



PROJECT DIRECTORY

STYLE A: SPANISH COLONIAL REVIVAL

STYLE B: CRAFTSMAN

PORTERVILLE PROTOTYPE ACCESSORY DWELLING UNIT - PLAN 1 CITY OF PORTERVILLE, CA

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STYLE C: AGRARIAN

STYLE D: CALIFORNIA RANCH

STAFF INITIALS:

PROJECT INFORMATION

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ALS:	INITIAL WHEN SECTION HAS BEEN F	REVIEWED.	STAFF INITIA	LS:
VIDED BY OWNER)	PROJECT SCOPE: 1. CONSTRUCTION OF A NEW DWELLING UNIT WITH <u>1</u> 2. ALL SITE WORK WITHIN TH 3. ALL THE WORK SHOWN IN	BEDROOMS AND	0 <u>1</u> BATH(S). NE.	
	SITE INFORMATION: (TO BE PROVIE	DED BY CITY OF I	PORTERVILLE)	
	STREET ADDRESS:			
uite 102 CA 93401 DESIGN.COM	APN: ZONING: LOT SIZE: LAND USE: EXISTING USE: PROPOSED USE:			
rs	FLOOR AREA RATIO (TO BE PROVID MAXIMUM FAR: PROPOSED FAR:	DED BY CITY OF I	PORTERVILLE)	
ARSTAIRS ENERGY EBRUARY 01, 2022 22-02123 VIDED BY OWNER)	LOT COVERAGE (TO BE PROVIDED BUILDING: HARDSACPE/PAVING: LANDSCAPE: SETBACKS (TO BE PROVIDED BY C		VILLE)	
			REQUIRED	PROPOSED
	FRONT: REAR: SIDES:		(A.B. NO. 86) (A.B. NO. 86)	
	BUILDING INFORMATION:			
LS:	NUMBER OF STORIES: OCCUPANCY GROUP: CONSTRUCTION TYPE: SPRINKLERED: MAX. HEIGHT ALLOWED:(PER 2 MAX. HEIGHT ALLOWED: (PER MAX. HEIGHT PROPOSED: ROOF RATING: HIGH FIRE ZONE:	CALIFORNIA ASSEMBLY	BILL NO. 86) DLAND-URBAN RY-HIGH FIRE	1 R-3 VB CTION ON SHEET 40' - 0" 16' - 0" CLASS A INTERFACE FIRE SEVERITY ZONE' FIONS ON SHEET
	BUILDING AREA - PLAN PLAN 1 TOTAL PROPOSED BUILDING AREA			480 SF 480 SF

UTILITIES

WATER AND SEWER SERVICE ELECTRICAL SERVICE GAS SERVICE TELEPHONE SERVICE GARBAGE SERVICE CABLE SERVICE CITY OF PORTERVILLE SOUTHERN CALIFORNIA EDISON SOUTHERN CALIFORNIA GAS AT&T CITY OF PORTERVILLE

AT&T

PROJECT CHECKLIST

*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED.

WASTE WATER

SEPTIC (REQUIRES APPROVAL)

FIRE SPRINKLERS

DOES THE PRIMARY RESIDNENCE HAVE NFPA 13D SPRINKLERS?

🗆 NO

YES

REQUIRED AT PROPOSED ADU:

NO (NOT REQUIRED IF THE PRIMARY RESIDENCE IS UNSPRINKLERED

YES (REQUIRED IF THE PRIMARY RESIDENCE IS SPRINKLERED

FIRE SPRINKLERS NOTES

1. IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.

- 2. 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 903.2.1 GROUP R** AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 9033 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 903.2.1.1** ADDITIONS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 903.3 MAY BE REQUIRED TO BE INSTALLED THROUGHOUT STRUCTURES WHEN THE ADDITION IS MORE THAN 50% OF THE EXISTING BUILDING OR WHEN THE ALTERED BUILDING WILL EXCEED A FIRE FLOW OF 1,500 GALLONS PER MINUTE AS CALCULATED PER SECTION 507.3. THE FIRE CODE OFFICIAL MAY REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE INSTALLED IN BUILDINGS WHERE NO WATER MAIN EXISTS TO PROVIDE THE REQUIRED FIRE FLOW OR WHERE A SPECIAL HAZARD EXISTS SUCH AS: POOR ACCESS ROADS, GRADE, BLUFFS AND CANYON RIMS, HAZARDOUS BRUSH AND RESPONSE TIMES GREATER THAN 5 MINUTES BY A FIRE DEPARTMENT.
- 5. SECTION 903.2.1.2 REMODELS OR RECONSTRUCTION AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 MAY BE REQUIRED IF THE SCOPE OF WORK INCLUDES SIGNIFICANT MODIFICATION TO THE INTERIOR AND/OR ROOF OF THE BUILDING, AND THE COST OF THE INSTALLATION DOES NOT EXCEED 15 PERCENT OF THE CONSTRUCTION COSTS OF THE REMODEL.
- 6. LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1 INCH WATER SHALL BE INSTALLED.
- 7. A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.
- 8. A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.

ONSITE PARKING REQUIRED

NONE, EXCEPTION USED:

- THE ADU IS LOCATED WITHIN 1/2 MILE OF PUBLIC TRANSIT.
- OFF STREET PARKING PERMITS ARE REQUIRED BUT NOT OFFERED TO THE OCCUPANT OF THE ADU.
- WHEN THERE IS A CAR SHARE VEHICLE LOCATED WITHIN ONE BLOCK OF THE ADU.
- ONE PARKING SPACE (STUDIO OR 1-BEDROOM ADU)
- TWO PARKING SPACES (2-BEDROOM ADU)
- I WO PARKING SPACES (2-BEDROOM AL



USER LICENSE AGREEMENT

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

THE PLANS ATTACHED HERE ARE APPROVED FOR ONLY USE IN THE CITY OF PORTERVILLE. NO DEVIATIONS, ALTERATIONS, OR OPTIONS BEYOND THOSE SPECIFICALLY INDICATED IN THE PLANS ARE ALLOWED WITHOUT PRIOR APPROVAL BY THE ISSUING JURISDICTION AND CHIEF BUILDING OFFICIAL. ANY UNAPPROVED PLAN MODIFICATIONS MAY BE DEVELOPED THROUGH RRM DESIGN GROUP AND THE APPROVING JURISDICTION IF REQUIRED.

SIGNATURE

DATE

WILDLAND-URBAN INTERFACE FIRE AREA

- PORTIONS OF THE CITY OF PORTERVILLE ARE LOCATED IN WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA (AS DEFINED BY 2022 CRC R337.2).
 a. AREA DEFINED BY STATE AS A "FIRE HAZARD SEVERITY ZONE"
 b. AREA DESIGNATED BY ENFORCING AGENCY TO BE AT A SIGNIFICANT RISK FROM WILDFIRES.
- AN ADU WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA SHALL COMPLY WITH THE 2022 CRC SECTION R337.
 THIS DECIDINES DESIGNED TO COMPLY WITH THE DECIVISIONS.
- 3. THIS PROTOTYPE PLAN IS DESIGNED TO COMPLY WITH THE PROVISIONS REQUIRED BY THE **2022 CRC SECTION R337**, REGARDLESS IF LOCATED IN A WILDLAND-URBAN INTERFACE FIRE AREA.

VERY-HIGH FIRE SEVERITY ZONE

□ NO

🗌 YES

 IN ACCORDANCE WITH THE 2022 CFC SECTION 4906, STRUCTURES LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL PROVIDE & MAINTAIN A FUEL MODIFICATION ZONE. FUEL MODIFICATION ZONES: THE APPLICANT SHALL PROVIDE & MAINTAIN FIRE/FUEL BREAKS TO THE SATISFACTION OF THE LOCAL FIRE DEPARTMENT. FIRE/FUEL BREAKS SHALL BE SHOWN ON THE GRADING, MAP, AND BUILDING PLANS.

