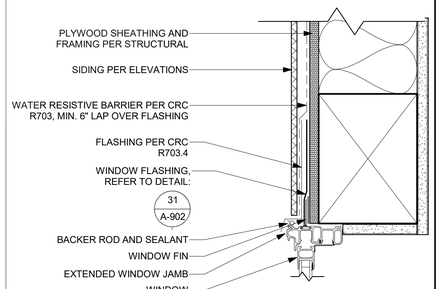




NOTE: REFER TO HEAD/JAMB/SILL DETAILS FOR FLASHING AND MATERIAL TRANSITIONS

11 MODERN - WINDOW TRIM

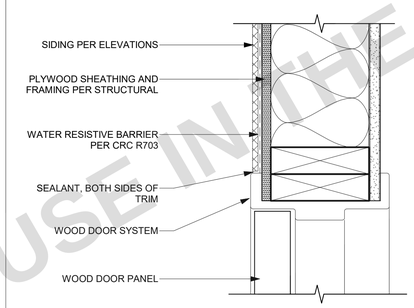
A2-203 A/901 SCALE: 3/4" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

42 DOOR HEAD - MODERN

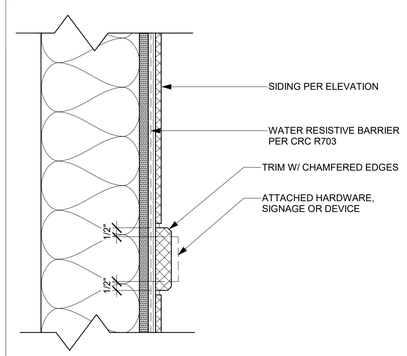
A/901 A/901 SCALE: 3" = 1'-0"



JAMB

43 DOOR JAMB - MODERN

A/901 A/901 SCALE: 3" = 1'-0"

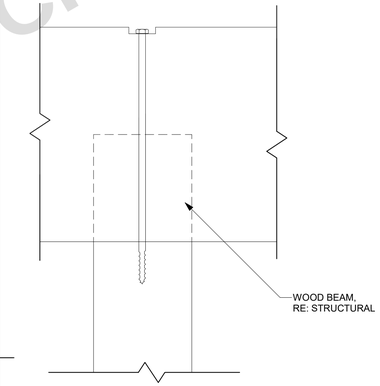


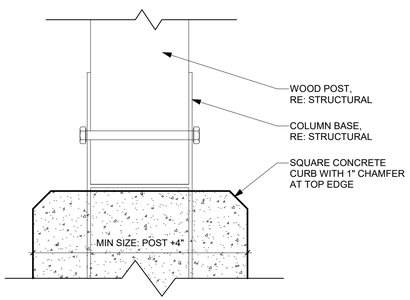
44 MODERN - MOUNTING PAD

A/901 SCALE: 3" = 1'-0"

32 MODERN - LIGHT FIXTURE

A/901 SCALE: 1 1/2" = 1'-0"



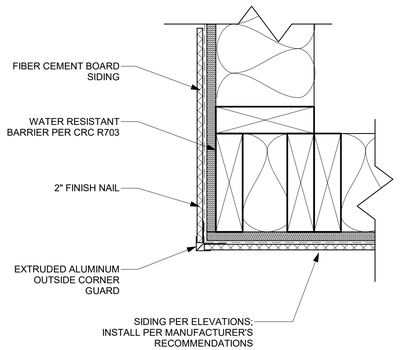


34 MODERN - POST

A1-203 A/901 SCALE: 3" = 1'-0"

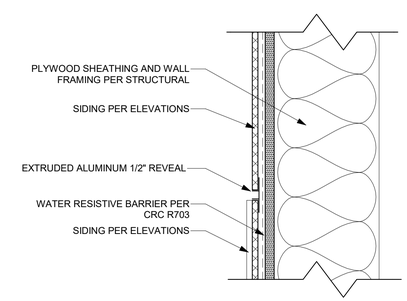
22 TYP. INSIDE CORNER-MODERN

A/901 SCALE: 3" = 1'-0"



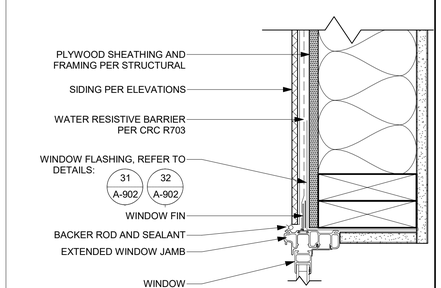
23 MODERN - TYP. OUTSIDE CORNER

A1-203 A/901 SCALE: 3" = 1'-0"



24 MATERIAL TRANSITION - MODERN

A1-203 A/901 SCALE: 3" = 1'-0"



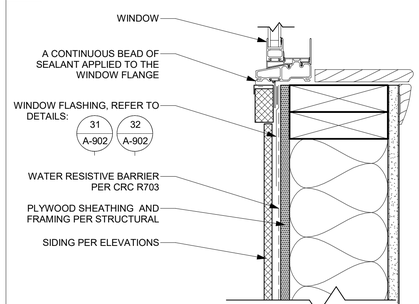
NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

12 MODERN - TYP. WINDOW HEAD

A/901 A/901 SCALE: 3" = 1'-0"

13 MODERN - TYP. WINDOW JAMB

A/901 A/901 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS AAMA 2400-02

14 MODERN - TYP. WINDOW SILL

A/901 A/901 SCALE: 3" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

ARCHITECTURAL DETAILS - MODERN

DATE

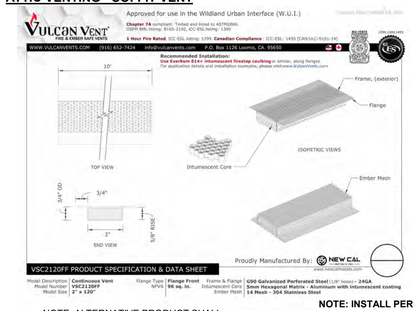
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ATTIC VENTING - SOFFIT VENT



Model Description	Continuous Vent	Flange Type	Flange Front
Model Number	VSC2120FF	NFVA	99 sq. in.
Model Size	2" x 120"		
Flame & Flange	G90 Galvanized Perforated Steel (no holes) - 24GA.
Intumescent Core	Sinco Hexagonal Matrix - Aluminum with intumescent coating
Ember Mesh	14 Mesh - 304 Stainless Steel

NOTE: ALTERNATIVE PRODUCT SHALL SUPPLY EQUAL OR GREATER NFVA

NOTE: INSTALL PER MANUFACTURER'S RECCOMENDATIONS

NOTE: TO BE APPLIED WITH ATTIC VENTING OPTION A

51 VULCAN SOFFIT VENT (2") VSC2120FF

A1-123 A-932 SCALE: 6" = 1'-0"

ATTIC VENTING - DORMER VENT

Model Description	Standard Dormer Vent	Flange Type	Sub Base
Model Number	VDLR419	NFVA	53 sq. in.
Model Size	4 1/2" x 19"		
Hood & Flange	G90 Galvanized Steel - 26GA.
Frame (2#2)	G90 Galvanized Perforated Steel - 24GA.
Intumescent Core	Sinco Hexagonal Matrix - Aluminum with intumescent coating
Ember Mesh	14 Mesh - 304 Stainless Steel

NOTE: ALTERNATIVE PRODUCT SHALL SUPPLY EQUAL OR GREATER NFVA

NOTE: INSTALL PER MANUFACTURER'S RECCOMENDATIONS

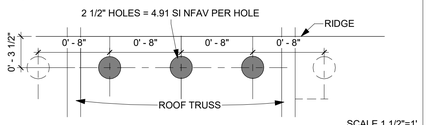
NOTE: TO BE APPLIED WITH ATTIC VENTING OPTION B

52 VULCAN DORMER VENT VDLR419

A-932 SCALE: 12" = 1'-0"

ATTIC VENTING - RIDGE VENT

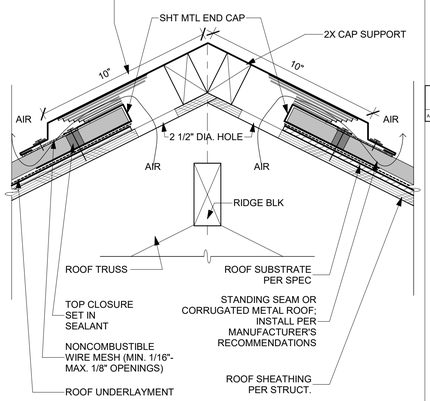
SEE ROOF PLAN AND ROOF VENTILATION CALCS.
FOR VENT SIZES, LOCATIONS, AND NFVA



120" / 8" (X) 4.91 = 73.65 > 50 NFA

VENTILATION HOLE LAYOUT

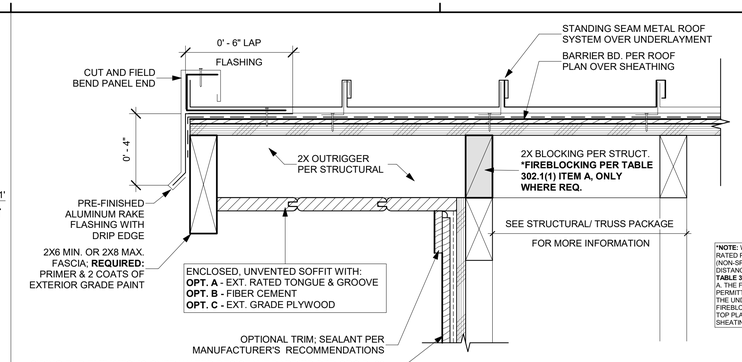
SHEET METAL RIDGE CAP BY ROOFING MANUF. SHALL BE CONSISTENT FOR ALL RIDGES WHETHER VENTED OR NOT



NOTE: TO BE APPLIED WITH VENTING OPTION A

MODERN - METAL ROOF RIDGE
42 WITH RIDGE VENT

A1-123 A-932 SCALE: 3" = 1'-0"

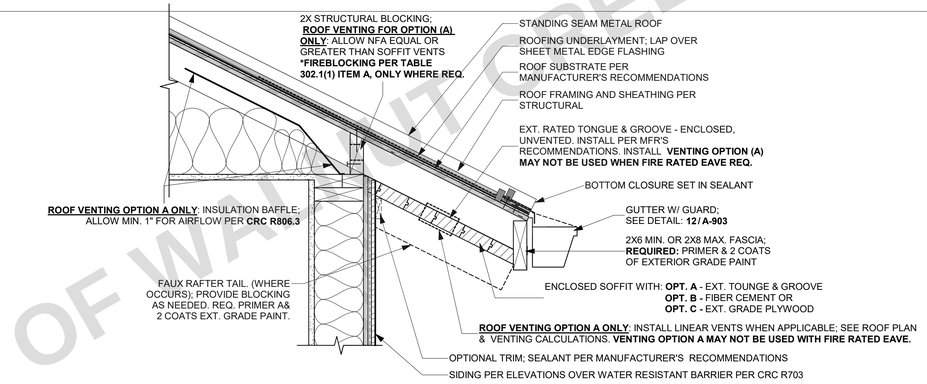


*NOTE: WHERE 1-HR FIRE-RESISTANCE RATED PROJECTIONS REQUIRED (NON-SPRINKLERED & FIRE SEPARATION DISTANCE ≥2'-0" - <5'-0") TABLE 302.1(1)
A. THE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE OVERHANG IF FIRBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATING

31 MODERN - RAKE - STANDING SEAM METAL

A1-123 A-932 SCALE: 3" = 1'-0"

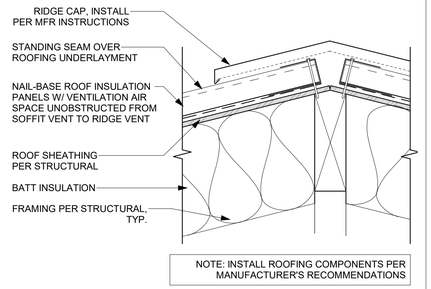
NOTE: INSTALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS, TYP.



32 MODERN - STANDING SEAM METAL - EAVE

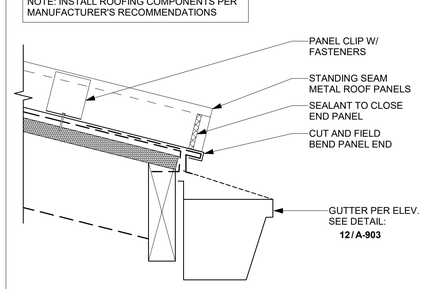
A1-123 A-932 SCALE: 1 1/2" = 1'-0"

NOTE: INSTALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS, TYP.



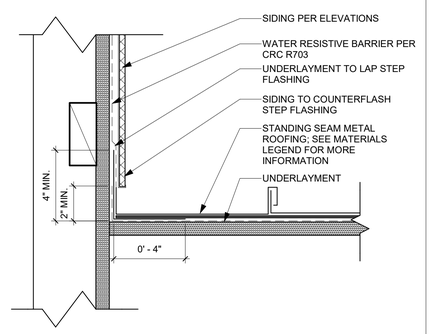
STANDING SEAM - ROOF HIP/RIDGE
23 WITHOUT RIDGE VENT

A1-123 A-932 SCALE: 1 1/2" = 1'-0"



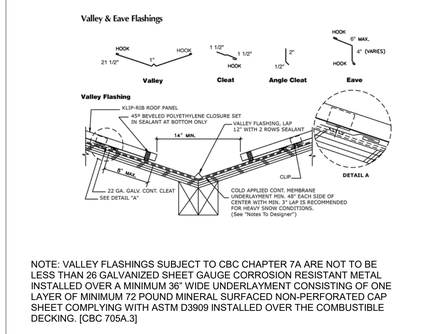
13 STANDING SEAM - EAVE (ENLARGED)

A-932 SCALE: 3" = 1'-0"



24 MODERN - SIDEWALL

A1-123 A-932 SCALE: 3" = 1'-0"



NOTE: VALLEY FLASHINGS SUBJECT TO CBC CHAPTER 7A ARE NOT TO BE LESS THAN 26 GALVANIZED SHEET GAUGE CORROSION RESISTANT METAL INSTALLED OVER A MINIMUM 36" WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF MINIMUM 72 POUND MINERAL SURFACED NON-PERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING. [CBC 705A.3]

14 MODERN - METAL ROOF VALLEY

A-932 SCALE: 1" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK
ARCHITECTURAL DETAILS - MODERN - ROOF

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SYMBOLS

DETAIL REFERENCE BUBBLE WITH LEADER

DETAIL REFERENCE BUBBLE

FULL HEIGHT SECTION INDICATOR

ELEVATION OF WALL OR FRAME

NORTH ARROW

BOT OF
EL = (-X'-X")

TOP/BOTTOM OF ELEVATIONS

SLOPE

WELDED WIRE FABRIC
(WWF LAYER)

STEPPED SURFACE; FLOOR DEPRESSION

SLOPED SURFACE

STEPPED FOOTING

BOTTOM STEPPED FOOTING

XX'-X"
X

INDICATES SHEAR WALL TYPE AND LENGTH, PER SHEAR WALL SCHEDULE

INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTHERS)

XX

INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH WEB STIFFENER

XX

INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST

INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT

INDICATES HEADER @ OPENING PER HEADER SCHEDULE

EARTH LAYER

INDICATES SAND OR GROUT

INDICATES GRAVEL

STEEL IN CROSS SECTION

INDICATES BEARING WALL

SHADED AREA INDICATES CALIFORNIA FRAMING

SHADED AREA INDICATES FOOTPRINT OF FLOOR ABOVE

STEEL HSS TUBE COLUMN

STEEL HSS OR PIPE COLUMN

WIDE FLANGE STEEL COLUMN

WOOD POST

X

INDICATES TOP PLATE SPLICE NAILING PER SCHEDULE

Ix

INDICATES SHEAR WALL STRAP / HOLDOWN TYPE PER SCHEDULE

F1

INDICATES PAD FOOTING TYPE PER SCHEDULE

C1

INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE

ANGLE BRACE

(2L)

DOUBLE ANGLE BRACE

DRAG STRUT CONNECTION

FULL HEIGHT STIFFENER CONNECTION

MOMENT CONNECTION

MEMBER SPLICE

(+3")

TOP OF STEEL ± ELEVATION

[X]

NUMBER OF EVENLY SPACED
SHEAR STUDS

[X–Y–Z]

SPECIAL STUD SPACING SEE TYPICAL
STEEL DETAILS

<3/4>

BEAM CAMBER AT MID-SPAN

WALL TYPES

INDICATES PLYWOOD SIDE FOR SHEARWALL

INDICATES BEARING WOOD WALL BELOW

INDICATES BEARING WOOD WALL ABOVE

INDICATES NON-BEARING WOOD WALL BELOW

INDICATES NON-BEARING WOOD WALL ABOVE

INDICATES EXISTING BEARING WOOD WALL

INDICATES EXISTING NON-BEARING WOOD WALL

INDICATES BEARING CMU WALL BELOW

INDICATES BEARING CMU WALL ABOVE

INDICATES NON-BEARING CMU WALL BELOW

INDICATES NON-BEARING CMU WALL ABOVE

INDICATES EXISTING BEARING CMU WALL

INDICATES EXISTING NON-BEARING CMU WALL

INDICATES BEARING CONCRETE WALL BELOW

INDICATES BEARING CONCRETE WALL ABOVE

INDICATES NON-BEARING CONCRETE WALL BELOW

INDICATES NON-BEARING CONCRETE WALL ABOVE

INDICATES EXISTING BEARING CONCRETE WALL

INDICATES EXISTING NON-BEARING CONCRETE WALL

SHEET INDEX

S-101	SHEET INDEX, ABBREVIATION & SYMBOL
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S-103	GENERAL NOTES, SPECIAL INSPECTION & TESTS
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S-202	ROOF FRAMING PLAN
S-301	TYPICAL CONCRETE DETAILS
S-311	CONCRETE DETAILS
S-312	CONCRETE DETAILS
S-401	TYPICAL WOOD DETAILS
S-402	TYPICAL WOOD DETAILS
S-403	TYPICAL WOOD DETAILS
S-421	ROOF FRAMING DETAILS

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FOR USE IN THE CITY OF WALNUT CREEK

