APPLICANT AGREEMENT Z

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

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RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN

PATH STUDIO OR ITS ARCHITECTS.

COPYRIGHT PROTECTION.

3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO

4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

APPLICANT AGREES TO PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COMPLETE THESE CONSTRUCTION DOCUMENTS. MODIFICATIONS TO THE PERMIT READY DOCUMENTS PROVIDED BY DESIGN PATH STUDIO ARE TO BE DISCLOSED BY THE APPLICANT AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. ANY MODIFICATIONS TO THESE CONSTRUCTION DOCUMENTS REQUIRES EACH SHEET TO BE SIGNED BY THE PERSON WHO MADE THE CHANGES. ANY ADDITIONAL SHEETS INCORPORATED INTO THESE DOCUMENTS ALSO REQUIRES A SIGNATURE BY THE PERSON WHO PREPARED THE INFORMATION. THE FOUNDATION DESIGN FOR THESE PERMIT READY

SHEET INDEX T1.1 TITLE SHEET T1.2 EXTERIOR MATERIAL OPTIONS AS.1 SITE INFORMATION AS.2 SITE PLAN (PROVIDED BY OWNER) G0.1 CAL GREEN CHECKLIST G0.2 GENERAL NOTES	CONTACT LOCAL UTILITY COMPANIES FOR SEE EXAMPLE SITE PLAN, SHEET AS.2, I ADU MAY BE SUBJECT TO IMPACT FEES	S, INCLUDING , BUT NOT LIMITED TO SCHOOL, ROA HORT TERM RENTALS: ADUs CAN BE RENTED/LEAS	2 s.f. S DETACHED ADU. D, AND PARK FEES.	REQUIRES EACH SHEET TO BE SIGNED BY THE PERSON WHO MADE THE CHANGES, ANY ADDITIONAL SHEETS INCORPORATED INTO THESE DOCUMENTS ALSO REQUIRES A SIGNATURE BY THE PERSON WHO PREPARED THE INFORMATION. THE FOUNDATION DESIGN FOR THESE PERMIT READY CONSTRUCTION DOCUMENTS ASSUMES STANDARD SOILS CONDITIONS AND LEVEL TOP-OGRAPHY. IF SITE SPECIFIC CONDITIONS REQUIRE A FOUNDATION DESIGN BEYOND WHAT IS PROVIDED IN THESE DOCUMENTS THEN THE APPLICANT IS TO PROVIDE A NEW FOUNDATION DESIGN WHICH COMPLIES WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER'S REPORT. BY SIGNING BELOW THE APPLICANT AGREES TO AND AFFIRMS ALL STATEMENTS INCLUDED HEREIN AND WILL COMPLY WITH ALL LOCAL CODE REQUIREMENTS: DATE: DATE: DATE: WORK PHONE: HOME PHONE:	
G0.3 GENERAL NOTES A0.1 SCHEDULES A1.1 FLOOR PLAN/ ROOF PLAN CRAFTSMAN A1.2 FLOOR PLAN/ ROOF PLAN RANCH	ZONING INFORMATION	DIRECTORY	VICINITY MAP	CELL PHONE: HEDS NOTES	
A1.3 FLOOR PLANY ROOF PLAN SPANISH A2.1 MECHANICAL/PLUMBING/ELECTRICAL PLANS A3.1 EXTERIOR ELEVATIONS CRAFTSMAN A3.2 EXTERIOR ELEVATIONS SPANISH A4.1 BUILDING SECTIONS CRAFTSMAN A4.2 BUILDING SECTIONS CRAFTSMAN A4.2 BUILDING SECTIONS SPANISH A4.1 AS BUILDING SECTIONS PANISH A5.1 ARCHITECTURAL EXTERIOR WALL DETAILS A5.2 ARCHITECTURAL EXTERIOR WALL DETAILS A5.2 ARCHITECTURAL ROOF DETAILS S.1 STRUCTURAL NOTES S.2 FOUNDATION PLANS S.3 FRAMING PLANS S.3 FRAMING PLANS S.4 STRUCTURAL DETAILS S.5 STRUCTURAL DETAILS S.5 STRUCTURAL DETAILS T24.1 ENERGY CALC. T24.2 ENERGY CALC. T24.2 ENERGY CALC. T24.3 ENERGY CALC. STENGY CALC. T24.3 ENERGY CALC. SENERGY CALC. SE	CONTACT THE COUNTY OF ORANGE FOR THE INFORMATION BELOW https://myoceservices.ocgov.com/ PHONE: (714)573—6100 ZONING: OVERLAY: SCHOOL DISTRICT: LOT SIZE: EXISTING HABITABLE SQ. FT.: EXISTING FAR: MAX. ALLOWABLE FAR: PROPOSED FAR: FLOOR AREA OF GARAGE: EXISTING LOT COVERAGE: ALLOWABLE LOT COVERAGE: LOT SLOPE: ADU SETBACKS FROM PROPERTY LINE ALLOWED: FRONT— PROPOSED: FRONT— REAR— REAR— SIDE— SIDE— STREET SIDE— STREET SIDE— STREET SIDE—	SITE PLAN & TITLE SHEET INFORMATION PREPARED BY: COMPANY CONTACT PERSON ADDRESS CITY, STATE ZIP PHONE: EMAIL: PROPERTY OWNER: NAME ADDRESS CITY, STATE ZIP PHONE: EMAIL: BUILDING DEPARTMENT: ORANGE COUNTY PUBLIC WORKS 601 N. ROSS ST. SANTA ANA, CA 92701 P. (714)667-8800 PROJECT DESCRIPTION NEW CONSTRUCTION OF A ONE STORY, 3 BEDROOM, 2 BATH, DETACHED 972 S.F. ACCESSORY DWELLING UNIT WITH PORCH AREAS USED BELOW: CRAFTSMAN PORCH: 147 S.F. SPANISH PORCH: 147 S.F.	PROVIDED BY OWNER	HERS NOTES 1. PROPERLY COMPLETED AND ELECTRONICALLY SIGNED CERTIFICATE OF INSTALLATION (CF2R FORMS) SHALL BE POSTED WEATHER PROTECTED WITHIN BUILDING FOR REVIEW BY INSPECTORS — EES 10–103(A)3, 10–103(B)1.A — BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION AT THE SITE. FOR PROJECTS REQUIRING HERS VERIFICATION, THE CF2R FORMS SHALL BE REGISTERED WITH A CALIFORNIA APPROVED HERS PROVIDER DATA REGISTRY WITH ITS OWN UNIQUE 21 DIGIT REGISTRATION NUMBER LOCATED AT THE BOTTOM OF EACH PAGE. THE FIRST 12 DIGITS WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CF1R FORM. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF2R FORMS ARE REVIEWED AND APPROVED. 2. PROPERLY COMPLETED & ELECTRONICALLY SIGNED & REGISTERED CERTIFICATE(S) OF FIELD VERIFICATION AND DIAGNOSTIC TESTING (CF3R) SHALL BE POSTED WEATHER PROTECTED WITHIN THE BUILDING SITE BY A CERTIFIED HERS RATER. A REGISTERED CF3R WILL HAVE A UNIQUE 25 DIGIT REGISTRATION NUMBER WILL MATCH THE ROTTOM OF EACH PAGE. THE FIRST 20 DIGITS OF THE NUMBER WILL MATCH THE ROTTOM OF EACH PAGE. THE FIRST 20 DIGITS OF THE NUMBER WILL MATCH THE REGISTRATION NUMBER ASSOCIATED WITH THE CF2R. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE CF3R IS REVIEWED AND APPROVED. EES 10–103(A)3, 10–103(B)1.A. 3. CF1R REGISTRATION FORMS ARE LOCATED ON THE PLANS. A WATER—MARK AND REGISTRATION NUMBER WILL BE VISIBLE. 4. HERS TESTS REQUIRED FOR THIS PROJECT ARE: QUALITY INSULATION INSTALLATION (QII), 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) KITCHEN RANGE HOOD CFM VERIFICATION(100 CFM & <= 3 SONES, CEC LISTED) IAQ MECHANICAL VENTILATION STUDIO—26, 1BED—32 CFM, 2BEDIBATH—45 CFM, 2BEDZBATH—46 CFM, 3BEDA—59 CFM, 3BED—66 CFM 5. FOR IAQ FAN —ABOVE CFM REQUIRED FOR A CONTINUOUSLY OPERATING	
DI UKANGE CUUNIT:	ADU SETBACKS FROM MAIN RESIDENCE	LEGAL DESCRIPTION	APN	INFORMATION. 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	
GOVERNING AGENCY: ORANGE COUNTY, CA. OCCUPANCY GROUP: R3 STORIES: 1 TYPE OF CONSTRUCTION: VB	ALLOWED: PROPOSED: OFF STREET PARKING REQUIRED: PROVIDED:	PROVIDED BY OWNER	PROVIDED BY OWNER	BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED	
	REQUIRED SUPPLI	EMENTAL INFORMATION - TO BE CO	MPLETED BY OWNER		
provided by applicant: x COMPLETED app	erred submittals - separate mit to be obtained by olicant:	X SELECTION EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS X SE ADL *IF II	VER WASTE WATER INFORMATION: LECTION J TO HAVE NEW CONNECTION TO CITY SEWER MAIN J TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL EXISTING HOUSE HAS FOUR OR MORE TOILETS WITH AN EXISTING 3 INCH SEWER DRAIN, EPARATE CONNECTION TO THE CITY SEWER MAIN IS REQUIRED FOR THE NEW ADU.	EXAMPLE GAS PIPE DIAGRAM TO BE UPDATED FOR SITE SPECIFIC CONDITIONS NOTE: EXISTING GAS SERVICE AND METER SIZE TO BE PROVIDED BY HOMEOWNER AND UPDATED ISOMETRIC LAYOUT PROVIDED BY DESIGNER OF CHOICE. CFH & BTUS PROVIDED AS SUGGESTED LOADS. OWNER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION. GAS PIPES BELOW GRADE SHALL BE POLYETHYLENE.	

additional plan information	deferred submittals - separate	fire sprinkler information:	sewer waste water information: x selection	EXAMPLE GAS PIPE DIAGRAM TO BE UPDATED FOR SITE SPECIFIC CONDITIONS
rovided by applicant:	permit to be obtained by	X SELECTION		
X COMPLETED	applicant:		ADU TO HAVE NEW CONNECTION TO CITY SEWER MAIN	NOTE: EXISTING GAS SERVICE AND METER SIZE TO BE PROVIDED BY HOMEOWNER AND UPDATED ISOMETRIC LAYOUT PROVIDED BY DESIGNER OF CHOICE. CFH & BTUS PROVIDED AS SUGGESTED
TITLE SHEET (T1.1) INFORMATION FILLED OUT	X TO BE COMPLETED	EXISTING RESIDENCE CURRENTLY HAS FIRE SPRINKLERS	ADU TO CONNECT TO EXISTING RESIDENCE SEWER LATERAL *IF EXISTING HOUSE HAS FOUR OR MORE TOILETS WITH AN EXISTING 3 INCH SEWER DRAIN, A SEPARATE CONNECTION TO THE CITY SEWER MAIN IS BEOLUBED FOR THE NEW ADULE.	LOADS. OWNER/DESIGNER IS TO PROVIDE ACCURATE INFORMATION. GAS PIPES BELOW GRADE SHALL BE POLYETHYLENE.
FILL OUT TITLEBLOCK WITH OWNER NAME, ADDRESS, APN, AND LEGAL DESCRIPTION ON EACH SHEET	FIRE SPRINKLERS (WHEN REQUIRED)	EXISTING RESIDENCE <u>DOES NOT</u> CURRENTLY HAVE FIRE SPRINKLERS PROPERTY IS LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE	REFER TO CURRENT CPC SECTION 703.2 FOR PIPE SIZING REQUIREMENTS SHOW LOCATION AND SIZE OF EXISTING MAIN HOUSE SEWER LINE, 2% SLOPE REQUIRED FOR ALL NEW SEWER LINES, LIST NUMBER OF BATHROOMS IN EXITING HOME	CPC TABLES FOR SIZING GAS PIPING SYSTEMS TABLE 1215.2(1) THROUGH TABLE 1215.2(38) SHALL BE USED TO SIZE GAS PIPING IN CONJUNCTION WITH ONE OF THE METHODS DESCRIBED IN SECTION 1215.1.1 THROUGH SECTION 1215.1.3
SITE PLAN SHEET (AS.2) PROVIDED IN PLAN SET FOR CITY REVIEW		PROPERTY IS NOT LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE (VHSF2)	SEPTIC - REQUIRES HEALTH DEPARTMENT APPROVAL	SECTION 1215.1.1 THROUGH SECTION 1215.1.3
<u>UPDATED</u> TITLE 24 ENERGY CALCULATION REPORT WITH CORRECT NAME, ADDRESS, AND EXACT ORIENTATION FOR SITE SPECIFIC CONDITIONS. OWNER MAY CONTACT	roof material:	PROPERTY IS NOT LOCATED IN THE VERY HIGH FIRE HAZARD SEVERTIT ZONE (VHSFZ)		ALLOWABLE GAS PIPING MATERIALS ABOVE GRADE
THE ENTITY WHO PREPARED THE ORIGINAL REPORT (SHOWN ON T24.1) TO OBTAIN UPDATES TO THE REPORT.	X SELECTION	SPRINKLERS OR IS LOCATED IN VHFSZ. SEE NOTES ON A0.1 AND FIRE RATED DETAIL CHECKLIST ON THIS SHEET	DISTANCE TO CONNECTION	1208.6.3 METALLIC PIPE — CAST—IRON PIPE SHALL NOT BE USED. 1208.6.3.1 STEEL AND WROUGHT—IRON PIPE 1208.6.3.2 COPPER AND COPPER ALLOY PIPE 1208.6.3.3 ALUMINUM ALLOY PIPE
CONSTRUCTION AND DEMOLITION FORM	ROOF COLOR OF PRINCIPAL DWELLING UNIT	fire rated details:	electrical service information:	1208.6.3.3 ALUMINUM ALLOY PIPE 1208.6.4 METALLIC TUBING — SEAMLESS COPPER, ALUMINUM ALLOY, OR STEEL TUBING SHALL NOT BE USED WITH GASES CORROSIVE TO SUCH
HOLD HARMLESS AGREEMENT	TRIM COLOR OF PRINCIPAL DWELLING	X SELECTION	X SELECTION	MATERIAL
PHOTOVOLTAIC SYSTEM - THE PV SYSTEM MUST BE INSTALLED, OPERATIONAL AND FINAL <u>PRIOR</u> TO FINAL BUILDING INSPECTION AND APPROVAL FOR THE ADU. (WHEN REQUIRED) *IF THERE IS AN EXISTING PHOTOVOLTAIC SYSTEM OF SUFFICIENT SIZE	(TRIM COLOR OF ADU TO MATCH PRINCIPAL DWELLING UNIT TRIM)	ROOF EAVE DETAIL 1,2,3,5,6,7/A5.2	UPGRADED SERVICE	1208.6.4.1 STEEL TUBING 1208.6.4.2 COPPER AND COPPER ALLOY TUBING 1208.6.4.3 ALUMINUM ALLOY TUBING 1208.6.4.4 CORRUGATED STAINLESS STEEL TUBING
ON THE MÁIN HOUSE TO ACCOMMODATE THE NEW ADU THEN HOMEOWNER IS TO PROVIDE A REPORT STATING THE EXISTING SIZE OF THE PV PANEL	CONCRETE TILE ROOF - EAGLE ROOF PRODUCTS INC IAMPO UES-ER 1900 MINIMUM 2-1/2:12 ROOF SLOPE. COLOR OF CONCRETE TILE ROOF	WALL FINISH DETAIL 9B,12B,15B/ A5.1	EXISTING SERVICE TO REMAIN	1210.1.7 PLASTIC PIPING PLASTIC PIPING SHALL BE INSTALLED OUTDOORS, UNDERGROUND ONLY.
MEP PERMIT REQUIRED FOR ADUS OVER 500SF	ARCHITECTURAL GRADE SHINGLE - CERTAINTEED - ICC-ES ESR-3537	VERY HIGH FIRE SEVERITY ZONE (VHFSZ) OR WHEN WALLS AND ROOF EAVES ARE LESS	NEW SERVICE	(E)GAS METER -" PIPE
terior style selection:	MINIMUM 2:12 ROOF SLOPE. COLOR OF ARCHITECTURAL GRADE SHINGLES	FROM PROPERTY LINE IN AN UNSPRINKLERED BUILDING OR LESS THAN 3 FT FROM PROPERTY LINE IN SPRINKLERED BUILDINGS PER TABLE R302.1(1) & R302.1(2). FIRE RATED DETAILS ABOVE ARE ALSO TO BE USED WHEN THE ADU IS LESS THAN 10 FT FROM THE MAIN DWELLING UNIT IN AN UNSPRINKLERED BUILDING OR LESS THAN 6 FT	SIZE OF EXISTING SERVICE SIZE OF NEW SERVICE	BY PG&E CFH (-' LENGTH)
SELECTION - SEE SHEET T1.2 FOR EXTERIOR RENDERING	OTHER ROOF MATERIAL / COLOR / ICC / UL:	FROM THE MAIN DWELLING UNIT IN A SPRINKLERED BUILDING.	gas service information:	—" PIPE (N)DRYER 35 CFH
CRAFTSMAN		window and trim color:	X SELECTION	
RANCH		X SELECTION	UPGRADED SERVICE	GAS CALCULATIONS APPLIANCE QTY CFH TOTAL CFH (N)RANGE & OVEN
SPANISH	lot size and impervious area:	WINDOW COLOR OF PRINCIPAL DWELLING UNIT	EXISTING SERVICE TO REMAIN	(NEW) DRYER 1 35 35 (NEW) OVEN & RANGE 1 65 65
cterior wall material:	Total Lot Size =		NEW SERVICE	(NEW) WATER HEATER 1 199 199 —" PIPE (—" LENGTH) 19
SELECTION(S)	(Existing building footprint, patios, decks, hardscape, etc.) Total Area of Existing Impervious Surfaces =	WHITE	SIZE OF EXISTING SERVICE SIZE OF NEW SERVICE	
STUCCO / COLOR	(Existing building footprint, patios, decks, hardscape, etc.)	TAN	SIZE OF EXISTING SERVICE	TOTAL GAS LOAD FOR HOUSEHOLD APPLIANCES = 299,000 BTU/h
STONE VENEER / COLOR	Total Area of New Impervious Surfaces =	DARK BRONZE	soils report	299 CFH SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT
FIBER CEMENT - SIDING / COLOR	(Increase to building footprint, patios, decks, hardscape, etc.)		X SELECTION	ON SITE TO PROVIDE TO ORANGE COUNTY BUILDING INSPECTOR
	Total Area of Replaced Impervious Surfaces = (Replacement to building footprint, patios, decks, hardscape, etc.)	OTHER WINDOW COLOR	SOILS REPORT PROVIDED	
WOOD SIDING / COLOR	(AGREE TO USE ORANGE COUNTY'S FOUNDATION REQUIREMENTS FOR RESIDENTIAL	
OTHER			PROJECTS AND ACCESSORY STRUCTURES	

County of Orange Pre-Approved ADU Program

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

description

Title Sheet 3 Bedroom Plan 3A

April 03, 2024

project no.



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DOCUMENTS BY THE RECIPIENT OR BY OTHERS DOCUMENTS BY THE RECIPIENT OR BY OTHERS
WILL BE AT THE RECIPIENT'S RISK AND FULL
LEGAL RESPONSIBILITY. FURTHERMORE, THE
RECIPIENT WILL, TO THE FULLEST EXTENT
PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD
DESIGN PATH STUDIO AND ITS ARCHITECTS
HARMLESS FROM ANY AND ALL CLAIMS, SUITS,
LIABILITY, DEMANDS, JUDGMENTS, OR COSTS
ARISING OUT OF OR RESULTING THERE FROM ANY
USE OF THESE CONSTRUCTION DOCUMENTS FOR
OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE
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NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS.

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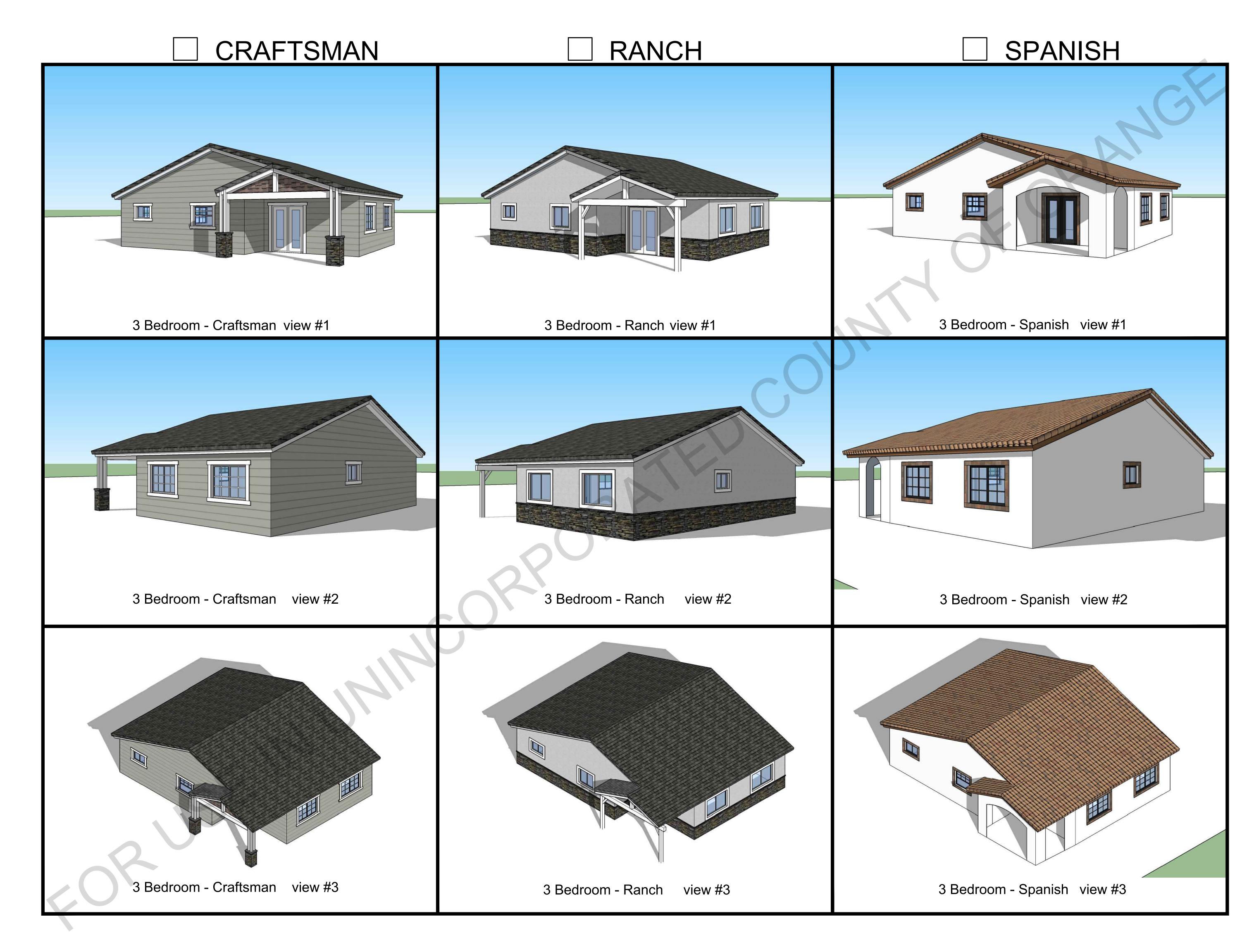
description **Exterior** Style Option:

Select one option

April 03, 2024

project no.

DESIGN PATH STUDIO



- A. Pollution prevention where appropriate.
- B. Development and implementation of a site specific run-off management plan.
- C. Minimization of areas that are cleared and graded to only the portion of the site that is necessary for construction.
- D. Minimization of exposure time of disturbed soil areas.
- Minimization of grading during the wet season and correlation of grading with seasonal dry weather periods to the extent feasible.
- F. Limitation of grading to a maximum disturbed area as determined by the County / city before either temporary or permanent erosion controls are implemented to prevent stormwater pollution. The County / city has the option of temporarily increasing the size of disturbed soil areas by a set amount beyond the maximum, if the individual site is in compliance with applicable stormwater regulations and the site has adequate control practices implemented to prevent stormwater pollution.
- G. Temporary stabilization and reseeding of disturbed soil areas as rapidly as feasible.
- H. Non-stormwater management measures to prevent illicit discharges and control stormwater pollution sources.
- I. Erosion Control BMPs shall be implemented.
- Wind erosion control BMPs (dust control) shall be implemented.
- Sediment control BMPs shall be implemented at all appropriate locations along the site perimeter, at all operational storm drain inlets and at all non-active slopes.
- L. Tracking control BMPs to control off-site sediment tracking shall be implemented and
- M. Waste management and materials pollution control BMPs shall be implemented to prevent the contamination of stormwater by construction wastes and materials.
- N. Non-stormwater BMPs shall be implemented to reduce or prevent the contamination of stormwater from construction activities.
- O. Weather tracking: projects shall monitor the National Weather Service (www.weather.gov) probability of precipitation. When a rain event is predicted (forecast predicts a greater than 50% probability of precipitation), the project must be inspected and BMPs must be maintained or deployed as needed to protect the project from discharging pollutants. (CGP projects only)
- P. BMP failures must be repaired or replaced with an acceptable alternate as soon as it is safe to do so. Repairs or replacements must result in an adequate BMP, or additional BMPs should be installed to provide adequate protection.

Construction Runoff Guidance Manual

EXISTING SWIMMING POOL REQUIREMENTS

WHEN A BUILDING PERMIT IS ISSUED FOR THE CONSTRUCTION OF A NEW SWIMMING POOL OR SPA OR THE REMODELING OF AN EXISTING SWIMMING POOL OR SPA AT A PRIVATE SINGLE-FAMILY HOME, THE RESPECTIVE SWIMMING POOL OR SPA SHALL BE EQUIPPED WITH AT LEAST TWO OF THE FOLLOWING SEVEN DROWNING PREVENTION SAFETY FEATURES:

(1) AN ENCLOSURE THAT MEETS THE REQUIREMENTS OF SECTION 115923 AND ISOLATES THE SWIMMING POOL OR SPA FROM THE PRIVATE SINGLE-FAMILY HOME. (2) REMOVABLE MESH FENCING THAT MEETS AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) SPECIFICATIONS F2286 STANDARDS IN CONJUNCTION WITH A GATE THAT IS SELF-CLOSING AND SELF-LATCHING AND CAN ACCOMMODATE A KEY LOCKABLE DEVICE.

(3) AN APPROVED SAFETY POOL COVER, AS DEFINED IN SUBDIVISION (D) OF SECTION 115921. (4) EXIT ALARMS ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS THAT PROVIDE DIRECT ACCESS TO THE SWIMMING POOL OR SPA. THE EXIT ALARM MAY CAUSE EITHER AN ALARM NOISE OR A VERBAL WARNING, SUCH AS A REPEATING NOTIFICATION THAT "THE DOOR TO THE POOL IS OPEN." (5) A SELF-CLOSING. SELF-LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54 INCHES ABOVE THE FLOOR ON THE PRIVATE SINGLE-FAMILY HOME'S DOORS PROVIDING DIRECT ACCESS TO THE SWIMMING POOL OR SPA.

(6) AN ALARM THAT, WHEN PLACED IN A SWIMMING POOL OR SPA, WILL SOUND UPON DETECTION OF ACCIDENTAL OR UNAUTHORIZED ENTRANCE INTO THE WATER. THE ALARM SHALL MEET AND BE INDEPENDENTLY CERTIFIED TO THE ASTM STANDARD F2208 "STANDARD SAFETY SPECIFICATION FOR RESIDENTIAL POOL ALARMS," WHICH INCLUDES SURFACE MOTION, PRESSURE, SONAR, LASER, AND INFRARED TYPE ALARMS. A SWIMMING PROTECTION ALARM FEATURE DESIGNED FOR INDIVIDUAL USE, INCLUDING AN ALARM ATTACHED TO A CHILD THAT SOUNDS WHEN THE CHILD EXCEEDS A CERTAIN DISTANCE OR BECOMES SUBMERGED IN WATER, IS NOT A QUALIFYING DROWNING PREVENTION SAFETY

(7) OTHER MEANS OF PROTECTION, IF THE DEGREE OF PROTECTION AFFORDED IS EQUAL TO OR GREATER THAN THAT AFFORDED BY ANY OF THE FEATURES SET FORTH ABOVE AND HAS BEEN INDEPENDENTLY VERIFIED BY AN APPROVED TESTING LABORATORY AS MEETING STANDARDS FOR THOSE FEATURES ESTABLISHED BY THE ASTM OR THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

(B) BEFORE THE ISSUANCE OF A FINAL APPROVAL FOR THE COMPLETION OF PERMITTED CONSTRUCTION OR REMODELING WORK, THE LOCAL BUILDING CODE OFFICIAL SHALL INSPECT THE DROWNING SAFETY PREVENTION FEATURES REQUIRED BY THIS SECTION AND, IF NO VIOLATIONS ARE FOUND, SHALL GIVE FINAL APPROVAL

NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS OR APPROVED

INCHES HIGH WITH A MINIMUM STROKE OF .5 INCHES. WHERE ACCESS IS BY MEANS OF A

ALL FIRE APPARATUS ROADS ACCESS ROADS SHALL HAVE

AN UNOBSTRUCTED VERTICAL CLEARANCE OF NO LESS

1. SEE BUILDING PLANS FOR ALL OTHER DIMENSIONS 7.

EXTERIOR DOOR AND WINDOW REFERENCES AND

EXTERIOR WALL FINISH TO THE PROPERTY LINE AND

NOT FROM THE OUTSIDE OF THE FOOTING (OR FACE

THE WALL FINISH THICKNESS (I.E. 7/8" STUCCO, ETC.)

SPAS, WALLS, FENCES, PATIO COVERS AND OTHER 10.

OF STUDS). THE PLANS MUST BE DESIGNED WITH

MEASUREMENT. THE FIELD INSPECTOR WILL ADD

THE PLANNED WALL FINISH THICKNESS TO THE

4. NEW ELECTRIC SERVICE IS TO BE LOCATED - POOLS,

ADDED TO THE PLAN FOR THE SETBACK

3. YARD SETBACKS ARE TO BE MEASURED FROM THE

2. SEE BUILDING PLANS AND SCHEDULES FOR ALL

BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FORM

THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL BE A MINIMUM OF 4

PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT,

POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. CFC SECTION

FIRE NOTES

THAN 13 FEET 6 INCHES.

GENERAL NOTES

AND NOTES NOT SHOWN.

FOUNDATION SETBACK.

LOCATIONS.

Q. Active exposed areas: Sufficient materials needed to install standby erosion and sediment control BMPs necessary to protect all active exposed areas from erosion and to reduce or prevent sediment discharges shall be stored on site. The total active exposed area shall not exceed that which can be adequately protected by deploying standby erosion control and sediment control BMPs prior to a predicted rain event.

Inactive exposed areas: All exposed areas not being actively worked in shall be protected from erosion with temporary or permanent BMPs (erosion and sediment control). The ability to deploy standby BMP materials is not sufficient for these areas; erosion and sediment control BMPs must actually be deployed.

S. Completed areas: Areas that have already been protected from erosion using permanent erosion control BMPs (physical or vegetation) are not considered "exposed". Deployment of permanent erosion control BMPs should commence as soon as practical

- Preservation of natural hydrologic features where feasible.
- U. Preservation of riparian buffers and corridors where feasible.
- V. Evaluation and maintenance of all BMPs, until removed.
- W. Retention, reduction, and proper management of all stormwater pollutant discharges on site to the Maximum Extent Practicable (MEP) standard.

NPDES NOTES

- SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
- STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE
- APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF
- RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OR THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR
- THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS
- CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
- POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS: FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPER CHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND
- 10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON- CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
- 11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
- 12. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
- 13. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL
- DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED. 15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY

SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM

- DEVICES WHEN RAIN IS IMMINENT. 16. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH
- WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA
- RUNOFF, VEHICLE TRACKING, OR WIND. 18. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

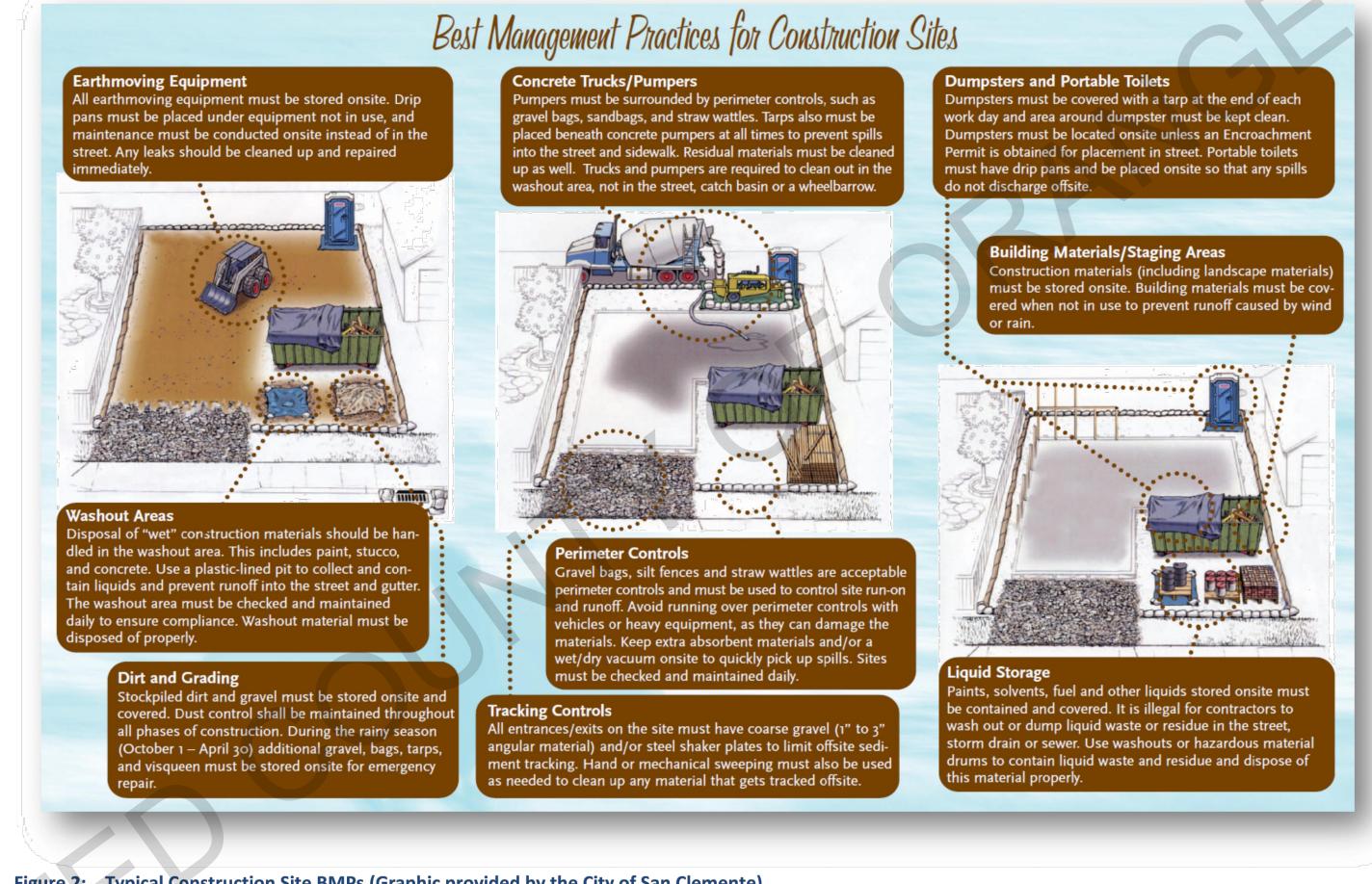


Figure 2: Typical Construction Site BMPs (Graphic provided by the City of San Clemente)

EXISTING LEGAL LOTS THAT HAVE EASEMENTS ACCESS ROADWAYS LESS THAN 20 FEET WIDE THAT

PROVIDE PRIMARY ACCESS TO OTHER LOTS SHALL RECORD A COVENANT GRANTING EASEMENT

TO BUILD ANY BUILDING, WALL, FENCE, OR OTHER STRUCTURE WITHIN 5 FEET OF THE EXISTING

ALL DEAD END FIRE APPARATUS ACCESS ROADWAY IN EXCESS OF 150 FEET IN LENGTH SHALL BE

PROVIDED WITH AND APPROVED AREA FOR TURNING AROUND FIRE APPARATUS. ACCESS ROADS

MINIMUM UNOBSTRUCTED PAVED RADIUS WIDTH FOR A CUL-DE-SAC SHALL BE 36 FEET CURB LINE TO

CURB LINE WITH NO PARKING. ALTERNATE TYPES OF TURN-AROUND (HAMMERHEADS, ETC.) MAY BE

CONSIDERED BY THE FIRE MARSHAL AS NEEDED TO ACCOMPLISH THE INTENT OF THE FIRE CODE.