REQUIRED W.U.I. DETAILS

1. REFER TO "W.U.I. REQUIREMENT NOTES" ON SHEET G-101.

- ROOF DETAILS: SHEETS AD-902, AD-903, AD-904, AD-905, AND AD-906
- VENTS: W.U.I. COMPLIANT ATTIC VENT, SEE LEGEND ON ROOF PLANS SHEET
- EXTERIOR WALL COVERING DETAIL: (54/AD-902)
- EXTERIOR WINDOWS: "WINDOW GENERAL NOTE" #6 ON FLOOR PLANS SHEET
- EXTERIOR DOORS: "DOOR GENERAL NOTE" #6 ON FLOOR PLANS SHEET

STYLE SELECTION

CAL RANCH

*STRIKE THROUGH SHEETS A1-122,123,124 & A1-202,203,204 & AD-904,905,906

- *STRIKE THROUGH SHEETS A1-121,123,124 & A1-201,203,204 & AD-903,905,906
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- *STRIKE THROUGH SHEETS A1-121,122,123 & A1-201,202,203 & AD-903,904,905

EXTERIOR WALL MATERIAL

- CEMENT PLASTER STUCCO
- FIBER CEMENT BOARD AND BATTEN SIDING
- FIBER CEMENT LAP SIDING
- FIBER CEMENT SHINGLE SIDING

WINDOW MATERIAL

- FIBERGLASS
- U WOOD

ALUMINUM CLAD WOOD

ROOF MATERIAL

- COMPOSITION SHINGLES
- STANDING SEAM METAL ROOF
- CLAY ROOF TILES



THESE PLANS ARE PROVIDED BY THE CITY OF PORTERVILLE AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NC ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED IF YOU DO NOT HAVE THI CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONSTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS **RECOMMENDED YOU HIRE A** CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS, AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

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DATE 02/09/24



SHEET

FLOOR PLAN NOTES 1. STAIRS AND HANDRAILS a. HANDRAIL: SHALL NOT BE LESS THAN 34" AND NOT MORE THAN 38" ABOVE THE SLOPED PLANE ADJOINING STAIR TREAD NOSING. (2022 CRC R311.7.8.1) b. THE HAND GRIP PORTION OF THE HANDRAIL SHALL BE A MINIMUM DIAMETER OF 1-1/4" AND A MAXIMUM DIAMETER OF 2" IN CROSS SECTION (2022 CRC R311.7.8.5) AND SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2" CLEAR FROM THE WALL. (2022 CRC R311.7.8.3) ALL HANDRAILS SHALL RETURN OR TERMINATE IN A NEWEL OR SAFETY POST. (2022 CRC R311.7.8.4) HEADROOM: PROVIDE A MINIMUM OF 6'-8" CLEAR ABOVE ALL PORTIONS OF THE STAIRS AND LANDINGS. THIS DIMENSION SHALL BE MEASURED FROM A PLANE TANGENT TO THE STAIRWAY TREAD NOSING. (2022 CRC R311.7.2) e. GUARDS ON THE OPEN SIDES OF STAIRS ALSO SERVING AS A HANDRAIL SHALL BE NOT LESS THAN 34" OR MORE THAN 38". (2022 CRC R312.1.2 EXC f. USABLE SPACE UNDER STAIRS SHALL BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD. (2022 CRC R302.7) GUARDS ON THE SIDE OF STAIRS SHALL BE SPACED SUCH THAT A SPHERE 4 3/8" DIA CANNOT PASS THROUGH. (2022 CRC R312.1.3 EXC #2) MINIMUM TREAD DEPTH SHALL BE 10". 3/8" MAXIMUM VARIATION CRC (2022 CRC R311.7.5.2) THE MINIMUM WINDER DEPTH AT THE WALK LINE (MEASURED AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE AT A POINT 12" FROM WHERE THE TREAD ARE NORROWEST) SHALL BE 10", MINIMUM WINDER TREAD DEPTH SHALL BE 6". (2022 CRC R311.7.5.2.1) MAXIMUM RISE SHALL BE 7.75". 3/8" MAXIMUM VARIATION (2022 CRC R311.7.5.1) STAIRS SHALL BE NOT LESS THAN 36" CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM HEIGHT. MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT IS 31 1-1/2" WHERE A HANDRAIL IS INSTALLED ON ONE SIDE, AND 27" WHERE HANDRAILS ARE INSTALLED ON BOTH SIDES. (2022 CRC R311.7.1) k. RADUIS OF NOSING SHALL NOT BE LESS THAN 3/4" BUT NOT GREATER THAN 1 1/4". (2022 CRC R311.7.5.3) SPACE BETWEEN HANDGRIP AND WALL SHALL BE NOT LESS THAN 1 1/2". (2022 CRC R311.7.8.3) m. HANDRAILS ARE REQUIRED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS WITH FOUR OR MORE RISERS. (2022 CRC R311.7.8) WATER HEATER: (REFER TO BUILDING ANALYSIS REPORT) a. HOT WATER INLET AND OUTLET PIPES INSULATED: EXTERNALLY WRAPPED WITH R-4 OR GREATER (FIRST 5 FEET IN UNCONDITIONED SPACES). PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2' MAX. ABOVE GRADE POINTING DOWNWARD TO THE **TERMINATION - UNTHREADED.** COMBUSTION AIR PER MANUFACTURE REQUIREMENTS. CLEARANCES PER MANUFACTURE REQUIREMENTS. e. THE BURNERS AND BURNER IGNITION DEVICES SHALL BE LOCATED 18" ABOVE THE GARAGE FLOOR UNLESS LISTED AS FLAMABLE VAPOR IGNITION RESISTANT (NFPA54:9.1.10.2) (CPC 508.14) WHEN INSTALLED IN A GARAGE THE WATER HEATER SHALL BE GUARDED AGAINST DAMAGE. (CPC 508.14.) PROVIDE (2) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. (2022 CRC R703.7.3) CLOTHES DRYER MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT.(CMC 504.3) ALL MANUFACTURED EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH INSTALLATION REQUIREMENTS. SHOWERS AND TUB-SHOWER COMBINATIONS: CONTROL VALVES MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (CPC 418.0.) PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE A STANDING SURFACE. (2022 CRC R308.4.5) HEATING AND AIR-CONDITIONING SYSTEM DESIGN SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL COMFORT FORCED AIR UNITS: REFER TO BUILDING ENERGY ANALYSIS REPORT. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION SHALL BE REQUIRED PER CALGREEN SEC. 4.504.1. ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. a. PROVIDE WORKING EQUIPMENT PLATFORM PER CMC 904.11.1. b. NIGHT SETBACK THERMOSTAT REQUIRED (MINIMUM 2 PERIODS PER 24 HOURS). c. CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS. THE BURNERS AND BURNER IGNITION DEVICES SHALL BE LOCATED 18" ABOVE THE GARAGE FLOOR UNLESS LISTED AS FLAMABLE VAPOR IGNITION RESISTANT (NFPA54:9.1.10.2) CPC 508.14 e. PROVIDE MIN. 30" DEEP AND 30" HIGH, UNOBSTRUCTED WORKING SPACE IN FRONT OF FAU f. FAU OR ALCOVE SHALL BE 12" WIDER ON ALL SIDES AND REAR THAN THE FURNACE BEING INSTALLED. CMC TABLE 3-1. REQUIRED CLEARANCES MAY BE REDUCED PER CMC TABLE 3-2. g. USE MIN. 0.019-INCH THICK SHEET METAL DUCTS IN GARAGE AND DUCTS PENETRATING WALLS AND CEILINGS OF GARAGE, CBC EXCEPTIONS SEC 406.1.4 ITEM 2. h. PASSAGEWAY TO THE ATTIC FURNACE SHALL BE UNOBSTRUCTED AND HAVE CONTINUOUS SOLID FLOORING NOT LESS THAN 24" WIDE. NOT MORE THAN 20' IN LENGTH. CMC, SEC. 904.11.2 & 904.11.3. SOURCE OF COMBUSTION AIR TO FURNACE SHALL COME FROM OUTSIDE j. WHEN INSTALLED IN A GARAGE THE APPLIANCE SHALL BE GUARDED AGAINST DAMAGE 10. PROVIDE 5/8" TYPE "X" GYPSUM BOARD AT GARAGE SIDE OF WALLS AND CEILINGS COMMON TO DWELLING AND COVER ALL BEAMS & POSTS, AS WELL AS SOFFITS & FURRED SPACES. ALSO AT UNDERSIDE OF ACCESSIBLE UNDER STAIR AREAS. ONE HOUR CONSTRUCTION FOR ALL WALLS & SOFFITS. 11. WATER CLOSETS. a. CLEARANCES: 24" MIN. FRONT, 30" MIN COMPARTMENT WIDTH. b. PROVIDE A MIN 3 SF WINDOW, 1/2 OF WHICH SHALL BE OPENABLE OR AN EXHAUST FAN 50 CFM FOR INTERMITTENT OR 20 CFM FOR CONTINUOUS., DIRECT VENT TO OUTSIDE WITH BACKDRAFT DAMPER. (2022 CRC R303.3) NEW WATER CLOSETS AND ASSOCIATED FLUSHOMETER VALVES, IF ANY SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS STANDARD A112.19.2. H & S CODE, SECTION 17921.3(B). 12. BATH ACCESSORIES: PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 TOWEL BAR PER BATHROOM. PROVIDE NECESSARY BLOCKNG FOR TOILET PAPER HOLDER AND TOWEL BARS. 13. WHOLE-BUILDING MECHANICAL VENTILATION SYSTEM PER ASHRAE STANDARD 62.2. PROVIDE THE COUNTY INSPECTOR THE FOLLOWING INFORMATION AT OR BEFORE THE TIME OF INSPECTION: CALCULATIONS FOR REQUIRED VENTING RATES. b. CALCULATION ADJUSTMENTS FOR INTERMITTENT SYSTEMS IF APPLICABLE. c. DUCT DIAMETER AND MAXIMUM DUCT LENGTH PER ASHRAE 62.2 TABLE 7.1. d. TYPE OF SYSTEM USED AND PROVIDE COMPLETED CF-6R-MECH-05 FORM. . FANS SHALL BE A MAXIMUM OF 1 SONE. f. FANS SHALL BE PROVIDED A COVER OF R-4.2 WHEN OFF. 14. ATTIC ACCESS: PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE (2022 CRC R807.1) IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY ELECTRICAL PROVIDE UNOBSTRUCTED PASSAGEWAY 24" WIDE OF SOLID CONTINUOUS FLOORING FROM ACCESS TO EQUIPMENT AND IT'S CONTROLS. ALSO PROVIDE UNOBSTRUCTED WORK SPACE IN FRONT OF EQUIPMENT 30" DEPTH MINIMUM. PROVIDE COMBUSTION AIR AND CONDENSATE LINE TO OUTSIDE OR AN APPROVED DRAIN FOR OPTIONAL AIR CONDITIONING. BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30-INCHES OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND

- SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2022 CRC R807 1
- PROVIDE A 120V RECEPTACLE AND A LIGHT NEAR THE EQUIPMENT WITH LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.

ELECTRICAL NOTES

- CONFORM WITH CURRENT CEC, NFPA, MFR'S, AND LOCAL REQUIREMENTS. ELECTRICAL SYSTEM GROUND TO BE PROVIDED PER NEC ARTICLE 250-81.
- ALL MATERIALS TO BE U.L. LABELED. . METER: "SQUARE D", 120 VOLT/ 240 VOLT, 1 AND 3 WIRE GROUND OR EQUAL.
- MAIN PANEL: FLUSH MOUNT, 30" CLEARANCE. 200 AMP SIZED TO PROVIDE FOUR FULL SIZE SPARE CIRCUIT SPACES FOR FUTURE EXPANSION.
- CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
- . LAMPS: FOR GENERAL LIGHTING IN KITCHENS AND BATH SHALL HAVE AN EFFICIENCY OF NOT LESS THAN 40 LUMENS/ WATT. ALL SOCKETS FILLED WITH INCANDESCENT: SOFT-WHITE, 55 WATT FLUORESCENT: COOL WHITE, RS, SOUND RATING "A", 40 WATT (U.O.N.).
- ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, CRAWL SPACES, OUTDOORS, KITCHEN COUNTERS, AND AT WET BAR SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN COMPLIANCE WITH NEC Art. 210-8, CONSISTING OF 125 VOLT, SINGLE-PHASE, 15- AND 20- AMPERE RECEPTACLES.
- 9. ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. NEC ART. 210-52(d). RECEPTACLES SHALL BE ADJACENT TO AND WITHIN 36" OF THE OUTSIDE EDGE OF EACH BASIN.
- 10. PROVIDE ELECTRIC OUTLET AND PUSH-BUTTON WIRE FOR GARAGE OPENER.(INCLUDE OPENER). 11. THERMOSTAT SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL
- 12. RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE 13. RECESSED LIGHT FIXTURES INSTALLED IN A FIRE RATED ASSEMBLY SHALL BE
- INSTALLED PER THE APPROVED LISTING OR PROCTECTED BY AN APPROVED METHOD. 14. BATHROOM RECEPTACLES MUST BE ON A 20 AMP. CIRCUIT (OR CIRCUITS) WITH NO
- OTHER OUTLETS 15. CEILING-SUSPENDED (PADDLE) FANS SHALL BE SUPPORTED INDEPENDENTLY OF AN
- OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH CEC 314-27(D). CEC 422-18. 16. ALL LUMINARIES AND LAMPHOLDERS SHALL BE LISTED CEC 410-6. 17. ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING
- OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. CEC 210-12(B).
- 18. ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 5'6" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.7 AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMNETS AS PERMITTED IN CEC 406.4(D)(2)(A).
- 19. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.
- 20. BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 kHz. 21. SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTEED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3
- FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS. 22. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARAMS SHALL BE INTERCONNECTEED. 23. OMITTED
- 24. LIGHTS IN OTHER THAN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST BE CONTROLLED BY A DIMMER OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR. SUCH SENSORS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE LIGHTS NO MORE THAN 30 MINUTES AFTER THE AREA HAS BEEN VACATED.
- 25. ALL OUTDOOR LIGHTING ATTACHED TO BUILDINGS MUST BE HIGH EFFICACY, CONTROLLED BY A MOTION SENSOR WITH PHOTO-CONTROL. OR PHOTO CONTROL AND AUTOMATIC TIME SWITCH CONTROL. PHOTO-CONTROL IS AN ELECTRIC DEVICE THAT DETECTS CHANGE IN ILLUMINATION AND THEN CONTROLS ITS ELECTRIC LOAD AT PREDETERMINED ILLUMINATION LEVELS. 26. EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING
- STANDARDS CODE SECTION 4.506. 27. BRANCH SUPPLYING GARAGE RECEPTACLE(S) SHALL NOT SUPPLY OUTLETS
- OUTSIDE OF THE GARAGE. 28. FOR EACH DWELLING UNIT, INSTALL A MINIMUM 1" INSIDE DIAMETER LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240V BRANCH CIRCUIT. RACEWAY SHALL ORIGINATE AT MAIN OR SUB PANEL AND TERMINATE IN A LISTED BOX IN CLOSE PROXIMITY TO THE PROPOSED EV CHARGER LOCATION. RACEWAYS MUST BE CONTINUOUS AT ENCLOSED, INACCESSIBLE, OR CONCEALED SPACES. SERVICE PANEL SHALL PROVIDE CAPACITY TO INSTALL 40 AMP MINIMUM DEDICATED BRANCH CIRCUIT AND SPACES RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT DEVICE, IDENTIFY THE RESERVED SPACE AND RACEWAY
- TERMINATION FOR FUTURE EV AS "EV CAPABLE." 29. OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A SINGLE FAMILY DWELLING OR OTHER BUILDINGS IN THE SAME LOT SHALL BE HIGH EFFICACY AND MUST BE CONTROLLED BY AN ON/OFF SWITCH THAT DOES TO OVERRIDE TO ON THE ITEMS LISTED BELOW. ALSO, THE LIGHING MUST BY ONE OF THE FOLLOWING METHODS: i) CONTROLLED BY PHOTOCELL AND MOTION SENSOR. CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY REACTIVATES THE MOTION SENSOR WITHIN 6 HOURS, OR
- ii) CONTROLLED BY ANY OF THE FOLLOWING: 1. PHOTOCELL AND AUTOMATIC TIME SWITCH CONTROL, CONTROLS THAT
- OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURN THE PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS, OR ASTRONOMICAL TIME CLOCK. CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURN THE ASTRONOMICAL CLOCK TO ITS NORMAL OPERATION WITHIN 6 HOURS AND WHICH IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS, OR
- 3. ENERGY MANAGEMENT CONTROL SYSTEMS WHICH MEETS ALL OF THE SOLAR READY REQUIREMENTS PER CeNC 110.10(b) THROUGH 110.10(d) FOLLOWING REQUIREMENTS. AT A MINIMUM PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL CLOCK IN ACCORDANCE WITH SECTION 110.9 OF THE SOLAR ZONE: STANDARDS; MEETS THE INSTALLATION CERTIFICATION REQUIREMENTS IN 1. MINIMUM AREA. THE SOLAR ZONE SHALL HAVE A MINIMUM TOTAL AREA AS SECTION 130.4 OF THE STANDARDS; MEETS THE REQUIREMENTS FOR AN DESCRIBED BELOW. THE SOLAR ZONE SHALL COMPLY WITH ACCESS, EMCS IN SECTION 130.5 OF THE STANDARDS; DOES NOT HAVE AN OVERRIDE PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED OR BYPASS SWITCH THAT ALLOWS THE LUMINAIRE TO BE ALWAYS ON; AND, IN TITLE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF ADOPTED BY A LOCAL JURISDICTION. DURING THE DAYLIGHT HOURS. 2. THE SOLAR ZONE TOTAL AREA SHALL BE COMPRISED OF AREAS THAT HAVE NO DIMENSION LESS THAN FIVE 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 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET. A. SINGLE FAMILY RESIDENCES. THE SOLAR ZONE SHALL BE LOCATED ON THE
- 30. AT LEAST ONE LUMINAIRE EACH BATHROOM, GARAGE, LAUNDRY ROOM, AND UTILITY ROOM SHALL BE CONTROLLED BY A MANUAL ON/AUTOMATIC-OFF VACANCY SENSOR
- 31. EXCEPT FOR CLOSETS LESS THAN 70 SQUARE FEET AND HALLWAYS, ALL LUMINAIRES THAT ARE INSTALLED WITH JA8-CERTIFIED LIGHT SOURCES ARE REQUIRED TO BE CONTROLLED BY EITHER A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL
- 32. THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DOES NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS. THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR, OR FAN SPEED CONTROL
- CONTROLS FOR HEATING, VENTILATION AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR. (2022 CRC 327.1.2) ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48" MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48" ABOVE EXTERIOR
- 33. ELECTRICAL RECEPTACLE OUTLETS, SWITCHES AND CONTROLS (INCLUDING 34. DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48" FLOOR OR LANDING. MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL. (2022 CRC 327.1.4)