ABBREVIATIONS

A & B	ABOVE AND BELOW
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE AMERICAN PLYWOOD ASSOCIATION)
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BOT OR B	BOTTOM
BRC	BRACE
BRG	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CAM OR C	CAMBER
CC	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DO OVER
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL OR EQUIVALENT
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FIN	FINISH
FJ	FLOOR JOIST
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONARY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRMG	FRAMING
FT	FOOT; FEET
FTA	FLOOR TIE ABOVE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED LAMINATED BEAM
GR	GRADE
GRND	GROUND
H or HORIZ	HORIZONTAL
HDR	HEADER
HGR	HANGER
HP	HIGH POINT
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KS	KING STUD
KP	KING POST
KSI	KIPS PER SQUARE INCH
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SLOTTED HOLES
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHTWEIGHT
LVL	LEVEL OR LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
N	NORTH
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
PA	POST ABOVE
PARA OR //	PARALLEL
PC	PRECAST; PIECE
PERP	PERPENDICULAR
PI	PLYWOOD INDEX
℄ OR PL.	PLATE
PL	PROPERTY LINE
PLF	PONDS PER LINEAL FOOT
PLCS	PLACES
PLY	PLYWOOD
PROP	PROPERTY
PT	PRESSURE TREATED
PW	PLATE WASHER
PJP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PVMT	PAVEMENT
#	POUND; NUMBER
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
RR	ROOF RAFTER
Ø	ROUND; DIAMETER
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SN	SHEAR NAIL
SPCG	SPACING
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
STD	STANDARD
STGR	STAGGER
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
TB	TIE BEAM
T & B	TOP AND BOTTOM
T & G	TONGUE & GROOVE
TO	TOP OF
TOC	TOP OF CURB; TOP OF CONCRETE
TOF	TOP OF FOOTING
TEMP	TEMPERATURE; TEMPORARY
THRU	THROUGH
THK	THICKNESS/THICK
THR	THREADED
TOP or T	TOP
TOS	TOP OF STEEL/TOP OF SLAB
TOW	TOP OF WALL
TS	TRIMMER STUD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
VSH	VERTICAL SLOTTED HOLES
W/	WITH
W/O	WITHOUT
WO	WHERE OCCURS
WD	WOOD
WP	WORK POINT; WATERPROOF
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL SHAPES

W	W SHAPE
C	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
L	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE-X	EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	HOLLOW STRUCTURAL SECTION

WALNUT CREEK ADU
CITY OF WALNUT CREEK

SHEET INDEX, ABBREVIATION & SYMBOL

DATE
11/20/2023

SHEET
S-101

N:\2300\2344.01-ca21-walnut-creek-adu\Structural\CorelDocs\sheet files\Plan 2\2344.01-C121-S101.dwg, S101, Nov 20, 2023 12:34pm, alopez

SAWN LUMBER

1. FRAMING LUMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

SAWN LUMBER PROPERTIES

USE	SIZE	SPECIES	GRADE	REFERENCE
MUDSILLS	2 X 4	D.F.	STANDARD OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9
	2 X 6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	
	2 X	REDWOOD	FOUNDATION GRADE	
HORIZONTAL FRAMING LUMBER				
ROOF JOISTS AND RAFTERS	2 x	D.F.	NO. 2	WCLIB & WWPA
FLOOR JOISTS	2 X	D.F.	NO. 2	
HEADERS AND BEAMS	4 X	D.F.	NO. 2	
ANY OTHER HORIZONTAL	4 X 4 AND SMALLER	D.F.	NO. 2	
	6 X 6 AND LARGER	D.F.	NO. 1	
VERTICAL FRAMING LUMBER				
TOP PLATES	2 X	D.F.	NO. 2	WCLIB & WWPA
STUDS	2 X 4 & 3 X 4	D.F.	STUD	
	2 X 6 & 2 X 8	D.F.	NO. 2	
POSTS	4 X 4 & 4 X 6 POSTS	D.F.	NO. 2	
	6 X 6 & LARGER POSTS	D.F.	NO. 1	
ALL OTHER FRAMING LUMBER				
ALL OTHER FRAMING LUMBER, UNO	ALL SIZES	D.F.	STANDARD & BETTER	WCLIB & WWPA

2. FLOOR JOISTS SHALL BE GRADE STAMPED "S-DRY" WHICH INDICATES A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT.

3. ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT.

4. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED.

5. MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.2. ALL NAILS SHALL BE COMMON WIRE NAILS. PREDRILL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPLIT WOOD.

6. UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO THE CONCRETE OR MASONRY WITH 5/8" Ø X 12" BOLTS W/ 0.229" X 3" X 3" PLATE WASHER (GALV) AT 4'-0" O.C. BEGINNING AT 9" O.C. MAXIMUM FROM EACH END OF THE PLATES. THE BOLTS SHALL EXTEND A MINIMUM OF 7" INTO THE CONCRETE OR MASONRY. (POWDER DRIVEN PINS AT 1/3 OF THE BOLT SPACING OR 24" O.C. MAXIMUM MAY BE SUBSTITUTED FOR THE ANCHOR BOLTS AT INTERIOR NON-SHEAR WALLS ONLY).

7. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWPA TREATMENT C2 USING EITHER ALKALINE QUAT (ACQ TYPE B AND D), COPPER AZOLE (CBA-A, CA-B), OR SODIUM BORATES (SBX). ANCHOR BOLTS, FASTENERS, AND METAL FRAMING CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED TO A RATING OF G-185 PER ASTM A653.

8. PROVIDE 2 STUDS UNDER ALL 4 X 10 AND LARGER BEAMS OR HEADERS AT SPANS 6 FEET OR LONGER, UNLESS OTHERWISE NOTED. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL.

9. PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE:
   2" X FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT.
   2" X FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS.

10. DOUBLE JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS, UNLESS SUPPORTED BY A WALL BELOW OR SHOWN OTHERWISE. NAIL DOUBLED JOISTS WITH 16D AT 12" O.C., STAGGERED.

11. BRIDGING SHALL BE 2 X SOLID BLOCKS, INSTALLED AS FOLLOWS:
    ROOF JOISTS MORE THAN 10" DEPTH, 8'-0" O.C. MAXIMUM, NOT MORE THAN 8'-0" FROM SUPPORT.
    FLOOR JOISTS MORE THAN 10" DEPTH, 8'-0" O.C. MAXIMUM, NOT MORE THAN 8'-0" FROM SUPPORT.

12. JOIST HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, STOCKTON, CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURE WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED.

13. FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS.

HARDWARE AND CONNECTORS

GENERAL:
USE ALL SPECIFIED FASTENERS AS SPECIFIED ON PLANS. IF NOT INDICATED ON PLANS PROVIDE FASTENERS PER MFR'S APPROVED ICC-ESR REPORT OR PRODUCT LITERATURE

HOLDOWNS:
1. DO NOT OVER TIGHTEN NUTS ON TIE-DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS ONE-THIRD TO ONE HALF TURN BEYOND FINGER TIGHT
2. INSTALL ALL HOLDOWNS TIGHT TO END STUDS/POST. DO NOT USE FILLER BLOCKS. FOR MISALIGNED ANCHOR BOLTS, EXTEND THE ANCHOR ROD AT A 1:12 (HORIZ/VERT) USING A COUPLER WITH EQUIVALENT ANCHOR ROD AND INSTALL THE HOLDOWN HIGHER ON END STUD / POST
3. FOR HOLDOWNS THAT BOLT TO END POSTS, INSTALL THE HEAD OF THE BOLT TO THE BRACKET SIDE, AND ON THE SIDE OPPOSITE THE BRACKET, INSTALL A WASHER BETWEEN THE NUT AND THE STUD / POSTS

TIE DOWN & COLLECTOR STRAPS:
1. TIE DOWN AND COLLECTOR STRAPS SHALL BE INSTALLED STRAIGHT AND TRUE. DO NOT FOLD, BEND, KINK OR OTHERWISE ALTER CONNECTOR STRAPS
2. INSTALL TIE DOWN STRAPS DIRECT TO POST IN LIEU OF OVER SHEATHING. STRAPS MAY BE INSTALLED ON THE UNSHEATHED SIDE OF THE END STUDS / POSTS

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19.

2. CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)[A]	C150
CONCRETE AGGREGATES (HARDROCK)	C33
WATER[B]	C1602
COAL FLY ASH OR POZOLLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33
SLAG	C989

   A. FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-19 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.

   B. WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.

3. CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-19. WHICH REFERENCES ACI 301-10 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRAIL MIXTURES IN ACCORDANCE WITH ACI 301-10 ARTICLE 4.2.3.4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)	DENSITY (PCF)	MAX SLUMP (IN±1)	MAX WATER/CEMENT RATIO	SLAG/ FLY ASH[A] (MAX)
CONCRETE FOUNDATIONS, GRADE BEAMS, TIE BEAMS	2,500	150	4	0.5	0.15
CONCRETE SLAB ON GRADE	2,500	150	4	0.45	0.15

   A. AS MEASURED BY CEMENTITIOUS WEIGHT

4. DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-19 AND PROJECT SPECIFICATIONS.

5. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.

6. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

7. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.

8. PIPES EMBEDDED IN CONCRETE:
   A. CONCRETE
      a. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOTE BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
      b. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
      c. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
      d. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19, ASTM A706, GRADE 60 UNO, ASTM A615 GR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GR60 STEEL PER ACI 318-19 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
   A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.
   B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
   C. WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.6.4 OF ACI 318-19.

2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

3. REINFORCING BAR LAP SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS, STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
   A. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-19 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.

5. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST EDITION.

6. ED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.

7. CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO.6 THROUGH NO. 18 BAR NO.5 BAR, W31 OR D31 WIRE & SMALLER	2 1½"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO.14 AND NO.18 BARS NO.11 BAR & SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	 1½" ¾" 1½"

WOOD (GENERAL)

1. PRESERVATIVE TREATMENT:

A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AITC 109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWPA U1-06.
   a. UC1 - INTERIOR CONSTRUCTION, ABOVE GROUND, DRY - NO PRESERVATIVE TREATMENT REQUIRED
   b. UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER.
   c. UC3 - EXTERIOR CONSTRUCTION ABOVE GROUND - PRESERVATIVE TREATMENT REQUIRED.

B. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-06. THE FOLLOWING FIELD TREATMENTS SHALL BE USED:
   a. BORED HOLES: HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE
   b. EXTERIOR: COPPER NAPHTHENATE
   c. INTERIOR: INORGANIC BORON PRESERVATIVES LIMITED TO USE IN APPLICATIONS NOT IN CONTACT WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER

FOUNDATION

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING:
   A. DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1610.1
   B. ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2

2. SPREAD OR CONTINUOUS FOOTINGS:

ELEMENT	ALLOWABLE BEARING CAPACITY (PSF) [A]	ALLOWABLE LATERAL RESISTANCE [B]	
		PASSIVE RESISTANCE (PSF/FT BELOW GRADE) [E]	COHESION (PSF)
SHALLOW FOUNDATION	1,500	100	130

   NOTES:
   A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
   B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE .
   C. THE UPPER 0 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.
   D. COMPACTED FILL SHOULD BE PREPARED AS FOLLOWS: A MAX OF 12" OF COMPACTED FILL SHALL BE PROVIDED, COMPACTED TO A MIN OF 90 PERCENT MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 (2022 CBC 1804.6)
   E. MAY BE DOUBLE FOR ISOLATED POLES PER 2022 CBC 1806.3.4

4. WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

5. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.

6. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.

7. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED.

8. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.

9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS, FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED PER SECTION 1705.6 OF THE CODE.

10. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

EXISTING CONDITIONS

1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.

2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

3. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
   A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
   B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

DESIGN INFORMATION

1. FLOOR LIVE LOADS: (2022 CBC SECTION 1603.1.1)

FLOOR LIVE LOADS

OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
RESIDENTIAL ONE- AND TWO- FAMILY DWELLINGS UNINHABITABLE ATTICS WITHOUT STORAGE UNINHABITABLE ATTICS WITH STORAGE HABITABLE ATTICS AND SLEEPING AREAS ALL OTHER AREAS	 10 20 30 40	—	2022 CBC TABLE 1607.1

2. ROOF LIVE LOADS (2022 CBC SECTION 1603.1.2)

ROOF LIVE LOADS

OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20	—	2022 CBC TABLE 1607.1

3. ROOF SNOW LOADS (2022 CBC SECTION 1603.1.3):

SNOW DESIGN DATA

PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	Pg = 0 PSF	ASCE 7-16 7.2

4. WIND DESIGN DATA (2022 CBC SECTION 1603.1.4) :

WIND DESIGN DATA

PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V_{ULT} = 92 MPH	2022 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V_{ASD} = 72 MPH	2022 CBC 1609.3.1
EXPOSURE CATEGORY	C	2022 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GCpi = ± 0.18	ASCE 7-16 TABLE 26.13-1

COMPONENTS & CLADDING WIND PRESSURES (PSF)

LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)		
		10	100	500
ROOF	ZONE 1	-31.0	-16.0	-16.0
	ZONE 2e	-31.0	-16.0	-16.0
	ZONE 2n	-34.1	-21.6	-18.4
	ZONE 2r	-31.0	-16.0	-16.0
	ZONE 3e	-41.9	-26.3	-18.4
	ZONE 3r	-34.1	-21.6	-18.4
	ALL ZONES	16.9	16.0	16.0
OVERHANG	ZONE 1	-43.5	-27.8	-27.8
	ZONE 2e	-43.5	-27.8	-27.8
	ZONE 2n	-46.6	-34.1	-31.0
	ZONE 2r	-43.5	-27.8	-27.8
	ZONE 3e	-54.4	-38.8	-31.0
	ZONE 3r	-46.6	-34.1	-31.0
WALL	ZONE 4	-20.0	-17.4	-16.0
	ZONE 5	-24.7	-19.2	-16.0
	POSITIVE	18.4	16.0	16.0

5. EARTHQUAKE DESIGN DATA (2022 CBC SECTION 1603.1.5):

SITE AND OCCUPANCY PARAMETERS

PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	2022 CBC TABLE 1604.5
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1.5-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S_S = 2.50 g S_1 = 0.750 g	2022 CBC 1613.2.1
SITE CLASS	D (DF)	2022 CBC 1613.2.2
SPECTRAL RESPONSE COEFFICIENTS:	S_{DS} = 2.00 g S_{D1} = 0.85 g	2022 CBC 1613.2.4

BUILDING PARAMETERS

PARAMETER	VALUE	REFERENCE
SEISMIC DESIGN CATEGORY	SDC = E	2022 CBC 1613.2.5
BASIC SEISMIC FORCE RESISTING SYSTEM	LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	ASCE 7-16 TABLE 12.2-1
RESPONSE MODIFICATION FACTOR	R = 6½	
SYSTEM OVERSTRENGTH FACTOR	Ωo = 3	
DEFLECTION AMPLIFICATION FACTOR	Cd = 4	
DESIGN BASE SHEAR	V = 7.1 k	ASCE 7-16 12.8.1
SEISMIC RESPONSE COEFFICIENTS	Cs = 0.308	ASCE 7-16 12.8.1.1
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE	ASCE 7-16 12.8

6. GEOTECHNICAL INFORMATION (2022 CBC SECTION 1603.1.6):
   REFER TO FOUNDATION GENERAL NOTES

GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
   A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
   B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
   C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.

2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.

5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
   E. FLOOR AND ROOF FINISHES
   F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS

6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.

8. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, ETC..

9. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.

10. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.

11. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC.. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

12. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

13. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING

14. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
   A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
   B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

15. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.

DIMENSIONS

1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).

2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS

REQUIRED VERIFICATION AND INSPECTIONS

WOOD

CODE CHAPTER 17 AND REFERENCED 2018 NDS AND AWC SDPWS-2015

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE
3. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING LESS THAN OR EQUAL TO 4" OC. - WOOD SHEAR WALLS - WOOD DIPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	—	X	1705.13.2
4. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING GREATER THAN 4" OC (NOT REQUIRED) - WOOD SHEAR WALLS - WOOD DIAPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	—	—	1705.13.2

STATEMENT OF SPECIAL INSPECTIONS

1. THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704.3 OF THE CODE . THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:

   A. GENERAL:
      a. STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.

   B. OWNER REQUIREMENTS:
      a. THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.

   C. SPECIAL INSPECTOR QUALIFICATIONS:
      a. THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES.

   D. CONTRACTOR REQUIREMENTS:
      a. SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
      b. THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
      c. ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

   E. SPECIAL INSPECTOR REPORT REQUIREMENTS:
      a. THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
      b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
      c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
      d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
      e. IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
      f. A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

SHOP FABRICATION

1. SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704.2.5. EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704.2.5.1. THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION

   A. WOOD BUILDINGS
      a. WOOD STRUCTURAL PANELS (SHEATHING) SHALL BE IDENTIFIED BY THE APA TRADEMARK.

WOOD STRUCTURAL PANELS (SHEATHING)

1. WOOD STRUCTURAL PANELS SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

WOOD STRUCTURAL PANEL PROPERTIES

USE	PLY	BOND CLASSIFICATION [C]	SHEATHING GRADE	PERFORMANCE RATING	SPAN RATING	RATING [B]	REFERENCE [A]
ROOF	5	EXPOSURE 1	REFER TO TYPICAL DIAPHRAGM SCHEDULE			APA	2022 CBC 2303.1.5 (DOC PS 1-09 OR PS 2-10)
FLOOR	5	EXPOSURE 1				APA	
WALL [D]	5	EXPOSURE 1	REFER TO TYPICAL SHEAR WALL SCHEDULE			APA	

TABLE NOTES:

A. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (APA):
   a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09
   b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10

B. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD

C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDITIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.
   a. EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
   b. WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRP-210.

D. ORIENTED STRAND BOARD (OSB) WITH EQUIVALENT CLASSIFICATION AND RATINGS MAY BE USED IN LIEU OF PLYWOOD FOR WOOD STRUCTURAL PANEL WALL SHEATHING.

2. TRANSPORTATION, STORAGE, AND HANDLING:

   A. TRANSPORTATION
      a. IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.

   B. STORAGE
      a. ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
      b. WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
      c. NEVER LEAVE PANELS IN CONTACT WITH THE GROUND
      d. COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO PREVENT MILDEW.
      e. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
      f. KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS

   C. HANDLING
      a. ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE.
      b. ACCLIMATIZE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER MANUFACTURER'S RECOMMENDATIONS.

3. PLYWOOD ORIENTATION

   A. ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PILES PERPENDICULAR TO THE FRAMING MEMBERS, SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE A ⅛" GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.

   B. PLYWOOD OR OSB WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED.

4. BLOCKING:

   A. ROOF: ALL ROOF SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.

   B. ALL FLOOR SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.

   C. WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.

5. FASTENERS

   A. USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWS SDPWS TABLE 4.2A OR 4.3A (AS REQUIRED).

   B. EQUIVALENT PNEUMATIC DRIVE NAILS OR STAPLES MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED US. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.

   C. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD OR OSB SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE T HAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

   D. TYPICAL NAILING SHALL BE 10D AT 6" O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10D AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED, SEE PLANS AND REFER TO SHEAR WALL SCHEDULE.