SERVING MORE THAN (4) FOUR DWELLING UNITS SHALL BE PROVIDED WITH A CUL-DE-SAC. THE

RIGHTS FOR EMERGENCY VEHICLE INGRESS AND EGRESS PURPOSES AND SHALL RELINQUISH RIGHTS

December 2012 Construction Runoff Guidance Manual

Orange County Stormwater Program

County of Orange Pre-Approved **ADU Program**

BY USING THESE PERMIT READY CONSTRUCTION

RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH

ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF

STANDARDIZED ADU PLANS AND SPECIFICATIONS

COMPLIANCE UNDER ALL CODES THEN IN EFFECT

NOT ELIMINATE OR REDUCE THE RECIPIENT'S

AT THE TIME OF THE SUBJECT PERMIT. THIS DOES

INFORMATION RELEVANT TO THE RECIPIENT'S WORK

AND RESPONSIBILITY ON THIS PROJECT. DESIGN

FOR TRANSLATION ERRORS. DO NOT USE THESE

CONSTRUCTION DOCUMENTS IF THE PERMIT HAS

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES

HAT THE USE OF THIS INFORMATION WILL BE AT

THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR

WARRANTIES OF ANY NATURE, WHETHER EXPRESS

OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS

AND THE INFORMATION CONTAINED THEREON, ANY

DOCUMENTS BY THE RECIPIENT OR BY OTHERS

WILL BE AT THE RECIPIENT'S RISK AND FULL

LEGAL RESPONSIBILITY. FURTHERMORE, THE

RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOL

DESIGN PATH STUDIO AND ITS ARCHITECTS

HARMLESS FROM ANY AND ALL CLAIMS, SUITS

LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY

USE OF THESE CONSTRUCTION DOCUMENTS FOR

OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAG

OR LOSS TO PERSONS OR PROPERTY DIRECT OF

CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS

NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN

3. THE DESIGNS REPRESENTED BY THESE PLANS

4. IF THE RECIPIENT DOES NOT AGREE WITH THE

ABOVE CONDITIONS, DO NOT PROCEED WITH

IMPROVEMENT UNDER THESE PLANS AT ALL.

INDEMNITY DOES NOT APPLY TO THE SOLE

ARE COPYRIGHTED AND ARE SUBJECT TO

CONSTRUCTION OF AN ADU OR OTHER

PATH STUDIO OR ITS ARCHITECTS.

COPYRIGHT PROTECTION.

USE, REUSE, OR ALTERATION OF THESE

LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO

DEPARTMENT. BUILDING CODES DO CHANGE OVER

APPROVED BY THE ORANGE COUNTY BUILDING

TIME AND RECIPIENT SHALL ENSURE FULL

RESPONSIBILITY TO VERIFY ANY AND ALL

PATH STUDIO SHALL NOT BE RESPONSIBLE

EXPIRED OR IS REVOKED AT ALL.

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES,

IT WAS PREPARED FOR THE PERMIT READY

ACCEPTS AND VOLUNTARILY AFFIRMS THE

1 THE LISE OF THIS INFORMATION IS

FOLLOWING CONDITIONS:

OWNER NAME:

ADDRESS:

LEGAL DESCRIPTION:

revisions

description

April 03, 2024

project no.

DESIGN PATH STUDIO

LEAST TWO FEET WIDER THAN THE WIDTH OF THE TRAFFIC LANE(S) SERVING THE

4. SECURITY GATES: AN AUTOMATIC GATE ACROSS A FIRE ACCESS ROADWAY OR DRIVEWAY

OVERRIDING ALL COMMAND FUNCTIONS AND OPENING THE GATE. WHERE THIS SECTION

REQUIRES AN APPROVED KEY-OPERATED SWITCH, IT MAY BE DUAL-KEYED OR EQUIPPED

ALL GATES PROVIDING ACCESS FROM A ROAD TO A DRIVEWAY SHALL BE LOCATED A

MINIMUM OF 30 FEET FROM THE NEAREST EDGE OF THE ROADWAY AND SHALL BE AT

SHALL BE EQUIPPED WITH AN APPROVED EMERGENCY KEY-OPERATED SWITCH

WITH DUAL SWITCHES PROVIDED TO FACILITATE ACCESS BY LAW ENFORCEMENT

GREEN BUILDING CODE NOTES

FIRE ACCESS ROADWAYS

WIDE PER LANE.

SURFACE FIRE APPARATUS ACCESS ROADS SHALL BE

PROVIDE ALL-WEATHER DRIVING CAPABILITIES.

DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED

LOADS OF FIRE APPARATUS NOT LESS THAN 75,000 LBS AND

GATED ENTRANCES WITH CARD READERS, GUARD STATIONS

OR CENTER MEDIANS, WHICH WILL HAVE SEPARATED LANES

OF ONE-WAY TRAFFIC, SHALL BE NOT LESS THAN 14 FEET

SHALL BE PROVIDED WITH AN APPROVED PACED SURFACE TO

CAL-OSHA PERMIT IS REQUIRED FOR EXCAVATIONS SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE WATER DEEPER THAN 5' AND SHORING AND UNDERPINNING. AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY A DIMENSIONED SITE PLAN DRAWN TO SCALE SHALL THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM BE PROVIDED SHOWING THE FOLLOWING: WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE CITY ENGINEER MUST BE NORTH ARROW, PROPERTY LINES, EASEMENTS,

3. SITE PLAN SHALL PROVIDE DIMENSIONS SHOWING REQUIRED

LESS THAN 24 FEET,

STREETS, EXISTING AND PROPOSED BUILDINGS, AND

IF A GRADING PLAN IS REQUIRED, INCORPORATE THE

ENTIRE APPROVED GRADING PLAN/IMPROVEMENT

PLAN (ALL SHEETS) WITH THE BUILDING PLANS.

PROJECTIONS, INCLUDING EAVES, MUST BE AT

STRUCTURES, LOCATION OF YARDS USED FOR

DIMENSIONED SETBACKS, MINIMUM SEPARATION

ALLOWABLE INCREASE OF BUILDING AREA.

FROM EXISTING STRUCTURES AND FUEL

MODIFICATION ZONES PER UNIFORM

ADMINISTRATIVE CODE SECTION 302.

FIRE APPARATUS ACCESS ROADS. FIRE ACCESS ROADWAYS

SHALL HAVE AN UNOBSTRUCTED IMPROVED WIDTH OF NOT

EXCEPTIONS: 1. RESIDENTIAL DWELLINGS NOT IN THE VERY

20 FEET OF UNOBSTRUCTED IMPROVED WIDTH. 2.

OF 16 FEET OF UNOBSTRUCTED IMPROVED WIDTH.

HIGH FIRE HAZARD SEVERITY ZONE SHALL HAVE MINIMUM OF

SINGLE-FAMILY RESIDENTIAL DRIVEWAYS SERVING NO MORE

THAN TWO SINGLE-FAMILY DWELLING SHALL HAVE A MINIMUM

- 2. 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED.
- VOC'S MUST COMPLY WITH THE LIMITATION LISTED IN SECTION 4.504.3 AND TABLES 4.504.1, 4.504.2, 4.504.3, AND 4.504.4 FOR: ADHESIVES, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.
- INTERIOR MOISTURE CONTROL AT SLAB ON GRADE FLOORS SHALL BE PROVIDED BY THE SOIL ENGINEER. IF A SOIL ENGINEER HAS NOT PREPARED A SOIL REPORT FOR THIS PROJECT, THE FOLLOWING IS REQUIRED: A 4" THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE, WITH A CONCRETE MIX DESIGN WHICH WILL ADDRESS

IMPLEMENTED PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT.

MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIAL WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE

ACCESS EASEMENT.

- OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3 6. PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE
- AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPT OFFICIAL TO BE FILED WITH THE APPROVED PLANS
- 7. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.
- 8. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL THE FOLLOWING: A. RETENTION BASIN. B. WHERE STORM WATER IS BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD. CGC 4.106.2.
- MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2.
- 11. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1
- MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE
- CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE 10. THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FORM MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC 4.410.0

DIVISION 2 - SITEWORK

PROJECT IS TO BE STAKED OUT FOR OWNER APPROVAL BEFORE FOR EARTHWORKIS TO

2. SITE CLEARING CONTRACTOR WILL VERIFY WITH OWNER ALL PLANTING TO BE REMOVED PRIOR TO STARTING WORK.

THE CONTRACTOR WILL VISIT THE SITE AND EVALUATE GRADE CONDITION. FOR BIDDING PURPOSES, THE CONTRACTOR WILL CALCULATE HIS OWN CUT AND FILL QUANTITIES BASED

4. SHORING IS TO BE PROVIDE AS REQUIRED

ON THE SITE PLAN.

PERSONNEL. (CFC SECTION 503.6 AMENDMENT)

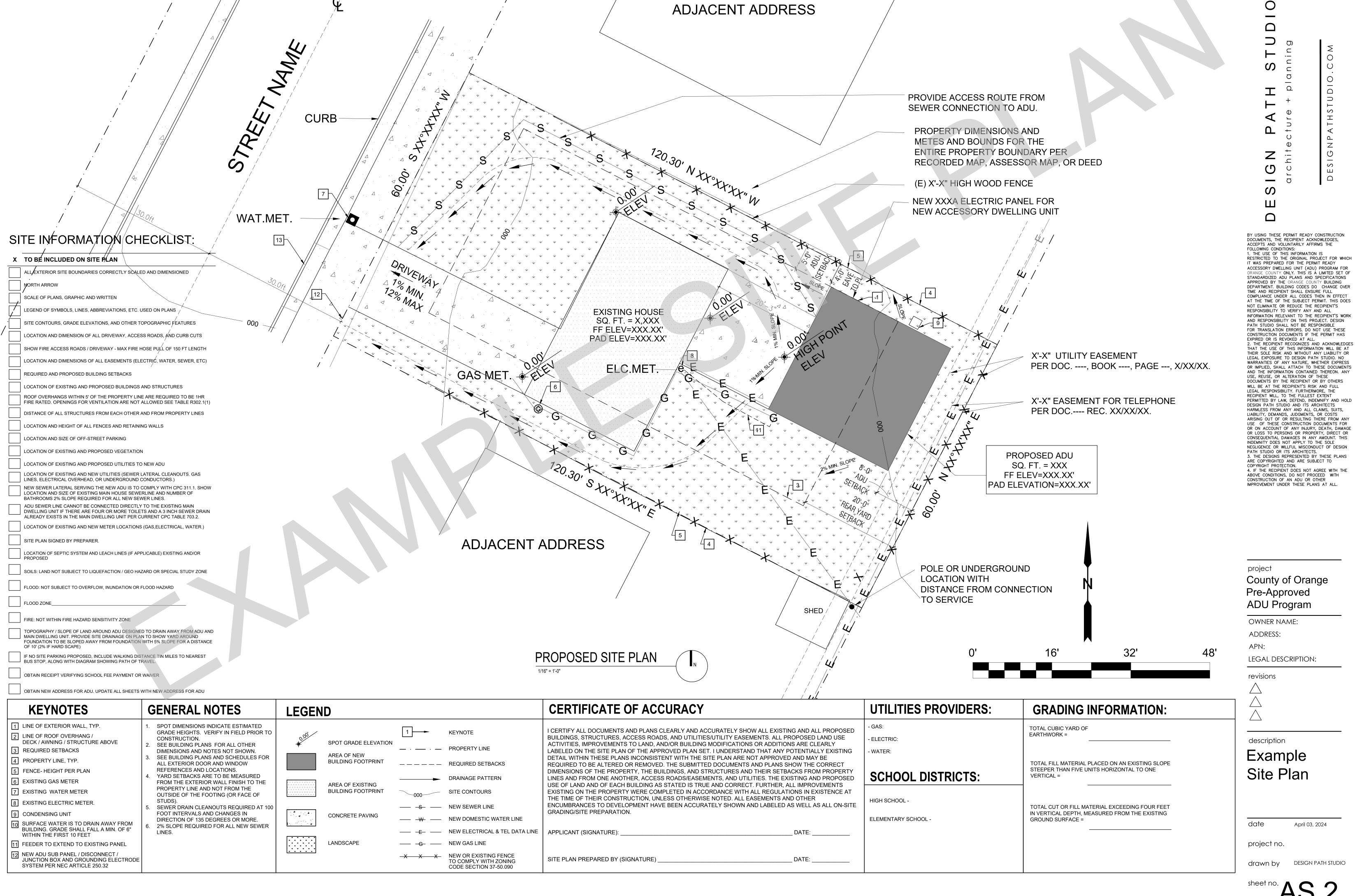
a. REMOVE AND RECOMPACT LOOSE TOPSOIL AND SLIGHTLY ALTER THE EXISTING TOPOGRAPHY. ALL GRADING SHOULD BE PERFORMED IN ACCORDANCE WITH THE CITY OF **ENCINITAS GRADING ORDINANCE**

b. THE CONTRACTOR IS TO VERIFY THE LOCATION OF UTILITY SERVICE IN THE AREA PRIOR TO EXCAVATION.

c. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL FINISH GRADES ARE TO SLOPE AWAY FROM THE BUILDING AND EXTERIOR PAVING 1/4" PER FOOT MINIMUM FOR A MINIMUM DISTANCE OF 5'-0". LOT DRAINAGE TO AVOID POOLING AT BUILDING.

FREESTANDING STRUCTURES REQUIRE SEPARATE LEAST 24" FROM PROPERTY LINES. REVIEWS AND PERMITS 12. BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO 5. LANDSCAPE AND IRRIGATION WATER USE SHALL BLEEDING, SHRINKAGE AND CURLING SHALL BE USED. THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT. HAVE WEATHER OR SOIL BASED CONTROLLERS ADU WILL BE CONNECTED TO THE PUBLIC SEWER SYSTEM OR WILL PROVIDE A COMPLYING SEPTIC

round (not just during the rainy season) to all projects.



showerhead, the combined flow rate of all the 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 only

allow one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

feet away from the foundation. ordinance, if more restrictive. **SECTION 4.501 GENERAL** irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors. **SECTION 4.502 DEFINITIONS** 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) hundredths of a gram (g O³/g ROC). product (excluding container and packaging). REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere 4.504 POLLUTANT CONTROL openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system. management district rules apply: 4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of Table 4.504.3 shall apply. 1. Manufacturer's product specification.

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. Information about water-conserving landscape and irrigation design and controllers which conserve 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 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 inspections verifications required by the enforcing agency or this code. 11. Information from the Department of Forestry and Fire Protection 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 are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of

DIVISION 4.5 ENVIRONMENTAL QUALITY

The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous,

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

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

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere. MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to

Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).

VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings

with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

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.

4.504.1 COVERING OF DUCT OPENINGS & 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

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant 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

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 tricloroethylene), 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.

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

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

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:

2. Field verification of on-site product containers.

4.504.3 CARPET SYSTEMS. All carpet 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.

4.504.3.1 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 (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% 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. hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)

YES
NOT APPLICABLE
RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER,

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5

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.

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 standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.

5. Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.

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

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

1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute,

2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional.

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

1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements

2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.

3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying

4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the

found in Section 101.8 of this code.

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

a. Humidity controls shall be capable of adjustment between a relative humidity range less than or

equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of

b. A humidity control may be a separate component to the exhaust fan and is not required to be

integral (i.e., built-in)

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

1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential

Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.

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

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

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:

. State certified apprenticeship programs.

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.

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.

BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

Z

. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR RANGE COUNTY **only. This`is á limited set of** STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS

EXPIRED OR IS REVOKED AT ALL. 2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE

RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS. SUITS. LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE

ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

County of Orange Pre-Approved **ADU Program**

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

description

April 03, 2024

project no.

DESIGN PATH STUDIO drawn by

resource consumption, including recycle programs and locations. DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE.

b. Roof and yard drainage, including gutters and downspouts.

 Landscape irrigation systems. e. Water reuse systems.

c. Space conditioning systems, including condensers and air filters.

3. Information from local utility, water and waste recovery providers on methods to further reduce

- AND CURRENT CPC, CMC AND CEC CODES.

 3. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND IS TO BE REVIEWED AND APPROVED BY THE COUNTY
- 4. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND STAKE OUT STRUCTURE FOR OWNER'S APPROVAL PRIOR TO STARTING ANY WORK.

OF ORANGE

- 5. ALL WEATHER-EXPOSED SURFACES ARE TO HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND THAT EXTERIOR OPENINGS ARE TO BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF.
- 6. SPECIFICATIONS FOR EQUIPMENT SHALL BE KEPT ON SITE TO PROVIDE TO THE COUNTY OF ORANGE BUILDING INSPECTOR
- 7. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY CONSTRUCTION, RECONSTRUCTION, OR CLOSURE OR THE ROADWAY, SIDEWALK OR RIGHT OF WAY. APPLICANT SHALL CONTACT ENGINEERING DEPARTMENT TO PROCESS.
- 8. APPLICANT IS RESPONSIBLE TO PROVIDE SITE PLAN (PLOT PLAN) TO THE CITY FOR REVIEW AND APPROVAL.
- 9. APPLICANT IS RESPONSIBLE TO VERIFY WHETHER THE JOB SITE IS LOCATED WITHIN A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD ZONE. PROJECTS LOCATED IN A SPECIAL FLOOD HAZARD AREA DESIGNATED ON THE FLOOD INSURANCE RATE MAP (FIRM) AS ZONE A OR AE, SHALL PROVIDE AN ELEVATION CERTIFICATE WITH SUPPORTED DOCUMENTS TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO BUILDING PERMIT ISSUANCE.
- SUBMIT GRADING PLANS AND/OR PROVIDE ADU GRADING
 PERMIT EXEMPTION CHECKLIST FOR REVIEW AND APPROVAL AT
 TIME OF PERMIT APPLICATION.
- 11. THE PV SYSTEM WILL BE SUBMITTED UNDER A SEPARATE PERMIT A PHOTOVOLTAIC (SOLAR) SYSTEM BUILDING AND ELECTRICAL PERMIT SHALL BE ISSUED PRIOR TO ADU BUILDING FRAME INSPECTION REQUEST.
- 12. SOIL REPORT REQUIREMENT: IF A SOILS REPORT IS REQUIRED BY THE LOCAL JURISDICTION, THE GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH CBC SECTION 1803.2 AND REPORTED IN ACCORDANCE WITH CBC SECTION 1803.6. -THE GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW THE CITY APPROVED PLANS FOR GENERAL CONFORMANCE WITH THE SOIL REPORT; OTHERWISE, AN ALTERNATE FOUNDATION PLAN DESIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER IS REQUIRED

ROOF NOTES

- 1. FLASHINGS SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.
- 2. UNLESS ROOFS ARE SLOPED TO DRAIN OVER ROOF EDGES, ROOF DRAINS SHALL BE INSTALLED AT EACH LOW POINT OF ROOF.
- 3. ROOF ASSEMBLIES SHALL BE OF MATERIALS THAT ARE COMPATIBLE WITH EACH OTHER AND WITH THE BUILDING OR STRUCTURE TO WHICH THE MATERIALS ARE APPLIED.
- 4. BUILDING-INTEGRATED PHOTOVOLTAIC PRODUCTS INSTALLED AS THE ROOF COVERING SHALL BE TESTED, LISTED AND LABELED FOR FIRE CLASSIFICATION IN ACCORDANCE WITH SECTION R902.1 THROUGH R902.1.4.
- 5. ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) OR GREATER. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE) UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.1.1.
- 6. CLAY AND CONCRETE ROOF TILE SHALL BE INSTALLED ON ROOF SLOPES OF TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) OR GREATER. FOR ROOF SLOPES FROM TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), DOUBLE UNDERLAYMENT APPLICATION IS REQUIRED IN ACCORDANCE WITH SECTION R905.3.3.
- 7. SLATE SHINGLES SHALL BE USED ONLY ON SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER.
- 8. THE MINIMUM SLOPE FOR STANDING-SEAM ROOF SYSTEMS SHALL BE ONE-QUARTER UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE).
- 9. BUILT-UP ROOFS SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE, EXCEPT FOR COAL-TAR BUILT-UP ROOFS, WHICH SHALL HAVE A DESIGN SLOPE OF A MINIMUM ONE-EIGHTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (1-PERCENT SLOPE).
- 10. MINERAL-SURFACED ROLL ROOFING SHALL NOT BE APPLIED ON ROOF SLOPES BELOW ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8-PERCENT SLOPE).
- 11. MODIFIED BITUMEN ROOFING SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE.
- 12. SINGLE-PLY MEMBRANE ROOFS SHALL HAVE A DESIGN SLOPE OF NOT LESS THAN ONE-FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) FOR DRAINAGE.
- 3. A CLASS A ROOF ASSEMBLY SHALL BE INSTALLED. IF THE APPLICANT DEVIATES FROM THE ROOF SPECIFICATIONS ON SHEET T1.1 THE APPLICANT SHALL PROVIDE A COPY OF THE ICC/UL LISTING

ROOF NOTES (CONT'D)

14. FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

15. PER SECTION R806.5/EM3.9.6:

a. IF INSULATION IS AIR PERMEABLE AND IT IS INSTALLED
DIRECTLY BELOW THE ROOF SHEATHING WITH RIGID BOARD OR
SHEET INSULATION WITH A MINIMUM R-4 VALUE INSTALLED
ABOVE THE ROOM SHEATHING. (OR)
b. IF THE INSULATION IS AIR-IMPERMEABLE AND IS IN DIRECT
CONTACT WITH THE UNDERSIDE OF THE OF THE ROOF
SHEATHING. (OR)
c. IF TWO LAYERS OF INSULATION ARE INSTALLED BELOW THE

ROOF SHEATHING:
AN AIR-IMPERMEABLE LAYER IN DIRECT CONTACT WITH THE UNDERSIDE OF THE ROOF SHEATHING AND AN ADDITIONAL LAYER OF AIR PERMEABLE INSULATION IS TO BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.

FLOOR PLAN NOTES

- ALL DIMENSIONS TO FACE OF STUD, U.N.O.

 ALL DOORS SHOULD BE 3 1/2" FROM NEAREST INTERSECTING WALL AT HINGED SIDE, U.N.O.
- WRITTEN DIMENSIONS TO PREVAIL OVER SCALING OF DRAWINGS. CONTRACTOR TO VERIFY ALL DIM. PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY OWNER OF ANY DISCREPANCIES.
- 4. REFER TO FRAMING PLANS AND SECTIONS FOR CLARIFICATION AND DIM. NOT SHOWN.
- 5. ALL ROOF DRAIN PIPES TO BE MIN. 2" STORM DRAINAGE SYSTEM UNLESS LOCAL CODE REQUIRES LARGER DRAIN SIZES. ROOF GUTTERS:
 - STYLE A . INSTALLED AND DESIGNED IN ACCORDANCE WITH SMACNA MANUAL, PLATE #1,#2 & #3,GUTTER. PAGE 6 11, WIDTH AS REQUIRED TO HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM STORMS, SMACNA CHART #2, PAGE #2. GUTTER: SIZE; PAGES 1,2, 3, 4, 5 &6, CHARTS#1,#2,#3,#4,#5#6 &

STYLE; PLATE #2, STYLE A, PAGE 9 EXPANSION;PLATE #6, PAGE 16 &17 HANGING; PLATE #19, FIG. C, PAGE 43.

DOWN SPOUTS:
PLAIN RECTANGULAR.AS REQUIRED BY SMACNA MANUAL
CHART #3, PAGE #3. SEE ARCHITECT FOR LOCATIONS OF
DOWN SPOUTS. ALL DOWN SPOUTS ARE TO BE DESIGNED TO
HANDLE THE AMOUNT OF ROOF WATER FOR MAXIMUM
STORMS, SMACNA CHART #2, PAGE #2. DOWN SPOUTS ARE
TO DEPOSIT DIRECTLY OVER A NDS 6 INCH SQUARE, MODEL
641 OR APPROVED EQUAL.(SEE SECTION 02710 MORE
INFORMATION)

TRANSITION OF FLOOR MATERIALS OCCURRING IN OPENINGS WITH DOORS TO BE LOCATED UNDER THE CENTER OF THE DOOR IN THE CLOSED POSITION. TRANSITION OF FLOOR MATERIAL OCCURRING WITH NO DOOR TO BE LOCATED TO ALIGN WITH THE FACE OF THE PARTITION, U.O.N

- DIFFUSERS AND GRILLS TO MATCH COLOR OF SURFACE AT WHICH THEY ARE MOUNTED, U.O.N.
- FLOOR FINISH TO CONTINUE UNDER MILLWORK WHERE FLOOR IS VISIBLE (I.E. TRASH, RECYCLING, ECT.) 8. SILICON SEALANT AT GLAZING TO BE CLEAR, U.O.N.

 PLUMBING ELECTRICAL AND SPRINKLER FOLLIPMENT IF
- PLUMBING, ELECTRICAL, AND SPRINKLER EQUIPMENT, IF REQUIRED TO BE PAINTED TO MATCH COLOR OF ADJACENT SURFACE.

FORMALDEHYDE EMISSION STANDARDS.

- ALL FINISH MATERIAL MUST MEET ALL APPLICATION FIRE, LIFE SAFETY, AND BUILDING CODES. 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH SPECIFIED VOC CRITERIA. PARTICLE BOARD, MDF AND PLYWOOD USED IN INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW
- OPERATION AND MAINTENANCE MANUAL: THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FOR MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION.
- WEEP SCREED FOR STUCCO AT THE FOUNDATION PLATE LINE SHALL BE A MIN. OF 4" ABOVE THE EARTH OR 2" ABOVE PAVED AREAS. CRC R703.7.2.1, CBC 2512.1.2
- FASTENERS AND CONNECTIONS (NAILS, ANCHORS BOLTS ECT) IN CONTACT WITH PRESERVATIVE -TREATED WOOD SHALL BE OF HOT -DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. (CRC R317.3, CBC 2304.10.5.1)
- ANCHOR BOLTS SHALL INCLUDE STEEL PLATE WASHERS A MIN. OF 0.229" X 3" X 3" IN SIZE, BETWEEN SILL PLATE AND NUT. (CRC R602.11.1, CBC 2308.3.2 ACCEPTANCE ALTERNATIVE SDPWS 4.3.6.4.3)
- FUTURE WATER HEATERS AND PLUMBING FIXTURES SHALL MEET THE REQUIREMENTS OF SECTION 2-5314 AND TABLE 2-53G, TITLE 24, C.A.C.
- 15, 20 AND 30 AMP. RECEPTACLE OUTLETS SHALL BE INSTALLED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX AND NOT LESS THAN 15" FROM THE BOTTOM OF OUTLET BOX ABOVE THE FLOOR.

SITE SHALL BE PLANNED AND DEVELOPED TO KEEP SURFACE

- WATER AWAY FROM BUILDINGS. PLANS SHALL BE PROVIDED AND APPROVED BY THE CITY ENGINEER THAT SHOW SITE GRADING AND PROVIDE FOR STORM WATER RETENTION AND DRAINAGE DURING CONSTRUCTION. BMP'S THAT ARE CURRENTLY ENFORCED BY THE CITY ENGINEER MUST BE IMPLEMENTED PRIOR TO INITIAL INSPECTION BY THE BUILDING DEPT
- 65 % OF CONSTRUCTION WASTE IS TO BE RECYCLED AND 100% OF INERT MATERIALS ARE RECYCLED SALVAGED, COMPOSTED.

FLOOR PLAN NOTES (CONT'D)

- VOC'S MUST COMPLY WITH THE LIMITATION LISTED IN SECTION 4.504.3 AND TABLES 4.504.1, 4.504.2, 4.504.3, AND 4.504.4 FOR: ADHESIVES, PAINTS, STAINS, CAULKS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS.DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOC LIMIT FINISHED MATERIALS HAVE BEEN USED.
- 20. INTERIOR MOISTURE CONTROL AT SLAB ON GRADE FLOORS SHALL BE PROVIDED BY THE SOIL ENGINEER. IF A SOIL ENGINEER HAS NOT PREPARED A SOIL REPORT FOR THIS PROJECT, THE FOLLOWING IS REQUIRED: A 4" THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE, WITH A CONCRETE MIX DESIGN WHICH WILL ADDRESS BLEEDING, SHRINKAGE AND CURLING SHALL BE USED.
- MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIAL WITH VISIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE LISTED METHODS LISTED IN CGC SECTION 4.503.3 PRIOR TO FINAL APPROVAL OF THE BUILDING THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE OF THE OVERALL CONSTRUCTION MUST COMPLETE AND SIGN THE GREEN BUILDING STANDARDS CERTIFICATION FORM AND GIVEN TO THE BUILDING DEPT OFFICIAL TO BE FILED WITH THE APPROVED PLANS
- 23. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER BASED CONTROLLERS.
- PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF THE FOLLOWING: A. RETENTION BASIN. B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD. CGC 4.106.2.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN TO THE JURISDICTION AGENCY THAT REGULATES WASTE MANAGEMENT, PER CGC 4.408.2.
- THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FORM MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC 4.410.0
- 7. DURING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 4.504.1
- BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT.

 SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED AND ABEL TO DEMONSTRATE COMPETENCE
- IN THE DISCIPLINE THEY ARE INSPECTING.

 VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOC. PLANS, SPECIFICATION BUILDER OR INSTALLER CERTIFICATIONS, INSPECTIONS REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH TO
- NEW SINGLE FAMILY RESIDENTIAL CONSTRUCTION SHALL BE DESIGNED FOR AGING-IN-PLACE DESIGN AND FALL PREVENTION PER R327

SHOW SUBSTANTIAL CONFORMATION.

A) AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION.

B) REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER

B) REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY.

C) REINFORCEMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING.
D) WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON

BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL.

E) SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.

F) 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.

MECHANICAL NOTES

- SMOKE DETECTORS MUST BE PERMANENTLY WIRED. IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVER CURRENT PROTECTION.
- WHERE WATER CLOSET COMPARTMENT IS INDEPENDENT OF THE BATHROOM OR SHOWER AREA, A FAN WILL BE REQ. IN EACH AREA. BATHROOMS SHALL HAVE AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR, MIN. 50 CFM CAPACITY. (CRC R303.3.)
- ROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR FIXTURES SHALL BE PROVIDED WITH AN EXHAUST FAN WITH HUMIDITY CONTROL SENSOR HAVING A MIN. CAPACITY OF 50 CFM DUCTED TO TERMINATE OUTSIDE THE BLDG. (CRC R303.3, CAL GREEN 4.505.1, CBC 1203 .5.2.1, CMC 402.5
- I. SUPPLY AND RETURN AIR DUCTS TO BE INSULATED AT A MIN. OF R-6. (CAL ENERGY CODE TABLE 150.1-A)

MECHANICAL NOTES (CONT'D)

- WHERE WHOLE HOUSE FANS ARE USED IN BATHROOM AREAS, THE FAN MUST RUN CONTINUOUSLY AND SHALL NOT BE TIED TO HUMIDITY CONTROL SENSOR. (CAL GREEN 4.506.1)
 ENVIRONMENTAL AIR DUCTS SHALL TERMINATE MIN. 3 FEET
- ENVIRONMENTAL AIR DUCTS SHALL TERMINATE MIN. 3 FEET FROM PROPERTY LINE OR OPENINGS INTO BLDG., AND 10' FROM A FORCED AIR INLET. (CMC 502.2.1)
- ALL HOSE BIBS ARE TO HAVE VACUUM BREAKERS. (CPC603.5.7)
- 8. THE MAX. AMOUNT OF WATER CLOSETS ON A 3"
 HORIZONTAL DRAINAGE SYSTEM LINE IS 3 (CPC TABLE 703.2)
 9. THE MAX. AMOUNT OF WATER CLOSETS ON A 3" VERTICAL

DRAINAGE LINE IS 4. (CPC TABLE 703.2)

- 0. PROVIDE GAS LINES WITH A MN. CAPACITY OF 200,000BTU FOR WATER HEATER. (CAL ENERGY CODE 150.0(N)).
- PROVIDE A CONDENSATE DRAIN NO MORE THAN 2" ABOVE THE BASE OF THE WATER HEATER SPACE. (CAL ENERGY CODE 150.0 (N).
- INSULATE ALL HOT WATER PIPES. CAL ENERGY CODE 150.0(j) (2), and CPC 609.11)
- ISOLATION VALVES ARE REQ. FOR TANKLESS WATER HEATERS ON THE HOT AND COLD SUPPLY LINES WITH HOSE BIBS ON EACH VALVE, TO FLUSH THE HEAT EXCHANGER. (CAL ENERGY CODE 110.3(7).
- EXHAUST DUCTS AND DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS
- 5. ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B)
 - PLUMBING FIXTURES AND FITTINGS INSTALLED IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE PRESCRIPTIVE REQ. OF SECTIONS 4.303.1.1 THROUGH 4.303.1.4.4.
- PLUMBING FIXTURES AND FITTINGS REQ. IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE AND SHALL MEET THE THE APPLICABLE REFERENCE STANDARDS.