MECHANICAL NOTES

- 1. CONFORM WITH CURRENT ADOPTED CRC, CMC, SMACCNA, NFPA AND LOCALREQUIREMENTS.
- 2. DUCTWORK: SMACCNA "LOW VELOCITY DUCT CONSTRUCTION" NFPA STANDARD #90A. ALL TRANSVERSE DUCT PLENUM AND FITTING JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE NON-CLOTH TAPE MEETING THE REQUIREMENTS OF UL181, 181A, OR 181B, OR MASTIC TO PREVENT AIR LOSS. DUCTS SHALL BE INSULATED AS REQUIRED BY THE UMC. SEE FLOOF PLAN FOR F.A.U. AND FIREPLACES. DUCTS PENETRATING A WALL OR FLOOR-CEILING BETWEEN GARAGE & DWELLING TO BE MINIMUM 26 GAUGE METAL WITHOUT OPENING IN GARAGE. FIRE DAMPER REQUIRED
- OTHERWISE. 3. GRILLES AND REGISTERS, DIFFUSERS, ETC: SUBJECT TO OWNERS
- APPROVAL. "CARNES" OR EQUAL FANS: DIRECTLY VENTED TO OUTSIDE, BACK DRAFT DAMPERS ARE REQUIRED (PER TABLE 2-53V, TITLE 24 C.A.C.). THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS
- PROVIDE COMBUSTION AIR OPENINGS WITHIN 12" OF THE FLOOR AND CEILING FOR GAS BURNING EQUIPMENT, DIRECT TO OUTSIDE. HEIGHT TO COMBUSTIBLE MATERIAL ABOVE KITCHEN RANGES: 30" - UNPROTECTED, 24"
- PROTECTED. 6. LAUNDRY DRYER VENT TO EXTERIOR TO BE 14 FEET MAXIMUM, LESS 2 FEET PER 90 DEGREE TURN PER CMC 504.3.2.2. IF VENT IS OVER 14' AN APPROVED POWER ASSISTED DEVICE.
- 7. BATHS: PROVIDE A MINIMUM OF 5 AIR CHANGES PER HOUR MASTER BATH: 2 SONES MAXIMUM OTHER BATHS & LAUNDRY: 3 SONES MAXIMUM. 8. BATHROOM EXHAUST FANS (BATHROOM APPLIES TO ROOMS CONTAINING BATHTUB, SHOWER, SPA OR SIMILAR SOURCE OF MOISTURE) WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE
- FOLLOWING: a. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO
- TERMINATE OUTSIDE THE BUILDING MIN 3' FROM OPENINGS.
- b. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT (2016 CBC SEC. 4.506.1)
- EXHAUST FANS SHALL PROVIDE 5 AIR CHANGES PER HOUR (50 CFM MIN.) 10. PER CGBC 4.506.1- BATHROOM EXHAUST FANS, EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING: 1 FANS SHALL BE ENERY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING. 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL. A. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF </= 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT, B. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL(I.E. BUILT IN)
- 11. PER CEnC 150(m) PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS AND PLENUMS SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.3 (OR ANY LEVEL HIGHER LEVEL REQUIRED BY CMC SECTION 605) OR BE ENCLOSED ENTIRELY IN CONDITIONED SPACE.

PLUMBING NOTES

- 1. CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
- PIPING: a. DOMESTIC WATER (WITHIN BUILDING): COPPER OR PEX PIPE OR APPROVED EQUAL
- b. GAS, EXPOSED TO WEATHER: GALVANIZED AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO EACH FIXTURE
- d. DIELECTRIC UNIONS "F.P.C.O." REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS e. WHEN "OPTIONAL" SOFT-WATER LOOP INTALLED, PROVIDE WITH 2 GATE
- VALVES. WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE
- JURISDICTION WATER METER: 1" U.O.N. (REFER SIZE W/FIRE SPRINKLER PLANS)
- SHOWER HEADS AND FAUCETS: CEC CERTIFIED.
- PIPE INSULATION: REFER TO TITLE 24- MANDATORY MEASURES "SPACE CONDITIONING, WATER HEATING & PLUMBING SYSTEM MEASURES" STRAPS AND HANGERS: PROVIDE AS NECESSARY TO INSURE A STABLE
- 8. INSTALLATION. SEE TITLE-24 FOR WATER HEATER REQUIREMENTS.
- 9. ALL HOSE BIBS AND LAWN SPRINKLER SYSTEMS SHALL HAVE APPROVED BACK FLOW PREVENTION DEVICES.
- 10. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CALGREEN TABLE 4.303.3.
- . WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE. PER [505.4,505.5 CPC] THE RELIEF VALVE SHALL BE PROVIDED WITH A DRAIN LINE WHICH EXTENDS FROM THE VALVES TO THE OUTSIDE OF THE BUILDING. PER [608.5 CPC]
- 12. PER CPC 603.4.7 OUTLETS WITH HOSE ATTATCHMENTS. POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, OTHER THAN WATER HEATER DRAINS, BOILER DRAINS. AND CLOTHES WASHER CONNECTIONS, SHALL BE PROTECTED BY A NONREMOVABLE HOSE BIBB TYPE BACKFLOW PREVENTER. A NONREMOVABLE HOSE BIBB TYPE VACUMM BREAKER, OR BY AN ATMOSPHERE VACUUM BREAKER INSTALLED NOT LESS THAN 6 INCHES ABOVE THE HIGHEST POINT OF USAGE LOCATED ON THE DISCHARGE SIDE OF THE LAST VALVE. IN CLIMATES WHERE FREEZING TEMPERATURES
- OCCUR, A LISTED SELF DRAINING FROST-PROOF HOSE BIBB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED.