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

GENERAL NOTES, SPECIAL INSPECTION & TESTS

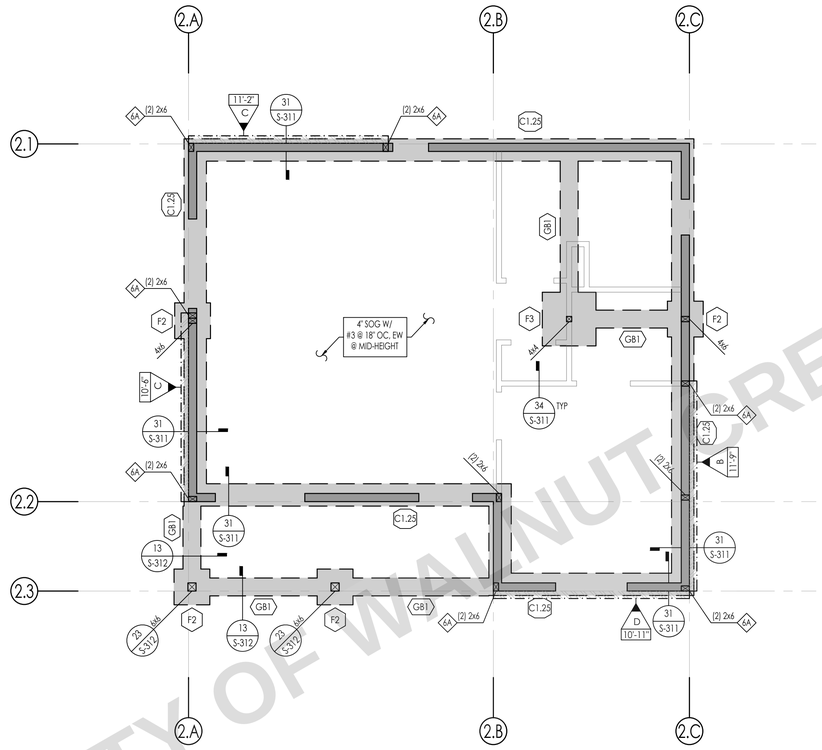
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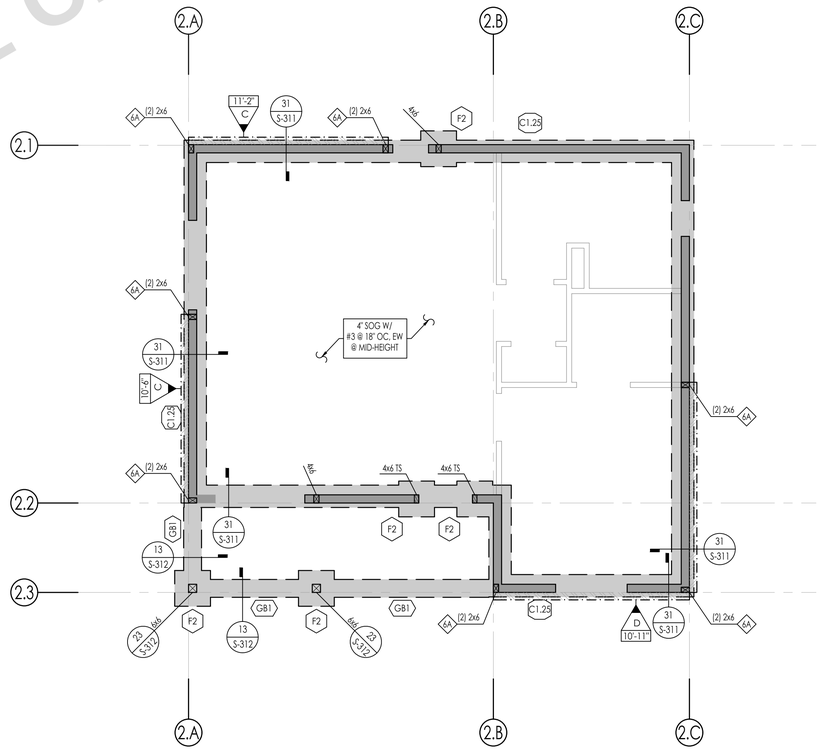
SHEET

S-103

N:\2200\2264-01-cu21-walnut-creek-adu\structural\CorrDocs\sheet-files\226401-CU21 - S103.dwg, PLAN 2 - S103, Nov 20, 2023 - 12:56pm, dlopez



1 FOUNDATION PLAN - CALIFORNIA RANCH - COTTAGE
SCALE: 1/4" = 1'-0"



2 FOUNDATION PLAN - MODERN
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-103
TESTING AND INSPECTION	S-103
TYPICAL CONCRETE DETAILS	S-301
TYPICAL WOOD DETAILS	S-401 - S-404

2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS. REFERENCE FINISHED FLOOR ELEVATION = 0'-0" CORRESPONDS TO FINISHED FLOOR ELEVATION.
3. ALL DIMENSIONS SHOWN ARE FROM FACE OF CONCRETE/MASONRY, FACE OF SHEATHING, OR CENTERLINE OF COLUMN. ALL COLUMNS ARE CENTERED IN STUD WALLS, UNO.
4. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR ANY EMBEDDED ITEMS AND ALL EXTERIOR CONCRETE PAVING.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. SEE ARCHIECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.
9. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
10. FOR TYPICAL SLAB-ON-GRADE REQUIREMENTS, INCLUDING SLAB JOINTS, SEE DETAIL 31/S-301.
11. ALL POSTS IN 4" WALLS SHALL BE 4x4, UNLESS NOTED OTHERWISE
    ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE
12. PLATE WASHERS ARE REQUIRED FOR ALL SILL PLATE ANCHOR BOLTS. REFER TO 34/S-402 FOR PLATE WASHER REQUIREMENTS AT SHEAR WALLS.
13. ALL HOLDOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING.
14. ALL BOLT HOLES IN WOOD MEMBERS, SHALL BE DRILLED A MAXIMUM OF 1/16" OVERSIZED. INSPECTOR TO VERIFY.
15. THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 53/S-301. THE BUILDING OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY A GEOTECHNICAL ENGINEER AT THEIR DISCRETION.
16. BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL:
    A. 21" BELOW PAD OR ADJACENT GRADE AT PERIMETER, WHICHEVER IS DEEPER, UNO.
    B. 21" BELOW PAD OR ADJACENT GRADE AT INTERIOR GRADE BEAMS, WHICHEVER IS DEEPER, UNO.
    NOTE: FOOTING MUST BE DEEPENED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE ANCHOR BOLT HOLDOWN EMBED DEPTHS.
17. FOR DEEPENED FOOTING REFER TO 14/S-312. DISTANCE TO DAYLIGHT MUST BE A MINIMUM OF 10'-0" AS MEASURED FROM THE BOTTOM OF THE FOOTING. SHOULD THE SITE REQUIRE RETAINING WALLS TO FLATTEN THE LOT, REFER TO NOTES ON COVER SHEET FOR PERMITTING REQUIREMENTS."
18. THIS PLAN IS INTENDED FOR FLAT LOTS (SLOPING LESS THAN 10° ACROSS THE LONGEST BUILDING DIMENSION) ,WITHOUT HIGHLY EXPANSIVE OR LIQUEFIABLE SOILS, AND NOT IN FLOOD ZONE WHERE THE MAIN DWELLING UNIT IS SUPPORTED IN SHALLOW FOOTINGS WITH SLABS ON GRADE CONSTRUCTION. IF THE PROJECT SITE DEVIATES FROM ANY OF THE AFOREMENTIONED QUALITIES, AS DETERMINED BY THE BUILDING OFFICIAL, THESE PRE APPROVED ADU FOUNDATION PLANS AND DETAILS ARE NOT APPLICABLE.

SYMBOL LEGEND

XX'-X" / X — INDICATES SHEAR WALL TYPE AND LENGTH, SEE SCHEDULE ON 13/S-402

SCHEDULES

HOLDOWN SCHEDULE

SPECIFIES HOLDOWN/ STRAP DETAIL	INDICATES HOLDOWN/ STRAP TYPE	DETAIL
6X	INDICATES SIMPSON SSTB HOLDOWN TO: CONC FOUNDATION:	12/S-311

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL
C1.25	1'-3"	SEE NOTE 16	(2) #5 T&B	#3 @ 12" OC, BOT	31/S-311

GRADE BEAM SCHEDULE

TYPE	WIDTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL
GB1	1'-0"	1'-0"	SEE NOTE 16	(2) #4 @ TOP (2) #4 @ BOT	#3 @ 24" OC	13/S-312

PAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL
F2	2'-0"	2'-0"	1'-6"	SEE NOTE 16	(3) #5, EW	(3) #5 @, EW	PER PLAN

NOTE: FOOTING MUST BE DEEPENED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE AB HOLDOWN EMBED DEPTHS

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

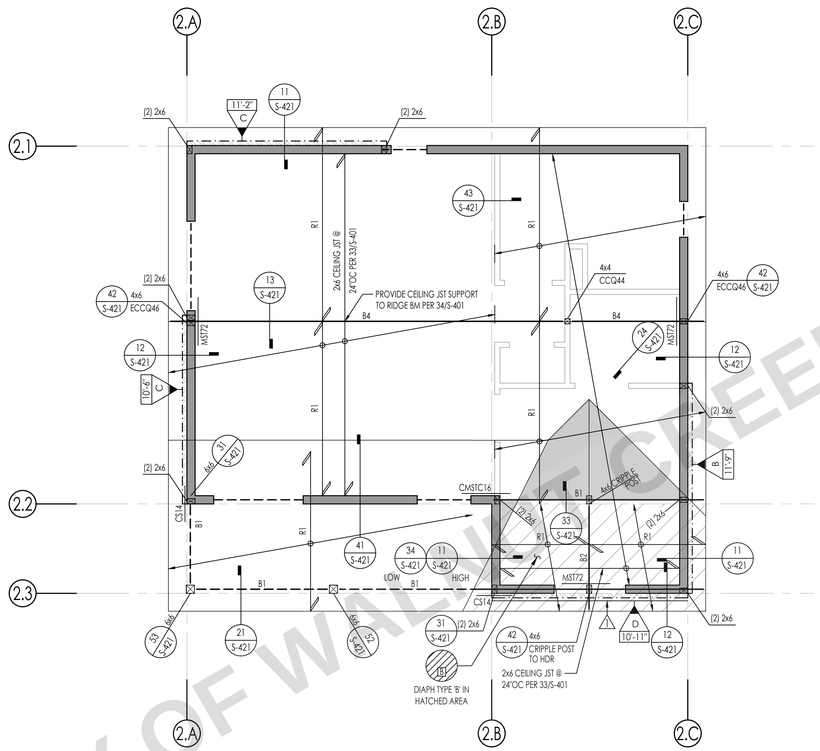
FOUNDATION PLAN

DATE
11/20/2023

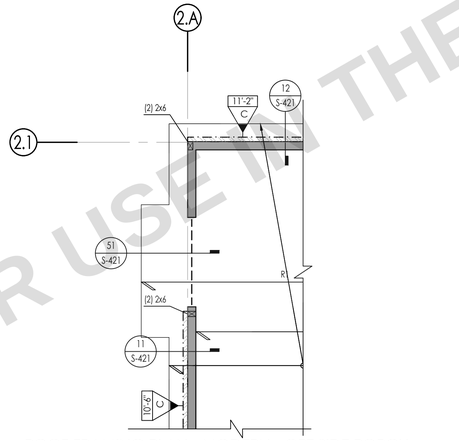
SHEET
S-201

FOR USE IN THE CITY OF WALNUT CREEK

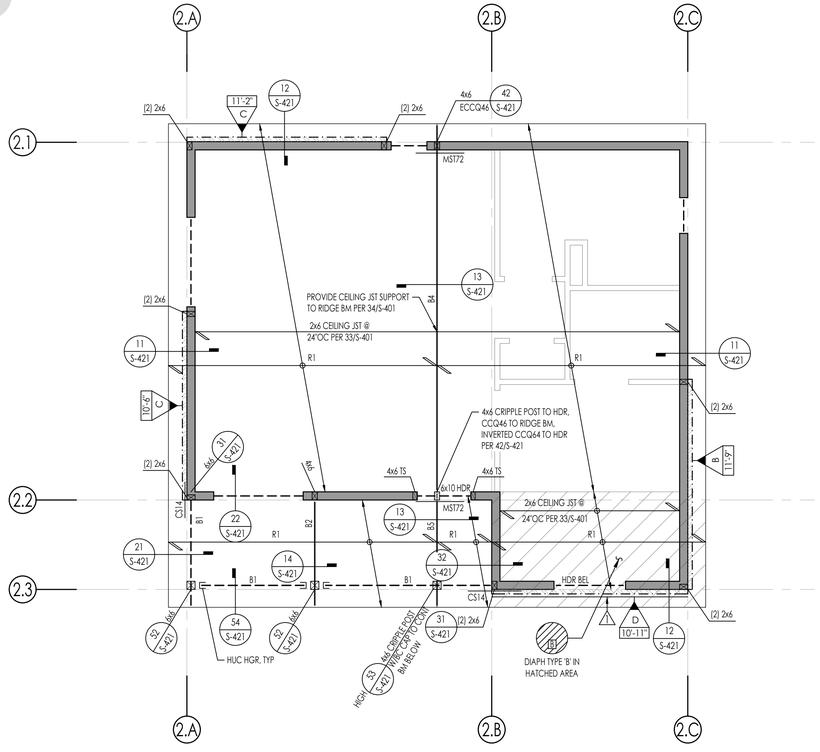
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1 ROOF FRAMING PLAN - CALIFORNIA RANCH - COTTAGE
SCALE: 1/4" = 1'-0"



3 ROOF FRAMING PLAN - MODERN - OPT SIDE PORCH
SCALE: 1/4" = 1'-0"



2 ROOF FRAMING PLAN - MODERN
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING, ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION:
   - A. GRID DIMENSIONS AND HORIZONTAL CONTROL
   - B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC
   - C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS
   - D. ALL NON STRUCTURAL WALLS
2. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-103
TESTING AND INSPECTION	S-103
TYPICAL CONCRETE DETAILS	S-301
TYPICAL WOOD DETAILS	S-401 - S-404

3. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
4. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNO.
5. ALL POSTS IN 6" WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE.

   TYPICAL WALL FRAMING SHALL BE:
   2x6 @ 16" OC @ ALL EXTERIOR WALLS, UNO
   2x6 @ 16" OC @ ALL INTERIOR BEARING WALLS, UNO
   2x4 @ 16" @ ALL INTERIOR NON-BEARING WALLS, UNO
6. ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PORTION WALL DETAIL 43/S-401, UNO.
7. DIAPHRAGM TYPES:
   ALL ROOF DIAPHRAGMS SHALL BE TYPE A, UNO REFER TO 12/S-403
8. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (BN), STGR.

SYMBOL LEGEND

- XX'-X" / X — INDICATES SHEAR WALL TYPE AND LENGTH, SEE SCHEDULE ON 13/S-402
- * — INDICATES BLOCKING & STRAPPING ABOVE & BELOW WINDOW OPENINGS PER DETAIL 44/S-402
- INDICATES HEADER @ OPENING. REFER TO 32/S-401 FOR HEADER SIZE. UNO ON PLANS
- (X) — INDICATES TOP PLATE SPLICE NAILING PER 31/S-403 NOTE THAT NAILING APPLIES TO ENTIRE LENGTH OF TOP PLATE. PROVIDE TYPE (C) SPLICE, UNO
- INDICATES STRAP PER 34/S-403, UNO

SCHEDULES

HOLDOWN SCHEDULE

SPECIFIES HOLDOWN/ STRAP DETAIL	1x — INDICATES HOLDOWN/ STRAP TYPE	DETAIL
6x	INDICATES SIMPSON SSTB HOLDOWN TO: CONC FOUNDATION:	12/S-311

ROOF BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	6x8	
B2	4x8	
B3	6x10	
B4	1 ¾" x 16" LVL	2 PLY 14/S-401
B5	2x16	2 PLY

ROOF RAFTER SCHEDULE

MARK	SIZE	REMARKS
R1	2x8 @ 16" OC	

CITY OF WALNUT CREEK

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

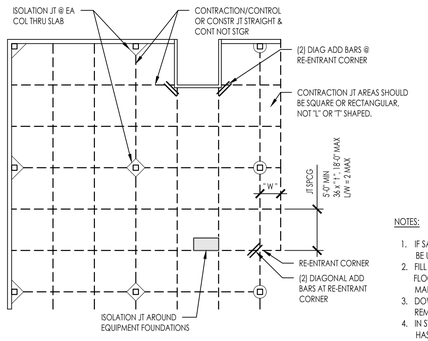
ROOF FRAMING PLAN

DATE
11/20/2023

SHEET
S-202

FOR USE IN THE CITY OF WALNUT CREEK

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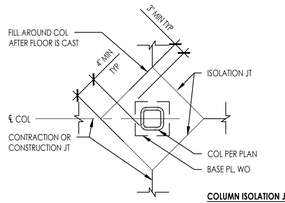


SLAB ON GRADE JOINTS

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NTS

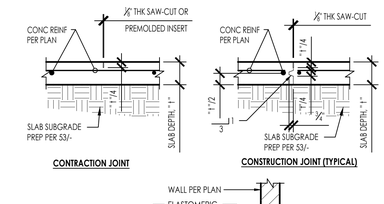
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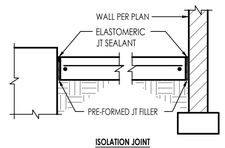


COLUMN ISOLATION JOINT

NOTES:

1. IF SAW CUT CONTRACTION OR CONTROL JOINT IS USED, SAW-CUT WITHIN 24 HOURS. EARLY ENTRY SAWS MAY BE USED WITHIN 1-4 HOURS OF POUR, AND CONVENTIONAL SAWS 4-12 HOURS OF POUR DEPENDING ON WEATHER.
2. FILL CONTRACTION JOINT WITH AN ELASTOMERIC JOINT COMPOUND RATED FOR ITS USE. FOR INDUSTRIAL FLOORS SUBJECTED TO HARD WHEELED TRAFFIC, USE SEALANTS RATED FOR SUCH APPLICATIONS BY THE MANUFACTURER.
3. DOWELS IN INDUSTRIAL FLOOR APPLICATIONS SHOULD BE SMOOTH ALIGNED, AND SUPPORTED SO THEY WILL REMAIN PARALLEL IN BOTH HORIZONTAL AND VERTICAL PLANES DURING PLACING AND FINISHING.
4. IN STEEL AND/OR CONC. BUILDINGS DO NOT POUR DIAMOND UNTIL STRUCTURAL STEEL AND CONCRETE ABOVE HAS BEEN INSTALLED.





ISOLATION JOINT

SLAB ON GRADE EDGE AND SUBGRADE PREP

2264-01-CU21 - S301 - 53

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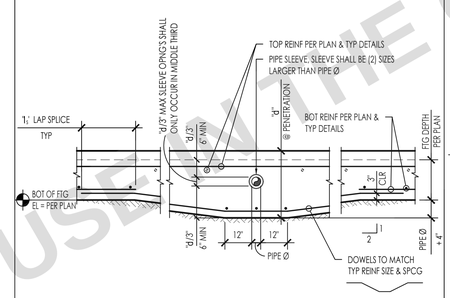
53



NOTES:

1. PREPARATION OF THE SLAB SUBGRADE SHALL BE AS FOLLOWS.
   A. OVER-EXCAVATION SHALL EXTEND 5 FEET BEYOND PERIMETER FOUNDATION, TO PROPERTY LINES OR EXISTING IMPROVEMENTS, WHICHEVER IS LEAST.
   B. NATIVE MATERIALS
      a. SHALL BE OVER-EXCAVATED 36" BELOW (E) GRADE OR 18" BELOW BOTTOM OF FOOTINGS, WHICHEVER IS GREATEST.
      b. THE EXPOSED SURFACE SHALL BE SCARIFIED TO A DEPTH OF 6". MOISTURE CONDITIONED TO 3 PERCENT OVER OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557)
   C. ENGINEERED COMPACTED FILL
      a. STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LAYERS, EACH APPROXIMATELY 8" THICK BEFORE COMPACTION, AND SHOULD BE CONDITIONS WITH WATER TO PRODUCE A SOIL WATER CONTENT NEAR OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90 PERCENT (ASTM D1557)
   D. 4" THICK, CLEAN FREE-DRAINING MATERIAL SUCH AS ⅜" COARSE AGGREGATE
   E. REFER TO ARCH DRAWINGS FOR VAPOR BARRIER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS FOR SEALING OF PENETRATIONS, JOINTS AND EDGES.
      a. VAPOR BARRIER IS NOT TO BE PUNCTURED DURING CONSTRUCTION OF SLAB ON GRADE.
   F. 2" THICK OPTIONAL SAND LAYER, SHALL BE LIGHTLY MOISTENED PRIOR TO PLACING CONCRETE.