ELECTRICAL NOTES

- RECEPTACLE OUTLET LOCATIONS WILL COMPLY WITH CEC ARTICLE 210.52. & CRC SECTION R327.1.2. TAMPER RESISTANT RECEPTACLE OUTLET LOCATIONS SHALL COMPLY W/ NEC ART. 210-52 AND 550.13 (I.E. ALL RECEPTACLES IN A DWELLING).
- ARC-FAULT PROTECTION FOR ALL OUTLETS (NOT JUST RECEPTACLES) LOCATED IN ROOMS DESCRIBED IN NEC 210.12(A): KITCHENS, LAUNDRY AREAS, FAMILY, LIVING, BEDROOMS, DINING, HALLS, ETC. ALL BRANCH CIRCUITS WILL BE ARC FAULT CIRCUIT PROTECTED PER NEC ART. 210-12(B). THERE ARE TO BE A MINIMUM OF 2 SMALL APPLIANCE BRANCH CIRCUITS WITHIN THESE AREAS CEC 210.11(C)1
- BATHROOM CIRCUITING SHALL BE EITHER: a) A 20 AMPERE CIRCUIT DEDICATED TO EACH BATHROOM.
 b) AT LEAST ONE 20 AMPERE CIRCUIT SUPPLYING ONLY BATHROOM RECEPTACLE OUTLETS PER NEC ART. 210-11(c)3.
- ALL 125-VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, OUTDOORS, LAUNDRY AREA, KITCHEN DISHWASHERS, KITCHEN COUNTERS AND AT WET BAR SINKS, WITHIN 6' OF A SINK, SHALL BE GFCI PROTECTED PER NEC ART. 210-8(A).
- WEATHER RESISTANT TYPE FOR RECEPTACLES INSTALLED IN DAMP OR WET LOCATIONS (OUTSIDE) NEC 406.4(D)(6)
 PER LIGHTING MEASURES 150(K)4 N T-24, THE BEDROOMS, HALLWAY, LIVING ROOM AND OFFICE ARE
- BE HIGH EFFICACY.

 OUTDOOR LIGHTING FIXTURES ARE REQUIRED TO BE HIGH EFFICACY OR CONTROLLED BY A COMBINATION PHOTOCONTROL / MOTION SENSOR.

BE ON A DIMMER SWITCH OR THE FIXTURE NEEDS TO

REQUIRED TO HAVE ANY INSTALLED FIXTURE TO

- A RECEPTACLE OUTLET MUST BE INSTALLED IN EVERY ROOM SO THAT NO POINT ALONG THE WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY ALONG THE FLOOR LINE FROM A RECEPTACLE OUTLET CEC 210.52(A)
- SMOKE DETECTORS MUST BE PERMANENTLY WIRED. IN NEW CONSTRUCTION, REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR

OVERCURRENT PROTECTION

- WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
- ALL EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS. (CENC 150(K) 2B)
- A MINIMUM OF ONE LUMINAIRE SHALL BE INSTALLED IN BATHROOM CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC -OFF FUNCTIONALLY (CENC 150 .0(K)21)
- LAUNDRY AREA SHALL AT LEAST 1-20 AMP DEDICATED BRANCH CIRCUIT (CEC 210 .11 (C)(2)

PROVIDE A DEDICATED CIRCUIT FOR THE A.C./FAU (CEC 422.12)

5. A DEDICATED 125V, 20AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRICAL PANEL WITH A $\frac{120}{240}$ -VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS (CENC 150.0(N)1A)

ELECTRICAL NOTES (CONT'D)

- PER CEC 2022 150.0(N).1.A.:

 IF THE DESIGNATED SPACE IS WITHIN 3 FEET FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING:A DEDICATED 125 VOLT, 20 AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRIC PANEL WITH A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS; AND
- BOTH ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED; AND
- A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE"; AND
- A CONDENSATE DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE.
- ELECTRICAL RECEPTACLE OUTLETS IN BATHROOM MUST BE NO MORE THAN 48 INCHES OR LESS THAN 15-INCHES MEASURE FROM THE FINISHED FLOOR.
- 18. DOORBELL BUTTON MUST BE INSTALLED NO MORE THAN 48 INCHES FROM EXTERIOR FLOOR.
- 9. LUMINAIRE EFFICACY ALL INSTALLED LUMINAIRES SHALL MEET THE REQUIREMENTS OF 2022 BUILDING ENERGY EFFICIENCY STANDARDS TABLE 150.0-A PER SECTION 150.0(K).

ELECTRIC READY NOTES: 2022 ENERGY EFFICIENCY STANDARDS 150.0

(S) ENERGY STORAGE SYSTEMS (ESS) READY. ALL SINGLE-FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE:

- 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 ONE
 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS
 (SUBPANEL) MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL
 BACKED-UP LOAD CIRCUITS."
- 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.
 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.

(T) HEAT PUMP SPACE HEATER READY. SYSTEMS USING GAS OR PROPANE FURNACE TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE FURNACE AND ACCESSIBLE TO THE FURNACE WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN
- ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE HEAT PUMP SPACE HEATER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE."

(U) ELECTRIC COOKTOP READY. SYSTEMS USING GAS OR PROPANE COOKTOP TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE COOKTOP AND ACCESSIBLE TO THE COOKTOP WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 50 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED
- IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A
 RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A
 DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC
 COOKTOP INSTALLATION. THE RESERVED SPACE SHALL BE
 PERMANENTLY MARKED AS "FOR FUTURE 240V USE."

(V) ELECTRIC CLOTHES DRYER READY. CLOTHES DRYER LOCATIONS WITH GAS OR PROPANE PLUMBING TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- 1. A DEDICATED 240 VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE CLOTHES DRYER LOCATION AND ACCESSIBLE TO THE CLOTHES DRYER LOCATION WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
- 2. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC CLOTHES DRYER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USE."

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BY USING THESE PERMIT READY CONSTRUCTION DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS:

(D

 THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FO ORANGE COUNTY **only. This`is á limited set of** STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE

CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL.

2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT

PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOL DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM AN USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH

CONSTRUCTION OF AN ADU OR OTHER

IMPROVEMENT UNDER THESE PLANS AT ALL.

County of Orange Pre-Approved ADU Program

OWNIED NIA ME

OWNER NAME:

ADDRESS: APN:

LEGAL DESCRIPTION:

revisions

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General Notes

date April 03, 2024

project no.

drawn by DESIGN PATH STUDIO

et no. **G0.2**

CBC CHAPTER 7A - MATERIALS & CONSTRUCTION METHODS FOR EXTERIOR WILDLIFE EXPOSURE IF THE PROPERTY THAT WILL CONTAIN THE ADU IS IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE THESE NOTES SHALL APPLY. THE JURISDICTION HAS DETERMINED THAT THIS PROJECT IS IN A WILDLIFE -URBAN INTERFACE AREA. PLEASE SHOW COMPLIANCE WITH THE FOLLOWING ITEMS FOR NEW BUILDINGS, PER THE 2022 CBC. **EXCEPTIONS:**

- BUILDINGS OF AN ACCESSORY CHARACTER CLASSIFIED AS A GROUP U OCCUPANCY AND NOT EXCEEDING 120 SQUARE FEET IN FLOOR AREA. WHEN LOCATED AT LEAST 30 FEET FROM AN APPLICABLE BUILDING.
- BUILDINGS OF AN ACCESSORY CHARACTER CLASSIFIES AS A GROUP U OCCUPANCY OF ANY SIZE LOCATED LEAST 50' FROM AN APPLICABLE BUILDING.
- BUILDINGS CLASSIFIED AS A GROUP U AGRICULTURE BUILDING. AS DEFINED IN SECTION 202 OF THE CODE (SEE ALSO APPENDIX C - GROUP U AGRICULTURE BUILDINGS), WHEN LOCATED AT LEAST 50' FROM AN APPLICABLE BUILDING.

REQUIREMENTS:

- 705A.2 ROOF COVERINGS. WHERE THE ROOF PROFILE HAS AN AIRSPACE UNDER THE ROOF COVERING, INSTALLED OVER A COMBUSTIBLE DECK, A 72 LB. (32.7 KG) CAP SHEET COMPLYING WITH ASTM D3909 STANDARD SPECIFICATION FOR "ASPHALT ROLLED ROOFING (GLASS FELT) SURFACED WITH MINERAL GRANULES," SHALL BE INSTALLED OVER THE ROOF DECK. BIRD STOPS SHALL BE USED AT THE EAVES WHEN THE PROFILE FITS. TO PREVENT DEBRIS AT THE EAVE. HIP AND RIDGE CAPS SHALL BE MUDDED IN TO PREVENT INTRUSION OF FIRE OR EMBERS EXCEPTION: CAP SHEET IS NOT REQUIRED WHEN NO LESS THAN 1" OF MINERAL WOOL BOARD OR OTHER NONCOMBUSTIBLE MATERIAL IS LOCATED BETWEEN THE ROOFING MATERIAL AND WOOD FRAMING OR DECK. ALTERNATELY, A CLASS A FIRE RATED ROOF UNDERLAYMENT, TESTED IN ACCORDANCE WITH ASTM E108, SHALL BE PERMITTED TO BE USED, IF THE SHEATHING CONSISTS OF EXTERIOR FIRE-RETARDANT TREATED WOOD, THE UNDERLAYMENT SHALL NOT BE REQUIRED TO COMPLY WITH A CLASS A CLASSIFICATION. BIRD STOPS SHALL BE USED AT THE EAVES WHEN THE PROFILE FITS, TO PREVENT DEBRIS AT THE EAVE. HIP AND RIDGE CAPS SHALL BE MUDDED IN TO PREVENT INTRUSION OF FIRE OR EMBERS.
- 705A.3 ROOF VALLEYS. WHERE VALLEY FLASHING IS INSTALLED. THE FLASHING SHALL BE NOT LESS THAN 0.019-INCH NO. 26 GAGE GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MIN. 72 POUND MINERAL - SURFACED NON PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909. AT LEAST 36-INCH -WIDE RUNNING THE FULL LENGTH OF THE VALLEY.
- 705A.4 ROOF GUTTER. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER.
- 706A.2 VENTILATION OPENINGS SHALL BE FULLY COVERED WITH WILDFIRE FLAME And EMBER RESISTANT VENTS APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL, OR WUI VENTS TESTED TO ASTM E2886 AND LISTED, BY COMPLYING WITH ALL OF THE FOLLOWING REQUIREMENTS:
 - A) THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST B) THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST C) THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 F
- 706A.2.1 VENTS THAT ARE INSTALLED ON A SLOPED ROOF, SUCH AS DORMER VENTS, SHALL COMPLY WITH ALL THE FOLLOWING A) VENTS SHALL BE COVERED WITH A MESH WHERE THE DIMENSIONS OF THE MESH THEREIN SHALL BE A MINIMUM OF $\frac{1}{16}$ - INCH AND SHALL NOT EXCEED $\frac{1}{8}$ - INCH IN DIAMETER B) THE MESH MATERIAL SHALL BE NONCOMBUSTIBLE
- C) THE MESH MATERIAL SHALL BE CORROSION RESISTANT. 707A.3 EXTERIOR WALLS COVERINGS. THE EXTERIOR WALL COVERING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING REQUIREMENTS, EXCEPT AS PERMITTED FOR EXTERIOR WALL ASSEMBLIES COMPLYING WITH SECTION 707A.4:
 - 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2. 3. FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2.
- 707A.3.1 EXTENT OF EXTERIOR WALL COVERING. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF AND TERMINATE AT 2" NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT THE ENCLOSURE.

- 8. 707A.4 EXTERIOR WALL ASSEMBLIES. EXTERIOR WALL ASSEMBLIES OF BUILDINGS OR STRUCTURES SHALL BE CONSTRUCTED USING ONE OR MORE OF THE FOLLOWING METHODS, UNLESS THEY ARE COVERED BY AN EXTERIOR WALL COVERING COMPLYING WITH SECTION 707A.3:
 - 1. ASSEMBLY OF SAWN LUMBER OR GLUE LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SPLINED, TONGUE-AND-GROVE, OR SET CLOSE TOGETHER AND WELL SPIKED.
 - 2. LOG WALL CONSTRUCTION ASSEMBLY
 - 3. ASSEMBLY THAT HAS BEEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10 MINUTE DIRECT FLAME CONTACT EXPOSURE SET FORTH IN ASTM E2707 WITH THE CONDITIONS OF ACCEPTANCE SHOWN IN SECTION 707A.4.1
 - 4. ASSEMBLY THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A TEN MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1
 - 5. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE WITH A 1-HOUR FIRE RESISTANCE RATING, RATED FROM THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL263
 - 6. ASSEMBLY SUITABLE FOR EXTERIOR FIRE EXPOSURE CONTAINING ONE LAYER OF \(\frac{5}{8} \) -INCH TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR WALL COVERING OR CLADDING ON THE EXTERIOR SIDE OF THE FRAMING.
 - 7. ASSEMBLY SUITABLE FOR EXTERIOR EXPOSURE CONTAINING ANY OF THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUEL AS COMPLYING WITH A 1-HOUR FIRE-RESISTANCE RATING, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263
- 707A.5 OPEN ROOF EAVES. THE EXPOSED ROOF DECK ON THE UNDERSIDE OF ENCLOSED ROOF EAVES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING:
 - 1. NON COMBUSTIBLE MATERIAL
 - 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AN SHALL MEET THE REQUIREMENTS OF SECTION 704A.2
 - 3. FIRE-RETARDANT-TREATED WOOD. THE FIRE-RETARDANT-TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF **SECTION 2303.2**
 - 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263
 - 5. ONE LAYER OF $\frac{5}{8}$ " TYPE X GYPSUM SHEATHING APPLIES BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE EXTERIOR OF THE ROOF DECK.
 - 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIES AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE ROOF DECK DESIGNED FOR THE EXTERIOR FIRE EXPOSURE. INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DEIGN MANUAL.
 - EXCEPTION TO SECTION 707A.5: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS
- 10. 707A.6 ENCLOSED ROOF EAVES AND ROOF EAVE SOFFITS. THE EXPOSED UNDERSIDE OF ENCLOSED ROOF EAVES HAVING EITHER A BOXED-IN ROOF EAVE SOFFIT WITH A HORIZONTAL UNDERSIDE,OR SLOPING RAFTER TAILS WITH AN EXTERIOR COVERING APPLIED TO THE UNDERSIDE OF THE RAFTER TAILS, SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:
 - NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND
 - SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE
 - AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM
 - E119 OR UL 263 5. ONE LAYER OF \(\frac{5}{8} \) TYPE X GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF
 - FLOOR PROJECTION. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, APPLIED TO THE UNDERSIDE OF THE RAFTER TAIS OR SOFFIT, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE
 - GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN
 - **ASTM E2957** 8. BOXED-IN ROOF EAVE SOFFIT ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3

EXCEPTION TO SECTION 707A.6: THE FOLLOWING MATERIALS DO NOT REQUIRE PROTECTION: FASCIA AND OTHER ARCHITECTURAL TRIM BOARDS

- 707A.7 EXTERIOR PORCH CEILINGS. THE EXPOSED UNDERSIDE OF THE EXTERIOR PORCH CEILINGS SHALL BE PROTECTED BY ONE OF THE FOLLOWING:
 - NON COMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2
 - 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF \(\frac{5}{8} \) TYPE X GYPSUM SHEATHING APPLIED BEHIND THE EXTERIOR COVERING OR CLADDING ON THE
 - UNDERSIDE OF THE RAFTER TAILS OR SOFFIT. 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION
 - FIRE RESISTANCE DESIGN MANUAL 7. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN ASTM E2957 8. PORCH CEILING ASSEMBLIES WITH A HORIZONTAL UNDERSIDE THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3

EXCEPTION TO SECTION 707A.7: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION

- 12. 707A.8 FLOOR PROJECTIONS. THE EXPOSED UNDERSIDE OF A CANTILEVER FLOOR PROJECTION WHERE A FLOOR ASSEMBLY EXTENDS OVER AN EXTERIOR WALL SHALL BE PROTECTED BY ON OF THE FOLLOWING:
 - 1. NONCOMBUSTIBLE MATERIAL
 - 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT
 - TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263
 - 5. ONE LAYER OF 5/8" TYPE X GYPSUM SHEATHING APPLIED BEHIND AND EXTERIOR COVERING ON THE UNDERSIDE OF THE CEILING 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119, APPLIED TO THE UNDERSIDE OF THE CEILING ASSEMBLY,
 - INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.10 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES
 - SET FORTH IN ASTM E2957. 8. THE UNDERSIDE OF A FLOOR PROJECTIONS ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN THE SFM STD

EXCEPTION TO SECTION 707A.8: ARCHITECTURAL TRIM BOARDS DO NOT REQUIRE PROTECTION

- 13. 707A.9 UNDERFLOOR PROTECTION. THE UNDERFLOOR AREA OF ELEVATED OR OVERHANGING BUILDINGS SHALL BE ENCLOSED TO GRADE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE OF THE EXPOSED UNDERFLOOR SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:
 - 1. NONCOMBUSTIBLE MATERIAL 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263

5. ONE LAYER OF 5/8" TYPE X GYPSUM SHEATHING APPLIED

BEHIND AND EXTERIOR COVERING ON THE UNDERSIDE OF THE FLOOR PROJECTION 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE FLOOR, INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND

SHEATHING PRODUCTS LISTED IN THE GYPSUM ASSOCIATION

- FIRE RESISTANCE DESIGN MANUAL. 7. THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN
- ASTM E2957. 8. THE UNDERSIDE OF A FLOOR ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD 12-7A-3.

EXCEPTION TO SECTION 707A.9: STRUCTURAL COLUMNS AND BEAMS DO NOT REQUIRE PROTECTION WHEN CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED. TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER AND WELL SPIKED.

- 707A.10 UNDERSIDE OF APPENDAGES. WHEN REQUIRED BY THE ENFORCING AGENCY THE UNDERSIDE OF OVERHANGING APPENDAGES SHALL BE ENCLOSED TO GRADE IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CHAPTER OR THE UNDERSIDE
- **FOLLOWING:** 1. NONCOMBUSTIBLE MATERIAL
- 2. IGNITION- RESISTANT MATERIAL. THE IGNITION-RESISTANT MATERIAL SHALL BE LABELED FOR EXTERIOR USE AND SHALL

OF THE EXPOSED UNDER FLOOR SHALL CONSIST OF ONE OF THE

- MEET THE REQUIREMENTS OF SECTION 704A.2 3. FIRE-RETARDANT-TREATED-WOOD. THE FIRE-RETARDANT TREATED WOOD SHALL BE LABELED FOR EXTERIOR USE AND
- SHALL MEET THE REQUIREMENTS OF SECTION 2303.2 4. MATERIALS APPROVED FOR NOT LESS THAN 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION ON THE EXTERIOR SIDE, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 5. ONE LAYER OF \(\frac{5}{8} \)" TYPE X GYPSUM SHEATHING APPLIED

BEHIND THE EXTERIOR COVERING ON THE UNDERSIDE OF

- THE APPENDAGE PROJECTION 6. THE EXTERIOR PORTION A 1- HOUR FIRE RESISTIVE EXTERIOR ASSEMBLY, AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, APPLIED TO THE UNDERSIDE OF THE APPENDAGE. INCLUDING ASSEMBLES USING THE GYPSUM PANEL AND SHEATHING PRODUCTS LISTED IN THE GYPSUM
- ASSOCIATION FIRE RESISTANCE DESIGN MANUAL 7. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN SECTION 707A.11 WHEN TESTED IN ACCORDANCE WITH THE TEST
- PROCEDURES SET FORTH IN ASTM E2957. 8. THE UNDERSIDE OF AN APPENDAGE ASSEMBLY THAT MEETS THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES SET FORTH IN SFM STANDARD
- **EXCEPTION TO SECTION 707A.10: STRUCTURAL COLUMNS** AND BEAMS DO NOT REQUIRE PROTECTION WHEN CONSTRUCTED WITH SAWN LUMBER OR GLUE-LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES. SAWN OR GLUE-LAMINATED PLANKS SHALL BE SPLINED, TONGUE-AND-GROOVE, OR SET CLOSE TOGETHER AND WELL SPIKED
- 15. 708A.2 EXTERIOR GLAZING. THE FOLLOWING EXTERIOR GLAZING MATERIALS AND/OR ASSEMBLIES SHALL COMPLY WITH THIS
 - 1. EXTERIOR WINDOWS
 - 2. EXTERIOR GLAZED DOORS
 - 3. GLAZED OPENINGS WITHIN EXTERIOR DOORS 4. GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS
 - 5. EXTERIOR STRUCTURAL GLASS VENEERS

 - 6. SKYLIGHTS 7. VENTS
- 708A.2.1 EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR
- 1. BE CONSTRUCTED OF MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, OR 2. BE CONSTRUCTED OF GLASS BLOCK UNITS, OR
- 3. HAVE A FIRE-RESISTANT RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED IN ACCORDANCE TO NFPA 257. OR 4. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2.
- 17. 708A.3 EXTERIOR DOORS. EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:
 - 1. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL 2. THE EXTERIOR SURFACE OR CLADDING SHALL BE IGNITION RESISTANT MATERIAL
 - 3. TEH EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - 3.1 STILES AND RAILS SHALL NOT BE LESS THAN 1-3/8" THICK.
 - 3.2 RAISED PANELS SHALL NOT BE LESS THAN 1-1/4" THICK. EXCEPT FOR THE EXTERIOR PERIMETER OF THE PANEL THAT SHALL BE PERMITTED TO TAPER TO A TONGUE NOT LESS THAN 3/4" THICK.
 - 4. THE EXTERIOR DOOR SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED
 - ACCORDING TO THE NFPA 252. 5. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE IN SECTION 707A.3.1 WHEN TESTED IN ACCORDANCE WITH ASTM E2707.
 - 6. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1.
- 18. 708A.3.1 EXTERIOR DOOR GLAZING. GLAZING IN EXTERIOR DOORS SHALL COMPLY WITH SECTION 708A2.1

FIRE SPRINKLER NOTES

- IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY. AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE
- MOST CURRENT EDITION. 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.
- 3. SECTION 903.2.8 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD.
- 4. SECTION 903.3.2 WHERE AUTOMATIC SPRINKLER SYSTEMS ARE REQUIRED, QUICK-RESPONSE OR RESIDENTIAL AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING AREAS IN ACCORDANCE WITH SECTION 903.3.1 AND THEIR LISTINGS:
- 1. THROUGHOUT ALL SPACES WITHIN A SMOKE COMPARTMENT CONTAINING CARE RECIPIENT SLEEPING UNITS IN GROUP I-2 IN ACCORDANCE WITH THIS CODE. 2. THROUGHOUT ALL SPACES WITHIN A SMOKE COMPARTMENT
- CONTAINING TREATMENT ROOMS IN AMBULATORY CARE FACILITIES. 3. DWELLING UNITS AND SLEEPING UNITS IN GROUP I-1 AND R
- **OCCUPANCIES** 4. LIGHT-HAZARD OCCUPANCIES AS DEFINED IN NFPA 13. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE
- REQUIRED AT FINAL INSPECTION. SECTION 903.5 SPRINKLER SYSTEMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE

ABBREVIATIONS ACCESSORY DWELLING UNIT AFF ABOVE FINISH FLOOR AMP **AMPERE** AWG AMERICAN WIRE GAUGE BMP BEST MANAGEMENT PRACTICE BM BEAM BN **BOUNDARY NAILING** BOTTOM COUNTER CALC CALCULATION CUBIC FEET PER HOUR CFM **CUBIC FEET PER MINUTE** CONC CONCRETE CONTINUOUS CONT DBL DOUBLE DIA DIAMETER DTP DOUBLE TOP PLATE DW DISH WASHER EQ **EQUAL** FFE FINISH FLOOR ELEVATION FIN FINISH FR FIRE RATED GAL GALLON GD GARBAGE DISPOSAL GROUND-FAULT CIRCUIT INTERRUPTER GALVANIZED IRON GL GLASS GPM **GALLON PER MINUTE** GYP **GYPSUM** HLW **HALLOW** HGT HEIGHT HDR **HEADER** HDU HOLDOWN INSTALLATION LVL LEVEL MIN MINIMUM

> OR APPROVED EQUIVALENT ON CENTER **OPERATION** OVEN ORIENTED STRAND BOARD POUNDS PER SQUARE INCH PARALLEL-STRAND LUMBER POST TENTION

QNTY QUANTITY REQ REQUIRED REF REFRIGERATOR REINF REINFORCED SDS SAFETY DATA SHEET SIM SIMILAR SQUARE FOOTAGE

OAE

OC

PSI

PSL

PT

SF

SHT

OPER

TEMPERED THICK **THICKNESS** TYP **TYPICAL** UNO **UNLESS NOTED OTHERWISE** VΒ TYPE 5 B CONSTRUCTION

SHEET

W/D WASHER AND DRYER WD WOOD WH WATER HEATER WR WEATHER RESISTANT

VOLT

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FOLLOWING CONDITIONS:

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County of Orange Pre-Approved

ADU Program

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April 03, 2024

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Schedules & Notes Plan 3A

date April 03, 2024

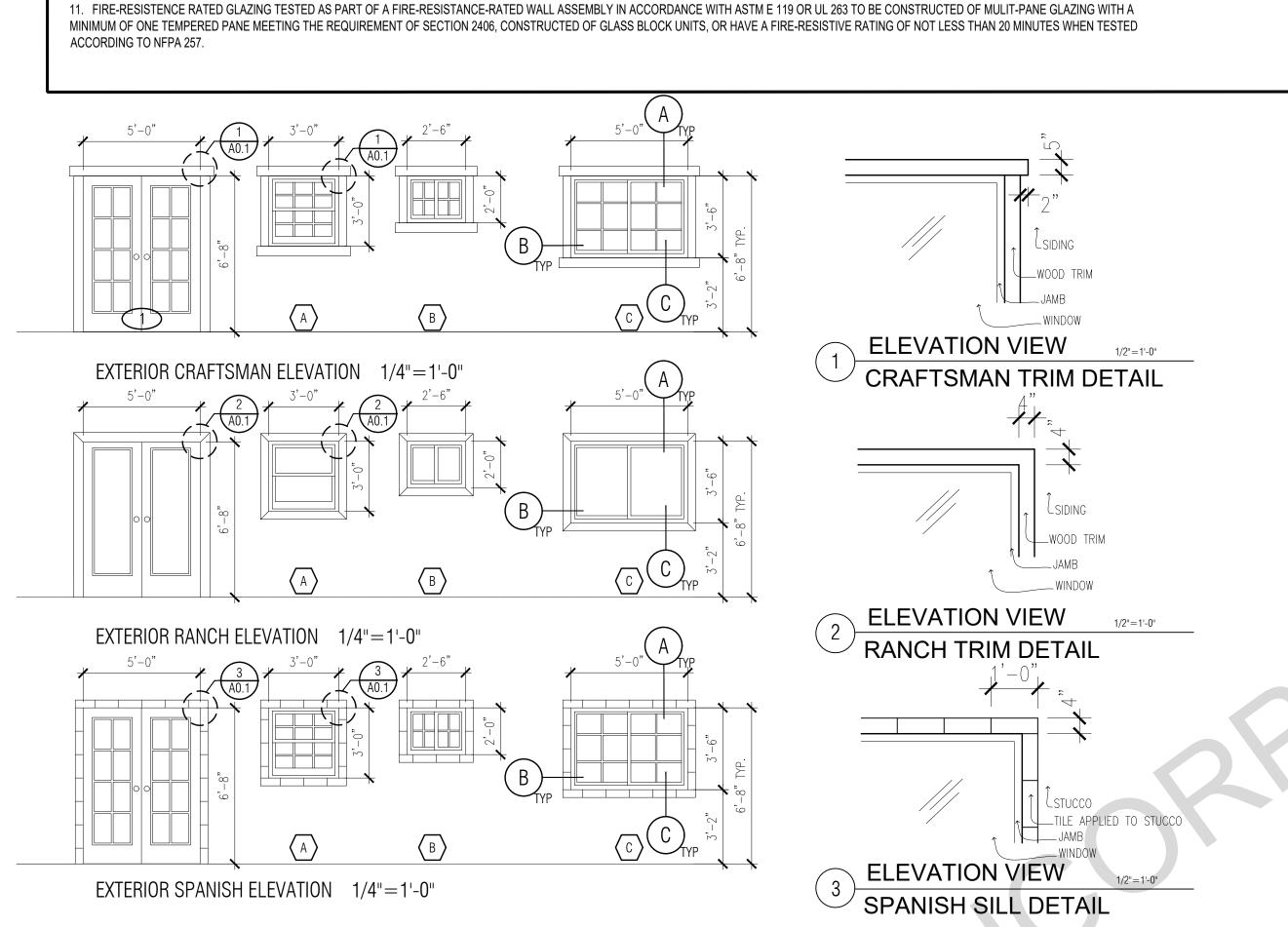
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WIN	WINDOW SCHEDULE							DOOR SCHEDULE															
WINDOW		W SIZE HEIGHT	- OPER.	QNTY	FRAME	HEAD HEIGH	T LOCATION	REMARKS	VHFSZ NOTES SEE SHEET G0.3 (WHEN REQ'D)	SHGC	U- FACTOR	DOOR	DOOR TYPE		DOOR SIZE	CK.	MATER	RIAL FRAME	LOCATION	REMARKS	VHFSZ NOTES SEE SHEET G0.3 (WHEN REQ'D)	SHGC	U- FACTOR
Α	3'-0"	3'- ^{0"}	DOUBLE-HUNG	1	VINYL	6'-8"	KITCHEN WINDOW		NOTE 15 & 16	0.23	0.3	1	FRENCH DOOR	5'- ^{0"}	6'-8" 1-	/4" GL	VNL/GI	LASS VINYL	FRONT ENTRY	TEMPERED	NOTE 15,16,17, & 18	0.23	0.3
В	2'- ^{6"}	2'- ^{0"}	SLIDER	2	VINYL	6'-8"	BATHROOM WINDOWS	TEMPERED	NOTE 15 & 16	0.23	0.3	2	SINGLE DOOR	3'-0"	6'- ^{8"} 1-	/4" HLW	WOOI	D WD	BEDROOM DOOR				
С	5'- ^{0"}	3'- ^{6"}	SLIDER	4	VINYL	6'-8"	BEDROOM WINDOWS	NOTE 7 PER PLAN	NOTE 15 & 16	0.23	0.3	3	POCKET DOOR	3'-0"	6'- ^{8"} 1-	^{/4"} HLW	WOO	DD WD	CLOSET DOOR				
												4	SINGLE DOOR	3'-0"	6'- ^{8"} 1-	^{/4"} HLW	WOO	DD WD	BATHROOM DOOR				
												5	SINGLE DOOR	2'- ^{6"}	6'- ^{8"} 1-	/4" HLW	woo	DD WD	BEDROOM DOOR				
												6	SLIDING DOOR	6'- ^{3"}	6'- ^{8"} 1-	/4" HLW	woo	DD WD	CLOSET DOOR				
WIN	DOW N	IOTES		•		•		<u>.</u>				7	SINGLE DOOR	2'-6"	6'- ^{8"} 1-	/4" HLW	woo	DD WD	LAUNDRY ROOM DOOR				
-	_											8	SINGLE DOOR	2'- ^{6"}	6'- ^{8"} 1-	/4" HLW	woo	DD WD	BATHROOM DOOR				
							IDOWS TO HAVE SCREENS). RIFY ACTUAL DIMENSIONS FOR WINDOWS					9	SINGLE DOOR	2'- ^{6"}	6'- ^{8"} 1-	/4" HLW	woo	DD WD	BEDROOM DOOR				
3. ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE NFRC LABEL.						10	SLIDING DOOR	3'- ⁴ "	6'- ^{8"} 1-	/4" HLW	woo	DD WD	CLOSET DOOR										
4. ALL GLAZING SHALL BE SPECTRALY SELECTIVE LOW E COATED TO MEET TITLE 24 ENERGY REQUIREMENTS. 5. WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.D							11	SINGLE DOOR	2'- ⁴ "	6'- ^{8"} 1-	/4" HLW	WOO	DD WD	WATER HEATER	LOUVERED								
6 VENTILATION SHALL COMPLY WITH C B C 1203 4 AND R303						DOOR NOTES																	

- ALL GLASS IN DOORS SHALL BE TEMPERED. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
- 2. ALL GLAZING WILL BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE "U" VALUE.
- 3. REFER TO FLOOR PLANS FOR DIRECTION OF DOOR SWING.
- 4. DOORS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
- 5. VENTILATION SHALL COMPLY WITH C.B.C. 1203.4 AND R303.
- 6. DOORS MAY OPEN TO THE EXTERIOR ONLY IF THE FLOOR OR LANDING IS NOT MORE THAN 1-1/2 INCH LOWER
- THAN THE DOOR THRESHOLD. SECTION R311.3.1 CRC
- GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATING-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE, 8. EXTERIOR DOOR ASSEMBLIES SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF STANDARD SFM 12-7A-1 OR SHALL BE OF APPROVED NONCOMBUSTIBLE CONSTRUCTION OR
- IGNITION-RESISTANT MATERIAL, OR SOLID CORE WOOD HAVING STILES AND RAILS NOT LESS THAN 1 3/8 INCHES THICK WITH INTERIOR FIELD PANEL THICKNESS NO LESS THAN 1 1/4 INCHES THICK, OR SHALL
- HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257.