SOLAR READY NOTES

- ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA NO LESS THAN 250 SQUARE FEET.
- EXCEPTION 1 TO SECTION 110.10(B)1A: SINGLE FAMILY RESIDENCES WITH A PERMANENTLY INSTALLED DOMESTIC SOLAR WATER-HEATING SYSTEM MEETING THE INSTALLATION CRITERIA SPECIFIED IN THE REFERENCE RESIDENTIAL APPENDIX RA4 AND WITH A MINIMUM SOLAR SAVINGS FRACTION OF 0.50.
- EXCEPTION 3 TO SECTION 110.10(B)1A: SINGLE FAMILY RESIDENCES LOCATED IN THE WILDLAND-URBAN INTERFACE FIRE AREA AS DEFINED IN TITLE 24, PART 2 AND HAVING A WHOLE HOUSE FAN AND HAVING A SOLAR ZONE TOTAL AREA NO LESS THAN 150 SQUARE FEET.
- EXCEPTION 5 TO SECTION 110.10(B)1A: SINGLE FAMILY RESIDENCES HAVING A SOLAR ZONE TOTAL AREA NO LESS THAN 150 SQUARE FEET AND WHERE ALL THERMOSTATS ARE DEMAND RESPONSIVE CONTROLS AND COMPLY WITH SECTION 110.12(A), AND ARE CAPABLE OF RECEIVING AND RESPONDING TO DEMAND RESPONSE SIGNALS PRIOR TO GRANTING OF AN OCCUPANCY PERMIT BY THE ENFORCING AGENCY.

TITLE 24 COMPLIANCE

- 1. ALL INTERIOR RESIDENTIAL LIGHTING IS TO BE HIGH EFFICACY. 2. THE FOLLOWING LIGHTING IS HIGH EFFICACY: PIN BASED LINEAR FLUORESCENT, PIN BASED COMPACT FLUORESCENT, PULSE-START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED'S), INSEPARABLE SOLID STATE LUMINAIRES (SSL'S) INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE LIGHTING PURPOSES.
- 3. THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JA8-CERTIFIED. JA-8 CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS "JA8-2016" OR "JA8-2016-E". THESE FIXTURES INCLUDE: LED LUMINAIRES WITH INTEGRAL SOURCES THAT ARE CERRTIFIED TO THE ENERGY COMMISION, SCREW-BASED LED LAMPS (A-LAMPS, PAR LAMPS, ETC.), PIN BASED LED LAMPS (MR-16,AR-111, ETC.), GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES. LISTING OF CA CERTIFIED FIXTURES IS LOCATED ON THE CALIFORNIA ENERGY COMMISSION WEBSITE AT:
- HTTP://APPLIANCES.ENERGY.CA.GOV/ADVANCEDSEARCH/ASPX RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE. ADDITIONAL REQUIREMENTS FOR ANY RECESSED DOWNLIGHTS IN CEILINGS
- ARE AS FOLLOWS. THEY a. SHALL NOT HAVE SCREW BASED SOCKETS,
- b. SHALL CONTAIN JA8-CERTIFIED LIGHT SOURCES AND c. SHALL MEET PERFORMANCE REQUIREMENTS OF CEC SECTION
- 150.0(K)1C 6. THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DO NOT CONTAIN ALUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS. THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL. CECS
- 150(K)1(B) 7. UNDERCABINET LIGHTING MUST BE SWITCHED SEPARATE FROM ALL OTHER LIGHTING.
- 8. ALL LIGHTING MUST HAVE READILY ACCESSIBLE MANUAL CONTROLS 9. EXHAUST FANS MUST BE SWITCHED SEPARATE FROM LIGHTING OR UTILIZE A DEVICE WHERE LIGTING CAN BE TURNED OFF WHILE THE FAN IS RUNNING.
- 10. FOR ALL SPACE TYPES EXCEPT HALLWAYS AND CLOSETS THAT ARE 70 SF OR SMALLER, VANCANY SENSORS OR DIMMERS ARE REQUIRED WHEN USING A SOURCE REGULATED BY JA8.
- 11. IN KITCHENS, IF THE LUMINAIRE IS AN ENCLOSED OR RECESSED LUMINAIRE, YOU MUST USE A DIMMER OR VACANY SENSOR. 12. AT LEAST ONE LUMINAIRE IN THE BATHROOM, GARAGE, LAUNDRY ROOM
- AND UTILITY ROOM MUST BE CONTROLLED BY A VACANY SENSOR. 13. OMITTED
- 14. THE BUILDER MUST PROVIDE NEW HOMEWONERS WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF INSTALLED LAMPS AND LUMINARIES.

ENERGY CODE - UPDATE

- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WETHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION CEnC 110.7
- ATTTIC ACCESS DOORS SHALL HAVE PERMENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE CEnC 150.0(a)2
- PERMENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO INSTALLED LUMINAIRES OR EXHAUST FANS SHALL BE RATED TO CONSUME NO MORE THAN FIVE WATTS OF POWER PER LUMINAIRE OR EXHUAST FAN AS DETERMINED IN ACCORDANCE WITH SECTION 130.0(c). NIGHT LIGHTS SHALL NOT BE REQUIRED TO BE CONTROLLED BY
- VACANCY SENSORS CEnC 150(k)1E. 4. ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH CEnC TABLE 150.0-A. CEnC 150(k)1A.
- 5. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF
- BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL. CEnC 150(k)1B

FIRE BLOCKING NOTES

- 1. FIREBLOCKING TO BE LOACATED AT THE FOLLOWING LOCATIONS PER 2022 CRC SECTION R302.11: A. SECTINON R302.11
 - . FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS: 1. VERTICALLY AT CEILING AND FLOOR LEVELS
 - HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET. 2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
 - 3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7
 - 4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS. 5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE
 - SECTION R1003.19. 6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
- SECTION R302.11.1 FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
- 1. TWO-INCH NOMINAL LUMBER 2. TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN
- LAP JOINTS 3. THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH
- JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS 4. THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS
- BACKED BY 0.75-INCH PARTICLE BOARD . ONE-HALF-INCH GYPSUM BOARD
- ONE-FOURTH-INCH CEMENT-BASED MILLBOARD BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER

SECURELY RETAINED IN PLACE

PROJECT GENERAL NOTES

APPROVED MATERIAL INSTALLED IN SUCH A MANNER AS TO BE

8. CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.

USE OF PLANS: THESE PLANS ARE THE PROPERTY OF RRM AND MAY NOT BE USED WITHOUT THE EXPRESS. WRITTEN CONSENT.

THESE NOTES APPLY TO ALL PORTIONS, PHASES AND SUBCONTRACTORS OF THIS PROJECT. APPLICABLE CODES AND STANDARDS:

- 2022 CALIFORNIA RESIDENTIAL CODE AND ITS APPENDICES AND STANDARDS
- 2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
- 2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
- 2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
- 2022 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
- 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS
- APPENDICIES AND STANDARDS. CURRENT CITY OF PORTERVILLE MUNICIPAL CODE.
- CALIFORNIA ASSEMBLY BILL NO. 86 (ACCESSORY DWELLING UNITS).

1. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, HE/SHE SHALL BE PRECEDING AT HIS/HER OWN RISK. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION, LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE ROUGH AND TO FACE OF FRAMING

- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS
- SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
- CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
- CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS. TEMPORARY FACILITIES: CONTRACTOR SHALL PAY FOR, PROVIDE AND
- MAINTAIN TEMPORARY FACILITIES FOR PROJECT PROTECTION AND CONSTRUCTION, AND AS REQUIRED BY LOCAL REGULATION AND THESE DOCUMENTS. SUCH FACILITIES INCLUDE, BUT ARE NOT LIMITED TO: TOILETS, LIGHTS. HEATERS, POWER, GAS, FANS, WATER, PHONES, FENCES, SIGNS, SHEDS, ETC. REMOVE FROM SITE UPON COMPLETION OF WORK. OBTAIN BUILDING OFFICIAL OR FIRE MARTIAL APPROVAL PRIOR TO USE OF ANY TEMPORARY HEATING DEVICE.
- 8. CONTRACTOR SHALL PROVIDE FOR PROTECTION AND SAFETY: RESPONSIBLE FOR ALL ITEMS (SIGNS, LIGHTS, FENCES, BRACING, ANCHOR-AGE, FIRE-EXTINGUISHERS, ETC.) NECESSARY FOR THE PROTECTION OF THE PUBLIC, WORKERS, MATERIALS, CONSTRUCTION AND PROPERTY PER LOCAL, STATE AND FEDERAL REQUIREMENTS (INCLUDING EARTHQUAKES, FIRES, SPILLS, ACCIDENTS, EROSION, MUD, DUST, ETC.).
- CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
- 10. THE SOILS ENGINEER IS TO APPROVE THE KEY OR BOTTOM AND LEAVE A CERTIFICATE ON THE SITE FOR THE GRADING INSPECTOR. THE GRADING INSPECTOR IS TO BE NOTIFIED BEFORE ANY GRADING BEGINS, AND FOR BOTTOM INSPECTION, BEFORE FILL IS PLACED. FILL MAY NOT BE PLACED WITHOUT APPROVAL OF THE GRADING INSPECTOR. 11. A SEPERATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR
- RECIPRICAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO ENSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT
- 12. SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP. 13. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER. 14. FIRE SPRINKLER SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED TO BUILDING DEPT. & APPROVED BY FIRE DEPT. PRIOR TO INSTALLATION.