54

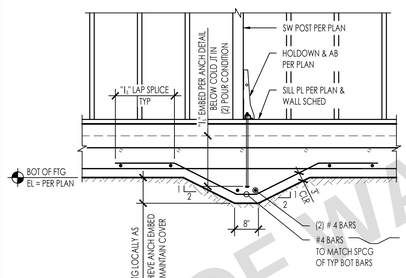


SLEEVE THROUGH FOUNDATION (SLAB TURN-DOWN)

2264-01-CU21 - S301 - 43

NTS

43

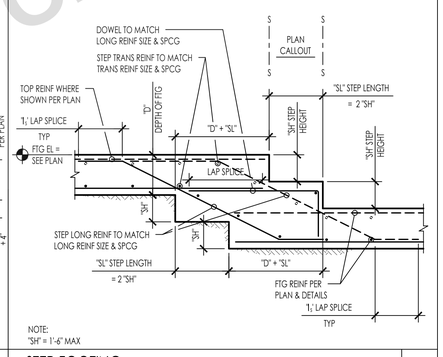


DEEPENED FTG @ ANCHOR BOLT

2264-01-CU21 - S301 - 32

NTS

32



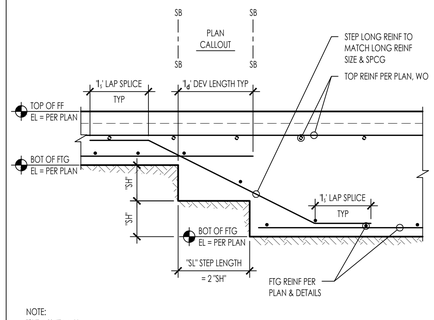
NOTE:
"SH" = 1'-6" MAX

STEP FOOTING

2264-01-CU21 - S301 - 33

NTS

33



NOTE:
"SH" = 1'-6" MAX

STEPPED FOOTING (BOTTOM ONLY)

2264-01-CU21 - S301 - 34

NTS

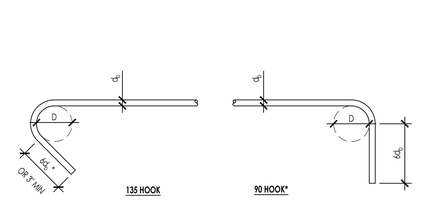
34

REINF TIES AND STIRRUPS

2264-01-CU21 - S301 - 21

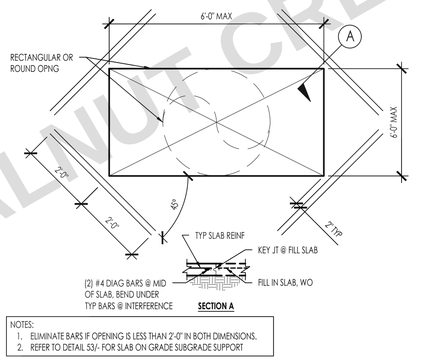
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21



BAR SIZE	D
#3	1½"
#4	2"
#5	2½"

* PROVIDE 10d_b EXTENSIONS IN LIEU OF 6d_b AT ALL FRAME COLUMNS, GIRDERS, SHEAR WALLS AND SHEAR WALL BOUNDARY MEMBERS



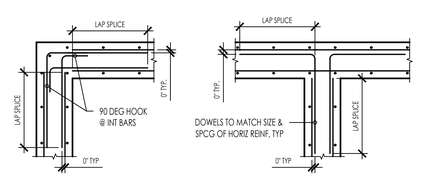
NOTES:
1. ELIMINATE BARS IF OPENING IS LESS THAN 2'-0" IN BOTH DIMENSIONS.
2. REFER TO DETAIL S3/- FOR SLAB ON GRADE SUBGRADE SUPPORT

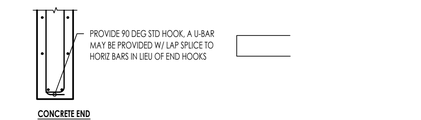
SOG OPENING

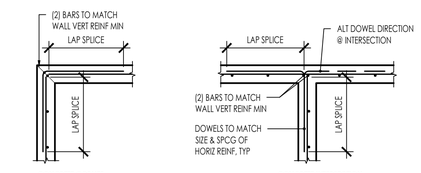
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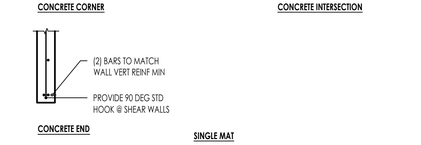
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22









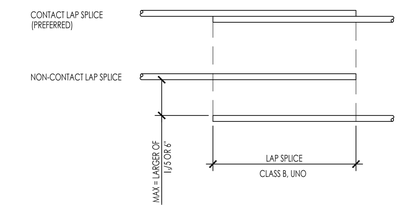
NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATION(S), BOUNDARY REINFORCING DETAILS, AND OTHER SPECIFICALLY REFERENCED DETAILS SHALL TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

CONC REINF @ INTERSECTION

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NTS

24



REINFORCING TENSION DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE

BAR SIZE	DEVELOPMENT LENGTH, l_d (CLASS A LAP SPLICE)			LAP SPLICE, l_s (CLASS B LAP SPLICE)		
	f'c (psi)			f'c (psi)		
	2,500	3,000	4,000	2,500	3,000	4,000
#3	1'-6"	1'-5"	1'-3"	2'-0"	1'-10"	1'-7"
#4	2'-0"	1'-10"	1'-7"	2'-8"	2'-5"	2'-1"
#5	2'-6"	2'-4"	2'-0"	3'-3"	3'-0"	2'-7"
#6	3'-0"	2'-9"	2'-5"	3'-11"	3'-7"	3'-2"
#7	4'-5"	4'-0"	3'-4"	5'-9"	5'-2"	4'-4"
#8	5'-0"	4'-7"	4'-0"	6'-6"	5'-11"	5'-2"
#9	5'-8"	5'-2"	4'-6"	7'-4"	6'-9"	5'-10"
#10	6'-5"	5'-10"	5'-1"	8'-3"	7'-7"	6'-7"
#11	7'-1"	6'-6"	5'-7"	9'-2"	8'-5"	7'-3"

NOTES:
1. VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:
   A. GRADE 60 REINFORCEMENT
   B. NORMAL WEIGHT CONCRETE
      a. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3
   C. NON-EPOXY COATED REINFORCEMENT
   D. HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS
      a. FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3
   E. CLEAR SPACING NOT LESS THAN d_b, CLEAR COVER NOT LESS THAN d_b AND STIRRUPS THROUGH L_D NOT LESS THAN MIN

      OR

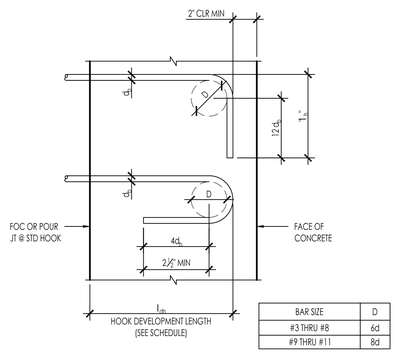
      CLEAR SPACING NO LESS THAN 2d_b AND CLEAR COVER NOT LESS THAN db
      a. FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5
   F. REINFORCEMENT NOT IN SHEAR WALLS
      a. FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25
2. THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPLICE LENGTH.
3. ALL LAP SPLICES REFERENCED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
4. WHEN REINFORCING BARS OF TWO SIZES ARE LAP-SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B, LAP SPLICE LENGTH (l_d) OF THE SMALLER BAR, AND THE CLASS A, TENSION DEVELOPMENT LENGTH (l_d) OF THE LARGER BAR.

REINF DEVELOPMENT LENGTH AND SPLICES

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NTS

12



BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d

STANDARD HOOK DEVELOPMENT LENGTH l_{dh}"

BAR SIZE	D	l_{dh}"	NORMAL WEIGHT		
			2,500	3,000	4,000
#3	2 1/4"	6"	0'-9"	0'-9"	0'-8"
#4	3"	8"	1'-0"	0'-11"	0'-10"
#5	3 3/4"	10"	1'-3"	1'-2"	1'-0"
#6	4 1/2"	12"	1'-6"	1'-5"	1'-3"
#7	5 1/4"	1'-2"	1'-9"	1'-8"	1'-5"
#8	6"	1'-4"	2'-0"	1'-10"	1'-7"
#9	9 1/2"	1'-7 1/2"	2'-3"	2'-1"	1'-10"
#10	10 3/4"	1'-10"	2'-7"	2'-4"	2'-1"
#11	12"	2'-0 1/2"	2'-10"	2'-7"	2'-3"

NOTES:
1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
2. MINIMUM SIDE COVER = 2½".
3. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

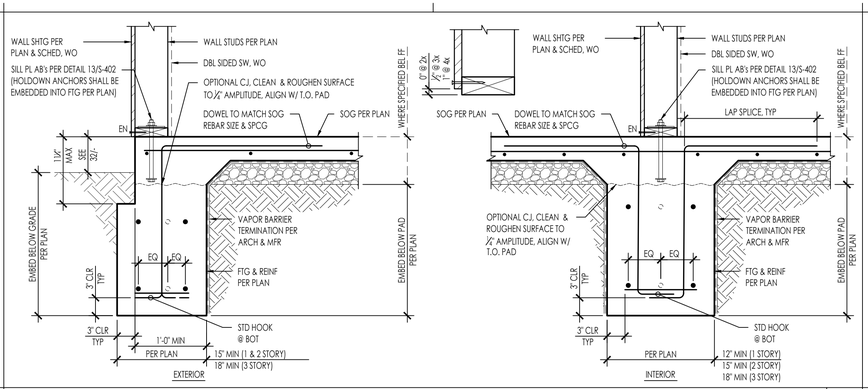
TYPICAL CONCRETE DETAILS

DATE
11/20/2023

SHEET
S-301

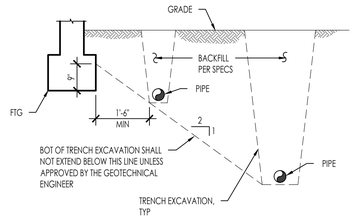
FOR USE BY THE CITY OF WALNUT CREEK

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51 CONTINUOUS WALL FOOTING NTS 31

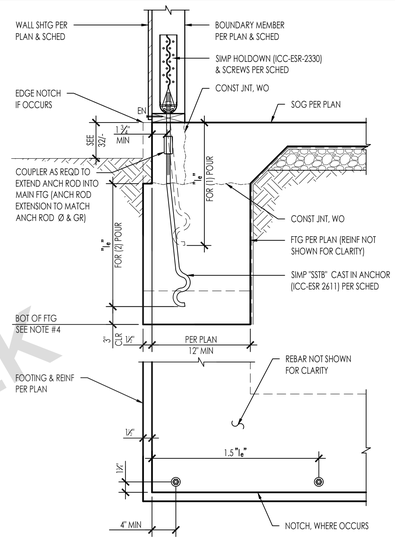
22640-01-CU21 - S311 - 31



NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET STEP FOOTING PER TYPICAL "STEPPED FOOTING" DETAILS (33/S-301) (34/S-301)

21 PIPES PARALLEL TO FOOTINGS NTS

22640-01-CU21 - S311 - 21

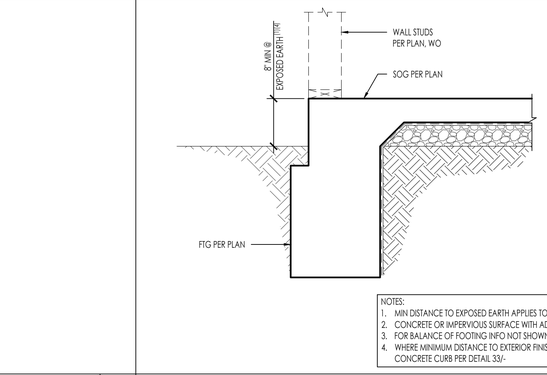


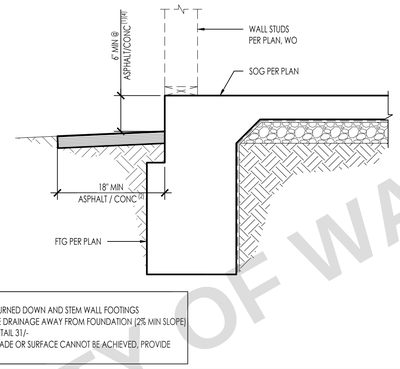
TYPE	HOLDOWN	ANCHOR	DIA [IN]	FASTENERS	BOUNDARY MEMBER MIN THICKNESS [IN]	MIN EMBED 1_e" [IN]	ALLOWABLE LOADS [lbs]	
							CORNER	MIDWALL
6A	HDU4-SDS2.5	SSTB16	⅞	10-SDS¼" x 2½"	3	12⅛	3,780	3,780
6B	HDU5-SDS2.5	SSTB20		14-SDS¼" x 2½"	3	16⅛	4,785	4,785
6C	HDU5-SDS2.5	SSTB24		14-SDS¼" x 2½"	3	20⅞	5,645*	5,645*
6D	HDQ8-SDS3	SSTB28	1⅛	20-SDS¼" x 3"	4½	24⅛	9,230*	9,230*

1. MINIMUM EDGE DISTANCE IS SHOWN ABOVE; ANCHOR LOCATIONS PER PLAN
2. MINIMUM ANCHOR TO ANCHOR SPACING IS $3l_e$
3. * = CAPACITY LIMITED BY HOLDOWN
4. DEEPEN FOOTING AT HOLDOWN ANCHOR AS REQ'D PER DETAIL 32/-

12 SSTB ANCHOR & HOLDOWN @ FOUNDATION NTS

22640-01-CU21 - S311 - 12





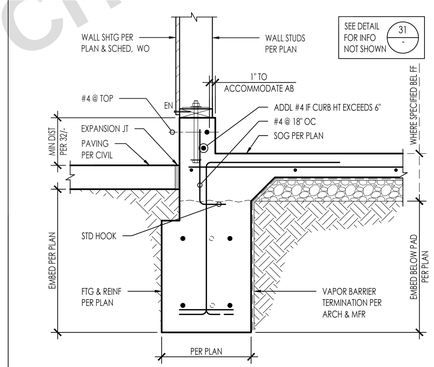
NOTES:
1. MIN DISTANCE TO EXPOSED EARTH APPLIES TO BOTH TURNED DOWN AND STEM WALL FOOTINGS
2. CONCRETE OR IMPERVIOUS SURFACE WITH ADEQUATE DRAINAGE AWAY FROM FOUNDATION (2% MIN SLOPE)
3. FOR BALANCE OF FOOTING INFO NOT SHOWN, SEE DETAIL 31/-
4. WHERE MINIMUM DISTANCE TO EXTERIOR FINISHED GRADE OR SURFACE CANNOT BE ACHIEVED, PROVIDE CONCRETE CURB PER DETAIL 33/-

52 MINIMUM DISTANCE FROM GRADE TO WOOD FRAMING NTS 32

22640-01-CU21 - S311 - 32

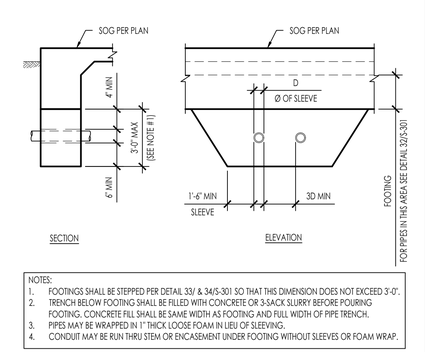
22 SSTB ANCHOR & HOLDOWN @ FOUNDATION NTS 12

22640-01-CU21 - S311 - 12



53 43 EXTERIOR CONTINUOUS WALL FTG W/ CURB NTS 33

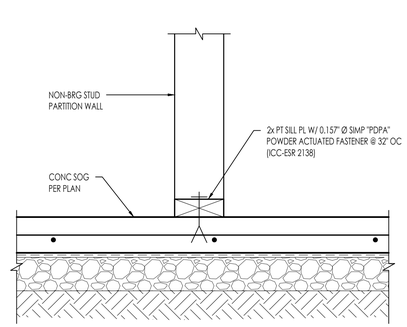
22640-01-CU21 - S311 - 33



NOTES:
1. FOOTINGS SHALL BE STEPPED PER DETAIL 33/ & 34/S-301 SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3-SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
3. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
4. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.

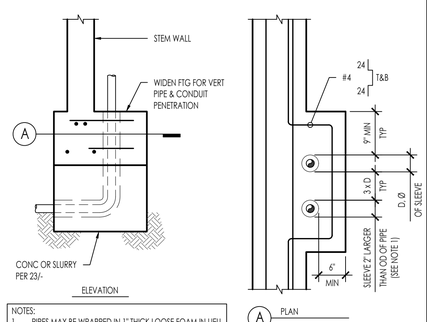
23 PIPES PERPENDICULAR TO FOOTINGS NTS 13

22640-01-CU21 - S311 - 23



54 44 NON-BEARING WALL ANCHORAGE @ SOG NTS 34

22640-01-CU21 - S311 - 34



NOTES:
1. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
2. CONDUIT MAY BE ROUTED UP THROUGH FOOTING WITHOUT SLEEVES OR FOAM WRAP.