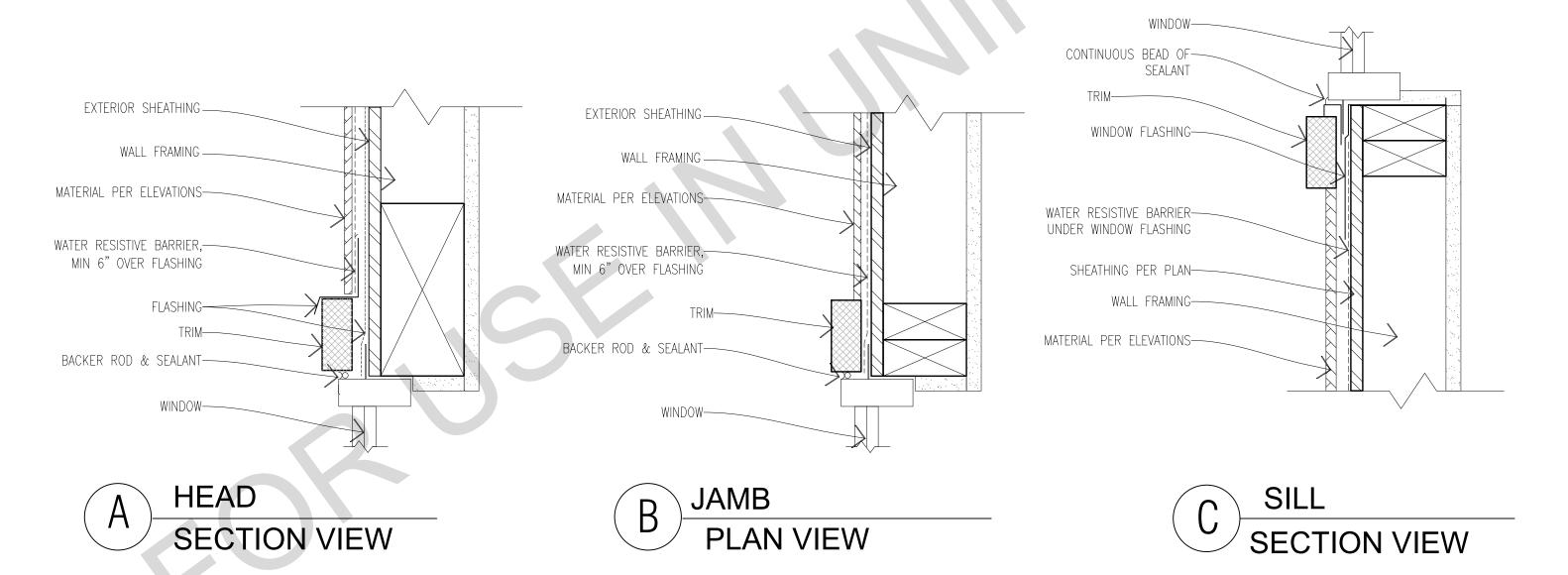
9. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL VENTILATION AND NATURAL LIGHT BY MEANS OF VENTILATION / ARTIFICIAL LIGHT. CBC SECTIONS 1203.4 AND 1205.1 AND

A) THE MINIMUM NET GLAZED AREA FOR NATURAL LIGHT SHALL NOT BE LESS THAN 8%OF THE FLOOR AREA OF THE ROOM SERVED. CBC SECTION 1205.2

THE MINIMUM OPENABLE AREA TO THE OUTDOORS FOR NATURAL VENTILATION SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED. SECTION 1203.4

10. EXTERIOR WINDOWS, WINDOW WALLS, GLAZED DOORS, AND GLAZED OPENINGS WITHIN EXTERIOR DOORS SHALL BE INSULATING-GLASS UNITS WITH A MINIMUM OF ONE TEMPERED PANE

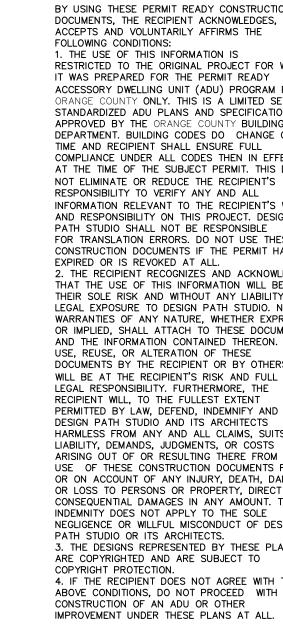
8. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND <u>VISIBLE WHEN THE UNIT IS GLAZED</u>.

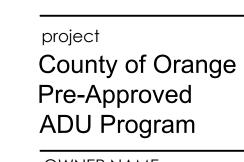




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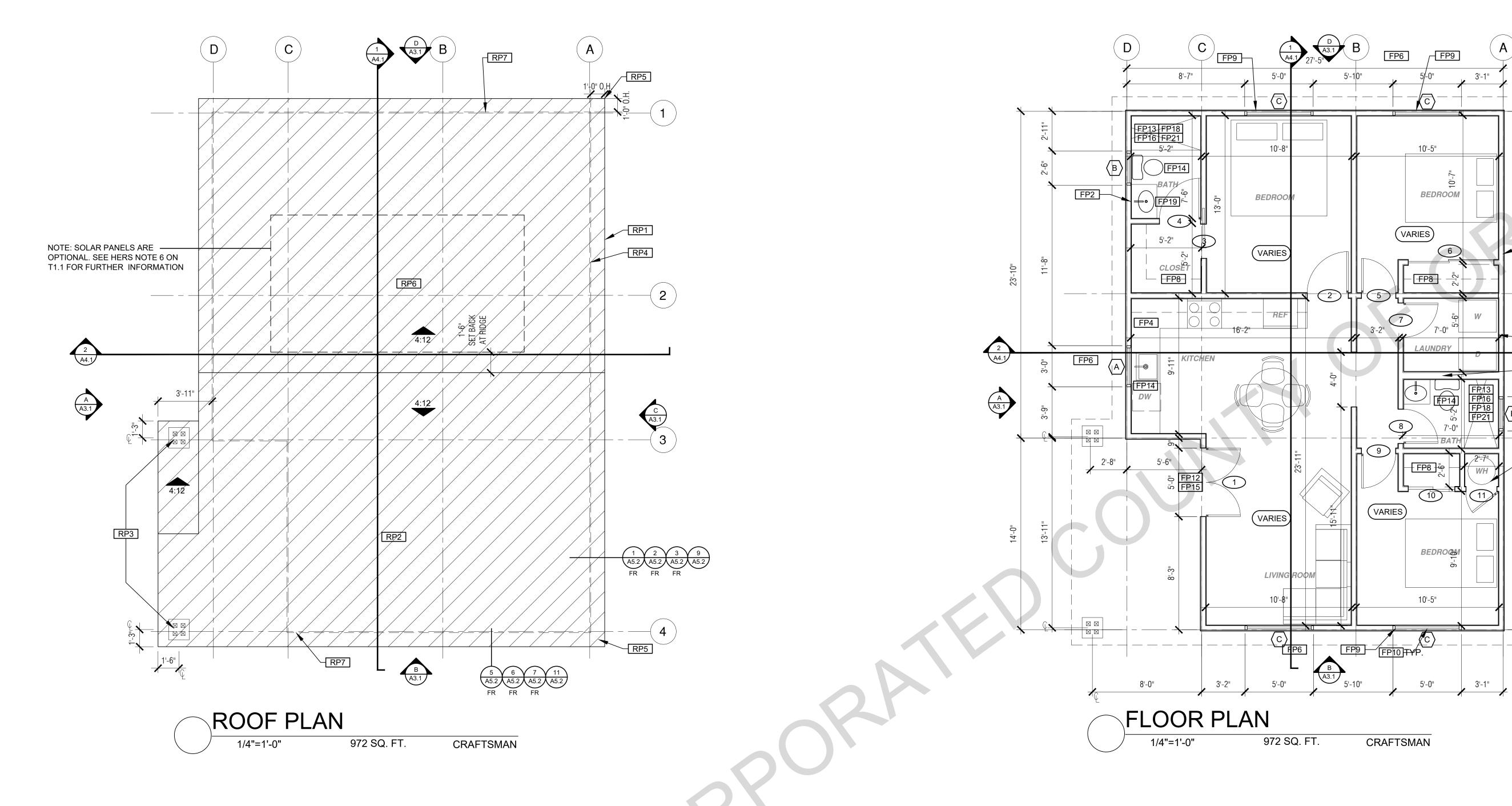
Craftsman Floor/Roof Plan 3 Bedroom Plan 3A

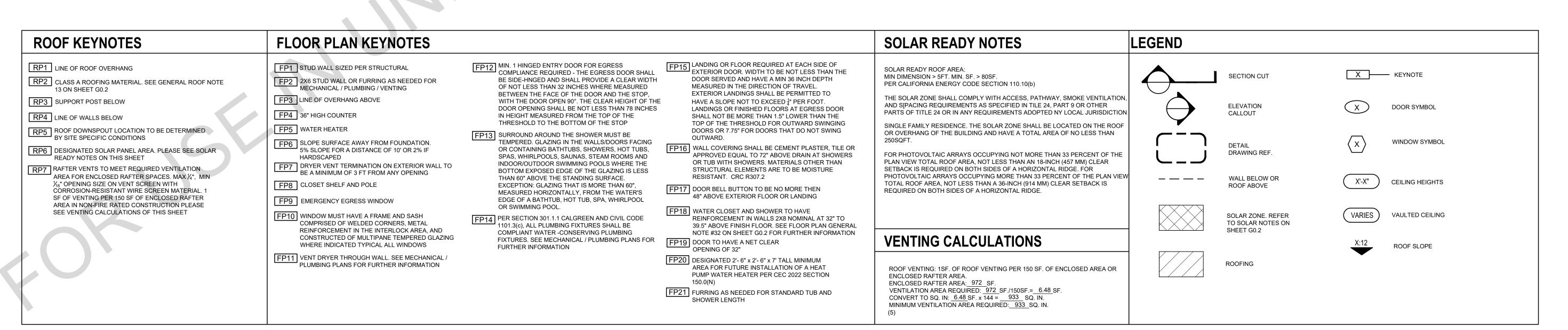
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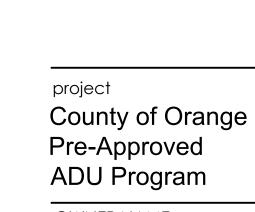






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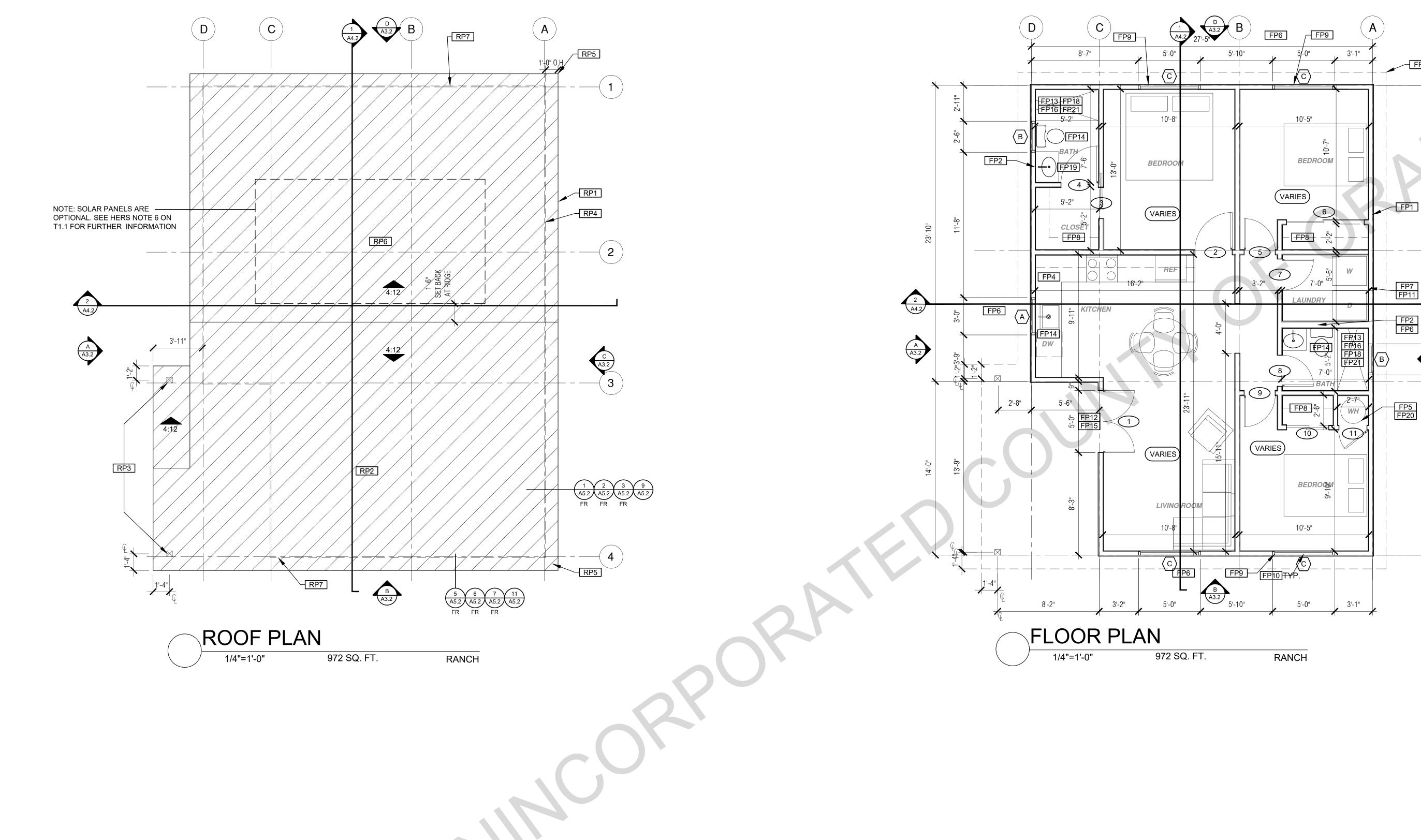
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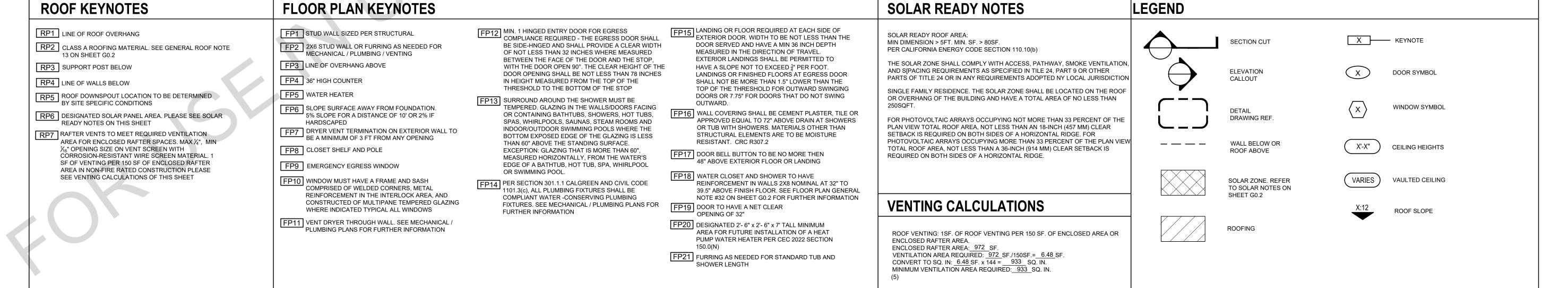
revisions

description Ranch Floor/Roof Plan 3 Bedroom Plan 3A

April 03, 2024

project no.

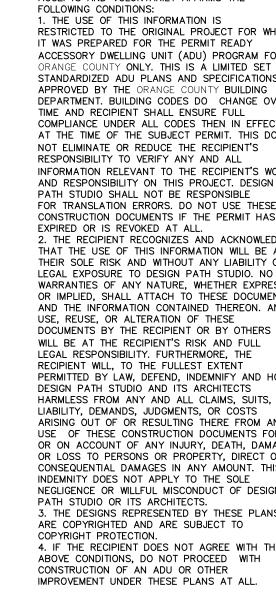






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SOLAR READY NOTES LEGEND FP15 LANDING OR FLOOR REQUIRED AT EACH SIDE OF EXTERIOR DOOR. WIDTH TO BE NOT LESS THAN THE SOLAR READY ROOF AREA: X KEYNOTE **SECTION CUT** MIN DIMENSION > 5FT. MIN. SF. > 80SF. DOOR SERVED AND HAVE A MIN 36 INCH DEPTH PER CALIFORNIA ENERGY CODE SECTION 110.10(b) MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, HAVE A SLOPE NOT TO EXCEED $\frac{1}{4}$ " PER FOOT. AND S[PACING REQUIREMENTS AS SPECIFIED IN TILE 24, PART 9 OR OTHER **ELEVATION** DOOR SYMBOL LANDINGS OR FINISHED FLOORS AT EGRESS DOOR PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED NY LOCAL JURISDICTION CALLOUT SHALL NOT BE MORE THAN 1.5" LOWER THAN THE TOP OF THE THRESHOLD FOR OUTWARD SWINGING SINGLE FAMILY RESIDENCE. THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF DOORS OR 7.75" FOR DOORS THAT DO NOT SWING OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA OF NO LESS THAN WINDOW SYMBOL FP16 WALL COVERING SHALL BE CEMENT PLASTER, TILE OR DETAIL DRAWING REF. APPROVED EQUAL TO 72" ABOVE DRAIN AT SHOWERS FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18-INCH (457 MM) CLEAR OR TUB WITH SHOWERS. MATERIALS OTHER THAN SETBACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. FOR STRUCTURAL ELEMENTS ARE TO BE MOISTURE PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW WALL BELOW OR _ _ _ _ _ X'-X" CEILING HEIGHTS TOTAL ROOF AREA, NOT LESS THAN A 36-INCH (914 MM) CLEAR SETBACK IS ROOF ABOVE FP17 DOOR BELL BUTTON TO BE NO MORE THEN REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE. 48" ABOVE EXTERIOR FLOOR OR LANDING FP18 WATER CLOSET AND SHOWER TO HAVE VARIES) VAULTED CEILING SOLAR ZONE. REFER REINFORCEMENT IN WALLS 2X8 NOMINAL AT 32" TO TO SOLAR NOTES ON 39.5" ABOVE FINISH FLOOR. SEE FLOOR PLAN GENERAL SHEET G0.2 NOTE #32 ON SHEET G0.2 FOR FURTHER INFORMATION **VENTING CALCULATIONS** FP19 DOOR TO HAVE A NET CLEAR **ROOF SLOPE** FP20 DESIGNATED 2'- 6" x 2'- 6" x 7' TALL MINIMUM ROOFING AREA FOR FUTURE INSTALLATION OF A HEAT ROOF VENTING: 1SF. OF ROOF VENTING PER 150 SF. OF ENCLOSED AREA OR PUMP WATER HEATER PER CEC 2022 SECTION ENCLOSED RAFTER AREA. ENCLOSED RAFTER AREA: 972 SF. VENTILATION AREA REQUIRED: 972 SF./150SF.= 6.48 SF. FP21 FURRING AS NEEDED FOR STANDARD TUB AND CONVERT TO SQ. IN: <u>6.48 SF. x 144 = <u>933</u> SQ. IN. MINIMUM VENTILATION AREA REQUIRED: <u>933</u> SQ. IN.</u>

10'-5"

(VARIES)

VARIES

BEDRO

10'-5"

SPANISH

BEDROO

VARIES

VARIES

LIVING

2'-11" 4'-0" 1'-5" 3'-2" 5'-0" 5'-10" 5'-0" 3'-1"

972 SQ. FT.

FLOOR PLAN

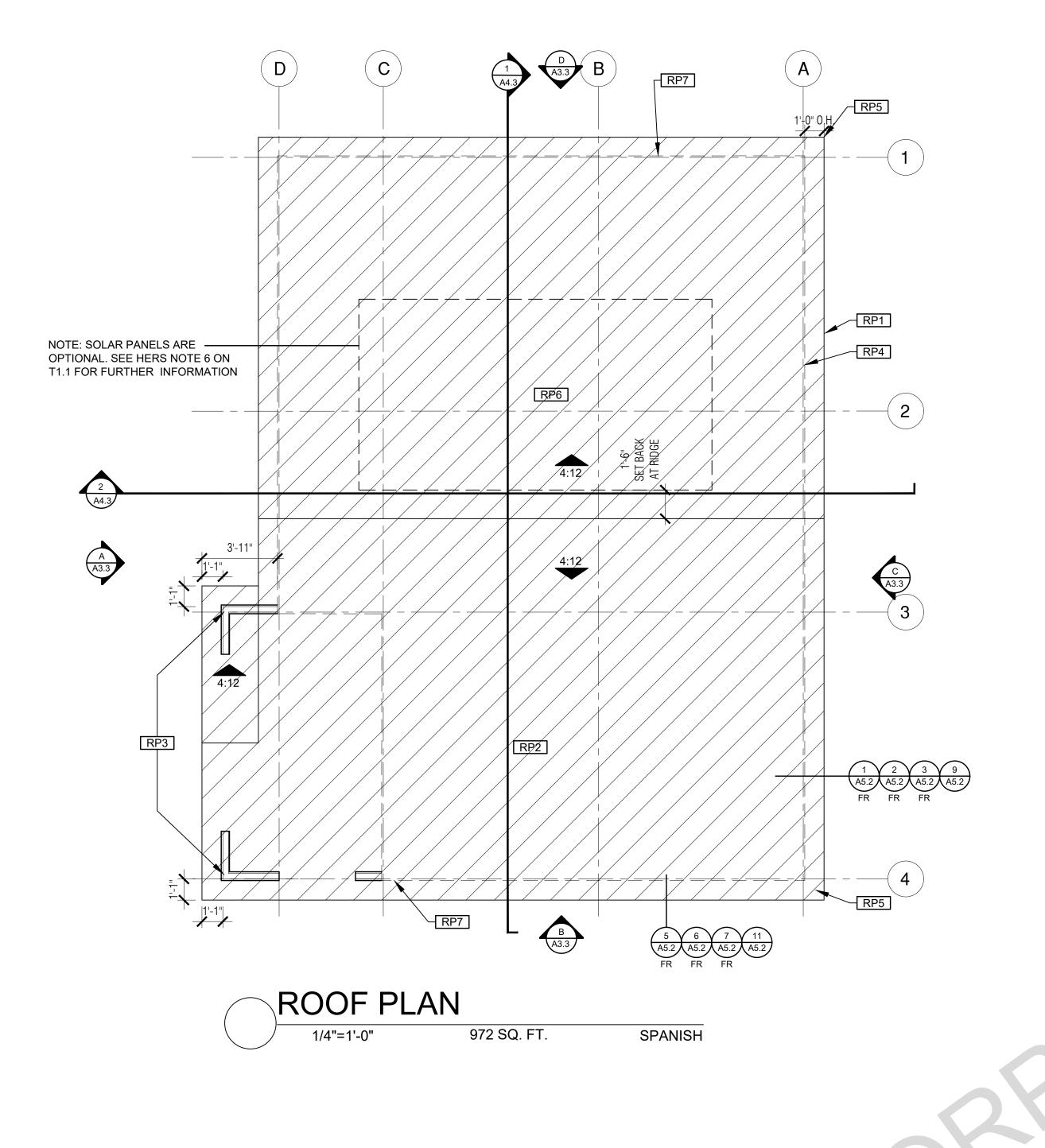
5'-2"

A4.3

FP6

CLOSET

BEDROOM



FLOOR PLAN KEYNOTES

FP2 2X6 STUD WALL OR FURRING AS NEEDED FOR

MECHANICAL / PLUMBING / VENTING

FP6 SLOPE SURFACE AWAY FROM FOUNDATION. 5% SLOPE FOR A DISTANCE OF 10' OR 2% IF

FP7 DRYER VENT TERMINATION ON EXTERIOR WALL TO BE A MINIMUM OF 3 FT FROM ANY OPENING

COMPRISED OF WELDED CORNERS, METAL

WHERE INDICATED TYPICAL ALL WINDOWS

FP11 VENT DRYER THROUGH WALL. SEE MECHANICAL / PLUMBING PLANS FOR FURTHER INFORMATION

REINFORCEMENT IN THE INTERLOCK AREA, AND

CONSTRUCTED OF MULTIPANE TEMPERED GLAZING

FP1 STUD WALL SIZED PER STRUCTURAL

FP3 LINE OF OVERHANG ABOVE

FP8 CLOSET SHELF AND POLE

FP9 EMERGENCY EGRESS WINDOW

FP10 WINDOW MUST HAVE A FRAME AND SASH

FP4 36" HIGH COUNTER

FP5 WATER HEATER

FP12 MIN. 1 HINGED ENTRY DOOR FOR EGRESS COMPLIANCE REQUIRED - THE EGRESS DOOR SHALL

BE SIDE-HNGED AND SHALL PROVIDE A CLEAR WIDTH

WITH THE DOOR OPEN 90°. THE CLEAR HEIGHT OF THE

OUTWARD.

RESISTANT. CRC R307.2

OPENING OF 32"

DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES

TEMPERED. GLAZING IN THE WALLS/DOORS FACING

OR CONTAINING BATHTUBS, SHOWERS, HOT TUBS,

SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS AND

INDOOR/OUTDOOR SWIMMING POOLS WHERE THE

BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS

THAN 60" ABOVE THE STANDING SURFACE.

FP14 PER SECTION 301.1.1 CALGREEN AND CIVIL CODE 1101.3(c), ALL PLUMBING FIXTURES SHALL BE

COMPLIANT WATER -CONSERVING PLUMBING

FIXTURES. SEE MECHANICAL / PLUMBING PLANS FOR

EXCEPTION: GLAZING THAT IS MORE THAN 60",

MEASURED HORIZONTALLY, FROM THE WATER'S

EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL

OF NOT LESS THAN 32 INCHES WHERE MEASURED

BETWEEN THE FACE OF THE DOOR AND THE STOP,

IN HEIGHT MEASURED FROM THE TOP OF THE

THRESHOLD TO THE BOTTOM OF THE STOP

FP13 SURROUND AROUND THE SHOWER MUST BE

OR SWIMMING POOL.

FURTHER INFORMATION

ROOF KEYNOTES

RP1 LINE OF ROOF OVERHANG

RP3 SUPPORT POST BELOW

RP4 LINE OF WALLS BELOW

RP2 CLASS A ROOFING MATERIAL. SEE GENERAL ROOF NOTE

RP5 ROOF DOWNSPOUT LOCATION TO BE DETERMINED BY SITE SPECIFIC CONDITIONS

RP6 DESIGNATED SOLAR PANEL AREA. PLEASE SEE SOLAR

AREA FOR ENCLOSED RAFTER SPACES. MAX 1/4", MIN

CORROSION-RESISTANT WIRE SCREEN MATERIAL. 1

SF OF VENTING PER 150 SF OF ENCLOSED RAFTER

AREA IN NON-FIRE RATED CONSTRUCTION PLEASE

SEE VENTING CALCULATIONS OF THIS SHEET

RP7 RAFTER VENTS TO MEET REQUIRED VENTILATION

1/16" OPENING SIZE ON VENT SCREEN WITH

READY NOTES ON THIS SHEET

ARE COPYRIGHTED AND ARE SUBJECT TO

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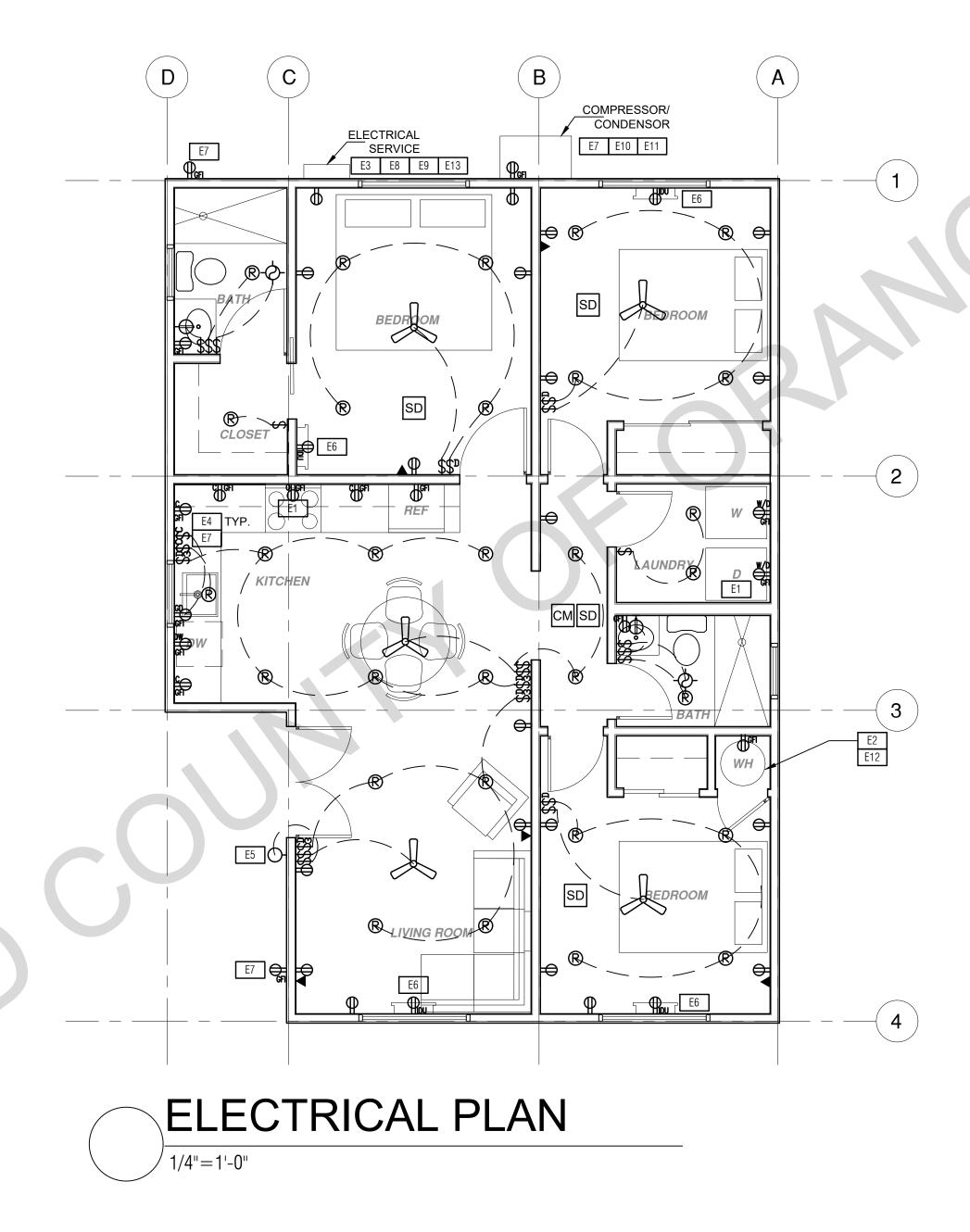
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Electrical Plan 3A

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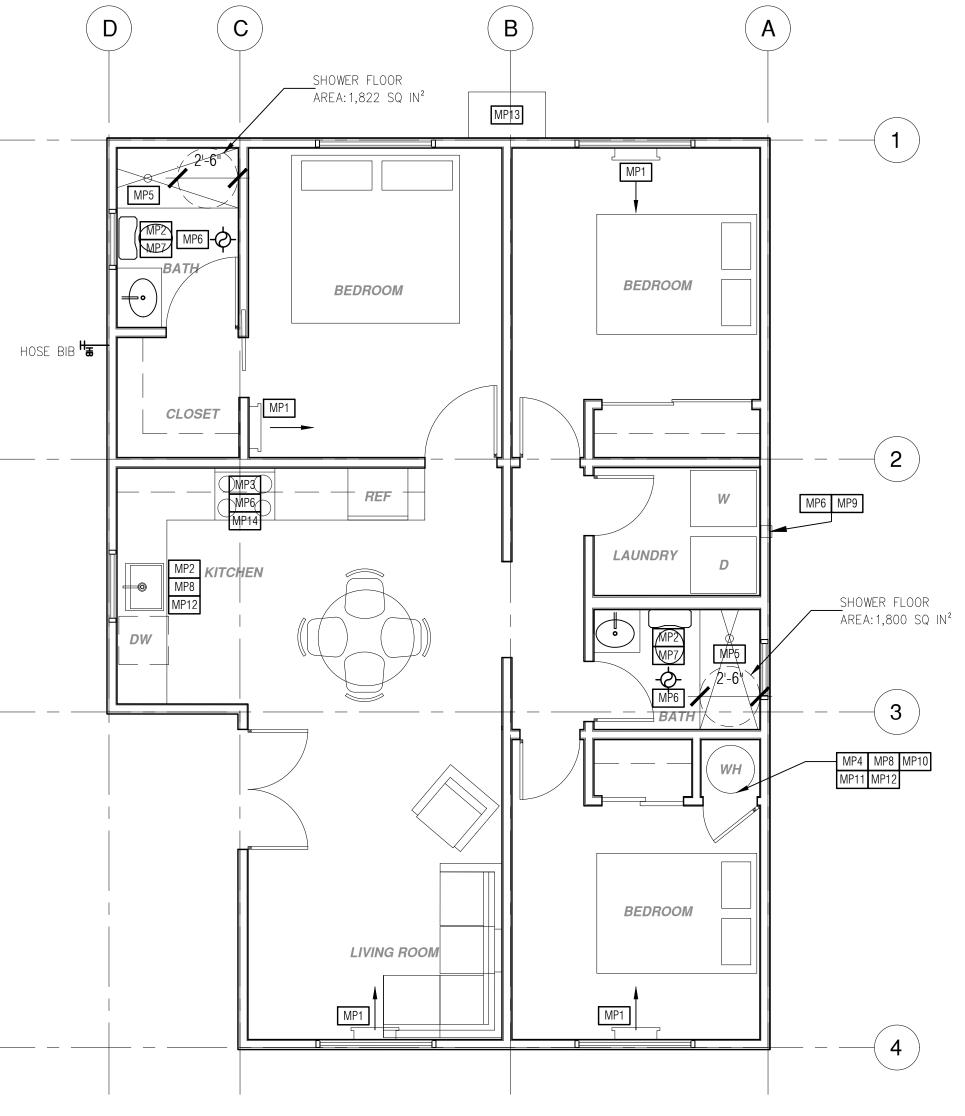
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EFFICACY OR BE CONTROLLED BY A VACANCY SENSOR.

BY VACANCY SENSORS.