W.U.I. REQUIREMENT NOTES

- 1. ROOF COVERING SHALL COMPLY WITH **2022 CRC R337.5.2**.UNDERLAYMENT SHALL BE ONE LAYER OF OF MINUMIM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING
- ROOF VALLEYS SHALL COMPLY WITH 2022 CRC R337.5.3. VALLEY FLASHING SHALL BE NOT LESS THAN 26 GAGE GALVANIZED SHEET CORROSIVE RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINUMIM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36 INCHES WIDE RUNNING THE FULL LENGTH OF THE VALLEY.
- ROOF GUTTERS SHALL COMPLY WITH 2022 CRC R337.5.4. ROOF GUTTERS SHALL BE PROVIDE WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER
- 4. VENTILATION OPENINGS SHALL COMPLY WITH 2022 CRC R337.6 -VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERFLOOR VENTILATION OPENINGS SHALL BE FULLY COVERED WITH
- METAL WIRE MESH, VENTS, OTHER MATEIALS, OR OTHER DEVICES. REFER TO SECTIONS R337.6.1 THROUGH R337.6.3 FOR ADDITIONAL INFORMATION. EXTERIOR COVERINGS SHALL COMPLY WITH 2022 CRC R337.7 EXTERIOR WALL COVERINGS OR WALL ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS: BE OF NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, HEAVY TIMBER EXTERIOR WALL ASSEMBLY, LOG WALL CONSTRUCTION ASSEMBLY, OR WALL ASSEMBLIES THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1. REFER TO SECTIONS R337.7.1 THROUGH R337.7.9 FOR ADDITIONAL INFORMATION.



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A/C	AIR CONDITIONING	FOIC	FURNISHED BY OWNER INSTALLED BY
ABV	ABOVE		CONTRACTOR
ACOUS	ACOUSTICAL	FOM	FACE OF MASONRY
ACT ADA	ACOUSTICAL CEILING TILE AMERICANS WITH DISABILITIES ACT	FOS FRP	FACE OF STUD FIBERGLASS REINFORCED PANELS
ADA AFCI	ARC FAULT CIRCUIT INTERRUPTER	FT	FOOT OR FEET
AFF	ABOVE FINISH FLOOR	FTG	FOOTING
AL	ALUMINUM	GA	GAUGE, GAGE
ALT	ALTERNATE	GALV	GALVANIZED
ARCH	ARCHITECT(URAL)	GB GC	GRAB BAR GENERAL CONTRACTOR
BD BDRM	BOARD BEDROOM	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
BET	BETWEEN	GWB	GYPSUM BOARD
BIT	BITUMINOUS	GYP	GYPSUM
BLDG	BUILDNG	HB	HOSE BIBB
BLKG BLW	BLOCKING BELOW	HC HDWD	HOLLOW CORE HARDWOOD
BLVV	BEAM	HDWR	HARDWARE
BOT	ВОТТОМ	HGT	HEIGHT
BUR	BUILT UP ROOF	HM	HOLLOW METAL
CB	CATCH BASIN	HORIZ HVAC	HORIZONTAL HEATING, VENTILATION, A/C
CBC CEM	CALIFORNIA BUILDING CODE CEMENT	ID	INSIDE DIAMETER
CEM	CUBIC FEET PER MINUTE	IIC	IMPACT INSULATION CLASS
CIP	CAST IN PLACE	IN	INCH
CJ	CONTROL JOINT		INCANDESCENT
CL		INSUL INT	INSULATION, INSULATED
CLG CLO	CEILING CLOSET	JC	JANITORS CLOSET
CLC	CLEAR	JT	JOINT
CMU	CONCRETE MASONRY UNIT	LAM	LAMINATE
CO	CLEAN OUT	LAV	LAVATORY
COL	COLUMN	LBS LEED	POUNDS LEADERSHIP IN ENERGY AND
CONC CONST	CONCRETE CONSTRUCTION	LEED	ENVIRONMENTAL DESIGN
CONT	CONTINUOUS	LF	LINEAR FEET
CONTR	CONTRACTOR	LIN	LINEN CLOSET
CPT	CARPET	LINO LT(G)	LINOLEUM LIGHT(ING)
CT	CERAMIC TILE	LVL	LAMINATED VENEER LUMBER
CTR DBL	CENTER DOUBLE	LVT	LUXURY VINYL TILE
DF	DRINKING FOUNTAIN	LW	LIGHTWEIGHT
DIA	DIAMETER, DIAPHRAGM	MAX	MAXIMUM
DIM	DIMENSION	MDF MECH	MEDIUM DENSITY FIBERBOARD
DN	DOWN	MEMB	MEMBRANE
DR DS	DOOR DOWN SPOUT	MEP	MECHANICAL, ELECTRICAL, PLUMBING
DTL	DETAIL	MFR	MANUFACTURER
DW	DISHWASHER	MIN MISC	MINIMUM MISCELLANEOUS
DWG	DRAWING	MO	MASONRY OPENING
(E) E	EXISTING EAST	MTD	MOUNTED
EA	EACH	MTL	METAL
EJ	EXPANSION JOINT	N	NORTH
EL,	ELEVATION	NIC NO	NOT IN CONTRACT NUMBER
ELEV ELEC	ELECTRIC	NOM	NOMINAL
ENCL	ENCLOSURE	NTS	NOT TO SCALE
EQ	EQUAL	0.P.	OVERFLOW PIPE
EQUIP	EQUIPMENT	OC OD	ON CENTER OVERFLOW DRAIN
EXH EXP	EXHAUST	OFF	OFFICE
EXP	EXPANSION EXTERIOR	OH	OPPOSITE HAND
FACP	FIRE ALARM CONTROL PANEL	OPG	OPENING
FAU	FORCED AIR UNIT	OPP	OPPOSITE
FAWP	FLUID APPLIED WATERPROOFING	(P) PERM	PROPOSED PERIMETER
FD FDC	FLOOR DRAIN FIRE DEPARTMENT CONNECTION		PERPENDICULAR
FE	FIRE EXTINGUISHER	PG	PAINT GRADE
FEC	FIRE EXTINGUISHER CABINET	PL	PLATE, PROPERTY LINE
FF	FINISHED FLOOR ELEVATION	PLAM	
FG		PLBG PLYWD	PLUMBING PLYWOOD
FH FHC	FIRE HYDRANT FIRE HOSE CABINET	PNL	PANEL
FIN	FINISH	PP	POWER POLE
FIXT	FIXTURE	PR	PAIR
FLR	FLOOR	PRTN PSF	PARTITION POUNDS PER SQUARE FOOT
FLUOR FND	FLOURESCENT FOUNDATION	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
FO	FOUNDATION FACE OF	PSL	PARALLEL STRAND LUMBER
FOC	FACE OF CONCRETE	PT	PRESSURE TREATED
FOF	FACE OF FINISH	PTD	PAINTED
0 \/-			

SYMBOLS

VIEW NUMBER	
20 View TITLE A-101 A-202 SCALE: 1/8" = 1'-0"	DESIGN
VIEW SHEET LOCATION REFERENCE SHEET LOCATION	ELEV I BU
O O NORTH ARROW GRID REFERENCE	DO
1 1 A101 A101 BUILDING ELEVATION SECTION REFERENCE	v
$4 \overbrace{A101}{1} 2 \overbrace{A101}{1} $	м
INTERIOR ELEVATIONS DETAIL REFERENCE	STO