24 TYPICAL VERT PIPES OR COND THROUGH FOOTING NTS 14

22640-01-CU21 - S311 - 24

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

CONCRETE DETAILS

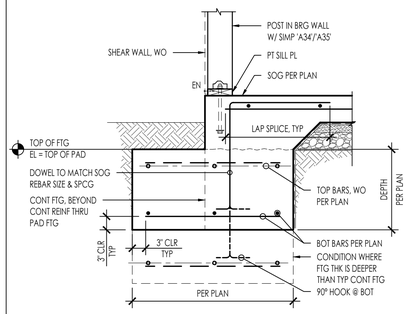
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11/20/2023

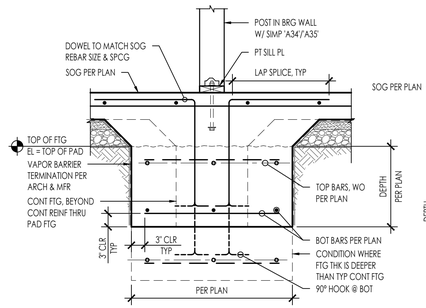
SHEET

S-311

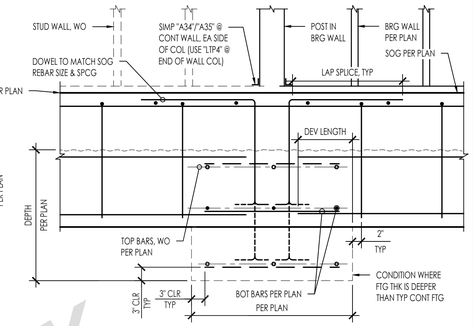
H:\2020\22640-01-cu21-walnut-creek-adu\structural\CorelDocs\sheet files\22640-01-CU21 - S311.dwg, PLAN 2 - S311, Nov 20, 2023 12:35pm, dlopez



A SECTION @ EXTERIOR FTG



B SECTION @ INTERIOR FTG

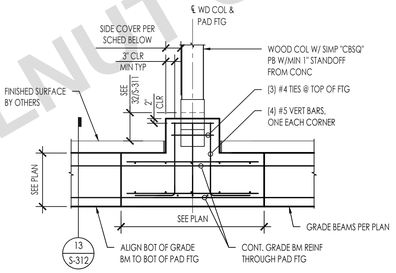


C ELEVATION

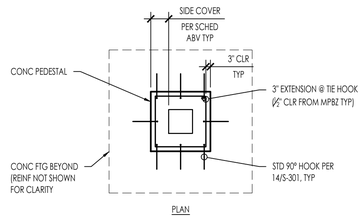
51 | 41 | SPREAD FOOTING @ BEARING WALL POST | 11

2264-01-CI21 - S312

3/4" = 1'-0"



POST SIZE	MIN. SIDE COVER
4x4	0'-3"
6x6	0'-3"
8x8	0'-3"



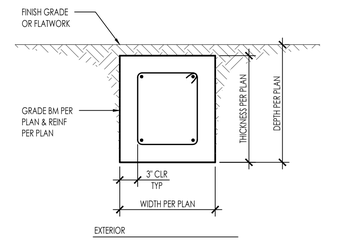
PLAN

52 | 42 | 32

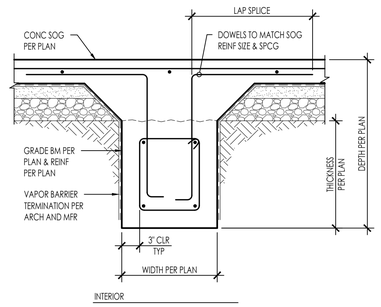
53 | 43 | 33 | PORCH PAD FOOTING | 23

272701-CI222 - S312 - 23

1/2" = 1'-0"



EXTERIOR

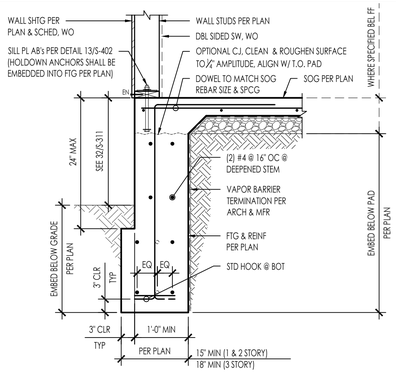


INTERIOR

54 | 44 | 34 | 24 | GRADE BEAM | 13

226401-CI221 - S312

NTS



55 | 45 | 35 | 25 | DEEPEND EXTERIOR FOOTING | 14

226401-CI221 - S312

3/4" = 1'-0"

FOR USE IN THE CITY OF WALNUT CREEK

H:\2020\226401-ci21-walnut-creek-adu\Structural\ContDocs\Sheet files\226401-CI221 - S312.dwg PLAN 2 - S312, Nov 20, 2023 12:35pm, dlopez

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

CONCRETE DETAILS

DATE

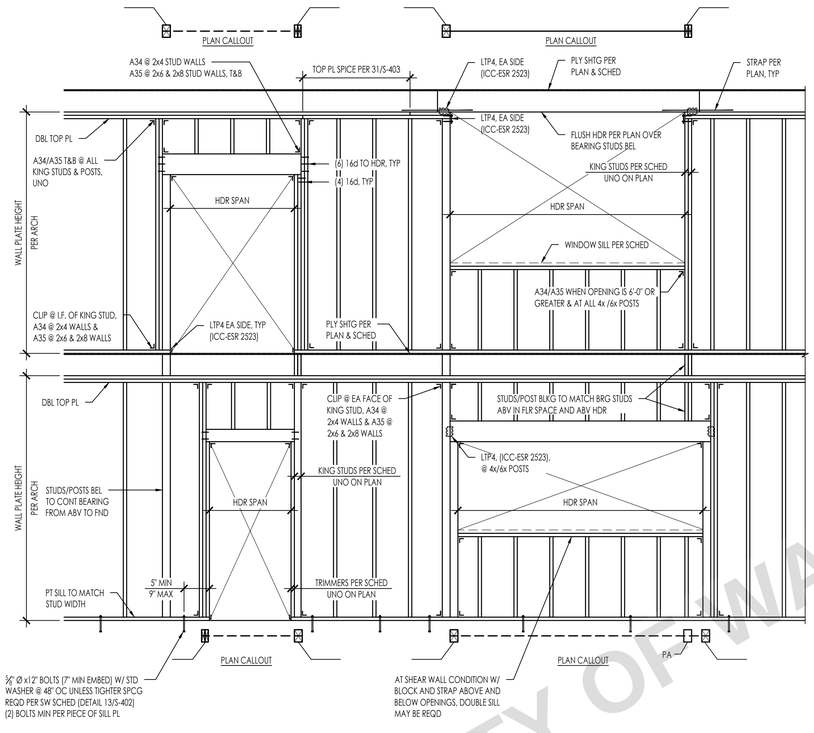
11/20/2023

SHEET

S-312

1-STORY		6 INCH WALLS			
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
	UP TO 3'-0"	6x4	2x	2x6	2x6
	3'-0" - 5'-0"	6x6	2x	2x6	2x6
	5'-0" - 7'-0"	6x8	(2) 2x	2x6	(2) 2x6
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
	UP TO 3'-0"	6x6	2x	2x6	2x6
	3'-0" - 5'-0"	6x8	2x	2x6	2x6
	5'-0" - 7'-0"	6x12	(2) 2x	(2) 2x6	(2) 2x6
1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
	UP TO 3'-0"	6x6	2x	2x6	2x6
	3'-0" - 5'-0"	6x8	2x	2x6	2x6
	5'-0" - 7'-0"	6x12	(2) 2x	(2) 2x6	(2) 2x6

NOTES:
1. THIS DETAIL APPLIES AT ALL EXT WALLS AND INT LOAD BEARING WALLS AND ALSO APPLIES TO SHEAR WALL FRAMING
   A. FOR SHEAR WALLS SEE 34/S-402 FOR ADDTL REQUIREMENTS.
   B. FOR INTERIOR NON-BEARING PARTITIONS SEE DETAIL 43/-
2. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THIS TYPICAL SCHED/DETAILS
3. PROVIDE A34 @ 4" WALLS & A35 @ 6" OR GREATER WALLS (ICC-ESR 2353)



FASTENING SCHEDULE PER 2022 CBC 2304.10.1		
CONNECTION	FASTENING	LOCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
2. BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TO TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL
	2-16d COMMON	END NAIL
3. FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON @ 6" OC	FACE NAIL
4. CEILING JOIST TO TOP PLATE	3-8d COMMON	EACH JOIST, TOENAIL
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3-16d COMMON	FACE NAIL
6. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	3-16d COMMON	FACE NAIL
7. COLLAR TIE TO RAFTER	3-10d COMMON	FACE NAIL
8. RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON	TOENAIL[b]
9. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTER; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON	END NAIL
	3-10d COMMON	TOENAIL
10. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	16d COMMON	16" OC FACE NAIL
11. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON	16" OC EACH EDGE, FACE NAIL
12. CONTINUOUS HEADER TO STUD	4-10d COMMON	TOENAIL
13. TOP PLATE TO TOP PLATE	16d COMMON	16" OC FACE NAIL
14. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	2-16d COMMON	16" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON	TOENAIL
	2-16d COMMON	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON	FACE NAIL
18. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON	TOENAIL
20. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON	6" OC, TOENAIL
21. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON	FACE NAIL
22. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	FACE NAIL
23. BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON APPOSITE SIDE
24. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
26. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON	END NAIL
27. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL

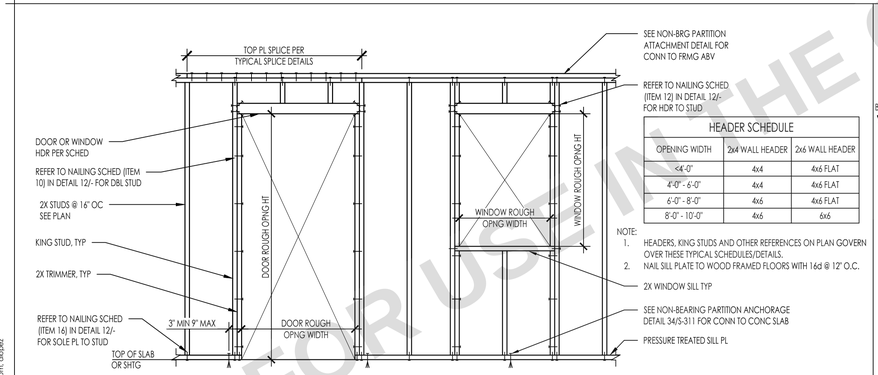
NOTES:
a. THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED
b. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL

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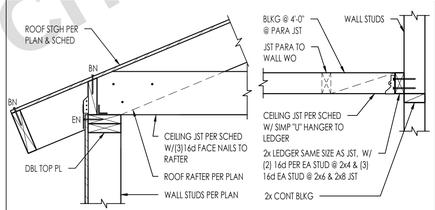
EXTERIOR WALL / INTERIOR WALL BEARING WALL FRAMING
2264-01-C121 - 5401 - 32 — NTS — 32

NAILING SCHEDULE
2264-01-C121 - 5401 - 12 — NTS — 12



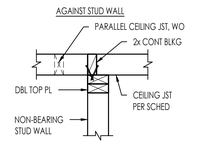
HEADER SCHEDULE		
OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT
8'-0" - 10'-0"	4x6	6x6

NOTE:
1. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THESE TYPICAL SCHEDULES/DETAILS.
2. NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C.



CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 24" OC	8'-0"
2x6 @ 24" OC	12'-0"
2x8 @ 24" OC	16'-0"

NOTE:
THIS DETAIL IS INTENDED FOR CEILING JST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION



INTERIOR NON-BEARING PARTITION WALL FRAMING
2264-01-C121 - 5401 - 43 — NTS — 43

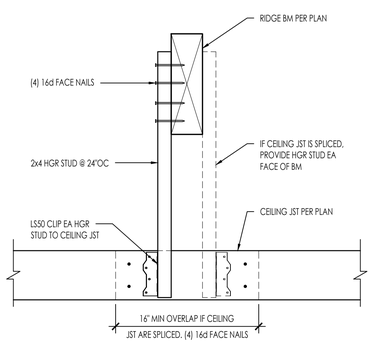
CEILING JOIST SCHED & DETAILS
2264-01-C121 - 5401 - 33 — NTS — 33

23

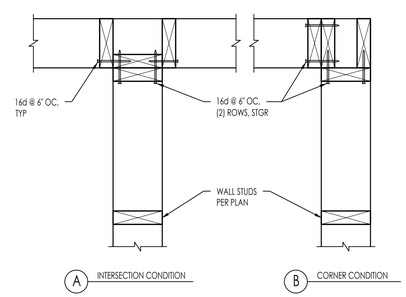
13

54

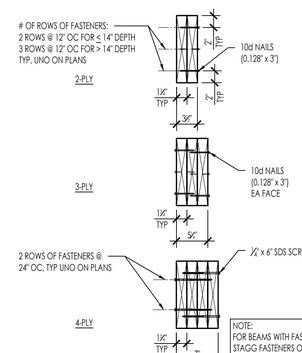
44



CEILING JOIST SUPPORT AT RIDGE
2264-01-C121 - 5401 — NTS — 34



TYPICAL WOOD STUD INTERSECTIONS
2264-01-C121 - 5401 - 24 — NTS — 24



MULTI-PLY MEMBER CONNECTION
2264-01-C121 - 5401 - 14 — NTS — 14

WALNUT CREEK ADU
CITY OF WALNUT CREEK

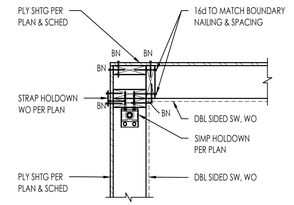
TYPICAL WOOD DETAILS

DATE
11/20/2023

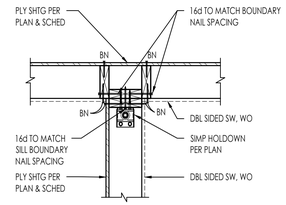
SHEET
S-401

FOR USE IN THE CITY OF WALNUT CREEK

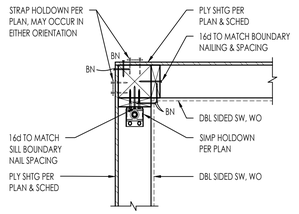
H:\2020\224401-ci-21-walnut-creek-adu\Structural\CorrDocs\Sheet files\224401-C121 - 5401.dwg PLAN 2 - 5401 Nov 20, 2023 12:35pm dlopez



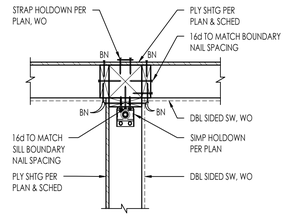
CORNER W/O POST



INTERSECTION W/O POST



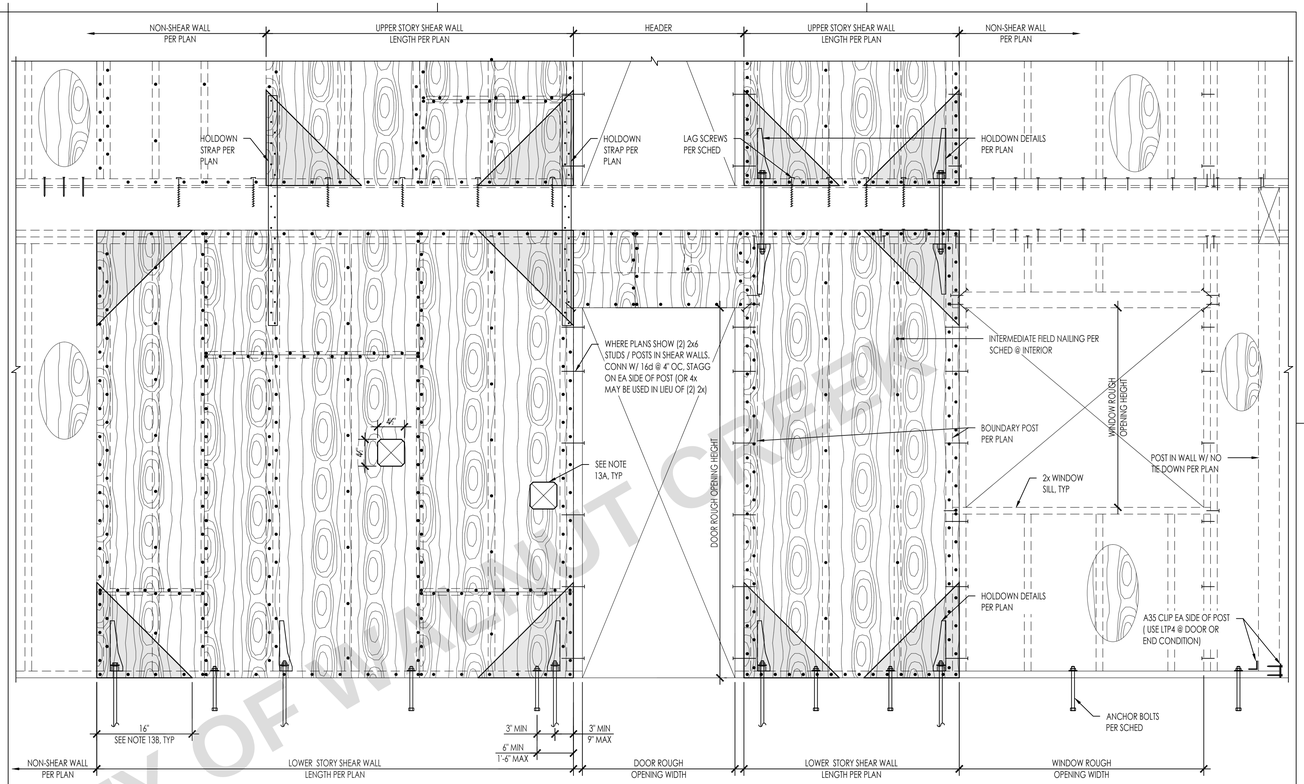
CORNER W/ POST



INTERSECTION W/ POST

SHEAR WALL INTERSECTION

2264-01-C121 - S402 - 42 NTS 42



TYPICAL SHEAR WALL ELEVATION AND SCHEDULE

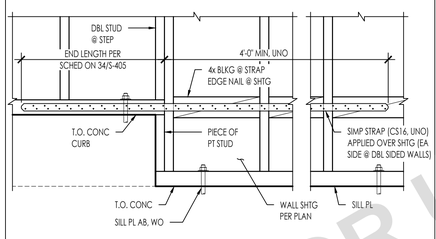
2264-01-C121 - S402 - 13 NTS 13

WALL SYMBOL	STRUCT SHEATHING [1,12]	FRAMING SIZE [6]	NAILING [2,3,4] (2) 2x STUD	NAILING [2,3,4] EDGE	NAILING [2,3,4] INTERMEDIATE SUPPORTS	SILL NAILING [7] NAILS /LAG SCREWS [8]	SILL NAILING [7] SDS SCREWS [14] OPTION	A35s	ANCHOR BOLTING [10, 11]
A	15/32" STRUCT 1 PLYWOOD	2x	10d @ 9" OC	8d @ 6" OC	8d @ 12" OC	16d @ 6" OC	12" OC	24" OC	5/8" DIA @ 48" OC
B	15/32" STRUCT 1 PLYWOOD	2x	10d @ 8" OC	10d @ 6" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 16" OC	12" OC	16" OC	5/8" DIA @ 48" OC
C	15/32" STRUCT 1 PLYWOOD	2x	10d @ 5" OC	10d @ 4" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 16" OC	8" OC	12" OC	5/8" DIA @ 32" OC
D	15/32" STRUCT 1 PLYWOOD	2x	10d @ 4" OC	10d @ 3" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 16" OC	6" OC	8" OC	5/8" DIA @ 32" OC
E	15/32" STRUCT 1 PLYWOOD	2x	10d @ 3" OC	10d @ 2" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 8" OC	4" OC	8" OC	5/8" DIA @ 24" OC
F	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 5" OC	10d @ 4" OC	10d @ 12" OC	5/8"Ø LAG SCREWS @ 8" OC	(2) @ 8" OC *	6" OC	5/8" DIA @ 16" OC
G	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 4" OC	10d @ 3" OC	10d @ 8" OC	5/8"Ø LAG SCREWS @ 8" OC	(2) @ 6" OC *	A34 @ 4" OC	5/8" DIA @ 16" OC
H	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 3" OC	10d @ 2" OC	10d @ 6" OC	5/8"Ø LAG SCREWS @ 6" OC	(2) @ 4" OC *	LTP4 @ [15] 4" OC	5/8" DIA @ 8" OC