*LIGHTING INSTALLED IN GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE HIGH EFFICACY AND BE CONTROLLED



MECHANICAL / PLUMBING PLAN

cfm OR 65% CE AT <750 s.f, 130 cfm OR 55% CE AT 750-1000

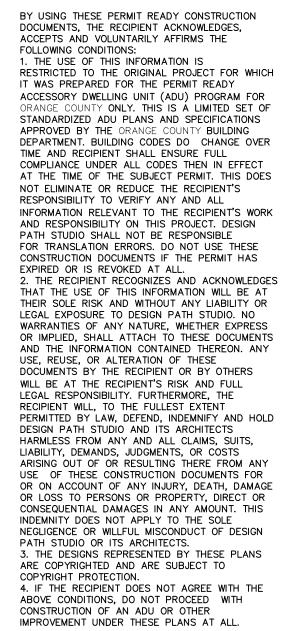
s.f., 110 cfm OR 50% CE AT 1000-1500 s.f., OR 110 cfm OR 50%

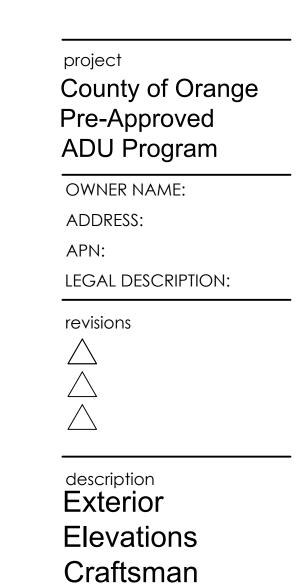
SINK AND THE COLD WATER PIPE WITHIN 5' OF

WATER HEATER BOTH REQUIRE 1" INSULATION

MECHANICAL / PLUMBING KEYNOTES ELECTRICAL KEYNOTES MECHANICAL / PLUMBING LEGEND **ELECTRICAL LEGEND** MP9 DRYER EXHAUST OUTLET FROM DRYER TO EXTERIOR **MECHANICAL** FIRE DETECTION SWITCHING LIGHTING POWER/DATA MP1 INDOOR UNIT MINI SPLIT SYSTEM. E1 DEDICATED 30 AMP/ 240V POWER FOR ELECTRIC E9 SEPARATE GROUND ELECTRODE SYSTEM PER MAX LENGTH 14' WITH MAXIMUM OF TWO 90° MP2 WATER CONSERVING FIXTURES: NEW WATER DRYER OR OVEN. VERIFY REQUIREMENTS WITH SD SMOKE DETECTORS PER SECTION R314 EXHAUST FAN: MINIMUM 50 CFM TO BE DUCTED TO TAMPER RESISTANT RECEPTACLE ELBOWS.EXHAUST VENT MUST TERMINATE A MIN. OF 3' CEILING, RECESSED, DIRECTIONAL, ZERO E10 OUTDOOR CONDENSING UNIT RECEPTACLE APPLIANCE SPECIFICATIONS SWITCH, MOUNT AT 43" AFF CLOSETS SHALL USE NO MORE THAN 1.28 GAL. THE EXTERIOR AND SHALL PROVIDE FIVE AIR DETECTORS SHALL BE PERMANENTLY WIRED WALL MOUNTED, 110 V DUPLEX U.O.N FROM ANY OPENING. MIN. CLEARANCE IC RATED LED BULB THREE-WAY SWITCH OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE OF WATER PER FLUSH, LAVATORIES LIMITED TO TYPE 1 CLOTHES DRYER EXHAUST DUCTS SHALL BE OF E2 OUTLET FOR NEW WATER HEATER WITHIN 3' OF WATER HEATER. CHANGES PER HOUR; SECTION 1203.3. CFM AND WITH BATTERY BACKUP. SOUND AN ALARM CEILING, RECESSED, ZERO CLEARANCE IC LOCATION FOR THE SERVICING OF THE HEATING FOUR-WAY SWITCH 1.2 GPM, KITCHEN FAUCETS NOT TO EXCEED 1.8 NOISE RATING MAXIMUM 3 SONE FOR AUDIBLE IN ALL SLEEPING AREAS. ALARM ELECTRICAL OUTLETS IN KITCHENS SHALL RIGID METAL & SHALL HAVE SMOOTH INTERIOR RATED LED BULB AND COOLING EQUIPMENT AND SHALL BE INTERMITTENT USE. SHALL BE ENERGY STAR RATED GPM AT 60 PSI THEY CAN INCREASE THE FLOW DIMMER SWITCH DEVICES SHALL BE INTERCONNECTED IN SUCH A BE BOTH ACFI AND GFCI. ALL ELECTRICAL SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 E3 MAIN ELECTRICAL SERVICE PANEL FOR ADU TO LOCATED ON THE SAME LEVEL AND WITHIN 25 CEILING, RECESSED, ZERO CLEARANCE IC AND CONTROLLED BY A HUMIDISTAT CAPABLE OF MOMENTARILY BUT CANT EXCEED 2.2GALLONS MANNER THAT THE ACTUATION OF ONE ALARM OUTLETS WITHIN REACH SHALL BE TAMPER \$ MOUNT 6" ABV COUNTER INCHES NOMINAL (100 MM), & THE THICKNESS SHALL BE HAVE A 200AMP MINIMUM BUSBAR RATING PER FEET OF THE EQUIPMENT. THIS RECEPTACLE RATED, WATER RESISTANT, LED BULB PER MIN. AT 60 PSI AND MUST DEFAULT TO A AN ADJUSTMENT BETWEEN 50-80% HUMIDITY. NOT LESS THAN 0.016 OF AN INCH (0.406 MM). EXHAUST WILL ACTIVATE ALL O F THE ALARMS IN THE UNIT. RESISTANCE PER CEC 406.11 MANDATORY MEASURE 110.10(e)1 SEE ELECTRIC SHALL BE GFCI-WP PROTECTED. MAX. FLOW RATE OF 1.8GALLONS PER MIN AT 60 OUTDOOR ELECTRICAL OUTLETS SHALL BE MISC DUCTS & DRYER VENTS SHALL BE EQUIPPED WITH BACK WALL MOUNTED LIGHT READY NOTE (S) ON G0.2 FOR MORE E11 A DISCONNECTING MEANS CAPABLE OF PSI., AND SHOWERS NOT EXCEED 1.8 GPM. AT 80 SHALL COMPLY WITH THE FOLLOWING: GFCI, W.P. AND HAVE BOBBLE COVER PER DUCT SYSTEMS ARE SIZED, DESIGNED AND INFORMATION PSI AND ALL SHALL BE CERTIFIED TO MEET THE DISCONNECTING AIR-CONDITIONING AND AT LEAST 3' FROM THE TIP OF THE BLADE OF JUNCTION BOX FLUSH CEILING MOUNTED CEC406.3. CEILING FAN/LIGHT COMBO MP10 NEW WATER HEATER WITH T&P RELIEF VALVE AND EQUIPMENT IS SELECTED USING THE FOLLOWING PERFORMANCE CRITERIA OF THE EPA REFRIGERATING EQUIPMENT, INCLUDING E4 OUTLET AT COUNTER HEIGHT - SHALL COMPLY A CEILING-MOUNTED FAN GFI = WATER PROOF GFCI ISCHARGE PIPE AT EXTERIOR. PROVIDE COMBUSTION METHODS: UNDER COUNTER LIGHTING WATERSENCE SPECIFICATIONS FOR MOTOR-COMPRESSORS AND CONTROLLERS NOT LESS THAN 3' FROM THE DOOR WITH CEC ARTICLE 210.52(C): IN KITCHENS A CT = COOKTOP/ GRILL 240 V AIR AND CLEARANCES PER MANUFACTURER 1. ESTABLISH HEAT LOSS AND HEAT GAIN VALUES FROM THE CIRCUIT CONDUCTOR IS REQUIRED SHOWERHEADS. CPC SECTIONS 407, 408, 411, 412 OPENING OF A BATHROOM **CIRCUIT WIRING** RECEPTACLE OUTLET SHALL BE INSTALLED AT = OVFN 240 V REQUIREMENTS. ACCORDING TO ANSI/ ACCA 2 MANUAL J-2011 OR LOW VOLTAGE, LANDSCAPE LIGHT AND SECTION 301.1.1 CALGREEN CODE AND CIVIL WITHIN SIGHT FROM THE EQUIPMENT LOCATION AT LEAS 20' FROM A COOKING APPLIANCE EACH COUNTER SPACE 12" OR WIDER; SHALL BE MW = MICROWAVE 110 V FOUIVALENT OR 10' FROM COOKING APPLIANCE WHEN CODE 1101.3(c) PER CEC SECTION 440.11 FLUORESCENT FIXTURE (USE SHALLOW MP11 WATER HEATER SHALL HAVE ISOLATION VALVES ON INSTALLED SO THAT NO POINT ALONG THE WALL GD = GARBAGE DISPOSAL 110 V DOOR BELL SIZE DUCT SYSTEMS ACCORDING TO ANSI/ ACCA I E12 PER CEC 2022 150.0(N).1.A.: THE DESIGNATED MP3 EXHAUST HOOD ABOVE/ TO BE SMOOTH THE ALARM IS AN IONIZING SMOKE ALARM BOTH THE COLD AND THE HOT WATER PIPING LEAVING TYPE WHEN UNDER COUNTER) IS MORE THAN 24"; ISLAND IN PENINSULAR R = RANGF 220VMANUEL D-2014 OR EQUIVALENT. METALLIC INTERIOR SURFACE (CMC 504.3) PER NFPA 72 SECTION 29.8.3.4 ITEM 4 THE WATER HEATER COMPLETE WITH HOSE BIBS OR SPACE AND WATER HEATER AND IS TO COMPLY COUNTERTOPS 12" X 24" LONG (OR GREATER) = COUNTER HEIGHT 6" ABV COUNTER 3. SELECT HEATING AND COOLING EQUIPMENT AT LEAST 3' FROM SUPPLY REGISTERS OF A OTHER FITTINGS ON EACH VALVES FOR FLUSHING THE SHALL HAVE AT LEAST ONCE RECEPTACLE WITH ELECTRICAL NOTES 15&16 ON SHEET G0.2 IDU = INDOOR UNIT POWER 84" AFF MP4 NEW 40 GAL. HEAT PUMP WATER HEATER - TO ACCORDING TO ANSI/ ACCA 3 MANUAL S-2014 OR BATHROOM EXHAUST FAN REQUIREMENTS: PER CGBC 4.506.1-HEATING /COOLING SYSTEM WATER HEATER WHEN THE VALVES ARE CLOSED W/D = WASHER/DRYER E5 OUTDOOR LIGHTING FIXTURES ARE REQUIRED E13 CONTRACTOR TO VERIFY MAIN PANEL HAVE CONDENSATE DRAIN INSTALLED NO EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING: CM CARBON MONOXIDE ALARM PERMANENTLY HIGHER THAN 2' ABOVE THE BASE OF THE 30AMP/ 240AMP MP12 ALL DOMESTIC HOT WATER PIPING TO HAVE THE FOLLOWING MINIMUM INSULATION INSTALLED: TO BE HIGH EFFICACY OR CONTROLLED BY A 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. WIRED WITH BATTERY BACKUP PER SECTION E14 ALL GAS BURNING APPLIANCES SHALL BE HEATER THAT ALSO ALLOWS GRAVITY DRAINAGE PHONE / DATA / MEDIA COMBINATION PHOTOCONTROL / MOTION 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE R315. ALARMS SHALL BE INTERCONNECTED IN LECTRIC READY PLEASE SEE ELECTRIC READY SENSOR. CONTROLLED BY A HUMIDITY CONTROL. A. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT MP5 CONTROL VALVES IN SHOWERS, BATHTUBS, & $\frac{1}{2}$ " PIPE ($\frac{1}{2}$ " INSULATION); CEILING, WATERPROOF OUTLET SUCH A MANNER THAT THE ACTUATION OF ONE NOTES ON G0.2 E6 OUTLET DEDICATED FOR INDOOR HVAC UNIT BETWEEN A RELATIVE HUMIDITY RANGE OF </= 50 % TO A MAXIMUM OF 80 %. A HUMIDITY CONTROL MAY RETURN AIR GRILLE, WALL MOUNTED BIDETS MUST BE PRESSURE BALANCED OR $\frac{3}{4}$ " PIPE (1" INSULATION); FLOOR MOUNTED DUPLEX ALARM WILL ACTIVATE ALL O F THE ALARMS IN THERMOSTATIC MIX VALVES UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT. B. A HUMIDITY CONTROL MAY BE A SEPARATE 1" TO 1-1/2" PIPE (1-1/2" INSULATION) RECEPTACLE, VERIFY LOCATION IN THE UNIT. E7 WEATHER RESISTANT TYPE RECEPTACLES GFCI COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL(I.E. BUILT IN) MP6 MINIMUM OF 3 FT CLEARANCE TO ANY OPENING INTO BUILDING FOR EXHAUST FAN TERMINATIONS

MP13 OUTDOOR CONDENSING UNIT TO BE PIPED TO SUPPLY AIR DIFFUSER, WALL MOUNTED SPECIAL PURPOSE CONNECTION RESIDENTIAL ENERGY LIGHTING REQUIREMENTS: *ALL LIGHT FIXTURES TO BE HIGH INDOOR HVAC UNIT (VOLTAGE SHALL MATCH MP7 CLEARANCE FOR WATER CLOSET TO BE A MIN. E8 OVER-CURRENT FEEDER TO EXTEND TO THERMOSTAT APPLIANCE REQ.) MP14 A MINIMUM RATING HOOD OVER ELECTRICAL RANGE OF 24" IN FRONT, AND 15" FROM ITS CENTER TO LEXISTING PANEL- ALUMINUM CONDUCTOR ES 150.0(K) INDOOR AIR QUALITY FAN IS REQUIRED IN THE KITCHEN ANY SIDE WALL OR OBSTRUCTION. (CPC 402.5) SUB PANEL BURIED UNDER GROUND WITH AWG ALLOWABLE *IN THE KITCHEN, AT LEAST ONE-HALF OF THE WATTAGE RATING OF THE FIXTURES MUST BE HIGH EFFICACY. AND SHALL BE HERS VERIFIED PER CEC TABLE 150.0-G: 160 **VOLTAGE DROP PER CEC 250.4** MP8 THE 1/2" SIZE HOT WATER PIPE TO THE KITCHEN HOSE BIB *IN THE BATHROOMS, AT LEAST ONE FIXTURE SHALL BE HIGH EFFICACY AND ALL REMAINING FIXTURES SHALL BE HIGH



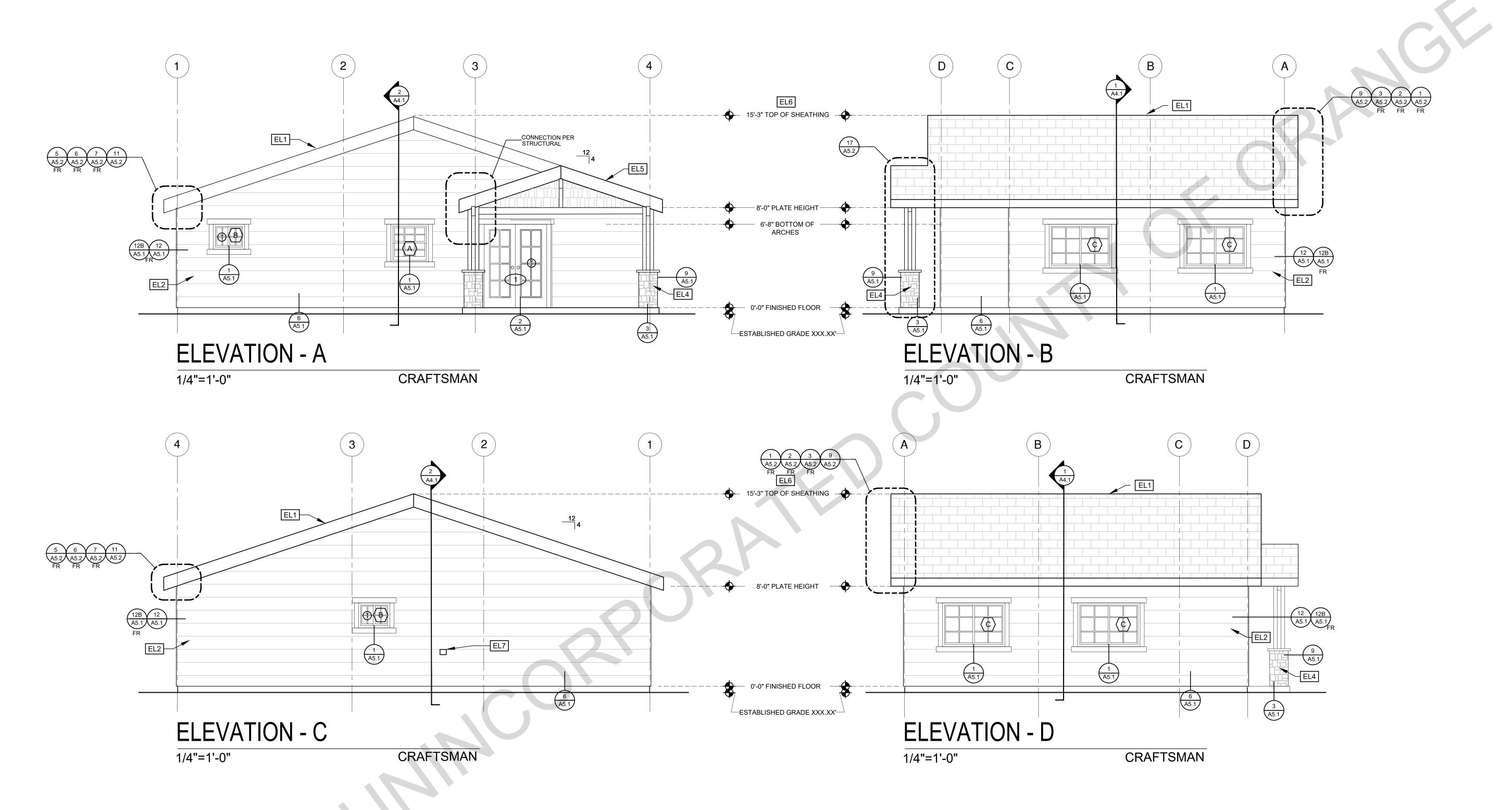




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ELEVATION KEYNOTES	ELEVATION GENERAL NOTES	LEGEND
EL1 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS EL2 SIDING EL3 STUCCO EL4 STONE VENEER EL5 HEIGHT IS MEASURED AT THE BUILDING LINE, FROM THE LOWER OF EXISTING AND PROPOSED GRADES EL6 ORYER VENT TERMINATION (MINIMUM OF 3 FT FROM ANY OPENING)	1. ALL DIMENSIONS TO FINISH FACE, U.N.O. 2. ALL DOORS SHOULD BE 3 12º FROM MEAREST INTERSECTING WALL AT INREGO SIDE, U.N.O. 3. WIGHTEN DIMENSIONS TO PREMISH, O'RES DOWN.D. O'RES DOWN.D. SUID CHARGE SIDE, U.N.O. 3. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT. 4. WIGHTEN DIMENSIONS TO PREMISH, O'RES DOWN.D. O'R	SECTION CUT 1

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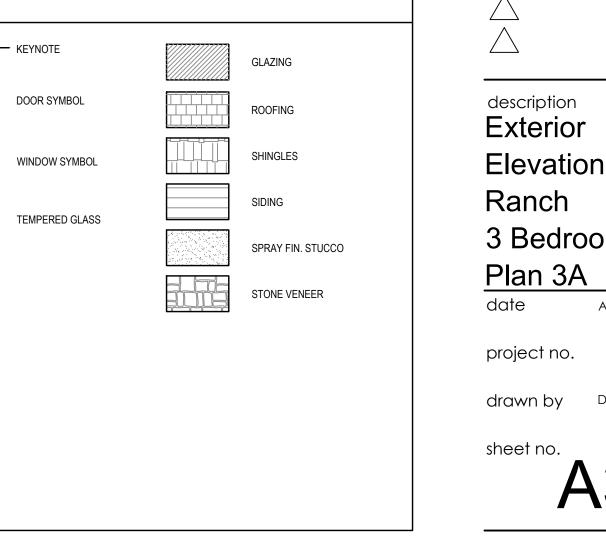
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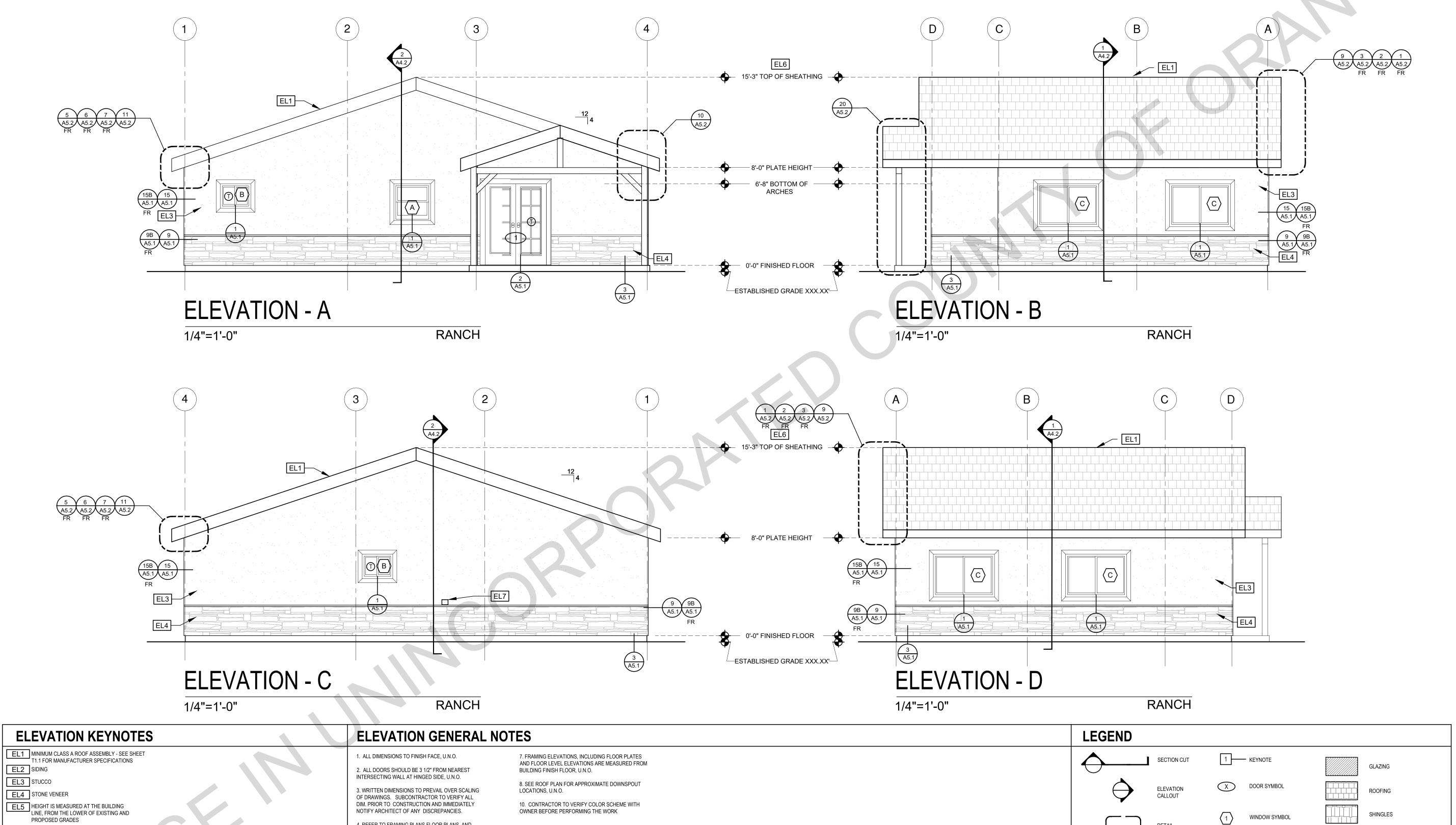
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Elevations 3 Bedroom

April 03, 2024

DESIGN PATH STUDIO





4. REFER TO FRAMING PLANS, FLOOR PLANS, AND

SECTIONS FOR CLARIFICATION AND DIMENSIONS

A. MATERIALS FOR PLASTER IS TO BE THE STANDARD

THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL.

STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE

C. WHERE INDICATED ON THE DRAWINGS, PORTLAND

CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT

WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND PLASTERING CONTRACTORS ASSOCIATION.

B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL JOINTS, EXPANSION SCREEDS AND ACCESSORIES ARE TO BE GALVANIZED.PROVIDE CASING BEADS AT ALL JOINTS OF

PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY

5. SEE SCHEDULE FOR DOOR AND WINDOW

INFORMATION AND HEIGHTS

6. LATH & PLASTER

EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT

FROM ANY OPENING)



OWNER NAME: ADDRESS:

APN:

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SIDING

SPRAY FIN. STUCCO

STONE VENEER

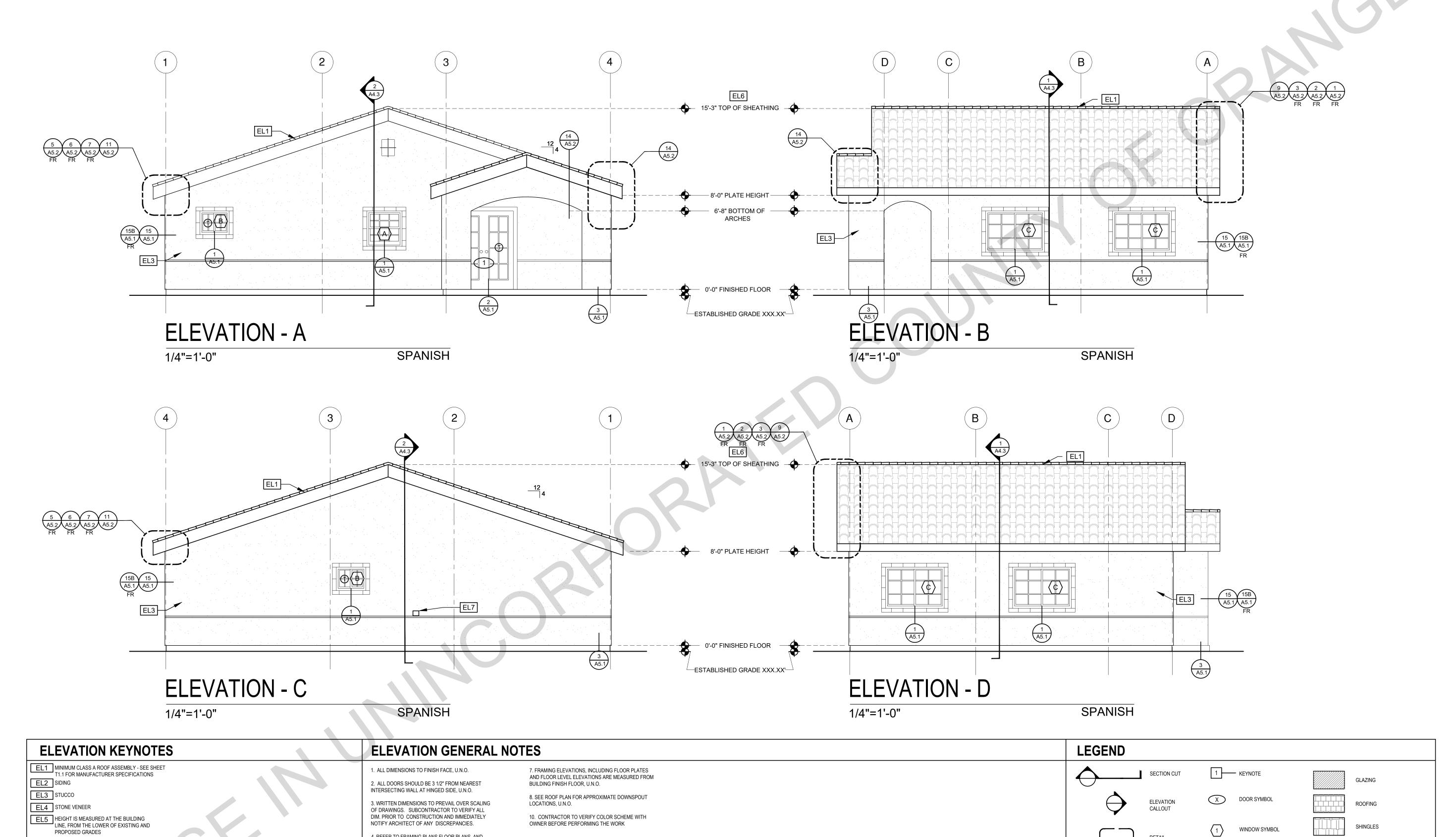
TEMPERED GLASS

description **Exterior** Elevations Spanish 3 Bedroom

Plan 3A April 03, 2024

project no.

DESIGN PATH STUDIO drawn by



4. REFER TO FRAMING PLANS, FLOOR PLANS, AND

SECTIONS FOR CLARIFICATION AND DIMENSIONS

A. MATERIALS FOR PLASTER IS TO BE THE STANDARD

THE LATH AND PLASTER INSTIGAT OR APPROVED EQUAL.

STUCCO TO DISSIMILAR SURFACES UNLESS OTHERWISE

C. WHERE INDICATED ON THE DRAWINGS, PORTLAND

CEMENT PLASTER IS TO BE HAND APPLIED (3) THREE COAT

WORK, 7/8" THICK ON EXTERIOR SURFACES. THE COATS ARE TO CONSIST OF A SCRATCH (3/8" AND A TWO COAT FINISH (1/8" MIN.) COAT PROPORTIONED AND MIXED ADS RECOMMENDED BY THE CALIFORNIA LATHING AND PLASTERING CONTRACTORS ASSOCIATION.

B. ALL PLASTER CORNER BEADS, CASING BEADS, CONTROL JOINTS, EXPANSION SCREEDS AND ACCESSORIES ARE TO BE GALVANIZED.PROVIDE CASING BEADS AT ALL JOINTS OF

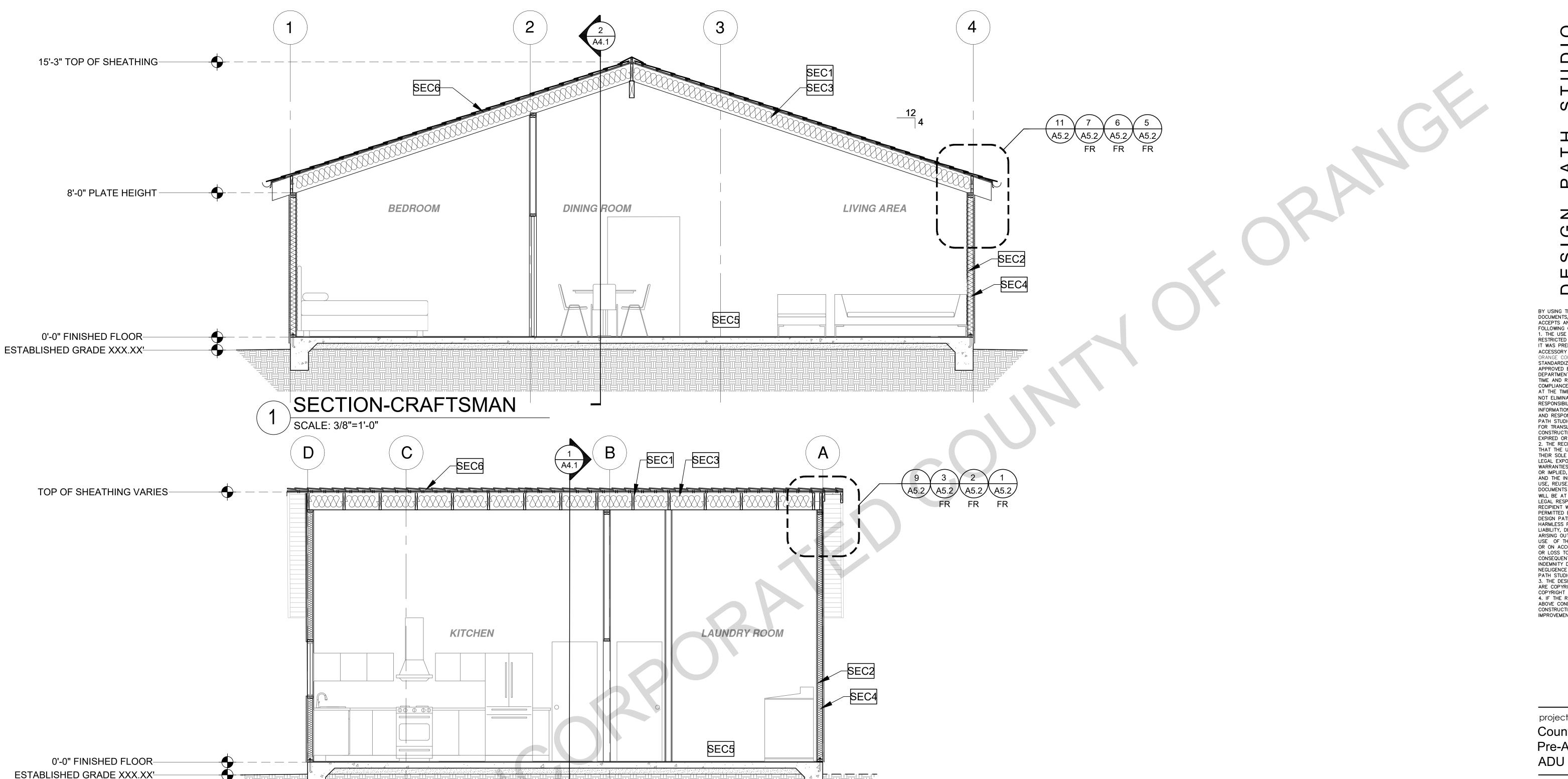
PRODUCTS OF RECOGNIZED MANUFACTURES, AND SHALL BE AS MANUFACTURED BY US GYPSUM CO. AND APPROVED BY

5. SEE SCHEDULE FOR DOOR AND WINDOW

INFORMATION AND HEIGHTS

EL6 DRYER VENT TERMINATION (MINIMUM OF 3 FT

FROM ANY OPENING)



SECTION-CRAFTSMAN SCALE: 3/8"=1'-0"