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CENTERLINE

P1 MATERIAL TAG SM SQ SS Т T&G TEL THR TJI ТО W W/ W/D W/O WC WD WDW WH WI WIN WP WR WRB

LEVEL-LEVEL-EVATION

UILDING LEVELS

OOR W/CLOSER (101) DOOR TAG

WINDOW TAG

A4 WALL TAG

S OREFRONT TAG

PVC POLYVINYL CHLORIDE PVMT PAVEMENT QTY QUANTITY RADIUS, RISER RUBBER BASE RCP REFLECTED CEILING PLAN ROOF DRAIN REFRIGERATOR REINF REINFORCED REQD REQUIRED RIGHT HAND ROOM ROUGH OPENING RTU ROOF TOP UNIT (MECH) SOUTH SAFB SOUND ATTENUATION FIBER BATT SAWP SELF ADHEREING WATERPROOFING SC SCUPPER/SOLID CORE SCHED SCHEDULE SEAL SEALANT SECT SECTION SF SQUARE FOOT SHT SHEET SHTHG SHEATHING SIM SIMILAR SHEET METAL SPEC SPECIFICATION SQURE SOLID SURFACE SSTL STAINLESS STEEL STC SOUND TRANSMISSION CLASS STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURAL SUSP SUPSPENDED SV SHEET VINYL SYM SYMMETRICAL TREAD TONGUE & GROOVE TELEPHONE TEMP TEMPERED TER TERRAZZO THK THICK THRESHOLD TRUSS JOIST I-JOIST TOP OF TOS TOP OF SLAB TOW TOP OF WALL TRANS TRANSFORMER TV TELEVISION TYP TYPICAL UFAS UNIFORM FEDERAL ACCESSIBILITY STANDARDS UG UNDERGROUND UNFIN UNFINISHED UNO ULNESS NOTED OTHERWISE UV UTRAVIOLET VCT VINYL COMPOSITION TILE VERT VERTICAL VIF VERIFY IN FIELD VTR VENT TERMINATION PIPE VWC VINYL WALL COVERING WEST WITH WASHER DRYER WITHOUT WATERCLOSET WOOD WINDOW WATER HEATER WROUGHT IRON WINDOW WATERPROOF(ING) WEATHER RESISTIVE WATER RESISTIVE BARRIER WSCT WAINSCOT WT WEIGHT WWF WELDED WIRE FABRIC YD YARD

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> Ú PORTERVILLE,

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PROTOTYPE

ADU

PORTERVILLE

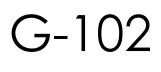
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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES (SHEET 1)

CHAPTER 1 - ADMINISTRATION

SECTION 101 GENERAL

101.1 TITLE.

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

101.2 PURPOSE

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

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

101.3 SCOPE.

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

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

SECTION 102 CONSTRUCTION **DOCUMENTS AND INSTALLATION** VERIFICATION

102.1 SUBMITTAL DOCUMENTS.

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

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

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS.

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

102.3 VERIFICATION.

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

CHAPTER 3 - GREEN BUILDING

SECTION 301 GENERAL

301.1 SCOPE.

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

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

NOTE: ON AND AFTER JANUARY 1, 2014, RESIDENTIAL BUILDINGS UNDERGOING PERMITTED ALTERATIONS, ADDITIONS OR IMPROVEMENTS SHALL REPLACE NONCOMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR FINAL PERMIT APPROVAL BY THE LOCAL BUILDING DEPARTMENT. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

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

SECTION 302 MIXED OCCUPANCY BUILDINGS

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

CHAPTER 4 - RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN 4.106 SITE DEVELOPMENT

4.106.1 GENERAL. PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS.

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

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

4.106.3 GRADING AND PAVING

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

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

DRAINAGE PATH. 4.106.4 ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION

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

EXCEPTIONS: ON A CASE-BY-CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:

1. WHERE THERE IS NO COMMERCIAL POWER SUPPLY. 2. WHERE THERE IS EVIDENCE SUBSTANTIATING THAT MEETING THE REQUIREMENTS WILL ALTER THE LOCAL UTILITY INFRANSTRUCTURE DESIGN REQUIREMENTS ON THE UTILITY SIDE OF THE METER SO AS TO INCREASE THE UTILITY SIDE COST TO THE HOMEOWNER OR THE DEVELOPER BY MORE THAN \$400.00 PER DWELLING UNIT.

4.106.4.1 NEW ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES

FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMTER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE.

4.106.4.1.1 IDENTIFICATION

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

4.106.4.2 NEW MULTIFAMILY DWELLINGS.

WHERE 17 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, 3 PERCENT OF THE TOTAL NUMBER OF PARKING SPACES PROVIDED FOR ALL TYPES OF PARKING FACILITIES, BUT IN NO CASE LESS THAN ONE, SHALL BE ELECTRIC VEHICLE CHARGING STATIONS (EV SPACES) CAPABLE OF SUPPORTING FUTURE EVSE. CALCULATIONS FOR THE NUMBER OF EV SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.

NOTE: CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR USE.

4.106.4.2.1 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) LOCATIONS. CONSTRUCTION DOCUMENTS SHALL INDICATE THE LOCATION OF PROPOSED EV SPACES. AT LEAST ONE EV SPACE SHALL BE LOCATED IN COMMON USE AREAS AND AVAILABLE FOR USE BY ALL RESIDENTS.

WHEN EV CHARGERS ARE INSTALLED, EV SPACES REQUIRED BY SECTION 4.106.2.2, ITEM 3, SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS:

- 1. THE EV SPACE SHALL BE LOCATED ADJACENT TO AN ACCESSIBLE PARKING SPACE MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, CHAPTER 11A, TO ALLOW USE OF THE EV CHARGER FROM THE ACCESSIBLE PARKING SPACE.
- 2. THE EV SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

4.106.4.2.2 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) DIMENSIONS. THE EV SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET. 2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET. 3. ONE IN EVERY 25 EV SPACES, BUT NOT LESS THAN ONE, SHALL ALSO HAVE AN 8-FOOT WIDE MINIMUM AISLE. A 5-FOOT WIDE MINIMUM AISLE SHALL BE PERMITTED PROVIDED THE MINIMUM WIDTH OF THE EV SPACE IS 12 FEET.

A. SURFACE SLOPE FOR THIS EV SPACE AND THE AISLE SHALL NOT EXCEED 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL (2.083 PERCENT SLOPE) IN ANY DIRECTION.

PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

4.106.4.2.3 SINGLE EV SPACE REQUIRED.

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

4.106.4.2.4 MULTIPLE EV SPACES REQUIRED.

CONSTRUCTION DOCUMENTS SHALL INDICATE THE RACEWAY TERMINATION POINT AND PROPOSED LOCATION OF FUTURE EV SPACES AND EV CHARGERS. CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMATION ON AMPERAGE OF FUTURE EVSE, RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL LOAD CALCULATIONS TO VERIFY THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMER(S). HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT THE FULL RATED AMPERAGE OF THE EVSE. PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BRANCH CIRCUIT. RACEWAYS AND RELATED COMPONENTS THAT ARE PLANNED TO BE INSTALLED UNDERGROUND. ENCLOSED. INACCESSIBLE OR IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT THE TIME OF ORIGINAL CONSTRUCTION.

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

NOTES:

- 1. THE CALIFORNIA DEPARTMENT OF TRANSPORTATION ADOPTS AND PUBLISHES THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD)" TO PROVIDE UNIFORM STANDARDS AND SPECIFICATIONS FOR ALL OFFICIAL TRAFFIC CONTROL DEVICES IN CALIFORNIA. ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS CAN BE FOUND IN THE NEW POLICIES & DIRECTIVES NUMBER 13-01. WEBSITE:
- HTTP://WWW.DOT.CA.GOV/TRAFFICOPS/POLICY/13-01.PDF 2. SEE VEHICLE CODE SECTION 22511 FOR EV CHARGING SPACE SIGNAGE IN OFF-STREET PARKING FACILITIES AND FOR USE OF EV CHARGING SPACES.
- 3. THE GOVERNOR'S OFFICE OF PLANNING AND RESEARCH (OPR) PUBLISHED A "ZERO-EMISSION VEHICLE COMMUNITY READINESS GUIDEBOOK" WHICH PROVIDES HELPFUL INFORMATION FOR LOCAL GOVERNMENTS, RESIDENTS AND BUSINESSES, WEBSITE: HTTP://OPR.CA.GOV/DOCS/ZEV_GUIDEBOOK.PDF.