NOTES:
1. ALL PLYWOOD SHALL BE 5 PLY MINIMUM WITH A SPAN RATING OF 32/16 AND ALL PANEL EDGES SHALL BE BLOCKED. PROVIDE 1/8" GAP AT ALL PANEL JOINTS.
2. ALL NAILS SHALL BE COMMON NAILS.
3. PROVIDE E.N. AT ALL END STUDS, STUDS/POSTS WITH HOLDOWNS OR TIE DOWN STRAPS, SILL PLATES AND TOP PLATES.
4. WHERE 10d NAILS ARE 3 INCHES ON CENTER OR LESS, NAILS SHALL BE STAGGERED.
5. NAILS SHALL BE 1/2 INCH MINIMUM FROM PLYWOOD PANEL EDGE AND 3/8 INCH MINIMUM FROM CONNECTING MEMBER EDGE WHERE SHEAR EXCEEDS 300 PLF.
6. USE 3x FRAMING AT BOTTOM SILL PLATES, BLOCKING AND ALL STUDS AT ADJACENT PANEL EDGES WHERE SHEAR EXCEEDS 300 PLF. STRUCTURALLY ACCEPTABLE TO USE (2) 2x INSTEAD OF 3x FRAMING AT BOTTOM SILL PLATES.
7. WHERE SILL SHEAR TRANSFER IS THROUGH LAG SCREWS, SILL PLATE SHALL BE A MINIMUM OF 2 1/2" THICK.
8. LAG SCREWS SHALL BE 6 INCHES LONG AND HOLES ARE TO BE PRE-DRILLED AS TO NOT SPLIT BLOCKING/RIM.
9. SEE ELEVATION ABOVE FOR TYPICAL CONSTRUCTION.
10. REFER TO PLATE WASHER DETAIL FOR REQUIREMENTS
11. LENGTHEN ANCHOR BOLTS AS REQUIRED FOR EMBEDMENT AND SILL PLATE THICKNESS.
12. ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD NOTED ABOVE PROVIDED IT IS RATED BY APA'S PERFORMANCE STANDARD RATING AND IS OF THE SAME NUMBER OF LAYERS AS PLYWOOD PLY INDICATED.
13. LIMITATIONS OF MECHANICAL PENETRATIONS IN SHEAR WALLS:
    A. 4 1/2" MAX PENETRATION
    B. NO CUTS OR HOLES IN SHEATHING WITHIN 16" OF CORNERS, SQUARE PENETRATIONS SHALL RADIUS EDGES. DO NOT OVER CUT HOLE WITH SAW
14. ASSUMES A 1 1/4" MIN LSL RIM BOARD. FASTENER EDGE DIST IS 5/8" MIN & 6" END DISTANCE MIN. 2" MIN PENETRATION INTO RIM BOARD.
    * WALL W/ DOUBLE SIDED PLYWOOD REQUIRE (2) RIM BOARDS.
15. SIMPSON 'LTP4' CLIP SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION. IF CLIP IS INSTALLED OVER THE SHEATHING, O.131" x 2 1/2" NAILS SHALL BE USED.

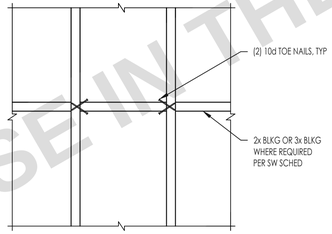
CITY OF WALNUT CREEK

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.



STRAP AT STEP IN SHEAR WALL SILL PLATE

2264-01-C121 - S402 - 53 NTS 53



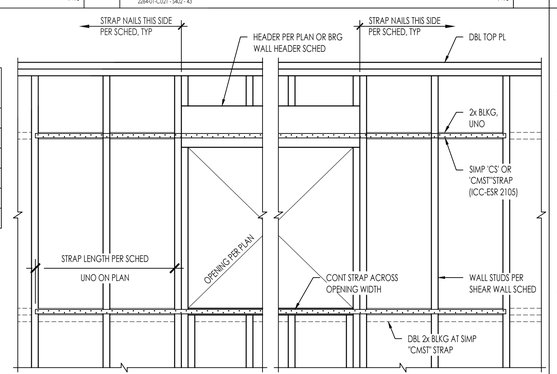
ELEVATION

TYPICAL BLOCKING DETAIL

2264-01-C121 - S402 - 43 NTS 43

MARK	# OF BLKG	SIMPSON STRAP	NAILS EA SIDE OF OPENING	STRAP LENGTH (IN)	ALLOWABLE TENSION LOADS (LBS)
▽	1	CS20	(12) 10d x 2½"	32[1]	1,030
▽	1	CS16	(20) 10d x 2½"		1,705
▽	1	CS14	(26) 10d x 2½"		2,490
▽	2	CMSTC16	(50) 10d x 3¼"		4,690
▽	2	CMST14	(66) 10d x 2½"		6,475
▽	2	CMST12	(86) 10d x 2½"	39	9,215

NOTES:
1. 2 BAYS OR 32" MIN STRAP LENGTH
2. BOUNDARY AND EDGE NAILING FROM PLYWOOD TO STUDS / FRAMING SHALL OCCUR ABOVE AND BELOW OPENINGS AT THIS CONDITION
3. SEE TYPICAL SHEAR WALL ELEVATION FOR BALANCE OF INFO NOT SHOWN



FORCE TRANSFER AROUND OPENINGS

2264-01-C121 - S402 - 44 NTS 44

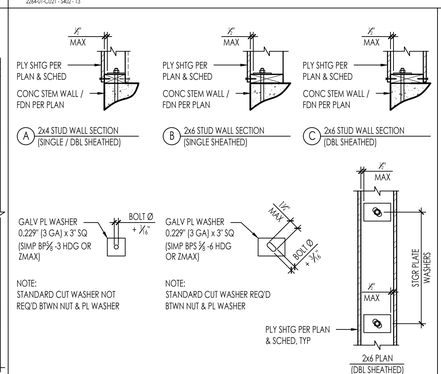
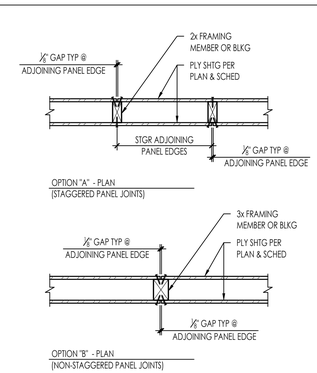


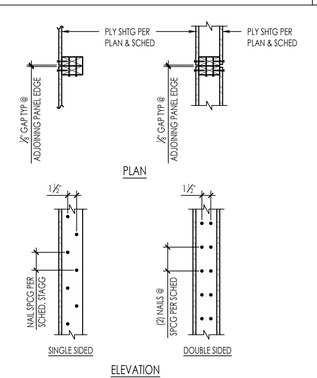
PLATE WASHER DETAIL

2264-01-C121 - S402 - 34 NTS 34



DOUBLE SIDED SHEAR WALL

2264-01-C121 - S402 - 24 NTS 24



2x STUD NAILING @ ADJOINING PANEL EDGES

2264-01-C121 - S402 - 14 NTS 14

WALNUT CREEK ADU
CITY OF WALNUT CREEK

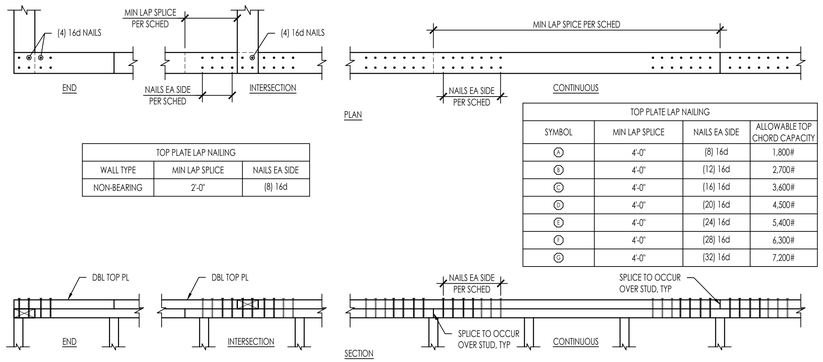
TYPICAL WOOD DETAILS

DATE
11/20/2023

SHEET
S-402

FOR USE IN THE CITY OF WALNUT CREEK

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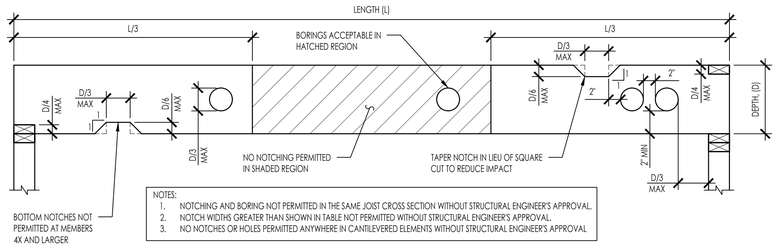


TOP PLATE LAP NAILING		
WALL TYPE	MIN LAP SPLICE	NAILS EA SIDE
NON-BEARING	2'-0"	(8) 16d

TOP PLATE LAP NAILING			
SYMBOL	MIN LAP SPLICE	NAILS EA SIDE	ALLOWABLE TOP CHORD CAPACITY
Ⓐ	4'-0"	(8) 16d	1,800#
Ⓑ	4'-0"	(12) 16d	2,700#
Ⓒ	4'-0"	(16) 16d	3,600#
Ⓓ	4'-0"	(20) 16d	4,500#
Ⓔ	4'-0"	(24) 16d	5,400#
Ⓕ	4'-0"	(28) 16d	6,300#
Ⓖ	4'-0"	(32) 16d	7,200#

51 DBL TOP PLATE SPLICE NAILING NTS 31

2264-01-CU21 - S403 - 32

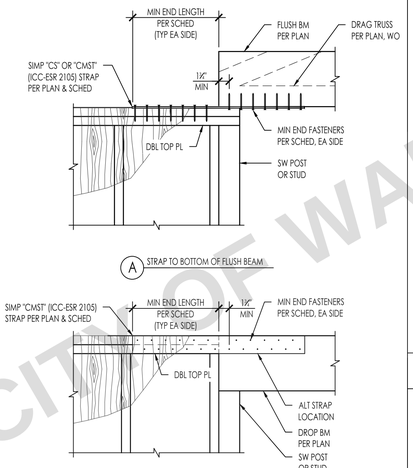


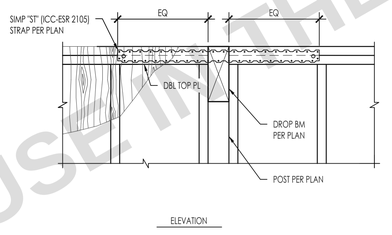
NOTES:
1. NOTCHING AND BORING NOT PERMITTED IN THE SAME JOIST CROSS SECTION WITHOUT STRUCTURAL ENGINEER'S APPROVAL.
2. NOTCH WIDTHS GREATER THAN SHOWN IN TABLE NOT PERMITTED WITHOUT STRUCTURAL ENGINEER'S APPROVAL.
3. NO NOTCHES OR HOLES PERMITTED ANYWHERE IN CANTILEVERED ELEMENTS WITHOUT STRUCTURAL ENGINEER'S APPROVAL

NOTCH AND HOLE LIMITATIONS				
JOIST SIZE	MAX HOLE	MAX NOTCH DEPTH	MAX END NOTCH	MAX NOTCH LENGTH
2X4	NONE	NONE	NONE	NONE
2X6	1⅞"	⅝"	1⅜"	1⅜"
2X8	2⅜"	1¼"	1⅞"	2⅜"
2X10	3"	1½"	2⅜"	3"
2X12	3¾"	1⅞"	2⅞"	3¾"

SAWN LUMBER AND RAFTER JOIST NOTCHING AND BORING LIMITATIONS NTS 42

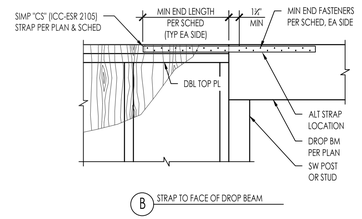
2264-01-CU21 - S403 - 42

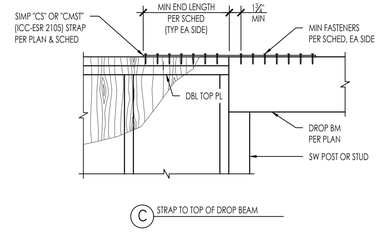




53 STRAP AT INTERRUPTED DOUBLE TOP PLATE NTS 43

2264-01-CU21 - S403 - 34

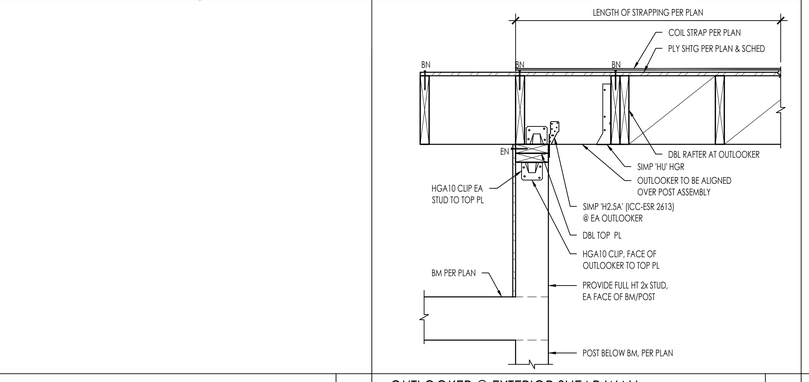




STRAP MODEL	END FASTENERS	END LENGTH (IN)	ALLOWABLE TENSION LOADS (lbs)
CS16	(20) 10d	11	1,705
	(22) 8d	13	
CS14	(26) 10d	15	2,490
	(30) 8d	16	
CMSTC16	(50) 16d	20	4,690
CMST14	(56) 16d	26	6,475
	(66) 10d	30	
CMST12	(74) 16d	33	9,215
	(86) 10d	39	

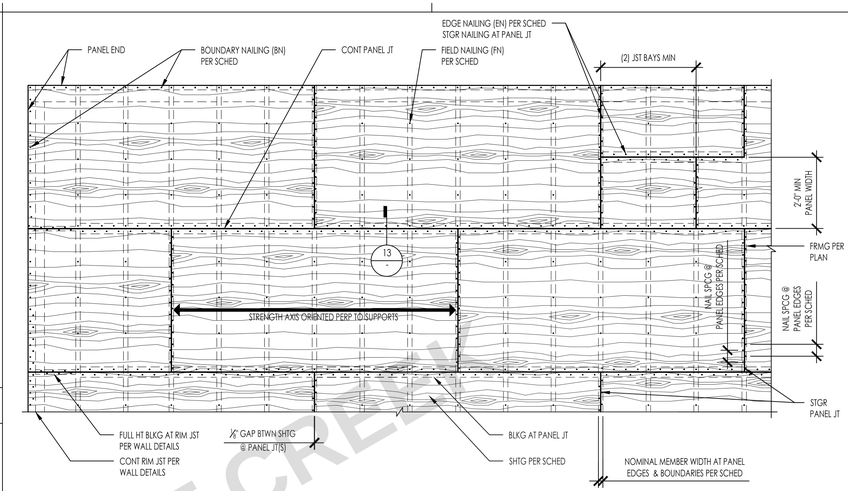
DRAG STRAP AT BEAM-TO-WALL NTS 34

2264-01-CU21 - S403 - 34



54 OUTLOOKER @ EXTERIOR SHEAR WALL 1" = 1'-0" 44

2264-01-CU21 - S403 - 12

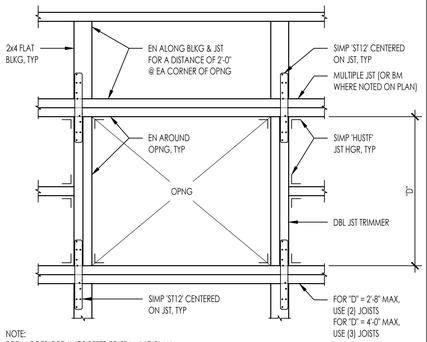


DIAPHRAGM SCHEDULE											
TYPE	LOCATION	SHEATHING THICKNESS	SHEATHING GRADE [4]	SPAN RATING	BLOCKING	NAILS	BOUNDARY NAILING (BN)	EDGE NAILING AT CONT. PANEL EDGES (EN)	EDGE NAILING AT OTHER PANEL EDGES (EN)	FIELD NAILING (FN)	PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES	LINES OF FASTENERS
A	ROOF	SEE NOTE 5	SHEATHING	32 / 16	NO	10d	6	-	6	12	H-CLIPS	1
B	ROOF	SEE NOTE 5	SHEATHING	32 / 16	YES	10d	4	4	6	12	2x FLAT	1

NOTES:
1. NOT USED.
2. MINIMUM EDGE DISTANCE FOR NAILS SHALL BE ⅜" FROM SHEATHING EDGE AND ½" FROM LUMBER EDGE.
3. NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND SHALL NOT PENETRATE THE TOP OF PLYWOOD MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS.
4. WHERE H-CLIPS ARE SPECIFIED, THEY SHOULD BE INSTALLED AS FOLLOWS:
   A. ONE H-CLIP SHALL BE PLACED BETWEEN ABUTTING PANELS AT A LOCATION MIDWAY BETWEEN EACH PAIR OF TRUSSES, RAFTERS OR JOISTS. HOWEVER, (2) H-CLIPS ARE REQUIRED BETWEEN SUPPORTS WHEN SPACED 48 INCHES ON CENTER
   B. USE THE SAME SIZE PANEL EDGE CLIP AS THE PANEL THICKNESS. H-CLIPS MUST FIT SNUGLY
   C. ABUTTING WOOD STRUCTURAL PANELS BE FITTED AS CLOSELY AS CLIPS PERMIT. OCCASIONAL MISFIT OF ABUTTING SHEETS MAY BE TOLERATED PROVIDING THAT GAPS DO NOT EXCEED MAXIMUM OPENING OF ⅛".
5. ROOF SHEATHING THICKNESS SHALL BE INSTALLED AS FOLLOWS:
   A. 7/16 @ SINGLE PLY OR ASPHALT SHINGLES
   B. 15/32 @ TILE
   C. 23/32 @ TILE WITH MORTAR
6. STRUCTURALLY ACCEPTABLE TO USE "SHEATHING" SHEATHING GRADE @ FLOOR LOCATIONS WITHOUT GYPCRETE TOPPING

PLYWOOD DIAPHRAGM SHEATHING NTS 12

2264-01-CU21 - S403 - 12



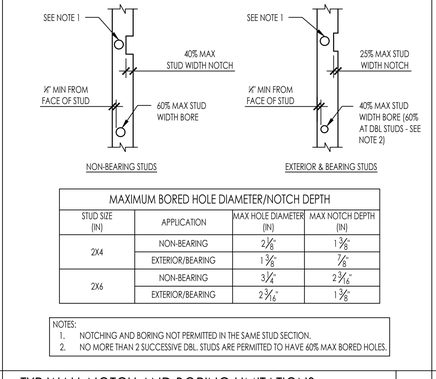
NOTE:
FOR LARGER OPENINGS REFER TO FRAMING PLAN

OPENING AT FRAMING NTS 23

2264-01-CU21 - S403 - 23

DIAPHRAGM PANEL JOINTS NTS 13

2264-01-CU21 - S403 - 13

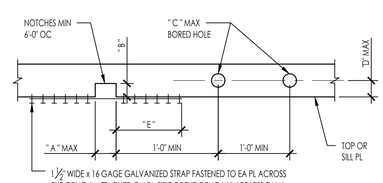


MAXIMUM BORED HOLE DIAMETER/NOTCH DEPTH			
STUD SIZE (IN)	APPLICATION	MAX HOLE DIAMETER (IN)	MAX NOTCH DEPTH (IN)
2X4	NON-BEARING	2⅛"	1⅜"
	EXTERIOR/BEARING	1⅜"	⅞"
2X6	NON-BEARING	3¼"	2 7/16"
	EXTERIOR/BEARING	2 7/16"	1⅜"

NOTES:
1. NOTCHING AND BORING NOT PERMITTED IN THE SAME STUD SECTION.
2. NO MORE THAN 2 SUCCESSIVE DBL. STUDS ARE PERMITTED TO HAVE 60% MAX BORED HOLES.