SECTION GENERAL NOTES SECTION KEYNOTES LEGEND 1. SECTION R302.11.1 - FIREBLOCKING MATERIALS SHALL 9. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND 8. THE PURPOSE OF THESE DRAWINGS IS TO SHOW 3. FRAMER IS TO LAYOUT CEILING JOISTS/ROOF 6. FLASHING AND SHEET METAL SEC1 RAFTERS PER PLAN SEE STRUCTURAL CONSIST OF FOLLOWING MATERIALS: SEE PLANS AND DETAILS FOR LOCATIONS, CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND SECTION CUT ALL FLASHING AND COUNTER FLASHING IS TO BE RAFTERS TO ACCOMMODATE RECESSED LIGHTS 1.TWO-INCH NOMINAL NUMBER SEC2 2X STUDS @ 16" O.C. - SEE STRUCTURAL **COVE CEILINGS** SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, QUANTITY AND CONFIGURATION OF EXHAUST FANS OR OTHER GALVANIZED AND INSTALLED AS PER SMACNA 2.TWO THICKNESS OF ONE-INCH NOMINAL LUMBER WITH MISCELLANEOUS IRON AND STEEL WORK INCLUDING ELECTRICAL/MECHANICAL FIXTURES. ELEVATIONS, DETAILS, & STRUCTURAL PLANS. STANDARDS. ALL PROPOSED FLASHING AND SHEET SEC3 CEILING INSULATION PER TITLE 24 ENERGY CALCULATIONS BROKEN LAP JOINTS *KEYNOTES ONLY APPLY IF REFERNCED ON PLANS 10. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND ASSORTED CLIPS, BRACKETS ANGLES, STRAPS, METAL MATERIALS, GAUGE AND INSTALLATION IS TO 3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL 4. WOOD SOFFIT/CEILING, SIDING & TRIM WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED 1. INSULATION: REFER TO TITLE 24 REPORT FOR POST ANCHORS AND LIKE ITEMS. BE IN ACCORDANCE WITH SMACNA MANUAL **ELEVATION** ALL NAILS, FASTENERS AND HARDWARE MUST BE PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS SEC4 WALL INSULATION PER TITLE 24 ENERGY CALCULATIONS FURNISH AND INSTALL ALL SUCH ITEMS NECESSARY ADDITIONAL RATINGS, REQUIREMENTS, AND STRUCTURAL PANELS STAINLESS STEEL OR HOT-DIPPED GALVANIZED. OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE INFORMATION TO MAKE A COMPLETE 4.THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH STAPLES ARE NOT PERMITTED SHALL NOT BE REQUIRED TO MEET THE ASTM E136 7. IN CONCEALED SPACES BETWEEN STAIR 2. FIRE BLOCKING TO BE LOCATED AT THE FOLLOWING INSTILLATION WHETHER OR NOT SPECIFICALLY SEC5 CONC. SLAB ON GRADE SEE STRUCTURAL JOINTS BACKED BY 0.75-INCH PARTICLE BOARD REQUIREMENTS DETAILED OR NOTED ON THE STRINGERS AT THE TOP AND BOTTOM OF THE RUN. LOCATIONS PER 2019 CRC SECTION R302.11: 5. INSULATION 5.ONE-HALF-INCH GYPSUM BOARD FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE THERMAL INSULATION IS TO BE FOIL BACKED BATT ENCLOSED SPACES UNDER STAIRS SHALL COMPLY SEC6 MINIMUM CLASS A ROOF ASSEMBLY - SEE SHEET T1.1 FOR MANUFACTURER SPECIFICATIONS DRAWINGS. ALL EXTERIOR METAL AND HARDWARE A. SECTION R302.11-6.ONE-FOURTH-INCH CEMENT-BASED MILLBOARD **SECTION R1003.19** INSULATION WITH AN R VALUE NOT LESS SPECIFIED WITH SECTION R302.7. IS TO BE GALVANIZED. STEEL IS TO BE 1. FIREBLOCKING SHALL BE PROVIDED IN FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS 7.BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER DRAWING REF. CONCEALED SPACES OF STUD WALLS AND PARTITIONS, IN THE TITLE 24 ENERGY CALCULATIONS. AT OR OTHER APPROVED MATERIAL INSTALLED IN SUCH A REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION INCLUDING FURRED SPACES AND PARALLEL ROWS OF BATHROOMS, LAUNDRY ROOM , AND MASTER 2. RAFTER VENTS ARE TO BE STAINLESS STEEL MANNER AS TO BE SECURELY RETAINED IN PLACE STUDS OR STAGGERED STUDS, AS FOLLOWS: BED/BATHROOMS INSULATION IS TO ELEVATION MESH AND ARE TO BE SIZED TO MEET REQUIRED 8.CELLULOSE INSULATION INSTALLED AS TESTED IN A. VERTICALLY AT CEILING AND FLOOR VENTILATION TO ENCLOSED RAFTER SPACES. MAX BE PROVIDED WITH SOUND INSULATION, MARKER ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE $\frac{1}{4}$ " MIN $\frac{1}{6}$ " OPENING SIZE ON VENT SCREEN WITH SPECIFIC APPLICATION B. HORIZONTALLY AT INTERVALS NOT CORROSION-RESISTANT WIRE SCREEN MATERIAL **EXCEEDING 10FT**

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County of Orange Pre-Approved ADU Program

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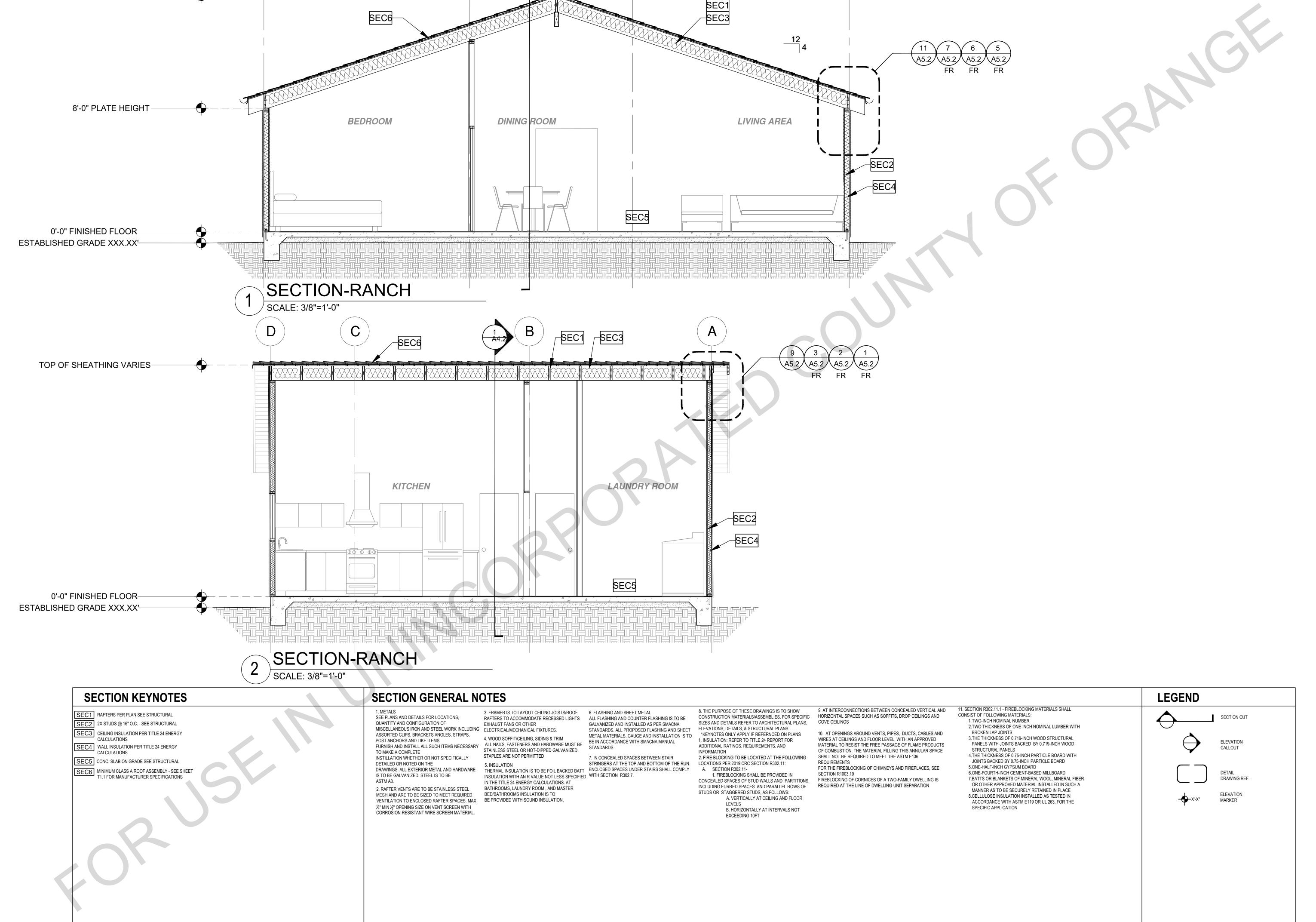
revisions

description

Sections Craftsman 3 Bedroom Plan 3A

April 03, 2024

project no.



15'-3" TOP OF SHEATHING

architecture + planning

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Sections
Ranch
3 Bedroom

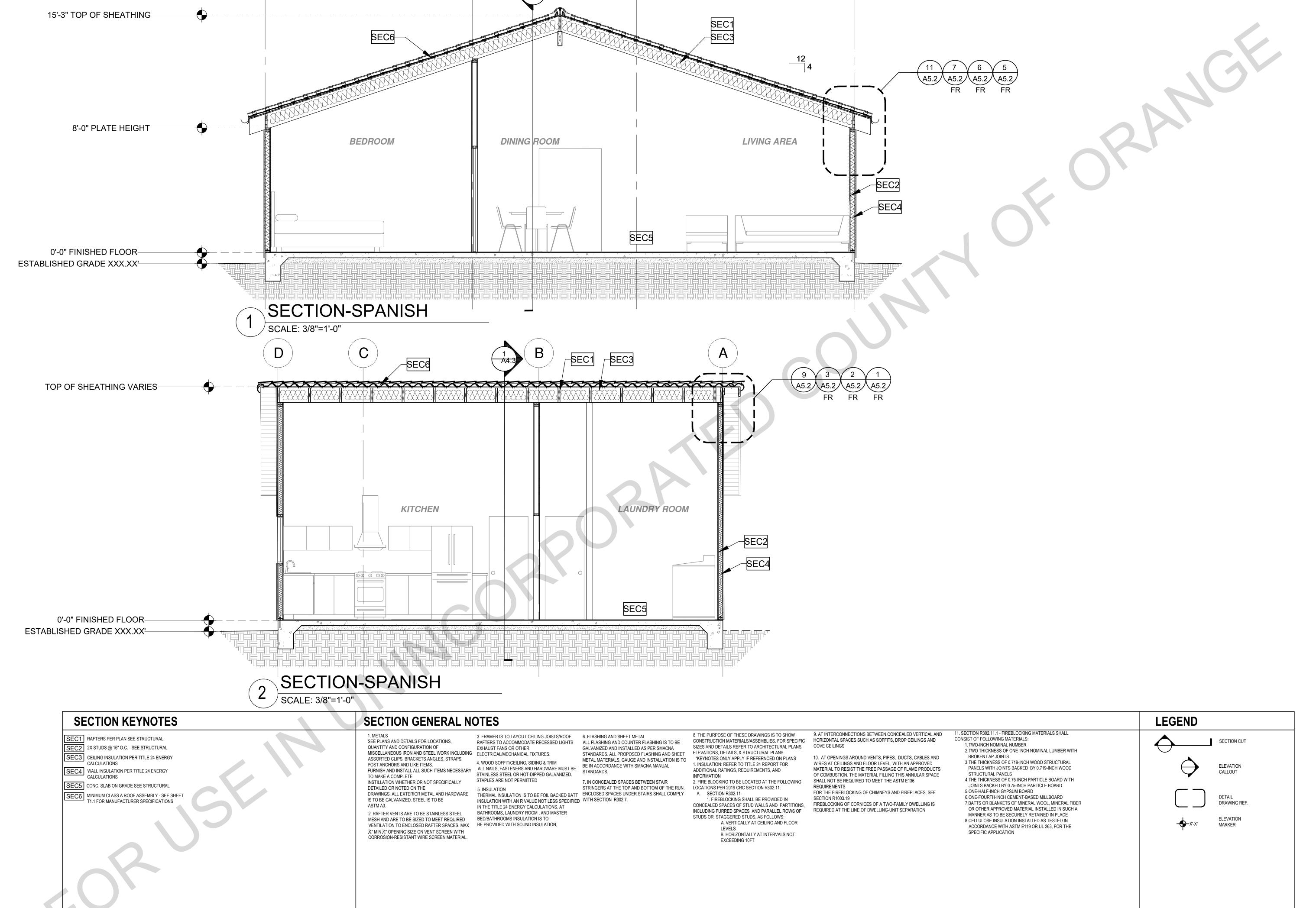
Plan 3A

date April 03, 2024

project no.

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revisions

description
Sections
Spanish

Spanish
3 Bedroom
Plan 3A

date April 03, 2024

project no.

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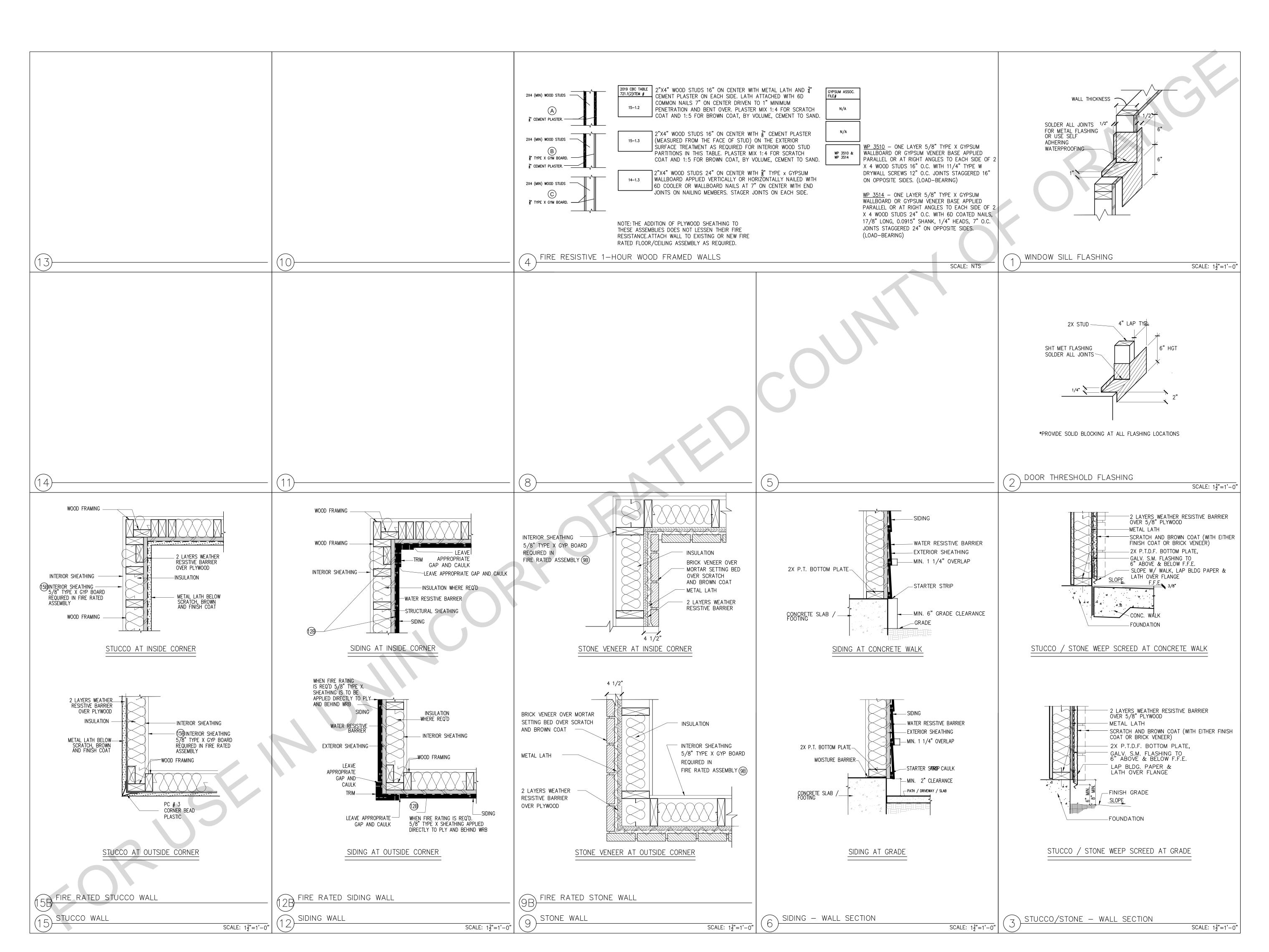
Architectural Wall Details

date April 03, 2024

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sheet no. A5.



OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE

OR LOSS TO PERSONS OR PROPERTY, DIRECT OR

CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS

NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN

3. THE DESIGNS REPRESENTED BY THESE PLANS

4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS. DO NOT PROCEED WITH

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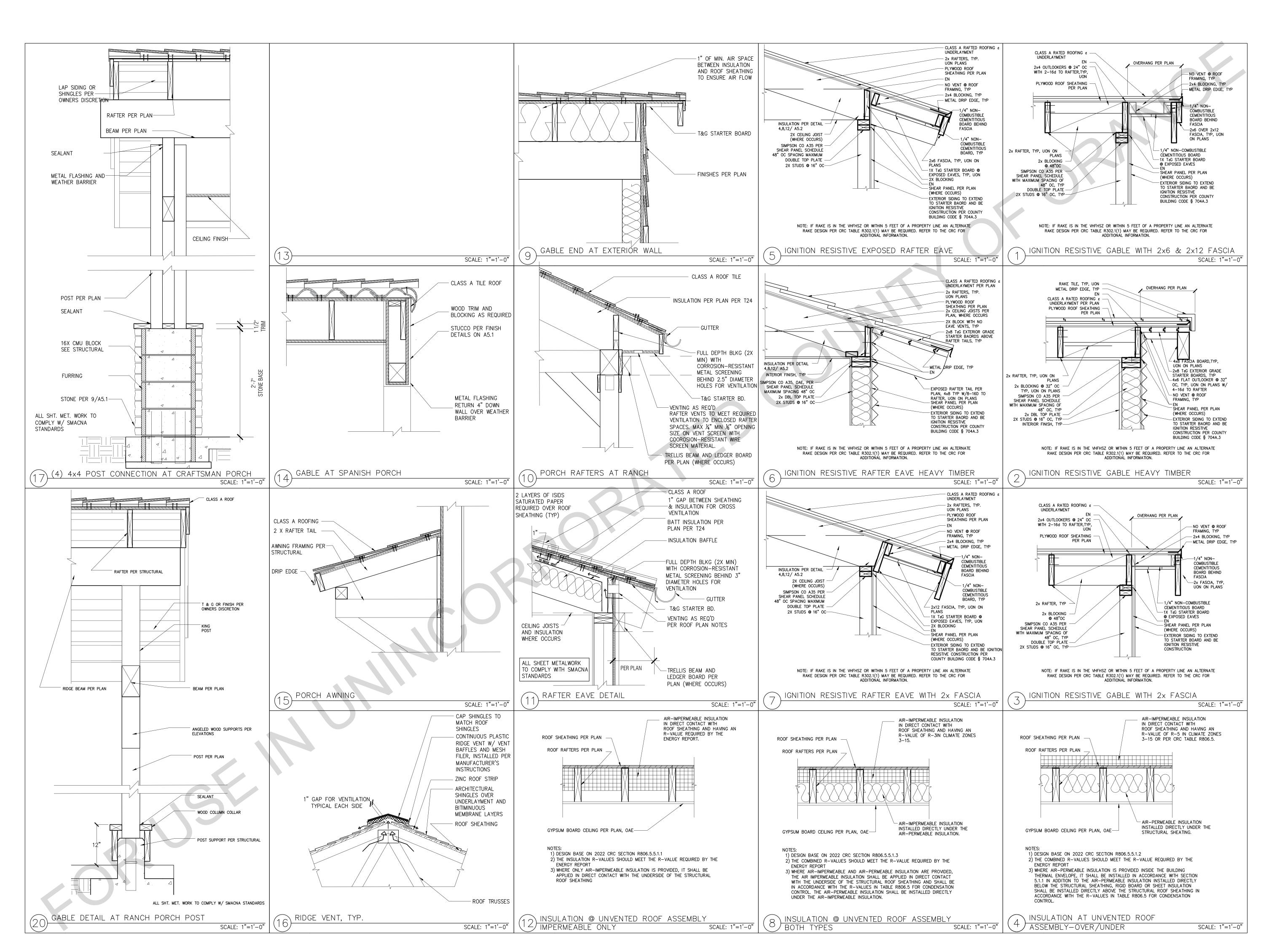
Architectural Roof Finish Details

date April 03, 2024

project no.

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A5.2



0.145 DIA. SHOT PINS SPACED 4 INCHES APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS EVERY 6 FT. ^{215.} WHEN REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, HAVE CONTRACTOR DOCUMENTATION IN WRITING FOR THE FOLLOWING: A) THE PAD WAS PREPARED IN ACCORDANCE WITH THE SITE REQUIREMENTS AND COUNTY OF

B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED & COMPACTED. C) THE FOUNDATION EXCAVATIONS, EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY COMPLIES WITH THE COUNTY OF ORANGE RECOMMENDATIONS.

REPLACEMENT HARDWARE

HTT4

HTT5

LTT20B

LTT20B

⁵ " ALL-THREAD, EPOXY, EMBED 3"

OR $\frac{5}{8}$ " TITEN HD, EMBED 3" MIN.

 $\frac{5}{8}$ " TITEN HD, EMBED 3" MIN.

REPLACEMENT

216. ALL HOLDOWN ANCHORS & HARDWARE MUST BE TIED IN PLACE PRIOR TO CALLING FOR

3. WOOD FRAMING CONSTRUCTION

300. ROOFING MATERIALS SHALL BE PER ARCHITECTURAL DRAWINGS.

301. ROOF SHEATHING SHALL BE $\frac{19}{32}$ " OR $\frac{5}{8}$ " C-D GRADE, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE, OR OSB PANELS. IDENTIFICATION INDEX (24/0) W/ 8D COMMON NAILS @ 6" O/C @ ALL PERIMETER EDGES AND ALL INTERIOR SUPPORTED EDGES AND @ 12" O/C @ ALL INTERMEDIATE SUPPORTS PER AWC NDS. SEE DETAILS FOR SHEAR AND DRAG NAILING.

302. TYPICAL WALL SHEATHING:

INTERIOR SURFACES: WHERE DRYWALL IS SPECIFIED, PROVIDE MIN. 8" GYPSUM WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 7" O/C TO ALL STUDS AND TO TOP & BOTTOM PLATES (UNBLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND AT BOTH SIDES OF ALL INTERIOR WALLS.

EXTERIOR SURFACES: SEE PLANS. WHERE "STUCCO" IS SPECIFIED PROVIDE $\frac{7}{8}$ " EXTERIOR CEMENT PLASTER OVER WIRE LATH OVER TYPE 15 BUILDING PAPER. LATH ATTACHED TO ALL STUDS AND TOP AND BOTTOM PLATES (OR BLOCKING AS OCCURS) W/ 16 GAGE X $\frac{7}{16}$ " STAPLES @ 6" O/C OR NO. 11 GAGE X 1-1/2" FURRING NAILS WHERE INDICATED ON ELEVATIONS.

- 303. STRUCTURAL SHEATHING MAY BE EITHER OSB OR PLYWOOD. ANY NOTES REFERRING TO PLYWOOD ALSO APPLIES TO OSB.
- 304. TOP PLATES SHALL BE DOUBLE 2X W/ WIDTH EQUAL TO STUDS BELOW, W/ (21)16D NAILS MIN. @ MINIMUM 4'-0" LAP SPLICES. USE SIMPSON RPS OR CS16 STRAP EACH SIDE OR ONE SIDE AND TOP WHERE LAP SPLICE IS NOT POSSIBLE. SEE DETAILS FOR NOTCHES, CUT-OUTS AND COMPLETE PLATE BREAKS AT HEATING, VENTING, AND PLUMBING.

WOOD FRAMING CONSTRUCTION (CONT.)

ROOF TO WALL: CONNECT ROOF FRAMING TO TOP PLATE W/ SIMPSON H1 @ 24" O/C OR A35 OR RBC @ 24" O/C OR PER SHEAR TRANSFER DETAILS.

SILL PLATE ANCHORS:

- 306. GROUND FLOOR / SLAB ON GRADE WALLS: PROVIDE 2X (MIN.) PTDF SILL PLATES. SEE CONCRETE FOUNDATION CONSTRUCTION NOTES 206, 207 & 208 FOR ANCHOR BOLTS. AT INTERIOR NON-SHEAR CONDITIONS, 0.145 SHOT PIN ANCHORS @ 32" O/C MAY BE USED TO CONNECT PARTITIONS AND BEARING WALLS TO SLAB.
- 307. ALL WOOD SILL PLATES AND ALL WOOD MEMBERS DIRECTLY AGAINST CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE REDWOOD SILLS OR PTDF SILLS, TREATED WITH SODIUM BORATE (SBX/DOT) WHEN INSTALLED IN A DRY OR ENCLOSED ENVIRONMENT. (SODIUM BORATE TREATMENT DOES NOT REQUIRE CORROSION RESISTANT CONNECTORS.) IF OTHER TREATMENTS ARE USED, SEE NOTE 309.
- 308. FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD: ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER TREATED WITH ACQ-C. ACQ-D. CA-B. AND CBA-A WITHOUT AMMONIA SHALL BE GALVANIZED PER ASTM A153.

ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER TREATED WITH ACQ-C, ACQ-D, CA-B, AND CBA-A WITH AMMONIA SHALL BE TYPE 303, 304, 305, OR 316 STAINLESS STEEL.

WHERE PRESSURE TREATED LUMBER IS INSTALLED IN AN EXTERIOR WET ENVIRONMENT ALL NAILS AND FASTENERS IN CONTACT WITH THE PRESSURE TREATED LUMBER SHALL BE TYPE 303, 304, 305, OR 316 STAINLESS STEEL

- 309. RE-TIGHTEN ALL HOLDOWN ANCHORS JUST PRIOR TO COVERING THE WALL FRAMING.
- 310. ENGINEERED BEAMS ARE AS FOLLOWS: "PSL" REFERS TO PARALLEL STRAND LUMBER (E=2.0, FB=2900). "LSL" REFERS TO LAMINATED STRAND LUMBER (E=1.55, FB=2325) (E=1.3 & FB=1700 AT LSL CONDITIONS WITH D (DEPTH) < 9") "LVL" REFERS TO LAMINATED VENEER LUMBER (E=2.0, FB=2800) "GLB" REFERS TO 24F-1.8E GLU-LAM WITH STANDARD CAMBER, U.N.O. "IJC" ENGINEERED GLU-LAM BEAM MAY BE USED UPON ENGINEER APPROVALS. AN A.I.T.C CERTIFICATE OF COMPLIANCE ISSUED BY A CURRENT ICC APPROVED QUALITY CONTROL AGENCY FOR GLUED LAMINATED WOOD MEMBERS SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

311. LUMBER SPECIFICATIONS: ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH. STUDS, PLATES & BLOCKING: 2X4 FRAMING LUMBER NOT LISTED BELOW STANDARD GRADE OR BETTER 92-1/4". 104-1/4". & 116-1/4" 2X4 STUDS STUD GRADE OR BETTER 2X4 STUDS OVER 10' #2 OR BETTER 2X4 SILLS & PLATES STANDARD OR BETTER 2X6 STUDS, SILLS, & PLATES #2 OR BETTER 4X4 STUDS & POSTS STANDARD OR BETTER OR #1 4X6. 6X6. & LARGER STUDS & POSTS #1 OR BETTER 4X4, 4X6 BEAMS & HEADERS #2 OR BETTER 4X8, 4X10, 4X12, 4X14 BEAMS & HEADERS #1 OR BETTER 6X4 BEAMS & HEADERS #2 OR BETTER 6X6 & LARGER BEAM & HEADERS **#1 OR BETTER** 2X10 AND LARGER RAFTERS AND JOISTS #1 OR BETTER

312. HOLES, CUTOUTS, AND NOTCHES IN FRAMING MEMBERS: BY VIRTUE OF CODE COMPLIANCE WITH ELECTRICAL AND PLUMBING CODES, HOLES AND NOTCHES WILL INEVITABLY BE MADE IN FRAMING MEMBERS. THE CODE RECOGNIZES AND APPROVES VARIOUS HOLES AND NOTCHES WITHOUT ENGINEERING JUSTIFICATION IN CBC SECTION 2308.8.2. ENGINEERED (PSL, LSL) RECTANGULAR LUMBER BEAMS BEHAVE LIKE ANY OTHER RECTANGULAR SHAPE WHEN NOTCHED OR BORED. SO THE ENGINEER OR ARCHITECT MAY SPECIFY LIMITS WITHOUT MANUFACTURER APPROVAL OTHER HOLES AND NOTCHES ARE ALLOWED AS NOTED BELOW:

PSL AND LVL BEAMS: A HOLE 1 INCH IN DIAMETER CAN BE DRILLED ANYWHERE, AND A 2 INCH DIA. HOLE CAN BE DRILLED IN THE MIDDLE THIRD OF THE SPAN IN THE MIDDLE THIRD OF THE DEPTH OF THE BEAM FOR ANY PSL OR LVL BEAM, EXCEPT CANTILEVERED BEAMS AND BEAMS SUPPORTING CONCENTRATED LOADS. HOLES IN THOSE CONDITIONS REQUIRE APPROVAL IN WRITING FROM THE ENGINEER.

PSL AND LVL BEAMS: A RAKE CUT (TAPER) AT THE TOP OF THE BEAM AT THE END OF THE SUPPORT IS ALLOWED IF NOTED ON PLANS, TO A MINIMUM OF 4-3/8" AT INSIDE FACE OF SUPPORT. RAKE CUT (TAPER) THAT RESULTS IN A DEPTH AT THE INSIDE FACE OF THE SUPPORT OF 2/3RDS THE BEAM DEPTH IS ALLOWED AT CONDITIONS NOT SPECIFIED. OTHER TAPERED ENDS AND SQUARE NOTCHES IN TOP OR BOTTOM FACE REQUIRE APPROVAL IN WRITING FROM THE ENGINEER OR ARCHITECT.

SEE STRUCTURAL DETAILS 14 & 15 ON DETAIL SHEETS NOTCHING AND BORING.

- 313. PROVIDE 2X4 TRIMMER & 2X4 KING STUD EACH END OF EACH 4X DROPPED BEAM OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 4X10 OR LARGER. PROVIDE DOUBLE TRIMMERS AT EACH 3-1/2 X 7-1/2 PSL OR LSL OR LARGER.
- 314. PROVIDE 2X6 TRIMMER & 2X6 KING STUD EACH END OF EACH 6X DROPPED BEAM OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 6X8 OR LARGER. PROVIDE DOUBLE TRIMMERS AT EACH 5-1/4 X 7-1/2 PSL OR LSL OR LARGER.
- 315. PROVIDE DOUBLE KING STUDS AT ALL OPENINGS 8'-1" WIDE AND WIDER OR PER PLAN.
- 316. PROVIDE MINIMUM 2-1/4" BEARING @ EACH END OF EACH FLUSH BEAM OR HEADER WHERE BEARING IS ON TOP PLATE. PROVIDE 2X4 STUD WITHIN 3" OF BEARING POINT. PROVIDE (2) 2X STUDS @ 6X OR LSL OR PSL BEAMS.
- 317. ROOF RAFTERS SHALL BE 2X RAFTERS AS NOTED ON STRUCTURAL DRAWINGS
- 318. EAVES SHALL BE PER ARCHITECTURAL PLANS W/ APPLIED TAILS PER ARCHITECTURAL PLANS. OVERHANG DETAILS ARE NOT SHOWN ON STRUCTURAL PLANS.

319. SEE THE ARCHITECTURAL ROOF PLANS FOR ROOF PITCH AND ADDITIONAL INFORMATION. 320. COMBINE AND GROUP PLUMBING VENTS WHENEVER POSSIBLE TO MINIMIZE ROOF PENETRATIONS.

3. WOOD FRAMING CONSTRUCTION (CONT.) 321. WOOD TO WOOD CONNECTORS SHALL BE SIMPSON STRONG TIE OR USP STRUCTURAL CONNECTORS. ALL SPECIFIED CONNECTOR CALL-OUTS ARE SIMPSON CATALOG CALL-OUTS.

USP SUBSTITUTIONS SHALL HAVE A CAPACITY EQUAL TO OR GREATER THAN THE SIMPSON CATALOG VALUES. ANY OTHER ICC APPROVED METAL CONNECTOR MAY BE USED UPON APPROVAL BY THE ENGINEER OR ARCHITECT 322. ICC APPROVED CONNECTORS SHALL BE USED WHERE CONNECTORS ARE SPECIFIED. UNLESS OTHERWISE NOTED, THE FOLLOWING BEAM AND JOIST HANGERS SHALL BE USED:

> BEAM OR JOIST SIMPSON/USP HANGER RAFTERS LU, LUS, LUC, OR HU 1.75 X LSL AND LVL HU, HUS, OR WPU 2.69 X PSL AND LVL HU OR HWU HHUS OR HWU 3.5 X PSL AND LVL HHUS OR HWU 5.25 X PSL AND LVL HHUS OR HWU 7 X PSL AND LVL

AT BEAM HANGER CALLOUTS, IE HGUS OR HU BEAMS, THE CALLOUT IS ABBREVIATED. THE HANGER WIDTH MAY BE OMITTED TO ALLOW FLEXIBILITY IN ORDERING. EXAMPLE: 2.69 PSL THE CALLOUT MAY READ HGUS12. AN HGUS2.75/12 OR HGUS412 (WITH FILLERS) ARE APPLICABLE. WHERE HANGERS OFFER (MIN) OR (MAX), NAIL TO APPLY (MAX) LOADS

 $^{323.}$ Where shearwall $\,\,$ Lengths are specified on the plans, the length shown is a MINIMUM DIMENSION. THE SHEARWALL MAY BE LENGTHENED FOR CONSTRUCTION WOOD PANEL SHEAR (PLYWOOD OR OSB) SHALL BE BLOCKED.

 $^{324.}$ THE FOLLOWING HOLES IN SHEARWALLS ARE ALLOWED: A) APPROXIMATELY SQUARE HOLES NOTCHED, PUNCHED, OR CUT THAT ARE LESS THAN

LESS THAN 64 SQ. INCHES (ONE HOLE PER 4' OF SHEARWALL. C) APPROXIMATELY SQUARE HOLES, LESS THAN 64 SQ. INCHES (ONE HOLE PER 8' OF

D) HOLES INDIVIDUALLY APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD.