TYP WALL NOTCH AND BORING LIMITATIONS NTS 24

2264-01-CU21 - S403 - 24



NOTCH AND HOLE LIMITATIONS						
TOP PL OR SILL PL	A	B	C	D	E	F
2X4	3½"	1½"	1¼"	1½"	5¾"	6
2X6	4½"	2¼"	3¼"	2½"	8¼"	9
2X8	5½"	3"	3¼"	3½"	12¼"	12

TOP PL AND SILL NOTCH AND BORING LIMITATIONS NTS 14

2264-01-CU21 - S403 - 14

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

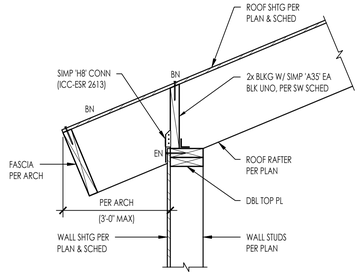
CITY OF WALNUT CREEK

TYPICAL WOOD DETAILS

DATE
11/20/2023

SHEET
S-403

N:\2000\2264-01-cu21-walnut-creek-adu\Structural\ConDocs\Sheet-files\2264-01-CU21 - S403.dwg, PLAN 2 - S403, Nov 20, 2023 12:35pm, dlopez

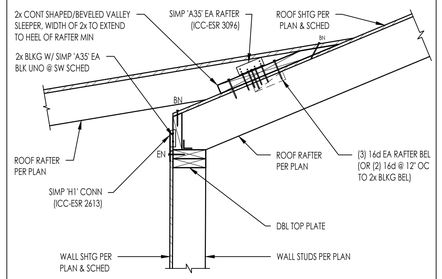


RAFTER @ EXTERIOR SHEAR WALL

226401-CU21 - 5421 - 51

1" = 1'-0"

51

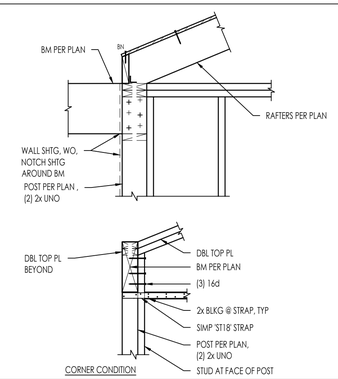


PORCH SHED ROOF AT WALL

226401-CU21 - 5421 - 41

1" = 1'-0"

41

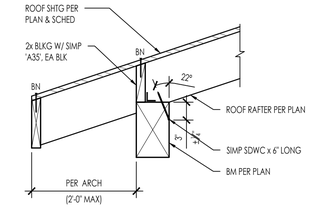


BEAM POCKET THROUGH EXTERIOR WALL

226401-CU21 - 5421 - 31

NTS or 3/4" = 1'-0"

31



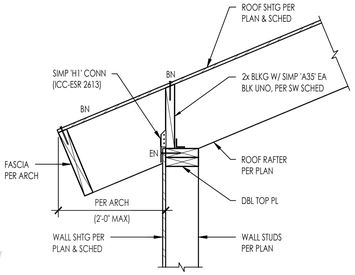
NOTES:
1. PLYWOOD FIELD NAILING NOT SHOWN FOR CLARITY. REFER TO DIAPHRAGM AND SHEAR WALL SCHEDULE
2. REFER TO GENERAL NOTES FOR GUILDELINES ON EXPOSED MEMBERS AND CONNECTORS AT EXTERIOR CONDITION

ROOF TO BEAM

226401-CU21 - 5421 - 21

1" = 1'-0"

21

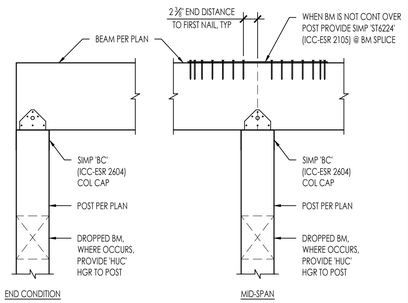


RAFTER @ EXTERIOR SHEAR WALL

226401-CU21 - 5421 - 11

1" = 1'-0"

11



BEAM TO POST CONNECTION

226401-CU21 - 5421 - 52

1" = 1'-0"

52

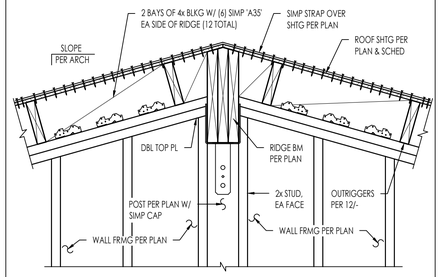
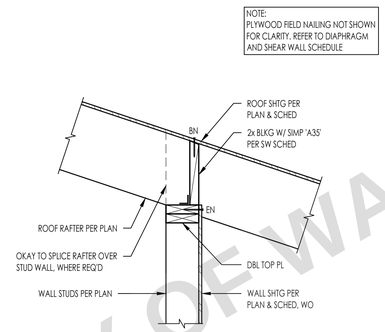


PLATE TIE @ RIDGE BEAM

226401-CU21 - 5421 - 42

1" = 1'-0"

42

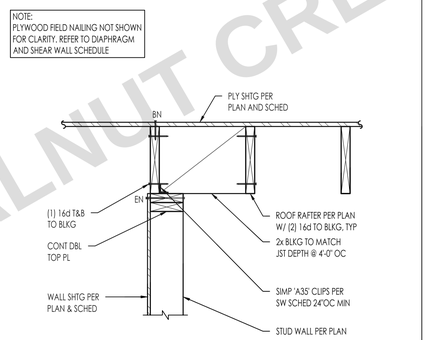


RAFTER TO WALL BELOW

226401-CU21 - 5421 - 32

1" = 1'-0"

32

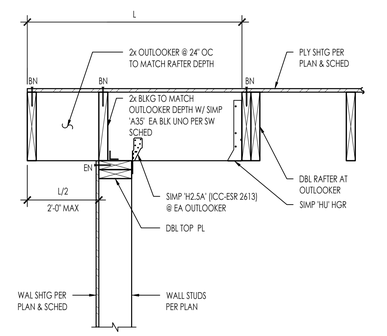


INTERIOR SHEAR WALL (JOIST PARALLEL)

226401-CU21 - 5421 - 22

1" = 1'-0"

22

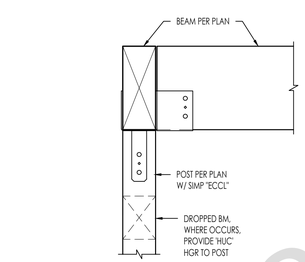


OUTLOOKER @ EXTERIOR SHEAR WALL

226401-CU21 - 5421 - 12

1" = 1'-0"

12

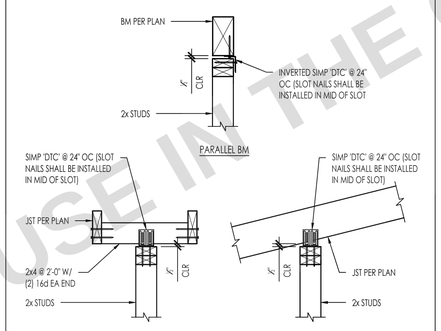


POST TO BEAM CONNECTION W/ BOLTS

226401-CU21 - 5421 - 53

1" = 1'-0"

53

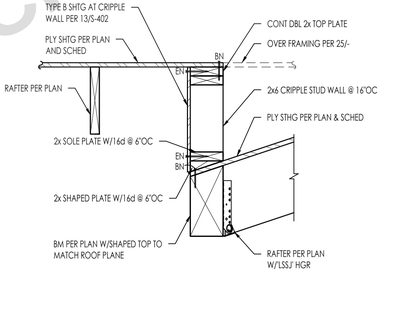


NON-BEARING TOP PLATE CONNECTION

226401-CU21 - 5421 - 43

NTS

43

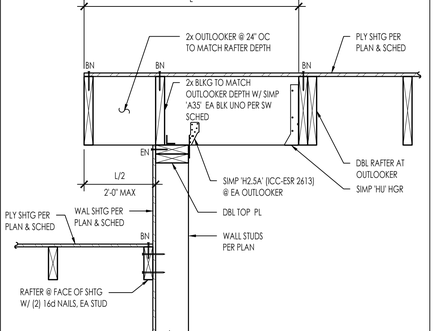


CHANGE IN DIRECTION

226401-CU21 - 5421 - 33

1" = 1'-0"

33

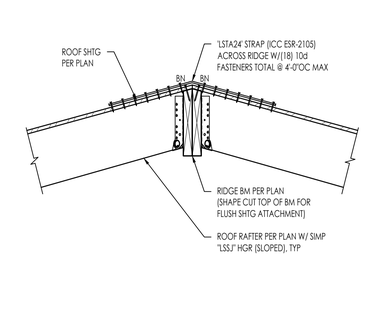


OUTLOOKER @ EXTERIOR SHEARWALL

226401-CU21 - 5422 - 23

1" = 1'-0"

23

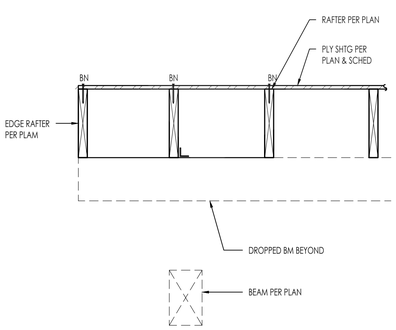


RAFTER @ RIDGE BM

226401-CU21 - 5421 - 13

1" = 1'-0"

13

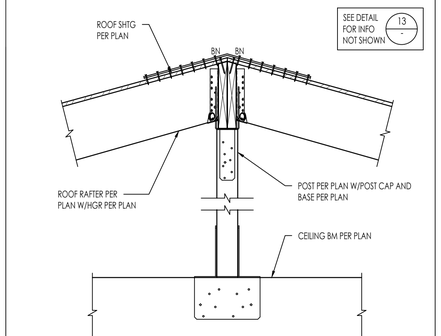


OUTLOOKER @ EXTERIOR SHEAR WALL

226401-CU21 - 5421 - 12

1" = 1'-0"

54

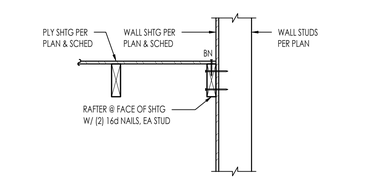


INTERIOR RIDGE BM SUPPORT

226401-CU21 - 5421 - 44

1" = 1'-0"

44

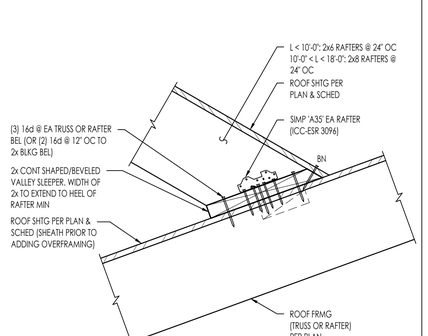


ROOF RAFTER TO EXTERIOR WALL (PARA)

226401-CU21 - 5421

1" = 1'-0"

34

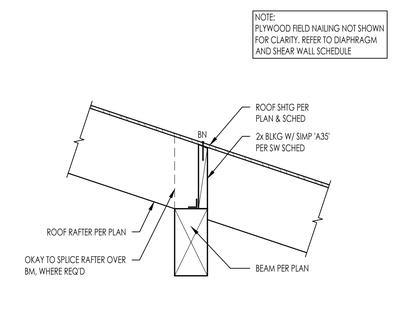


CALIFORNIA FRAMING SLEEPER

226401-CU21 - 5421 - 24

NTS

24



RAFTER TO DROPPED BEAM

226401-CU21 - 5421 - 14

1" = 1'-0"

14

FOR USE IN THE CITY OF WALNUT CREEK

CITY OF WALNUT CREEK

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WALNUT CREEK ADU

CITY OF WALNUT CREEK

ROOF FRAMING DETAILS

DATE

11/20/2023

SHEET

S-421

H:\2020\226401-cu21-walnut-creek-adu\Structural\CorelDocs\Sheet Files\226401-CU21 - 5421.dwg, Plan 2 - 5421, Nov 20, 2023 12:53pm, dlopez

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
Walnut Creek ADUs (Plan 2)
Walnut Creek, CA

Project Designer:
RRM Design Group
3765 South Higuera St Ste 102
San Luis Obispo, CA 93401

Report Prepared by:
Timothy Carstairs, CEA, HERS, GPR
Carstairs Energy Inc.
2238 Bayview Heights Drive, Suite E
Los Osos, CA 93402
805-904-9048

Job Number:
23-02066

Date:
8/28/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.
This program developed by EnergySoft, LLC – www.energysoft.com.

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Form MF1R Mandatory Measures Summary 16
Room Load Summary 21

Project Name: Walnut Creek ADUs (Plan 2) — **Calculation Date/Time:** 2023-08-28T14:08:17-07:00
Calculation Description: Title 24 Analysis — **Input File Name:** Walnut Creek ADUs (Plan 2).ribd22x

GENERAL INFORMATION					
01	Project Name	Walnut Creek ADUs (Plan 2)			
02	Run Title	Title 24 Analysis			
03	Project Location	_			
04	City	Walnut Creek	05	Standards Version	2022
06	Zip code		07	Software Version	EnergyPro 9.2
08	Climate Zone	12	09	Front Orientation (deg/ Cardinal)	All orientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1
14	Addition Cond. Floor Area (ft^2)	0	15	Number of Stories	1
16	Existing Cond. Floor Area (ft^2)	n/a	17	Fenestration Average U-factor	0.3
18	Total Cond. Floor Area (ft^2)	615	19	Glazing Percentage (%)	16.15%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Fuel Type	All electric	23	Occupancy U:	No

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 223-P010082820B-000-000-0000000-0000 — Registration Date/Time: 2023-08-28 15:45:42 — HERS Provider: CalCERTS inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance — Report Version: 2022.0.000 — Schema Version: rev 20220901 — Report Generated: 2023-08-28 14:09:26

Project Name: Walnut Creek ADUs (Plan 2) — **Calculation Date/Time:** 2023-08-28T14:08:17-07:00
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ENERGY DESIGN RATINGS	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency[1] EDR (EDR2efficiency)	Total[2] EDR (EDR2total)	Source Energy (EDR1)	Efficiency[1] EDR (EDR2efficiency)	Total[2] EDR (EDR2total)
Standard Design	36.9	33.1	47.5			
Proposed Design						
North Facing	32.5	26.6	43.4	4.4	6.5	4.1
East Facing	32.4	26.4	43.3	4.5	6.7	4.2
South Facing	32.3	26.7	43.5	4.6	6.4	4
West Facing	32.7	28.2	44.4	4.2	4.9	3.1
RESULT[3]: PASS						

[1]Efficiency EDR includes improvements like a better building envelope and more efficient equipment
[2]Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries
[3]Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

- Standard Design PV Capacity: 0.00 kWdc
- Proposed PV Capacity Scaling: North (0.00 kWdc) East (0.00 kWdc) South (0.00 kWdc) West (0.00 kWdc)

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft^2 -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft^2 -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft^2 -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft^2 -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	5.22	35.46	4.27	33.52	0.95	1.94
Space Cooling	1.14	30.52	0.72	24.23	0.42	6.29
IAQ Ventilation	0.41	4.44	0.41	4.44	0	0
Water Heating	3.72	38.98	2.38	25.89	1.34	13.09
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	**10.49**	**109.4**	**7.78**	**88.08**	**2.71**	**21.32**
Space Heating	5.22	35.46	4.12	31.67	1.1	3.79
Space Cooling	1.14	30.52	0.79	25.34	0.35	5.18
IAQ Ventilation	0.41	4.44	0.41	4.44	0	0
Water Heating	3.72	38.98	2.37	25.82	1.35	13.16
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	**10.49**	**109.4**	**7.69**	**87.27**	**2.8**	**22.13**

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Calculation Description: Title 24 Analysis — **Input File Name:** Walnut Creek ADUs (Plan 2).ribd22x

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft^2 -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft^2 -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft^2 -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft^2 -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	5.22	35.46	3.99	30.85	1.23	4.61
Space Cooling	1.14	30.52	0.84	27.22	0.3	3.3
IAQ Ventilation	0.41	4.44	0.41	4.44	0	0
Water Heating	3.72	38.98	2.37	25.81	1.35	13.17
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	**10.49**	**109.4**	**7.61**	**88.32**	**2.88**	**21.08**
Space Heating	5.22	35.46	4.2	33.06	1.02	2.4
Space Cooling	1.14	30.52	0.91	29.88	0.23	0.64
IAQ Ventilation	0.41	4.44	0.41	4.44	0	0
Water Heating	3.72	38.98	2.37	25.85	1.35	13.13
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	**10.49**	**109.4**	**7.89**	**93.23**	**2.6**	**16.17**

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ENERGY USE INTENSITY	Standard Design (kBtu/ft^2 - yr)	Proposed Design (kBtu/ft^2 - yr)	Compliance Margin (kBtu/ft^2 - yr)	Margin Percentage
North Facing				
Gross EUI[1]	29.67	26.21	3.46	11.66
Net EUI[2]	29.67	26.21	3.46	11.66
East Facing				
Gross EUI[1]	29.67	26.13	3.54	11.93
Net EUI[2]	29.67	26.13	3.54	11.93
South Facing				
Gross EUI[1]	29.67	26.05	3.62	12.2
Net EUI[2]	29.67	26.05	3.62	12.2
West Facing				
Gross EUI[1]	29.67	26.43	3.24	10.92
Net EUI[2]	29.67	26.43	3.24	10.92

Notes
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
2. Net EUI is Energy Use Total (including PV) / Total Building Area.