ARCHITECT OF RECORD AND ARE REQUIRED EVEN THOUGH THEY MAY NOT BE SHOWN

APA PLYWOOD & OSB--ESR-2586

FULL REPORTS FOUND AT HTTP://WWW.ICC-ES.ORG

TRUS-JOIST TJI JOISTS AND PSL, LSL, & LVL--ICC-ES ESR-1387, 1153 LOUISIANA PACIFIC JOISTS & BEAMS--ESR-1305, 2403 ROSEBURG JOISTS & BEAMS--ESR-1210, 1251 GLU-LAM BEAMS-- ESR-1940 PACIFIC WOOD TECH - ESR 2909

SIMPSON CONNECTORS--ICC-ES ESR #S 1161, 1622, 1866, 2105, 2203, 2236, 2320. 2549, 2551, 2552, 2553, 2330, 2554, 2555, 2604, 2605, 2606, 2607, 2608, 2611, 2613, 2614, 2615, 2616, 2877, 2920, 3046 IAPMO ER-112, 130, 143, 192, 262

USP LUMBER CONNECTORS--ICC-ES ESR #S 1178, 1280, 1575, 1702, 1781, 1881, 1970, 2104, 2685, 1831, 1465, 2761, 2787, IAPMO ER-200 QUICK DRIVE WOOD SCREWS--ICC-ES ESR-1472

403. ADHESIVES & ANCHORS: SIMPSON WEDGE-ALL (WA) WEDGE ANCHORS--ICC-ES ES-1771 SIMPSON TITEN HD--ICC-ESR-1056, 2713

502. ALTERNATE NAILING FOR ROOF SHEATHING: 8D 2 $\frac{1}{2}$ " X 0.135 WIRE BARBED NAILS BY CUTLER OR EQUAL.

503. ALTERNATE NAILING FOR FLOOR SHEATHING: #8 X 2" SELF SETTING WOOD SCREWS, OR 8D $2\frac{1}{2}$ " X 0.135 OR 0.148 SCREW SHANK FLOOR NAILS BY CUTLER OR EQUAL

NAIL SIZES

SIZE OF NAIL	STANDARD LENGTH	WIRE GAUGE	SIZE (INCHES)	PENETRATION REQUIRED
BOX NA	AILS		,	
6D	2"	12	0.099	1"
8D	2 "	11	0.113	1 "
10D	3"	10	0.128	1 "
12D	3"	10	0.128	1 "
16D	3 "	10	0.135	1 "
16D SINK	(ER 3"	9	0.148	1 "
COMM	ON NAIL	S		
6D	2"	11	0.113	1"
8D	2 ¹ / ₂ "	10	0.131	1 "
10D	2½ " 3"	9	0.148	1 1/4 "
12D	3"	9	0.148	1 1 1 "
16D	3 "	8	0.162	1 4 1 ½"

6. NAILING SCHEDULE, MINIMUMS (CBC CHAPTER 23, TABLE 2304.10.2)

BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING, T.N. BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, T.N. BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR TRUSS, E.N. FLAT BLKNG TO TRUSS AND WEB, F.N.

CEILING JOISTS TO TOP PLATE. T.N. CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3.1 CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1 COLLAR TIE TO RAFTER, F.N.

TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT), FACENAIL

RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5 RAFTERS TO RIDGE VALLEY OR HIP; OR FATER TO 2" RIDGE BEAM

BOTTOM PLATE TO JOIST, RIM, OR BLKG, FACENAIL

TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N.

RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER

1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N.

UNBRACED WALL: 16" o.c. FN

UNBRACED WALL: 12" o.c. FN

BRACED WALL: 16"o.c. FN

1" BRACE TO EACH STUD AND PLATE, F.N.

1"x6" SHEATHING TO EACH BEARING, F.N

JOIST TO SILL, TOP PLATE, OR GIRDER, T.N.

1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N.

2" SUBFLOOR TO JOIST OR GIRDER, F.N. or BLIND

ENDNAIL STUD TO STUD (NOT AT BRACED WALL PANELS) STUD TO STUD AT INTERSECTING WALL CORNERS (BRACED WALL) BUILT-UP HEADER (2" TO 2"), FN EA. EDGE

CONT. HEADER TO STUD. T.N.

24" MIN LAP SPLICE EA. SIDE

STUD TO TOP OR BOTTOM PLATE

TOENAIL

ENDNAIL

TOP PLATE TO TOP PLATE

PURPOSES. BUT SHALL NOT BE REDUCED UNLESS OTHERWISE NOTED. ALL ENGINEERED

B) APPROXIMATELY SQUARE HOLES CLEAN CUT OR BORED IN SHEARWALLS THAT ARE

SHEARWALL) WITH ALL EDGES BLOCKED & EDGE NAILED.

325. STUDS SHALL BE SPACED @ 16" O/C MAX. UNLESS OTHERWISE SPECIFIED. USE STUD GRADE EXCEPT AT PLATE HEIGHTS HIGHER THAN 10'-0", THEN USE DF#2 OR BETTER

326. ALL FINISHES, WATERPROOFING, DRAINAGE, AND FIRE-RELATED ELEMENTS ARE BY THE ON THE STRUCTURAL PLANS AND DETAILS.

4. ICC-ES AND NER APPROVALS

400. PLYWOOD AND OSB PANELS:

401. JOISTS AND RAFTERS AND BEAMS: BOISE CASCADE BCI JOISTS, VERSA-LAM, & VERSA-STRAND--ICC-ESR-1040, 1336

402. WOOD CONNECTORS:

SIMPSON EPOXY-TIE HIGH STRENGTH EPOXY (SET-XP)--ICC-ES ESR-1772, 2508. SIMPSON SHOT PINS ICC-ES ESR-2138

HILTI X-DN, X-ZF, X-CF SHOT PINS--ICC-ES ER-1663, 1752, 2269 5. NAILING & FASTENING

500. 16D NAILS AS SHOWN ON THE DETAILS MAY BE COMMON, BOX, OR SINKER NAILS (0.135" MIN. DIA)

501. AS AN ALTERNATE TO THE COMMON AND BOX NAILS SPECIFIED IN THE STRUCTURAL PLANS, THE FOLLOWING "CUTLER" GUN NAILS (OR EQUAL) ARE ACCEPTABLE ALTERNATIVES.

504. SHEAR PANELS WHERE 8D COMMON NAILS ARE SPECIFIED: 10D 2 ½ " X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL

SIZE OF NAIL	STANDARI LENGTH	O WIRE GAUGE	SIZE (INCHES)	PENETRATION REQUIRED	RISK CATEGORY SEISMIC IMPORTANCE FAC	CTOR		II 1 1.872
BOX NA	AILS				S1			0.658
6D 8D 10D 12D 16D 16D SINK	2" 2 " 3" 3" 3 " ER 3"	12 11 10 10 10 9	0.099 0.113 0.128 0.128 0.135 0.148	1" 1" 1 " 1 " 1 "	BASIC SEISMIC FORCE RE METHOD: EQUIVALENT LA CALCULATIONS FOR SD1, 702. WIND DESIGN CRITERIA: WIND SPEED (V-ult)	TERAL FOR	RCE PROCEDUR	RE SEE STRUCTURAL
COMMO	JIAN NC	_S			RISK CATEGORY			
6D 8D 10D 12D 16D	2" 2½ " 3" 3" 3 "	11 10 9 9 8	0.113 0.131 0.148 0.148 0.162	1" 1		psf psf I psf I	OING): ROOF LL PORCH LL TRELLIS LL	C 20 psf 20 psf 10 psf

4-8d Box, 3-8d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples 2-8d Com, 2-3" x 0.131" nails, 2-3" 14 gage staples 2-16d Com, 3-3" x 0.131" nails, 3-3" 14 gage staples

16d Com, 3"x.131" nails, 3"x14 gage staples @ 6" o.c 4-8d box, 3-8d Com, 3-10d box, 3-3"x.131 nails, 3-3" 14 gage staples 3-16d Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 3-16d Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 3-10d Com, 4-10d box, 4-3"x0.131" nails, 4-3" 14 gage staples 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples

> 4-16d box, 3-10d Com, 3-16d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 2-16d Com, 3-16d box, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples 16d Com @ 24" o.c. FN OR 2-10d box, 3" x 0.131" nails, 3-3" 14 gage staples @ 16" o.c. FN 16d Com @ 16" o.c. FN OR 16d Box, 3" x 0.131" nails, 3-3" 14 gage staples @ 12" o.c. FN 16d Com @ 16" o.c OR 16d Box @ 12" o.c.

4-8d Com, 4-10d Box, 5-8d box 16d Com @ 16" o.c. FN OR 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 12 o.c. FN

16d Box, 3" x 0.131" nails, 3" 14 gage staples

8-16d Com. 12-16d Box. 12-10d Box. 12-3" x 0.131" nails. 12-3" 14 gage staples

2-16d Com, 3-16d Box,4-3"x.131" nails,4-3" 14 gage staples 4-8d Box, 4x10d Box, 4-8d Com, 3-16d Box, 4-3"x0.131" nails, 4-3" 14 gage staples 3-16d Box, 2-16d Com, 3-10d Box, 3-3"x0,131" nails, 3-3" 14 gage staples 2-16d Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples

3-8d Box, 2-1.75" 16 Gage staples, 2-8d Com, 2-10d Box 4-8d box, 4-1.75" 16 Gage staples, 3-8d Com, 3-10d Box 4-8d box, 3-8d Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples

3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples

8d Box @ 4" o.c. TN OR 8d Com, 10d Box, 3" x 0.131" nails, 3" 14 gage staples @ 6" o.c. TN 2-1.75" Gage Staples, 2-8d Com, 3-10d Box 3-16d Box, 2-16d Com

2" PLANKS (PLANK & BEAM - FLOOR & ROOF), FACENAIL & EACH BEARING 3-16d Box, 2-16d Com BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS 32" o.c. FN Top & BTTM STAGGERED ON OPPOSITE SIDES

10d Box, 3"x0.131" nails, 3" 14 gage staples 24" o.c. FN Top & BTTM 2-20d Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples ENDS & SPLICES, FN LEDGER SUPPORTING JOISTS/RAFTERS 4-16d Box, 3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES JOIST TO BAND OR RIM JOIST, END NAIL

3-16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END, T.N. 2-8d Com, 2-10d box, 2-3" x 0.131" nails, 2-3" 14 gage staples WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHTNG TO FRMG AND EDGES INTERMEDIATE PARTICI FROARD WALL SHEATHING TO FRAMING (INI) CLIDDODTS (INI)

ARTICLEB	SOARD WALL SHEATHING TO FRAMING	(IN)	SUPPORTS (IN)
	16d Com or deformed; or $2\frac{3}{8}$ "x.113" nail (subfloor aନାd wall)	6	12
	8d Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof)	6 ^e	6 ^e
3" <u>-1</u> "	$1\frac{3}{4}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (subfloor and wall)	4	8
	2 ³ / ₈ " x.113"x.266" head nail (roof)	3 [3,
	$1\frac{3}{4}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (roof)	3 ^T	3 [†]
	8d Com or deformed (subfloor and wall)	6	12
<u>19</u> "- <u>3</u> "	8d Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof) d	6 ^e	6 ^e
	$2\frac{3}{8}$ " x.113"x.266" head nail, 2"16 Gage staple, $\frac{7}{16}$ " crown	4	8
7"-11 <u>1</u> "	10d Com or (3"x0.148"); or deformed (2½ x.131"x.281 head)	6	12
	, , , , , , , , , , , , , , , , , , , ,		12
	ERIOR WALL SHEATHING (FIBERBOARD)		
b 1" 2	$1\frac{1}{2}$ " x0.120", galvanized roofing nail ($\frac{7}{16}$ " head dia) or $1\frac{1}{4}$ " 16 Ga Staple w/ $\frac{7}{16}$ " or 1" crown	3	6
b 25" 32	$1\frac{3}{4}$ " x0.120", galvanized roofing nail ($\frac{7}{16}$ " head dia) or $1\frac{1}{2}$ " 16 Ga Staple w/ $\frac{7}{16}$ " or 1" crown	3	6
OOD STR	UCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		
" & LESS	8d COMMON (2 ½"x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120")	6	12
[']	8d COMMON (2 ½"x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120")	6	12
1 ¹ / ₈ "-1 ¹ / ₄ "	10d COMMON (3"x0.148"); or deformed ($2\frac{1}{2}$ "x0.131"); or deformed ($2\frac{1}{2}$ "x0.120")	6	12
NEL SIDII	NG TO FRAMING		
" & LESS	6d corrosion-resistant siding (1 ⁷ / ₈ "x.106"); or 6d corrosion-resistant (2"x.099")	6	12
<u>5</u> " 8	8d corrosion-resistant siding $(2\frac{3}{8}"x0.128")$; or 8d corrosion-resistant casing $(2\frac{1}{2}"x0.113")$	6	12
TERIOR P	ANELING		
<u>1</u> "	4d casing $(1\frac{1}{2}$ "x0.080"); or 4d finish $(1\frac{1}{2}$ "x0.072")	6	12

1,500 psf

D (Default)

6d casing (2"x0.099"); or 6d finish (2"x.092") - (Panel supports at 24 inches)

700. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE AND 2022 CALIFORNIA

7. DESIGN CRITERIA

RESIDENTIAL CODE.

701. SEISMIC DESIGN CRITERIA:

SOIL BEARING VALUE

SEISMIC DESIGN CATEGORY

SITE CLASS

FOOTNOTES: ils spaced at 6 inches at intermediate supports where spans are ches or more. For nailing of wood structural panel and eboard diaphragms and shear walls, refer to Section 2305. Nails all sheathing are permitted to be common, box or casing. acing shall be 6 inches on center on the edges and 12 inches on r at intermediate supports for nonstructural applications. Panel orts at 16 inches (20 inches if strength axis in the long direction of anel, unless otherwise marked). ere a rafter is fastened to an adjacent parallel ceiling joist in dance with this schedule and the ceiling joist is fastened to the top in accordance with this schedule, the number of toenails in the shall be permitted to be reduced by one nail. RS-01 is a Roof Sheathing Ring Shank nail meeting the fications in ASTM F1667. oulated fastener requirements apply where the ultimate design

speed is less than 140 mph. For wood structural panel roof hing attached to gable-end roof framing and to intermediate orts within 48 inches of roof edges and ridges, nails shall be ed at 4 inches on center where the ultimate design wind speed is er than 130 mph in Exposure B or greater than 110 mph in sure C. Spacing exceeding 6 inches on center at intermediate orts shall be permitted where the fastening is designed per the

stening is only permitted where the ultimate design wind speed is han or equal to 110 mph ils and staples are carbon steel meeting the specifications of I F1667. Connections using nails and staples of other materials,

as stainless steel, shall be designed by acceptable engineering ce or approved under Section 104.11.

8. STATEMENT OF SPECIAL INSPECTIONS revisions 800. RETROFIT ANCHOR BOLTS FOR MISPLACED HOLDOWNS WITH

801. PER CBC 1705.3 SPECIAL INSPECTION IS NOT REQUIRED FOR NON-STRUCTURAL SLABS ON GRADE NOR FOR CONCRETE FOOTINGS THAT SUPPORT 3 STORIES ABOVE GRADE OR LESS.

ALL-THREAD ROD AND SIMPSON SET-XP EPOXY REQUIRE

FOR RETROFIT ANCHOR BOLTS OR TITEN HD's WITHOUT A

SPECIAL INSPECTION. (NO SPECIAL INSPECTION IS REQUIRED

802. PER CBC 1705.11 SPECIAL INSPECTION IS NOT REQUIRED FOR SEISMIC COMPONENTS FOR DETTACHED ONE- AND TWO-FAMILY DWELLINGS NOT EXCEEDING 2 STORIES ABOVE GRADE.

9. SOILS REPORT

HOLDOWN ATTACHED.)

12

A SOILS REPORT IS REQUIRED PER ORANGE COUNTY REQUIREMENTS FOR ALL **NEW STRUCTURE EXEPT:**

I) DETACHED ACCESSORY STRUCTURE OR SINGLE FAMILY DWELLING LARGER THAN 500 SQUARE FEET BUT NOT MORE THAN 1,200 SQUARE FEET LOCATED IN LIQUEFACTION AREA SHALL REQUIRE 4' OVEREXCAVATION. 2) ONE STORY DETACHED ACCESSORY STRUCTURE UP TO 1,200 SQUARE FEET LOCATED IN NON-LIQUEFACTION AREA. ONE STORY DETACHED ACCESSORY STRUCTURE UP TO 500 SQUARE FEET LOCATED IN LIQUEFACTION AREA.

IN-LIEU OF A SOILS REPORT FOR PERMIT READY ADU PROGRAM, A CONSERVATIVE VALUE FOR THE SOIL BEARING ALLOWABLE OF 1500 PSF HAS BEEN USED IN DESIGN OF THE BUILDING

BY USING THESE PERMIT READY CONSTRUCTION

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES,

ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS: . THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR RANGE COUNTY **only. This`is á limited set of** STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT, BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT

NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL. 2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENT AND THE INFORMATION CONTAINED THEREON, ANY USE. REUSE. OR ALTERATION OF THESE WILL BE AT THE RECIPIENT'S RISK AND FULL

RECIPIENT WILL. TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOL DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OF CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION.

4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

County of Orange Pre-Approved

OWNER NAME:

ADDRESS: APN:

ADU Program

LEGAL DESCRIPTION:

description

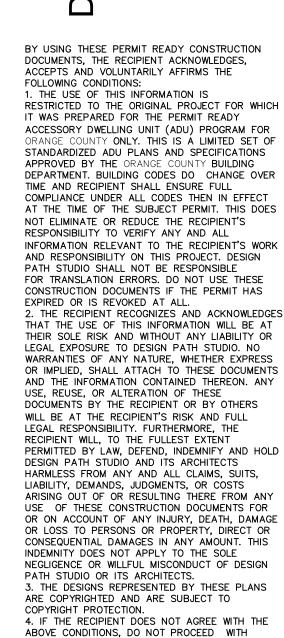
Structural Notes & **Specifications**

date April 03, 2024

project no.

DESIGN PATH STUDIO drawn by

sheet no.

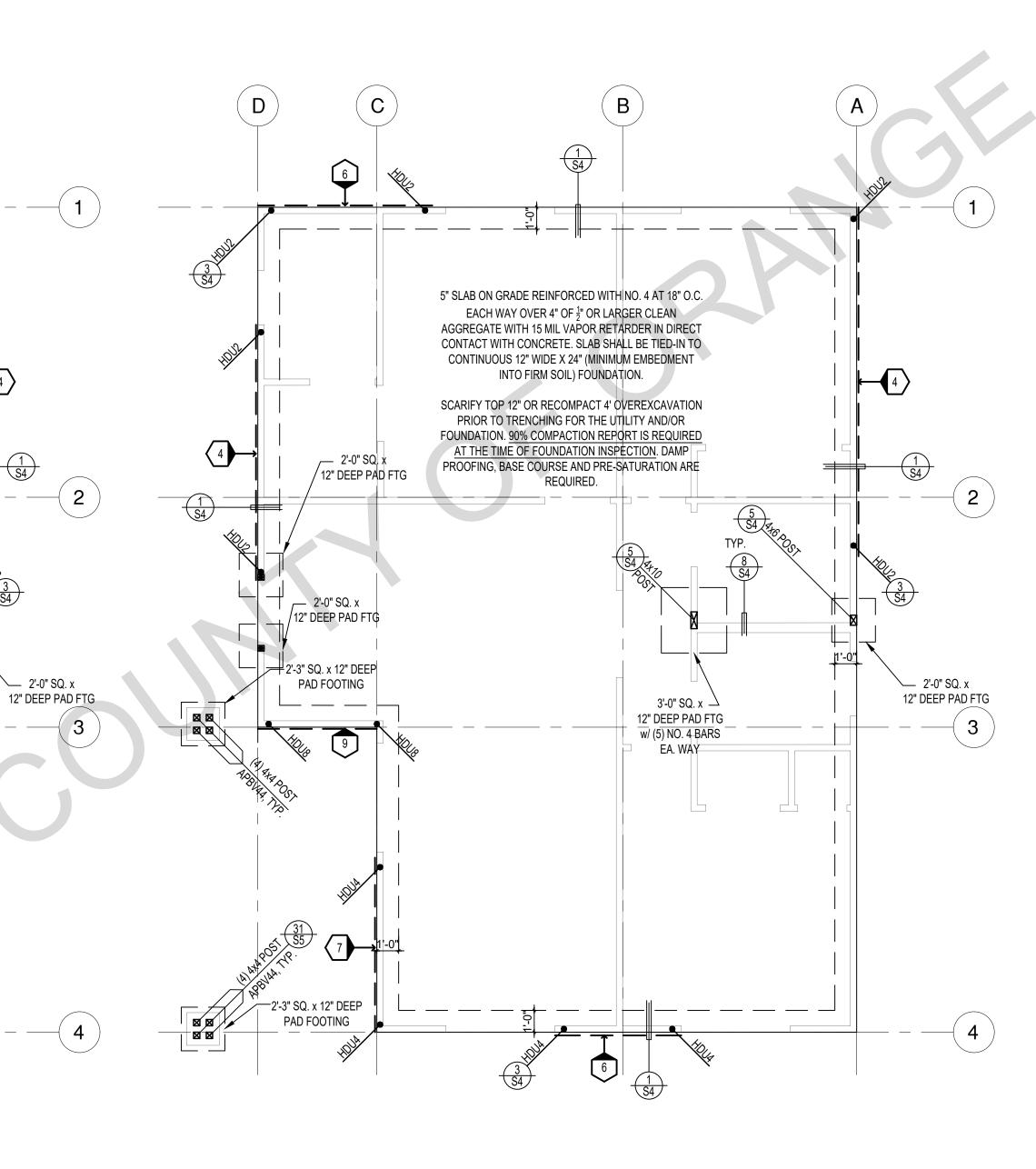


CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

County of Orange

Pre-Approved

ADU Program





5" SLAB ON GRADE REINFORCED WITH NO. 4 AT 18" O.C.

EACH WAY OVER 4" OF ½" OR LARGER CLEAN

AGGREGATE WITH 15 MIL VAPOR RETARDER IN DIRECT

CONTACT WITH CONCRETE. SLAB SHALL BE TIED-IN TO

CONTINUOUS 12" WIDE X 24" (MINIMUM EMBEDMENT

INTO FIRM SOIL) FOUNDATION.

SCARIFY TOP 12" OR RECOMPACT 4' OVEREXCAVATION

PRIOR TO TRENCHING FOR THE UTILITY AND/OR

FOUNDATION. 90% COMPACTION REPORT IS REQUIRED

AT THE TIME OF FOUNDATION INSPECTION. DAMP

PROOFING, BASE COURSE AND PRE-SATURATION ARE

12" DEEP PAD FTG

w/ (5) NO. 4 BARS

EA. WAY

12" DEEP PAD FTG

___ 2'-0" SQ. x

/12" DEEP PAD FTG

FOUNDATION PLAN 1/4"=1'-0" **RANCH**

5" SLAB ON GRADE REINFORCED WITH NO. 4 AT 18" O.C.

EACH WAY OVER 4" OF ½" OR LARGER CLEAN

AGGREGATE WITH 15 MIL VAPOR RETARDER IN DIRECT

CONTACT WITH CONCRETE. SLAB SHALL BE TIED-IN TO

CONTINUOUS 12" WIDE X 24" (MINIMUM EMBEDMENT

INTO FIRM SOIL) FOUNDATION.

SCARIFY TOP 12" OR RECOMPACT 4' OVEREXCAVATION

PRIOR TO TRENCHING FOR THE UTILITY AND/OR

FOUNDATION. 90% COMPACTION REPORT IS REQUIRED

AT THE TIME OF FOUNDATION INSPECTION. DAMP

PROOFING, BASE COURSE AND PRE-SATURATION ARE

3'-0" SQ. x —

12" DEEP PAD FTG

w/ (5) NO. 4 BARS

EA. WAY

12" DEEP PAD FTG

— 2'-0" SQ. x

12" DEEP PAD FTG

12" DEEP PAD FTG

– 2'-0" SQ. x

12" DEEP PAD FTG

/12" DEEP PAD FTG



SHEAR WALL SCHEDULE (ASD VALUES)

ALL ANCHOR BOLTS, HOLDOWN ANCHORS, & REINF. MUST BE SECURELY TIED

THIS WILL REQUIRE A MINIMUM DISTANCE FROM THE ENDS OF SILL PLATES

- IN PLACE PRIOR TO FDTN. INSP.
- ALL EXTERIOR STUDS TO BE 2x4 @ 16" O.C. THE MINIMUM NOMINAL ANCHORBOLT DIAMETER SHALL BE 1/2 INCH NOTE:
- TO BE 4" (AND A MAXIMUM OF 12") PLATE WASHERS (MINIMUM SIZE OF 3" x 3" x 1/4") SHALL BE USED ON EACH
- 5. PROVIDE CONC SLAB JOINTS AT NO MORE THAN 15 FT EA. WAY 6. SEE SHT S3 FOR TYP. CONCRETE & SLAB DETAILS 1-8
- . POSTS W/O SPECIFIED BASE SHALL BE NAILED TO BOLTED SILL PLATES W/ (2)
- FOOTINGS ADJACENT TO SLOPES GREATER THAN OR EQUAL TO 33.3% SHALL
- COMPLY WITH SETBACK REQUIREMENTS DEFINED IN CBC 1808.7. BOTTOM OF THE FOOTINGS SHALL BE CERTIFIED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCEMENT BARS

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnote 3)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 41/2" o/c edge, 12" o/c field, blocked (See footnote 3)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	3/8" rated STRUCT 1 panel, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	15/ ₃₂ " rated STRUCT 1 panel, (1) side w/ 10d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)	15/32" rated STRUCT 1 panel, (1) side w/ 10d @ 2" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)
SHEAR VALUE (PLF)	260*	350*	490*	550*	665*	870*
ANCHOR BOLT SPACING	½" @ 48" or ½" @ 32"	½" @ 32" or ½" @ 24"	½" @ 24" or ½" @ 16"	½" @ 24" or ½" @ 16"	½" @ 16" or ½" @ 24"	½" @ 12" or ½" @ 8"
16d (0.148") SILL NAILING	6"	4½"	3½"	3"	1/4"x41/2" SDS screws @ 8"	½"x4½" SDS screws @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	32" O.C.	18" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

BOLT TYPE HOLDOWN BEARING OR EXTENT OF RAFTERS - — HANGER TO BEAM/LEDGER BEARING OR EXTENT

SHEAR WALL FOOTNOTES

- (1) AT PLYWOOD OR OSB PS-1 OR PS-2 RATED PANELS USE COMMON NAILS OR GALVANIZED BOX NAILS (2) LAYERS OF PAPER EXTERIOR PLYWOOD REQUIRED. SHEARSHALL BE APPLIED OVER STUDS @ 16" O/C. GALVANIZED NAILS SHALL NOT BE HOT-DIPPED OR TUMBLED.
- (2) SILL PLATES & WASHERS SHALL COMPLY WITH THE CONCRETE FOUNDATION CONSTRUCTION AND WOOD FRAMING CONSTRUCTION NOTES. (SEE NOTES #206, 208, 209. 307, 308, 309, ETC.)
- (3) IN PLYWOOD SHEARWALLS, THE EDGE OF THE 3" SQUARE WASHERS (SEE NOTE #206) SHALL BE ½" OR LESS FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE SHEATHING. ALL NAILING SHALL BE 38" MIN. FROM THE EDGE OF SHEATHING.
- (4) WHERE ALLOWABLE SHEAR VALUES EXCEED 350 PLF (SHEARWALL TYPES 6, 7, 8, & 9) ALL FRAMING RECEIVING NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN A SINGLE 3" NOMINAL MEMBER OR (2) 2X MEMBERS NAILED WITH 10D, SPACING EQUAL TO THE E.N. SPACING. PLYWOOD JOINT AND SILL NAILING SHALL BE STAGGERED.
- (5) IN SHEARWALL TYPES 8 & 9, SILL PLATE NAILING SHALL BE STAGGERED. AT SECOND FLOOR CONDITIONS, PROVIDE ADEQUATE RIM OR BLOCKING TO PREVENT SPLITTING.
- (*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.

OWNER NAME: ADDRESS: APN: LEGAL DESCRIPTION: revisions

LEGEND

PER SCHEDULE

SHEARWALL & A.B. SPACING

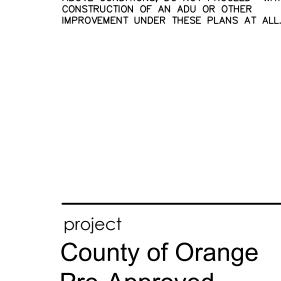
description 3 Bedroom Plan 3A Foundation Plan

April 03, 2024

project no.

3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO

4. IF THE RECIPIENT DOES NOT AGREE WITH THE



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Pre-Approved ADU Program

OWNER NAME: ADDRESS:

CRAFTSMAN

LEGEND

PER SCHEDULE

BOLT TYPE HOLDOWN

BEARING OR EXTENT

----- HANGER TO BEAM/LEDGER

BEARING OR EXTENT

OF RAFTERS

APN: LEGAL DESCRIPTION:

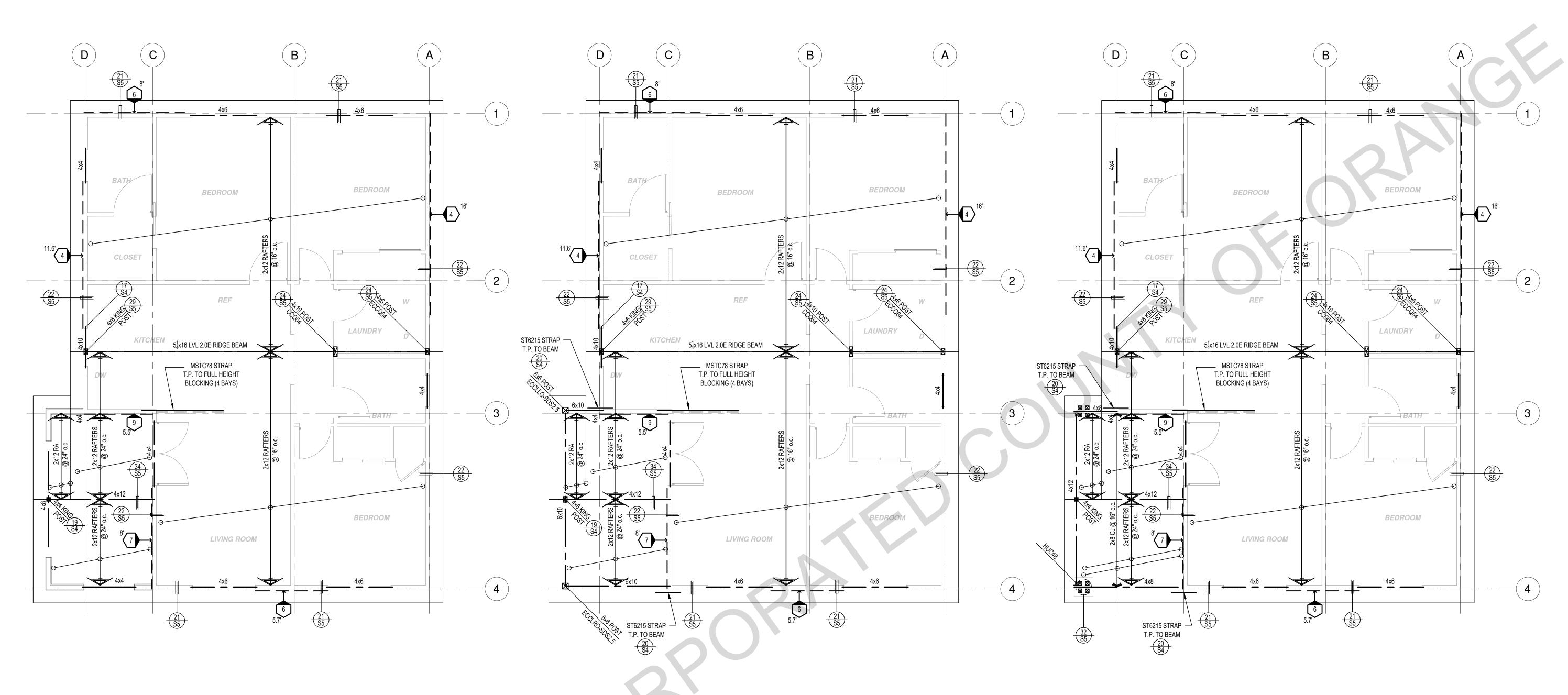
revisions

description 3 Bedroom Plan 3A Framing Plan

date April 03, 2024

project no.

DESIGN PATH STUDIO drawn by



ROOF FRAMING PLAN SPANISH 1/4"=1'-0"

ROOF FRAMING PLAN

ROOF FRAMING PLAN 1/4"=1'-0" **RANCH**

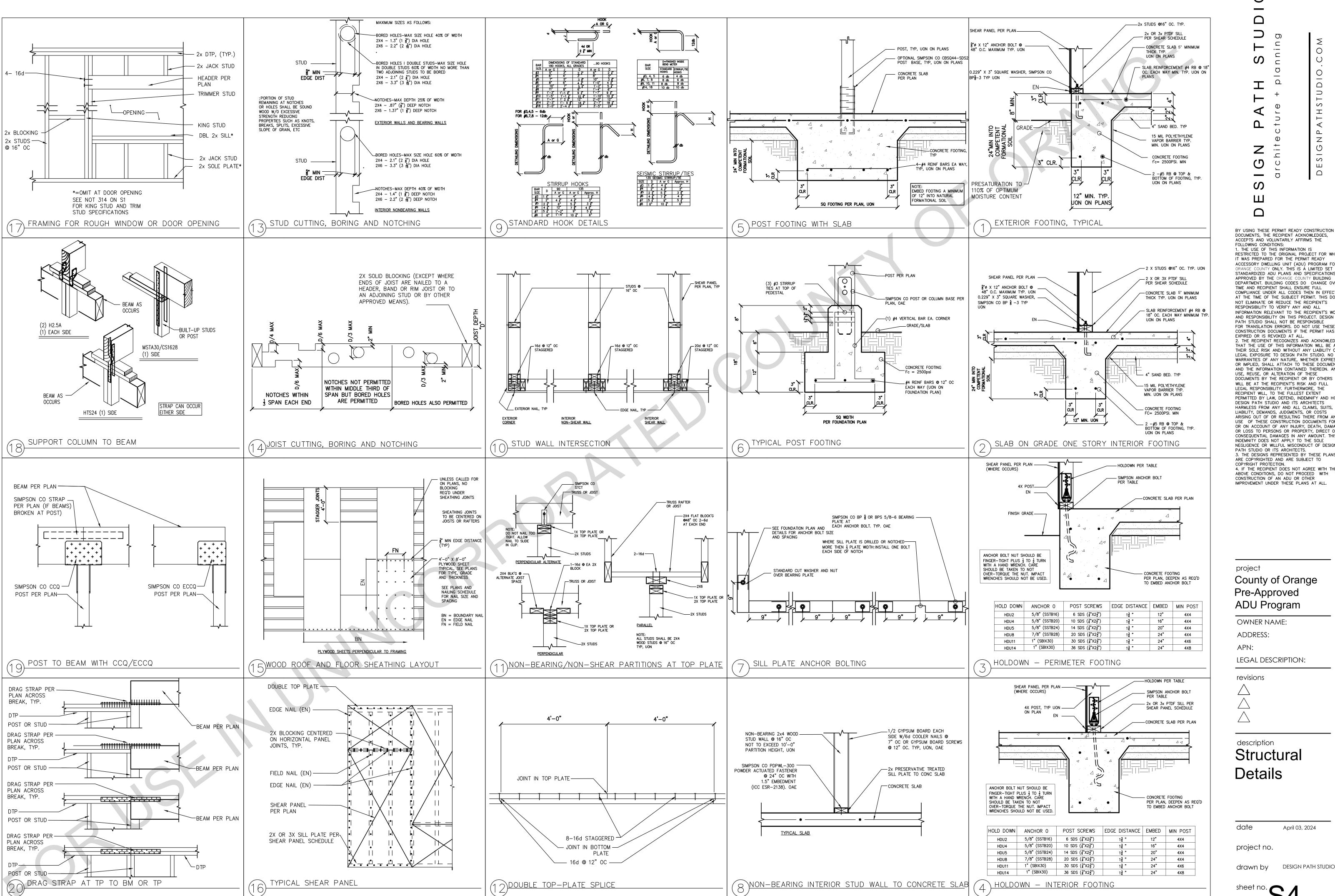
1/4"=1'-0"

SHEAR WALL SCHEDULE (ASD VALUES)

	4	5	6	7	8	9
SHEARWALL DESCRIPTION (See footnotes 1& 4)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 6" o/c edge, 12" o/c field, blocked (See footnote 3)	$^{3}_{8}$ " ply. C-D or C-C sheathing, (1) side w/ 8d @ $^{4}_{2}$ " o/c edge, 12" o/c field, blocked (See footnote 3)	3/8" ply. C-D or C-C sheathing, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	3/8" rated STRUCT 1 panel, (1) side w/ 8d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3 & 4)	15/32" rated STRUCT 1 panel, (1) side w/ 10d @ 3" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)	15/32" rated STRUCT 1 panel, (1) side w/ 10d @ 2" o/c edge, 12" o/c field 3x abutting panel studs blocked (See footnote 3, 4, & 5)
SHEAR VALUE (PLF)	260*	350*	490*	550*	665*	870*
ANCHOR BOLT SPACING	½" @ 48" or ½" @ 32"	½" @ 32" or ½" @ 24"	⅓" @ 24" or ½" @ 16"	½" @ 24" or ½" @ 16"	½" @ 16" or ½" @ 24"	½" @ 12" or ½" @ 8"
16d (0.148") SILL NAILING	6"	4½"	3½"	3"	1/4"x41/2" SDS screws @ 8"	1/4"x41/2" SDS screws @ 8"
SPACING OF A35/LTP4 FRAMING TO TOP PLATE	32" O.C.	18" O.C.	12" O.C.	12" O.C.	8" O.C.	8" O.C.

SHEAR WALL FOOTNOTES

- (5) IN SHEARWALL TYPES 8 & 9, SILL PLATE NAILING SHALL BE STAGGERED. AT SECOND FLOOR CONDITIONS, PROVIDE ADEQUATE RIM OR BLOCKING TO PREVENT SPLITTING.
- (*) ALLOWABLE SHEAR VALUES FOR PLYWOOD SHEARWALLS MAY BE INCREASED BY 40% UNDER WIND LOADING.



Z ___

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS: 1. THE USE OF THIS INFORMATION IS RESTRICTED TO THE ORIGINAL PROJECT FOR WHICH IT WAS PREPARED FOR THE PERMIT READY ACCESSORY DWELLING UNIT (ADU) PROGRAM FOR ORANGE COUNTY ONLY. THIS IS A LIMITED SET OF STANDARDIZED ADU PLANS AND SPECIFICATIONS APPROVED BY THE ORANGE COUNTY BUILDING DEPARTMENT. BUILDING CODES DO CHANGE OVER TIME AND RECIPIENT SHALL ENSURE FULL COMPLIANCE UNDER ALL CODES THEN IN EFFECT AT THE TIME OF THE SUBJECT PERMIT. THIS DOES NOT ELIMINATE OR REDUCE THE RECIPIENT'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION RELEVANT TO THE RECIPIENT'S WORK AND RESPONSIBILITY ON THIS PROJECT. DESIGN PATH STUDIO SHALL NOT BE RESPONSIBLE FOR TRANSLATION ERRORS. DO NOT USE THESE CONSTRUCTION DOCUMENTS IF THE PERMIT HAS EXPIRED OR IS REVOKED AT ALL. 2. THE RECIPIENT RECOGNIZES AND ACKNOWLEDGES THAT THE USE OF THIS INFORMATION WILL BE AT THEIR SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL EXPOSURE TO DESIGN PATH STUDIO. NO WARRANTIES OF ANY NATURE, WHETHER EXPRESS OR IMPLIED, SHALL ATTACH TO THESE DOCUMENTS AND THE INFORMATION CONTAINED THEREON. ANY USE, REUSE, OR ALTERATION OF THESE DOCUMENTS BY THE RECIPIENT OR BY OTHERS WILL BE AT THE RECIPIENT'S RISK AND FULL LEGAL RESPONSIBILITY. FURTHERMORE, THE RECIPIENT WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, DEFEND, INDEMNIFY AND HOLD DESIGN PATH STUDIO AND ITS ARCHITECTS HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

project County of Orange Pre-Approved **ADU Program**

OWNER NAME: **ADDRESS:**

LEGAL DESCRIPTION:

revisions

description Structural Details

April 03, 2024

project no.

DOCUMENTS, THE RECIPIENT ACKNOWLEDGES, ACCEPTS AND VOLUNTARILY AFFIRMS THE FOLLOWING CONDITIONS: THE USE OF THIS INFORMATION IS
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project County of Orange Pre-Approved **ADU Program**

OWNER NAME: ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

description Structural Details

April 03, 2024

project no.

CF1R-PRF-01E

(Page 2 of 12)

Total² EDR

(EDR2total)

1.2

1.3

0.5

Compliance Margins

Efficiency¹ EDR

(EDR2efficiency)

2.4

2.5

0.9

HERS Provider: CalCERTS inc.

Report Generated: 2024-03-11 11:08:38

CF1R-PRF-01E

(Page 5 of 12)

Margin Percentage

3.55

10.38

9.84

3.79

10.93

3.13

9.15

Calculation Date/Time: 2024-03-11T11:07:43-07:00

(EDR1)

0.4

0.7

0.3

Input File Name: 3 Bedroom A.ribd22x

(EDR2total)

28.3

27.1

27.3

27.8

Registration Date/Time: 2024-03-11 11:24:53

Calculation Date/Time: 2024-03-11T11:07:43-07:00

0.75

0.76

Input File Name: 3 Bedroom A.ribd22x

Report Version: 2022.0.000

Standard Design (kBtu/ft² - yr) Proposed Design (kBtu/ft² - yr) Compliance Margin (kBtu/ft² - yr)

20.35

6.65

Schema Version: rev 20220901

Proposed Design

RESULT³: PASS

Energy Design Ratings

Efficiency¹ EDR

(EDR2efficiency)

39.9

37.5

37.4

37.9

IMPROVEMENT UNDER THESE PLANS AT ALL.

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

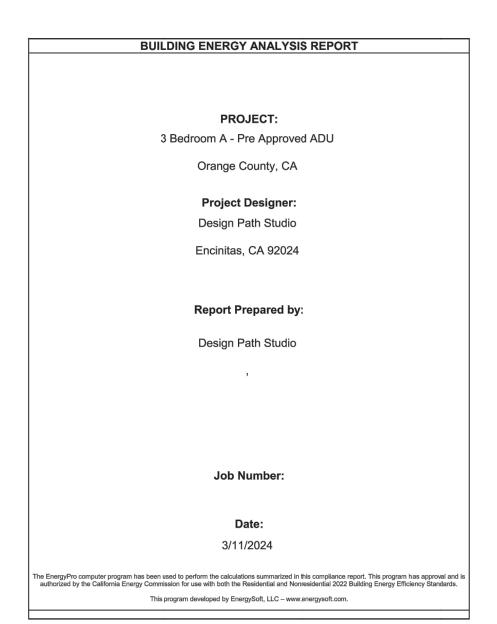
description Example Energy Calculations

date

project no.

drawn by DESIGN PATH STUDIO

April 03, 2024



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2024-03-11T11:07:43-07:00 Project Name: Residential Building (Page 3 of 12) Calculation Description: Title 24 Analysis Input File Name: 3 Bedroom A.ribd22x

ENERGY USE SUMMARY	<u> </u>	Ţ				
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	0.03	0.22	0.91	6.71	-0.88	-6.49
Space Cooling	1.23	27.94	0.77	22.83	0.46	5.11
IAQ Ventilation	0.47	4.94	0.47	4.94	0	0
Water Heating	2.05	21.72	1.56	17	0.49	4.72
Self Utilization/Flexibility Credit	A			0		0
North Facing Efficiency Compliance Total	3.78	54.82	53.71	51.48	0.07	3.34
Space Heating	0.03	0.22	0.74	5.41	-0.71	-5.19
Space Cooling	1.23	27.94 73 5	P R 0.82 V I I	D E 124.05	0.41	3.89
IAQ Ventilation	0.47	4.94	0.47	4.94	0	0
Water Heating	2.05	21.72	1.56	16.95	0.49	4.77
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	3.78	54.82	3.59	51.35	0.19	3.47

Registration Number: 224-P010031301A-000-000-0000000-0000	Registration Date/Time: 2024-03-11 11:24:53	HERS Provider: CalCERTS inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2024-03-11 11:08:38

CERTIFICATE OF	ERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD									С	F1R-PRF-01E
Project Name: Re	esidential Building			Calculation Date/Time: 2024-03-11T11:07:43-07:00					00		Page 6 of 12)
Calculation Description: Title 24 Analysis Input File Name: 3 Bedroom A.ribd22x											
REQUIRED PV SYST	ГЕМЅ										
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 (%)

REQUIRED PV SYS	TEMS										
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 (%)
2.4	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
REQUIRED SPECIAL FEATURES											

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS	S 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						
deta	il is provided in the building tables bel <mark>ow,</mark> Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry						
•	Quality insulation installation (QII)						
•	Indoor air quality ventilation						
•	Kitchen range hood Novified Patricovers Character						
•	Verified Refrigerant Charge						

:	Airflow in habitable room Verified heat pump rated Wall-mounted thermosta	heating o	capacity s greater than 150 ft2 (
Ŀ	Ductless indoor units loca	tea entir	ely in conditioned space	ce (SC3.1.4.1.8)				
BU	JILDING - FEATURES INFORMA	ATION						
	01		02	03	04	05	06	07
	Project Name	Conditi	anad Floor Area (ft ²)	Number of Dwelling	Number of Redrooms	Number of Zones	Number of Ventilation	Number of Water

Registration Number:	224-P010031301A-000-000-0000000-0000	Registration Date/Time:	2024-03-11 11:24:53	HERS Provider:	CalCERTS inc.

Project Name: Residential Building			Calcul	ation Date/Time: 2024-03-11T11:07:43-0	7:00 (Page 1 of 12			
Calculation Description: Title 24 Analysis			Input	File Name: 3 Bedroom A.ribd22x				
GENERAL INFO	ORMATION							
01	Project Name	Residential Building	dential Building					
02	Run Title	Title 24 Analysis		:				
03	Project Location	_						
04	City	Orange	05	Standards Version	2022			
06	Zip code		07	Software Version	EnergyPro 9.2			
08	Climate Zone	8	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	3			
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 (ft²)	972	19	Glazing Percentage (%)	12.76%			
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a			
22	Fuel Type	Natural gas	23	No Dwelling Unit:	No			
	RESULTS							

Registration Number:	224-P010031301A-000-000-000000-0000	Registration Date/Time:	2024-03-11 11:24:53	HERS Provider:	CalCERTS inc.	
CA Building Energy Effici	iency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220		Report Generated:	: 2024-03-11	11:08:38

03 This building incorporates one or more Special Features shown below

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residen			Calculation Date/Time	(Page 4 of 12)				
Calculation Description ENERGY USE SUMMARY	n: Title 24 Analysis		Input File Name: 3 Bedroom A.ribd22x					
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 (EDR:		
Space Heating	0.03	0.22	0.57	4.2	-0.54	-3.98		
Space Cooling	1.23	27.94	0.89	26.07	0.34	1.87		
IAQ Ventilation	0.47	4.94	0.47	4.94	0	0		
Water Heating	2.05	21.72	1.55	16.91	0.5	4.81		
Self Utilization/Flexibility Credit	A			0		0		
South Facing Efficiency Compliance Total	3.78	54.82	3.48	52.12	0.3	2.7		
Space Heating	0.03	0.22	0.75	5.57	-0.72	-5.35		
Space Cooling	1.23	H 27.94 R S	P R 0.95	26.07	0.28	1.87		
IAQ Ventilation	0.47	4.94	0.47	4.94	0	0		
Water Heating	2.05	21.72	1.56	16.96	0.49	4.76		
Self Utilization/Flexibility Credit				0		0		

Registration Number: 224-P010031301A-000-00000000-0000	Registration Date/Time: 2024-03-11 11:24:53	HERS Provider: CalCERTS inc.
CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2024-03-11 11:08:3

3.73

53.54

54.82

CERTIFICATE OF	COMPLIANC	E - RESIDENTIAL F	PERFORMAN	CE COM	IPLIANCE	VETHOD									CF1R-PRF-01I
Project Name: R	Residential Bu	ilding					Calcula	ation Dat	e/Time	: 2024	-03-11T1	1:07:43-07:00			(Page 7 of 12
Calculation Des	cription: Title	24 Analysis					Input I	ile Name	: 3 Bed	room	A.ribd22x	(
ZONE INFORMAT	ION						-								
01		02		03			04			05		06			07
Zone Nam	ie	Zone Type	HVAC	System N	Name	Zone Flo	or Area (f	t ²)	Avg. Ce	iling H	eight	Water Heating	System 1		Status
Zone 1		Conditioned	Duct	ess Minis	split1	972 8 DHW Sys 1						1		New	
OPAQUE SURFAC	ES				1										
01		02	03			04		05			06		07		08
Name		Zone	Constr	uction		Azimuth	ď	rientation	١	Gross	s Area (ft ²)		and Door (ft2)		Tilt (deg)
Front Wall		Zone 1	R-15	Wall		0		Front	4		419		47		90
Left Wall		Zone 1	R-15	Wall	Vall		90 Le		22		220		6		90
Rear Wall		Zone 1	R-15	Wall		180		Back		419			5		90
Right Wall		Zone 1	R-15	Wall		270		Right 220		220	36		<u> </u>	90	
OPAQUE SURFAC	ES - CATHEDRA	L CEILINGS					K								
01	02	03	04		05		06	0	7		08	09	10	1	11
Name	Zone	Construction	Azimut	h	Orientation	Are	a (ft²)	Skyligh (ft		Roo	f Rise (x in 12)	Roof Reflectance	Roof Emi	ittance	Cool Roof
Roof	Zone 1	R-30 Roof No Attic	0		Front	Š	72	()		4	0.1	0.8	5	No
FENESTRATION /	GLAZING														
01	02	03	04	05	06	07	08	09	10	0	11	12	13		14
Name	Туре	Surface	Orientation	Azimut	th Widt	h Height (ft)	Mult.	Area (ft ²)	U-fa	ctor	U-facto Source	i shac	SHGC So	urce	Exterior Shading
Window	Window	Front Wall	Front	0			1	5	0.	3	NFRC	0.23	NFRC	:	Bug Screen
Door	Window	Front Wall	Front	0			1	33	0.	3	NFRC	0.23	NFRC		Bug Screen
Window 2	Window	Front Wall	Front	0			1	9	0.	3	NFRC	0.23	NFRC	:	Bug Screen

m	ber: 224-P0	010031301A-000-000-	-0000000-0000		Registra	tion Date,	/Time:	2024-03-11 11	:24:53	HERS Prov	rider:	CalCERTS	inc.	
rg	gy Efficiency St	andards - 2022 Res	sidential Comp	liance			022.0.000 rev 20220			Report Ge	nerated	l: 2024-03-	11 11:08:38	3

		rtal (including PV) / To															
Registration Num		I-P010031301A-000-000 Standards - 2022 Re:		liance			/ersion: i	e/Time: 2022.0.000 : rev 20220)	4-03-11 11	:24:53		RS Provi	der: CalCERTS nerated: 2024-03			
Project Name: R	esidential	-	PERFORMAN	ICE COMPLI	ANCE ME	THOD	Calcula	ation Date	e/Tim	ne: 2024	-03-11T1:	1:07:43-07	:00		CF1R-PRF-01E (Page 8 of 12)		
Calculation Desc		tle 24 Analysis					Input F	ile Name	: 3 B	edroom	A.ribd22x						
FENESTRATION / 0	GLAZING 02	03	04	05	06	07	08	09		10	11	12	. 1	13	14		
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-	factor	U-facto Source	r SH		SHGC Source	14 Exterior Shading		
Window 3	Window	Left Wall	Left	90	 		1	18		0.3	NFRC	0.2	13	NFRC	Bug Screen		
Window 4	Window	Left Wall	Left	90			1	18		0.3	NFRC	0.2	!3	NFRC	Bug Screen		
Window 5	Window	Rear Wall	Back	180			1	5		0.3	NFRC	0.2	!3	NFRC	Bug Screen		
Window 6	Window	Right Wall	Right	270			1	18		0.3	NFRC	0.2	!3	NFRC	Bug Screen		
Window 7	Window	Right Wall	Right	270			1	18		0.3	NFRC	0.2	!3	NFRC	Bug Screen		
SLAB FLOORS					'												
01		02	03		04			05			06		0	7	08		
Name		Zone	Area (ft²		Perimeter			Insul. R-va	lue		Insul. R-va			Fraction	Heated		
Slab-on-Grade		Zone 1	972	HE	Ros	P	R	none					80	1%	No		
OPAQUE SURFACE	CONSTRUC	CTIONS	+														
01		02	03			04		05		-)6	07		08			
Construction N	lame	Surface Type	Construction	п Туре	Fra	aming		Total Cav R-value		Cont	/ Exterior nuous alue	U-factor		Assembly	Layers		
R-15 Wall		Exterior Walls	Wood Frame	ed Wall	2x4 @ :	16 in. O. 0	<u>.</u>	R-15		None	/ None	0.095	Cavity / Frame: F		Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco		: R-15 / 2x4

SLAB FLOORS								
01	02	03	04	05	06		07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-va and Depth		arpeted Fraction	Heated
Slab-on-Grade	Zone 1	972 H	ERG P	R none VI	DER		80%	No
OPAQUE SURFACE CONS	TRUCTIONS	+	-					
01	02	03	04	05	06	07		08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assen	nbly Layers
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Cavity / Fr	h: Gypsum Boa ame: R-15 / 2x

Registration Number:	224-P010031301A-000-000-0000000-0000	1	Regi
CA Building Energy Effici	ency Standards - 2022 Residential Compliance	1	Repo

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

38.2

37.8

37.2

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment

³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries

37.5

37.9

Standard Design PV Capacity: 2.40 kWdc
Proposed PV Capacity Scaling: North (2.40 kWdc) East (2.40 kWdc) South (2.40 kWdc) West (2.40 kWdc)

Project Name: Residential Building Calculation Description: Title 24 Analysis

Standard Design

North Facing

East Facing

South Facing

West Facing

Registration Number: 224-P010031301A-000-000-0000000-0000

Project Name: Residential Building

Gross EUI¹

Net EUI²

Gross EUI¹

Gross EUI¹

Net EUI²

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

ENERGY USE INTENSITY

North Facing

South Facing

West Facing

1.28

0.05

Calculation Description: Title 24 Analysis

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

21.1

7.32

7.32

ENERGY DESIGN RATINGS

Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2024-03-11 11:08:38

Registration Numb Report Version: 2022.0.000 Report Generated: 2024-03-11 11:08:38 CA Building Energy Schema Version: rev 20220901

CF1R-PRF-01E

(Page 11 of 12)

Running

Certified Indoor Fan not

Fan Continuously

non-continuous

80

HERS Verification

Yes

HERS Provider: CalCERTS inc.

Report Generated: 2024-03-11 11:08:38

Airflow per

RA3.3 and

SC3.3.3.4.1

Calculation Date/Time: 2024-03-11T11:07:43-07:00

Conditioned

07

Includes Fault

Indicator Display?

Space

Input File Name: 3 Bedroom A.ribd22x

Air Filter Sizing

Drop Rating

IAQ Recovery

Effectiveness -

SRE/ASRE

__n/a / n/a__

Registration Date/Time: 2024-03-11 11:24:53

Report Version: 2022.0.000

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.

Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a)

Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.

Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.

a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.

Space Conditioning, Water Heating, and Plumbing System:

Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.

§ 110.2(a): HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.

Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary 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, and

Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces

§ 150.0(e)3: Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *

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.*

Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from

Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs. Bureau of Househol

Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values 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 specifie on the CF1R.

Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consur

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 U-0.184. Celling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to

prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration

Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.

Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alo State Logs instruction. Sale steps instruction indicates the control of the contr Vapor Retarder, In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class

§ 1500(d).

Vapor Retarder. In climate zones 14 and 16, a Class I or 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.

Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must haw

Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebo 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.

the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. *

Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a

setback thermostat.*

Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.

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

6 150.0(k)1H: elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.

150.0(k)2A: Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.

§ 150.0(k)2B: Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *

Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned

§ 150.0(k)2C: Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9

Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8

Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not requir to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet

on and off. *

Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installe

Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specific

Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire Automatic Studion Controls. In bearhouris, glarges, laundy froms, dum Jorons and warn-closets, at least one installed luminate must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.

Dimmers. Lighting in habitable spaces (e.g., living rooms, dlining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED ligi sources in these spaces must comply with NEMA SSL 7A.

Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.

Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and mee

applicable requirements may be used to meet these requirements.

Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5

watts of power.

Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).

Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with

access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160

Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.

Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.

Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for each solar solar

Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system. Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must b provided to the occupant.

Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.

Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the

\$110.10(b)1A: square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be

Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north

located on the roof or overhang of the building and have a total area no less than 250 square feet.

roof dead load and roof live load must be clearly indicated on the construction documents.

Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with

specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.

Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).

Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.*

Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be

Schema Version: rev 20220901

& amp; Pressure

OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE

OR LOSS TO PERSONS OR PROPERTY DIRECT OR

CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE

NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN

3. THE DESIGNS REPRESENTED BY THESE PLANS

4. IF THE RECIPIENT DOES NOT AGREE WITH THE

ARE COPYRIGHTED AND ARE SUBJECT TO

PATH STUDIO OR ITS ARCHITECTS.

COPYRIGHT PROTECTION.

description Example Energy

April 03, 2024

ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL.

County of Orange Pre-Approved **ADU Program**

OWNER NAME:

ADDRESS:

APN:

LEGAL DESCRIPTION:

revisions

Calculations

project no.

drawn by DESIGN PATH STUDIO

Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double policircuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Certified

Low-Static

VCHP System

0.35

Airflow to

Habitable

Ductless Units

in Conditioned

04

IAQ Fan Type

Exhaust

Space

Heat/Energy

Recovery?

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION

02

Airflow (CFM)

Registration Number: 224-P010031301A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Building Envelope:

Goods and Services (BHGS).

Fireplaces, Decorative Gas Appliances, and Gas Log:

linen closet is closed.

to comply with § 150.0(k).

5/6/22

150.0(k)2A:

§ 150.0(k)4:

§ 110.10(b)3B: hor

Masonry walls must meet Tables 150.1-A or B. *

Project Name: Residential Building

Heat Pump System 1

INDOOR AIR QUALITY (IAQ) FANS

Dwelling Unit

SFam IAQVentRpt

Calculation Description: Title 24 Analysis

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2024-03-11T11:07:43-07:00 (Page 10 of 12) Calculation Description: Title 24 Analysis Input File Name: 3 Bedroom A.ribd22x

01	02		03	04	05		06		07	
Name	Pipe Insu	ılation	Parallel Piping	Compact Distribution	Compact Distril Type	oution	Recircula	tion Control	Shower Drain Water He Recovery	
DHW Sys 1 - 1/1	Not Req	uired	Not Required	Not Required	None		Not F	Required	Not Required	
	NDITIONING SYSTEMS		Not Required	Not Required	None		Not F	Required	Not Requ	

01	02	03			04		05			06		07	08		09
Name	System Type	Heating Unit	Name	_	Equipmen Count	Coo	oling Unit Na	ame	_	Equipmen Count	t Fa	n Name	Distribution N	lame	Required Thermostat Type
Ductless Minisplit1	Heat pump heating cooling	Heat Pump S	System		1	Hea	at Pump Sysi 1	tem	1			n/a	n/a		Setback
												,			
HVAC - HEAT PUMPS	5		المستريم												
01	02	03	04		05	06	07<		80	09	10	11	12		13
	/				Heating					Cooling					
Name	System Type	Number of Units	Heati Efficie Type	ncy HS	SPF/HS 2/COP	a p 47	Cap 17	Effi	ooling ciency Type	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	Н	ERS Verification
Heat Pump System 1	VCHP-ductless	1	HSP	F	8.2	30000	18600	EE	RSEER	14	11.7	Not Zonal	Single Speed		eat Pump System 1-hers-htpump
		,													
HVAC HEAT PUMPS	- HERS VERIFICATION														
01	02	03			04		05			06		07	08		09
	+		$\overline{}$			\rightarrow									-

Registration Date/Time: 2024-03-11 11:24:53 HERS Provider: CalCERTS inc. CA Building Energy Efficiency Standards - 2022 Residential Compliance

IVECIDE	ENTIAL M	IEASU	INEO 3	CIVITAL	4K I						RMS-1
Project Name	e m A - Pre Api	proved a	ADU	Build	ding Type		gle Family Iti Family		n Alone g+ Addition	/Alteration	Date 3/11/2024
Project Addre		provods	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Cali	fornia Ene		te Zone T		-	Addition	# of Units
Orange	County			С	A Clima	ate Zon	ne 08	97	2	n/a	1
INSULAT	TION	-				Area					
Constru	ction Type	е		Cav	rity	(ft ²)	Spe	ecial Fe	atures		Status
Wall N	Wood Framed			R 15		1,154					New
Roof V	Nood Framed Rai	fter		R 30		972					New
Slab U	Jnheated Slab-on	-Grade		- no in:	sulation	972	Perim = 0	r			New
FENERT	DATION						- 12				
FENEST			Total Area:		Glazing			14011,71	Itered Avera		0.30
	ion Area(SHGC	Overh	nang	Sidefin	$\overline{}$	erior Sha	ades	Status
Front (N)		7.0	0.300	0.23	none	_	none	N/A			New
Left (E)		6.0	0.300	0.23	none		none	N/A N/A			New
					none		none				New
		5.0	0.300							·	A1
		5.0	0.300	0.23	none		none	N/A			New
Rear (S) Right (W)											New
HVAC S	YSTEMS		0,300	0.23	none		none	N/A	Thomas		
HVAC S'Qty. He	YSTEMS eating		0.300 Min. Ef	0.23	oling		mone Min.	N/A		mostat	Status
HVAC S'Qty. He	YSTEMS		0,300	0.23	none	тр	none	N/A	Ther Setback	mostat	
HVAC S' Qty. He	YSTEMS eating	6.0	0.300 Min. Ef	0.23	oling	тр	mone Min.	N/A	Setback	mostat	Status
HVAC S' Qty. He	YSTEMS eating District Heat Pump	6.0	0.300 Min. Ef	0.23	oling		mone Min.	N/A Eff	Setback		Status
HVAC S' Qty. He 1 Elec	YSTEMS eating USTRIBUTION	ON	Min. Ef	0.23	oling oling		Min. 14.0 SE	N/A Eff	Setback	uct -Value	Status New
HVAC St Qty. He 1 Electron	YSTEMS eating USTRIBUTION	ON Heati	Min. Ef	0.23	oling oling	Duc	Min. 14.0 SE	N/A Eff	Setback D R	uct -Value	Status New Status
HVAC S'Qty. He 1 Electrocation Ductless Minis	YSTEMS eating ISTRIBUTION INTERPRETATION	ON Heati	Min. Ef 8.20 HSPA	0.23 of Co Duc	oling oling oling oling	Duc n/a	Min. 14.0 SE	Eff Eer	Setback D R	uct -Value	Status New Status New
HVAC SOLUTION TO THE PROPERTY OF THE PROPERTY	YSTEMS eating USTRIBUTION	ON Heati	Min. Ef 8.20 HSPA	0.23	oling oling	Duc n/a	Min. 14.0 SE	Eff Eer	Setback D R	uct -Value	Status New Status

	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 ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air
	handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal
	cooling canacity, and an air handling unit fan efficacy < 0.62 watte per CEM. Field verification tecting is required in accordance with

Ventilation and In § 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.*
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or 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 not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o) 1Cl-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)10iii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)16iii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi.*
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C mus be measured by using a flow hood, flow grid, or other airflow measuring device at the far's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per 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
Pool and Spa Sys	etems 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 Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off 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:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, 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 allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and 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. *
_ighting:	
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable
§ 110.9:	requirements of § 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, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and lind closels with an efficacy of at least 45 lumens per watt.
150.0(k)1B:	Screw based luminaires. Screw based luminaires must 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)1D:	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, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	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
	control, low voltage wiring, or fan speed control.

Project Name: Residential Building Calculation Date/Time: 2024-03-11T11:07:43-07:00 (Page 9 of 12) Calculation Description: Title 24 Analysis Input File Name: 3 Bedroom A.ribd22x PAQUE SURFACE CONSTRUCTIONS 06 07 Interior / Exterior **Total Cavity** Construction Name **Surface Type** Construction Type Continuous Assembly Layers R-value R-value Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present **Wood Framed** Roof Deck: Wood R-30 R-30 Roof No Attic Cathedral Ceilings 2x12 @ 16 in. O. C. None / None Siding/sheathing/decking Cavity / Frame: R-30 / 2x12 Inside Finish: Gypsum Board BUILDING ENVELOPE - HERS VERIFICATION Quality Insulation Installation (QII) High R-value Spray Foam Insulation Building Envelope Air Leakage CFM50 Calculated the WATER HEATING SYSTEMS 04 05 System Type Distribution Type | Water Heater Name | Number of Units IERS Verification System Distribution Name (#) DHW Sys 1 DHW Heater 1 n/a None n/a DHW Heater 1 (1) Standard Water (DHW) WATER HEATERS - NEEA HEAT PUMP 02 03 04 08 NEEA Heat Pump NEEA Heat Pump # of Units Tank Vol. (gal) **Tank Location** Duct Inlet Air Source | Duct Outlet Air Source Brand Model PROPH40 T2

CF1R-PRF-01E

Easy to Verify

at CalCERTS.com

HERS Provider: CalCERTS inc.

Report Generated: 2024-03-11 11:08:38

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

DHW Heater : RH37530 (40 gal, Outside Zone 1 Zone 1 JA13) Registration Date/Time: 2024-03-11 11:24:53 HERS Provider: CalCERTS inc. Registration Number: 224-P010031301A-000-000-0000000-0000 Report Version: 2022.0.000 Report Generated: 2024-03-11 11:08:38 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Schema Version: rev 20220901

Project Name: Residential Building	Calculation Date/Time: 2024-03-11T11:07:43-07:00 (Page 12 of 12)
Calculation Description: Title 24 Analysis	Input File Name: 3 Bedroom A.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	+
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Documentation Author Signature:
Yvonne St Pierre	Yvonne St Pierre
Company:	Signature Date:
Design Path Studio	2024-03-11 11:24:53
Address:	CEA/ HERS Certification Identification (If applicable):
PO Box 230165	
City/State/Zip:	Phone:
Encinitas, CA 92023	619-292-8807
RESPONSIBLE PERSON'S DECLARATION STATEME <mark>NT</mark>	
	ompliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name: Yvonne St Pierre	Responsible Designer Signature: Vonne St Pierre
Company: Design Path Studio	Date Signed; 2024-03-11 11:24:53
Address: PO Box 230165	License: C 34789

619-292-8807

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.

Encinitas, CA 92023

Registration Number: 224-P010031301A-000-000-0000000-0000 Registration Date/Time: 2024-03-11 11:24:53 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

2022 Single-Family Residential Mandatory Requirements Summary 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 a Building Cooling 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.

Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the § 150.0(h)3B: 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. * Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof ar non-crushable casing or sleeve.

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' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain pounding requirements, based on the disastice between this designated space and the water header including and a condensate uniform more than 2" higher than the base of the water heater.

Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and § 150.0(n)3: 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:

Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a 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 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to 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, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than 3/4, If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board of flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed.*

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 combination with mastic and draw bands.

Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction. Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic § 150.0(m)7: tampers. Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, § 150.0(m)8: manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.

Protection of insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outloor 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. 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.

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. Air Filtration. Space conditioning systems with ducts exceeding 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 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the

Verified Heating **Verified Heating** Verified EER/EER2 Verified Airflow Airflow Target SEER/SEER2 HSPF/HSPF2 Cap 47 Charge Cap 17 Heat Pump System 1-hers-htpump

Registration Number: 224-P010031301A-000-000-0000000-0000

Report Version: 2022.0.000 Schema Version: rev 20220901

Report Generated: 2024-03-11 11:08:38

5/6/22

*Exceptions may apply.

3 Bedroom A - Pre Approved ADU System Name
Ductless Minisplit
ENGINEERING CHECKS COIL COOLING PEAK COIL HTG. PEAK Number of Systems CFM Sensible Latent CFM Sensible Heating System Total Room Loads Output per System Return Vented Lighting Total Output (Btuh) Output (Btuh/sqft) Return Air Ducts Cooling System Return Fan Ventilation Output per System Supply Fan Total Output (Btuh) Total Output (Tons) Supply Air Ducts Total Output (Btuh/sqft) 7,545 446 TOTAL SYSTEM LOAD Total Output (sqft/Ton) 0 HVAC EQUIPMENT SELECTION CFM per System Airflow (cfm) Airflow (cfm/sqft) Airflow (cfm/Ton) Outside Air (%) Outside Air (cfm/sqft) Note: values above given at ARI conditions

TIME OF SYSTEM PEAK

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak ROOM COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

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County of Orange Pre-Approved ADU Program

OWNER NAME:

ADDRESS: APN:

LEGAL DESCRIPTION:

revisions

description Example Energy Calculations

date April 03, 2024

project no.