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REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
0		Standard (14-17%)	Fixed	none	true	n/a	n/a	n/a	n/a	n/a	

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- PV exception 2: No PV required when minimum PV size (Section 150.1(c)14) < 1.8 kWdc (0 kW)
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Indoor air quality ventilation
- Kitchen range hood
- Verified Refrigerant Charge
- Airflow in habitable rooms (SC3.1.4.1.7)
- Verified heat pump rated heating capacity
- Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5)
- Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft^2)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Walnut Creek ADUs (Plan 2)	615	1	1	1	0	1

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ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft^2)	Avg. Ceiling Height	Water Heating System 1	Status
Living Area	Conditioned	HVAC System1	615	8	DHW Sys 1	New

OPAQUE SURFACES

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft^2)	Window and Door Area (ft2)	Tilt (deg)
Front Wall	Living Area	R21 Wall	0	Front	224	56	90
Left Wall	Living Area	R21 Wall	90	Left	200	33.3	90
Rear Wall	Living Area	R21 Wall	180	Back	224	6	90
Right Wall	Living Area	R21 Wall	270	Right	200	4	90
Roof	Living Area	R-38 Roof Attic	n/a	n/a	615	n/a	n/a

ATTIC

01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic Living Area	Attic RoofLiving Area	Ventilated	4	0.1	0.85	Yes	No

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft^2)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
05	Window	Front Wall	Front	0			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
Door 01	Window	Front Wall	Front	0			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
01	Window	Front Wall	Front	0			1	20	0.3	NFRC	0.23	NFRC	Bug Screen

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FOR USE IN THE CITY OF WALNUT CREEK
CalCERTS, Inc. HERS PROVIDER

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WALNUT CREEK ADU
CITY OF WALNUT CREEK

ENERGY COMPLIANCE - PLAN 2

DATE
02/10/2023

SHEET
T24-201

11/20/2023 1:47:51 PM
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11/20/2023 1:47:57 PM
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FENESTRATION / GLAZING

01 Name	02 Type	03 Surface	04 Orientation	05 Azimuth	06 Width (ft)	07 Height (ft)	08 Mult.	09 Area (ft^2)	10 U-factor	11 U-factor Source	12 SHGC	13 SHGC Source	14 Exterior Shading
Door 02	Window	Left Wall	Left	90			1	33.3	0.3	NFRC	0.23	NFRC	Bug Screen
03	Window	Rear Wall	Back	180			1	6	0.3	NFRC	0.23	NFRC	Bug Screen
04	Window	Right Wall	Right	270			1	4	0.3	NFRC	0.23	NFRC	Bug Screen

SLAB FLOORS

01 Name	02 Zone	03 Area (ft^2)	04 Perimeter (ft)	05 Edge Insul. R-value and Depth	06 Edge Insul. R-value and Depth	07 Carpeted Fraction	08 Heated
Slab	Living Area	615	106	none	0	80%	No

OPAQUE SURFACE CONSTRUCTIONS

01 Construction Name	02 Surface Type	03 Construction Type	04 Framing	05 Total Cavity R-value	06 Interior / Exterior Continuous R-value	07 U-factor	08 Assembly Layers
R21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.069	inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
Attic Roof/Living Area	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4
R-38 Roof/ Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 inside Finish: Gypsum Board

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BUILDING ENVELOPE - HERS VERIFICATION

01 Quality Insulation Installation (QII)	02 High R-value Spray Foam Insulation	03 Building Envelope Air Leakage	04 CFM50	05 CFM50
Not Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS

01 Name	02 System Type	03 Distribution Type	04 Water Heater Name	05 Number of Units	06 Solar Heating System	07 Compact Distribution	08 HERS Verification	09 Water Heater Name (#)
DHW Sys.1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

WATER HEATERS - NEEA HEAT PUMP

01 Name	02 # of Units	03 Tank Vol. (gal)	04 NEEA Heat Pump Brand	05 NEEA Heat Pump Model	06 Tank Location	07 Duct Inlet Air Source	08 Duct Outlet Air Source
DHW Heater 1	1	40	Rheem	Rheem HPLD40-1RH	Outside	Living Area	Living Area

WATER HEATING - HERS VERIFICATION

01 Name	02 Pipe Insulation	03 Parallel Piping	04 Compact Distribution	05 Compact Distribution Type	06 Recirculation Control	07 Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

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SPACE CONDITIONING SYSTEMS

01 Name	02 System Type	03 Heating Unit Name	04 Heating Equipment Count	05 Cooling Unit Name	06 Cooling Equipment Count	07 Fan Name	08 Distribution Name	09 Required Thermostat Type
HVAC System1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

HVAC - HEAT PUMPS

01	02	03	04	05	06	07	08	09	10	11	12	13
			Heating				Cooling					
Name	System Type	Number of Units	Efficiency Type	HSPF / HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF	8.8	12000	11400	EERSEER	15	12.2	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

HVAC HEAT PUMPS - HERS VERIFICATION

01 Name	02 Verified Airflow	03 Airflow Target	04 Verified EER/EER2	05 Verified SEER/SEER2	06 Verified Refrigerant Charge	07 Verified HSPF/HSPF2	08 Verified Heating Cap 47	09 Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

01 Name	02 Certified Low-Static VCHP System	03 Airflow to Habitable Rooms	04 Ductless Units in Conditioned Space	05 Wall Mount Thermostat	06 Air Filter Sizing & Pressure Drop Rating	07 Low Leakage Ducts in Conditioned Space	08 Minimum Airflow per RA3.3 and SCI3.3.4.1	09 Certified non-continuous Fan	10 Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

Registration Number: 223-P010082820B-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance
Registration Date/Time: 2023-08-28 15:45:42
Report Version: 2022.0.000
Schema Version: rev 20220901
HERS Provider: CalCERTS Inc.
Report Generated: 2023-08-28 14:09:26

INDOOR AIR QUALITY (IAQ) FANS

01 Dwelling Unit	02 Airflow (CFM)	03 Fan Efficacy (W/CFM)	04 IAQ Fan Type	05 Includes Heat/Energy Recovery?	06 IAQ Recovery Effectiveness - SRE	07 Includes Fault Indicator Display?	08 HERS Verification	09 Status
SFam IAQVentRpt	33	0.35	Exhaust	No	n/a / n/a	No	Yes	

Registration Number: 223-P010082820B-000-000-0000000-0000
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Timothy Carstairs	Timothy Carstairs
Company:	Signature Date:
Carstairs Energy Inc.	2023-08-28 14:24:34
Address:	CEA/ HERS Certification Identification (If applicable):
2238 Bayview Heights Drive, Suite E	r160610042
City/State/Zip:	Phone:
Los Osos, CA 93402	805-904-9048

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name:	Responsible Designer Signature:
Randy Russom	
Company:	Date Signed:
RRM Design Group	2023-08-28 15:45:42
Address:	License:
3765 S. Higuera Street, Suite 102	na
City/State/Zip:	Phone:
San Luis Obispo, CA 94301	805-543-1794

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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Registration Number: 223-P010082820B-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2022 Residential Compliance
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2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.

Building Envelope:

- § 110.6(a)1: **Air Leakage.** Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less, when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
- § 110.6(a)2&5: **Field Fabricated fenestration and Exterior doors.** Field fabricated fenestration and exterior doors must have air leakage rates not greater than Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. *
- § 110.7: **Air Leakage.** All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, weatherstripped, or sealed. *
- § 110.8(e): **Insulation Certification by Manufacturers.** Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
- § 110.8(g): **Insulation Requirements for Heated Slab Floors.** Heated slab floors must be insulated per the requirements of § 110.8(g).
- § 110.8(i): **Roofing Material.** Roofing material must be certified as having a solar reflectance and thermal emittance or a solar reflectance index when applied to the roof of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
- § 110.8(j): **Vapor Barrier.** When required, , radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
- § 150.0(a): **Roof Deck, Ceiling and Rafter Roof Insulation.** Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding 0.063. Rafter ceilings and roofs must have R-22 insulation in minimum 12-inch cavity. Ceiling joists must have average U-factor not exceeding 0.043. Roof decks in climate zones 1-3, 5-7 and 14 must have area-weighted average U-factor not exceeding 0.063. Roof decks must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to minimize air leakage and insulated to a level equivalent to the roof or ceiling. Pull-down stairs or ladders must be insulated as specified in § 110.7, including but not limited to placing insulation either above the roof deck or attic top of a drywall ceiling. *
- § 150.0(b): **Loose-fill Insulation.** Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
- § 150.0(c): **Wall Insulation.** Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less. Steel-frame wall assemblies must have an overall assembly U-factor not exceeding 0.102. Metal framing must be insulated as specified in § 150.0(c)1B. *
- § 150.0(d): **Raised Floor Insulation.** Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
- § 150.0(f): **Slab Edge Insulation.** Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch, be protected from physical damage or UV light deterioration, and must be applied as specified in the manufacturer's instructions. *
- § 150.0(g)1: **Vapor Retarder.** In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class 1 or Class 2 vapor retarder. This requirement also applies to conditioned crawl space to be constructed with a Class 1 or Class 2 vapor retarder.
- § 150.0(g)2: **Vapor Retarder.** In climate zones 14 and 16, a Class 1or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
- § 150.0(q): **Fenestration Products.** Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have U-factor and solar heat gain coefficient (SHGC) not greater than the maximum allowed in § 150.0(q).

Fireplaces, Decorative Gas Appliances, and Gas Log:

- § 150.0(e): **Pilot Light.** Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
- § 150.0(e)1: **Closable Doors.** Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
- § 150.0(e)2: **Combustion Intake.** Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
- § 150.0(e)3: **Flue Damper.** Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.

Space Conditioning, Air Distribution, and Ventilation:

- § 110.0 § 110.3: **HVAC Efficiency.** Equipment that is not listed in the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.
- § 110.2(a): **Electric Resistance Heating.** Electric resistance heating is prohibited in newly constructed conditioned spaces. Electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone, and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. *
- § 110.2(b): **Thermostats.** All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
- § 110.2(c): **Insulation.** Insulated service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank. Insulation must be certified.
- § 110.3(c)3: **Isolation Valves.** Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

2022 Single-Family Residential Mandatory Requirements Summary

- § 110.5: **Pilot Lights.** Continuously burning pilot lights are prohibited for natural gas, fan-type central furnaces, household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour), and pool and spa heaters.
- § 150.0(h)1: **Space Conditioning and Heating Loads.** Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume, the SMACNA Residential Comfort System Installation Standards Manual, or the ACCA Manual J using design conditions specified in § 150.0(h)2.
- § 150.0(h)3A: **Appliances.** Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
- § 150.0(h)3B: **Liquid Line Drier.** Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer.
- § 150.0(j)1: **Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation.** All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
- § 150.0(j)2: **Insulation Protection.** Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service, e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
- § 150.0(m)1: **Gas or Propane Water Heating Systems.** Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5 x 2.5 x 7 ' subside for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between the designated space and the water heater location; and a condensate drain no more than two inches higher than the base of the unit.
- § 150.0(m)3: **Solar Water-heating Systems.** Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.

Ducts and Fans:

- § 110.8(d)3: **Ducts.** Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the ductwork, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
- § 150.0(m)1: **CMC Compliance.** All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards – Metal and Flexible, Third Edition. Ducts and plenums designed, sized, and constructed in accordance with ACCA Manual D, Manual S, or ASHRAE Handbook – HVAC Systems and Equipment, Chapter 21 with an R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, in accordance with manufacturer's instructions. Building cavities may not be used as supply ducts. Ducts and plenums may be installed in framed floor/ceiling assemblies, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may not contain ducts; ducts installed in floor trusses must be completely sealed.
- § 150.0(m)2: **Factory-Fabricated Duct Systems.** Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in conformance with mastic and draw bands.
- § 150.0(m)3: **Duct Sealing.** All ducts, air handlers, and filter boxes must be sealed, with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified by duct construction.
- § 150.0(m)7: **Backdraft Damper.** Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
- § 150.0(m)8: **Gravity Ventilation Dampers.** Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
- § 150.0(m)9: **Protection of Insulation.** Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service, e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
- § 150.0(m)10: **Porous Inner Core Flex Duct.** Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
- § 150.0(m)11: **Duct System Sealing and Leakage Test.** When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing. In accordance with Reference Residential Appendix RA3.1.
- § 150.0(m)12: **Air Filtration.** Mechanically cooled systems supplying 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 110.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter holding frames and gaskets must be sealed, installed, or other means to close gaps around the installed filters to alert prevents air from bypassing the filter. *

2022 Single-Family Residential Mandatory Requirements Summary

- § 150.0(m)13: **Space Conditioning System Airflow Rate and Fan Efficacy.** Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be measured by a person certified by HVAC Quality Assurance (HQA) or ACCA to perform it as stated by HVAC Quality Assurance (HQA) handlers and ≤ 53.88 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

Ventilation and Indoor Air Quality:

- § 150.0(o)1: **Requirements for Ventilation and Indoor Air Quality.** All dwelling units must meet the requirements of ASHRAE Standard 62.2.
- § 150.0(o)1B: **Whole-Dwelling Unit Mechanical Ventilation.** Dwelling units must be mechanically ventilated to meet the requirements of § 150.0(o) 1C. A mechanical damper(s) must be installed on the ventilation duct(s) that prevents air airflow through the duct when the damper(s) is closed andcontrolled per §150.0(o)1BiiiAv, CFI verification is required. Controls that track outdoor air ventilation run times, and deliver open air close the motorized damper(s) for compliance with §150.0(o)1C.
- § 150.0(o)1C: **Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses.** Single-family detached dwelling units, and attached dwelling units that sharing ceilings or floors with no more than two dwelling units, occupiable spaces, public garages, or commercial occupancies must be mechanically ventilated to meet the requirements of § 150.0(o)1C.
- § 150.0(o)1G: **Local Mechanical Exhaust.** Kitchens and bathrooms must have local mechanical exhaust, nonexcitoed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)1Gii&iii;unducted kitchens and bathrooms can use demand-controlled or continuous exhaust. Space heating §150.0(o)1Gvi. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvii.
- § 150.0(o)1H&I: **Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems.** The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals(grilles per Reference Residential Appendix RA3.7. Airflow must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G
- § 150.0(o)2: **Field Verification and Diagnostic Testing.** Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating and HVI and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified to comply with the requirements in §150.0(o)2Bii. Fans must be accessible for regular service. Filter access and filter housing must be sized, installed, or other means to close gaps around the installed filters to alert prevents air from bypassing the filter. *

Pool and Spa Systems and Equipment:

- § 110.4(a): **Certification by Manufacturers.** Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the efficiency requirements in § 110.4(a)1; a permanently installed on/off switch that is mounted separately from the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
- § 110.4(b)1: **Pilot Light.** Natural gas pool or spa heaters or equipment must be installed with (a) at least 36 inches of pipe between the filter and the heater, or (b) a dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
- § 110.4(b)2: **Covers.** Outdoor pools or spas that have a heat pump or gas heater must have a cover.
- § 110.4(b)3: **Directional Inlets and Time Switches for Pools.** Pools must have directional inlets that adequately mix the pool water, and a time switch that will automatically turn off and on heaters and pumps according to preset schedules.
- § 110.5: **Pilot Light.** Natural gas pool or spa heaters must not have a continuously burning pilot light.
- § 150.0(p): **Pool Systems and Equipment Installation.** Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.

Lighting:

- § 110.9: **Lighting Controls and Components.** All lighting control devices and systems, ballasts, and luminaries must meet the applicable efficiency requirements in § 110.9.
- § 150.0(k)1A: **Luminaire Efficacy.** All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, task lights, linear undercabinet luminaires mounted no more than 24 inches from the countertop surface, and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.
- § 150.0(k)1B: **Luminaire Efficacy.** Luminaires that contain lamps that comply with Reference Joint Appendix JA8. *
- § 150.0(k)1C: **Recessed Downlight Luminaires in Ceilings.** Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
- § 150.0(k)1E: **Light Sources in Enclosed or Recessed Luminaires.** Lamps and other separable light sources that are not compliant with the JA8 requirements must not be installed in enclosed luminaires, or recessed luminaires in ceilings, or in any luminaire where the ambient temperature may exceed 50°C.
- § 150.0(k)1F: **Blank Electrical Boxes.** The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor, or other automatic control device.
- § 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).

RESIDENTIAL MEASURES SUMMARY — RMS-1

Project Name: *Walnut Creek ADUs (Plan 2)*		Date: *8/28/2023*	
Project Address: *Walnut Creek*	Building Type: ☒ Single Family ☐ Multi Family	☐ Addition Alone ☐ Existing+ Addition/Alteration	Addition: *n/a*
CA Climate Zone 12	California Energy Climate Zone	Total Cond. Floor Area: *615*	# of Units: *1*

INSULATION

Construction	Type	Cavity (ft²)	Special Features	Status
Wall	*Wood Framed*	*R-21*	*749*	*New*
Roof	*Wood Framed Attic*	*R-38*	*615*	*New*
Slab	*Unheated Slab-on-Grade*	*- no insulation*	*615 Perim = 106'*	*New*

FENESTRATION — Total Area: *99* — Glazing Percentage: *16.1 %* — New/Altered Average U-Factor: *0.30*

Orientation	Area (ft²)	U-Fac	SHGC	Overhang	Sidefins	Exterior Shades	Status
Front (N)	*56.0*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*
Left (E)	*33.3*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*
Rear (S)	*6.0*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*
Right (W)	*4.0*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*

HVAC SYSTEMS

Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	*Electric Heat Pump*	*8.80 HSPF*	*Split Heat Pump*	*16.0 SEER*	*Setback*	*New*

HVAC DISTRIBUTION

Qty.	Heating	Location	Cooling	Duct Location	Duct R-Value	Status
HVAC System	*Ductless / No Fan*	*n/a*	*Ductless*	*n/a*	*n/a*	*New*

WATER HEATING

Qty.	Type	Gallons	Distribution	Min. Eff	Status
1	*Heat Pump*	*40*	*Standard*	*3.10*	*New*

EnergyPro 9.2 by EnergySoft, User Number:6049 — *Page 15 of 21* — *ID: 27-00566*

THESE PLANS ARE PROVIDED BY THE CITY OF WALNUT CREEK AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

CITY OF WALNUT CREEK

WALNUT CREEK ADU

CITY OF WALNUT CREEK

ENERGY COMPLIANCE - PLAN 2

DATE
02/10/2023

SHEET
T24-202

FOR USE IN THE CITY OF WALNUT CREEK

ROOM LOAD SUMMARY

Project Name: *Walnut Creek ADUs (Plan 2)* — Date: *8/28/2023*
System Name: *HVAC System* — Floor Area: *615*

ROOM LOAD SUMMARY

Zone Name	Room Name	Mult.	ROOM COOLING PEAK CFM	ROOM COOLING PEAK Sensible	ROOM COOLING PEAK Latent	COIL COOLING PEAK CFM	COIL COOLING PEAK Sensible	COIL COOLING PEAK Latent	COIL HTG. PEAK CFM	COIL HTG. PEAK Sensible
Living Area	*1st Floor*	*1*	*241*	*5,152*	*190*	*241*	*5,152*	*190*	*237*	*9,386*