4.106.4.3 NEW HOTELS AND MOTELS

ALL NEWLY CONSTRUCTED HOTELS AND MOTELS SHALL PROVIDE EV SPACES CAPABLE OF SUPPORTING FUTURE INSTALLATION OF EVSE. THE CONSTRUCTION DOCUMENTS SHALL IDENTITY THE LOCATION OF THE EV SPACES.

NOTES:

- 1. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY OR FACILITATING FUTURE EV CHARGING.
- 2. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR USE.

4.106.4.3.1 NUMBER OF REQUIRED EV SPACES THE NUMBER OF REQUIRED EV SPACES SHALL BE BASED ON THE TOTAL

NUMBER OF PARKING SPACES PROVIDED FOR ALL TYPES OF PARKING FACILITIES IN ACCORDANCE WITH TABLE 4.106.4.3.1.

CALCULATIONS FOR THE REQUIRED NUMBER OF EV SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.

TABLE 4.106.4.3.1

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED EV SPACES	
0-9	0	
10-25	1	
26-50	2	
51-75	4	
75-100	5	
101-150	7	
151-200	10	
201 AND OVER	6% OF TOTAL	

4.106.4.3.2 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) DIMENSIONS THE EV SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET. 2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET.

4.106.4.3.3 SINGLE EV SPACE REQUIRED WHEN A SINGLE EV SPACE IS REQUIRED, THE EV SPACE SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 4.106.4.2.3.

4.106.4.3.4 MULTIPLE EV SPACES REQUIRED

WHEN MULTIPLE EV SPACES ARE REQUIRED, THE EV SPACES SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 4.106.4.2.4

4.106.4.3.5 IDENTIFICATION.

THE SERVICE PANELS OR SUB-PANELS SHALL BE IDENTIFIED IN ACCORDANCE WITH SECTION 4.106.4.2.5.

4.106.4.3.6 ACCESSIBLE EV SPACES.

IN ADDITION TO THE REQUIREMENTS IN SECTION 4.106.4.3, EV SPACES FOR HOTELS/MOTELS AND ALL EVSE, WHEN INSTALLED, SHALL COMPLY WITH THE ACCESSIBILITY PROVISIONS FOR THE EV CHARGING STATIONS IN THE CALIFORNIA BUILDING CODE, CHAPTER 11B.

NOTES:

- 1. THE CALIFORNIA DEPARTMENT OF TRANSPORTATION ADOPTS AND PUBLISHES THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES (CALIFORNIA MUTCD)" TO PROVIDE UNIFORM STANDARDS AND SPECIFICATIONS FOR ALL OFFICIAL TRAFFIC CONTROL DEVISES IN CALIFORNIA. ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS CAN BE FOUND IN THE NEW POLICIES & DIRECTIVES NUMBER 13.01. WEBSITE: HTTP://WWW. DOT. CA .GOV/TRAFFICOPS/POLICY/HTML
- 2. SEE VEHICLE CODE SECTION 22511 FOR EV CHARGING SPACE SIGNAGE IN OFF-STREET PARKING FACILITIES AND FOR USE OF EV CHARGING SPACES.
- 3. THE GOVERNOR'S OFFICE OF PLANNING AND RESEARCH (OPR) PUBLISHED A "ZERO-EMISSION VEHICLE COMMUNITY READINESS GUIDEBOOK" WHICH PROVIDES HELPFUL INFORMATION FOR LOCAL GOVERNMENTS, RESIDENTS AND BUSINESSES. WEBSITE: HTTPS://OPR.CA.GOV/DOCS/ZEV GUIDEBOOK.PDF.
- 4. THE GOVERNOR'S LNTERAGENCY WORKING GROUP ON ZERO-EMISSION VEHICLES. 2016, "2016 ZEV ACTION PLAN, AN UPDATED ROADMAP TOWARD 1.5 MILLION ZERO-EMISSION VEHIDES ON CALIFORNIA ROADWAYS BY 2025." HTTPS://WWW.GOV.CA.GOV/DOCS/2016_ZEV_ACTION_PLAN.PDF.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE.

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

DIVISION 4.3 WATER EFFICIENCY ANI CONSERVATION

4.303 INDOOR WATER USE

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

- 4.303.1.1 WATER CLOSETS
- THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL N EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS S BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILET. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

4.303.1.2 URINALS

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

4.303.1.3 SHOWERHEADS

- 4.303.1.3.1 SINGLE SHOWERHEAD SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT THAN 2.0 GALLONS PER MINUTE AT 80M PSI. SHOWERHEADS SH BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. E WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- 4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHE THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR O SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL N EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET T IN OPERATION AT A TIME.

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

4.303.1.4 FAUCETS

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

- 4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE ARE THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OF SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCE 0.5 GALLONS PER MINUTE AT 60 PSI.
- 4.303.1.4.3 METERING FAUCETS METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDIN
- SHALL NOT DELIVER MORE THAN 0.25 GALLONS PER CYCLE.
- 4.303.1.4.4 KITCHEN FAUCETS
- THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCET TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RAT BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MIN AT 60 PSI.
- NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERA OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.
- 4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS

PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDA WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLIC STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUME CODE.

NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1 AND IS INCLUDED A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE

FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 F MIN. 0.8 GPM @ 20 F
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.25 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS AFTER DECMEBER 1, 2015, NEW RESIDENTIAL DEVELOPMENTS WITH A AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQU

- FEET SHALL COMPLY WITH ONE OF THE FOLLOWING OPTIONS: 1. A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO)
- WHICHEVER IS MORE STRINGENT; OR 2. PROJECTS WITH AGGREGATE LANDSCAPE AREAS LESS THAN 2 SQUARE FEET MAY COMPLY WITH THE MWELO'S APPENDIX D PRESCRIPTIVE COMPLIANCE OPTION.
- NOTES: 1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL AND SUPPORTING DOCUMENTS ARE AVAILABLE AT: HTTP://WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/LANDSCA DINANCE/
- 2. A WATER BUDGETY CALCULATOR IS AVAILABLE AT: HTTP://WWW.WATER.CA.GOV/WATERUSEEFFICIENCY/LANDSCA DINANCE/

	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		
	4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE		
I THIS	4.406.1 RODENT PROOFING ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE		
ר	PROTECTED AGAINST THE PASSAGE OF RODENTS BY LCOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.		TH O
	4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING		AI PL CI AI
	4.408.1 CONSTRUCTION WASTE MANAGEMENT RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE		Al
G: OT	NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3, OR 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.		TH BE C(
SHALL	EXCEPTIONS:		EX PL
	 EXCAVATED SOIL AND LAND-CLEARING DEBRIS. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST OR ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE. THE ENFORCING AGENCY MAY MAKE ACCEPTIONS TO THE 		RE C C PF DI
LL	REQUIREMENTS OF THIS SECTION WHEN ISOLATED JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE		W IN
S PER	DIVERSION FACILITY.		
	4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN IN COMFORMANCE WITH ITEMS 1 THROUGH 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN		
MORE HALL PA AD,	 SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY. 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED 		
THER OT	(SINGLE STREAM).3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.		
O BE	 IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH. 		
	4.408.3 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE		
TS IALL	PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1.		
AS IN	NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.		
R EED	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF		
NGS	CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED 3.4 POUNDS PER SQUARE FOOT OF THE BUILDING AREA SHALL MEET THE MINIMUM 65 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.		
	4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF		
TS MAY ITE, MUST IUTE	CONSTRUCTION AND DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED 2 POUNDS PER SQUARE FOOT OF THE BUILDING AREA, SHALL MEET THE MINIMUM 65-PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.		
TORS	4.408.5 DOCUMENTATION DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 4.408.2, ITEMS 1 THOUGH 5, SECTION 4.408.3 OR SECTION 4.408.4		
NCE ABLE BING	 NOTES: 1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (RESIDENTIAL)" LOCATED AT WWW.HCD.CA.GOV/CALGREEN.HTML MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THIS SECTION. 2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYCLE). 		
AS A			
	4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL		
1	AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:		
	 DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE. 		
	 OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING: a. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING 		
	 DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT. b. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS. c. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND 		
N	AIR FILTERS. d. LANDSCAPE IRRIGATION SYSTEMS. e. WATER REUSE SYSTEMS.		
JARE	 INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN TUE ADDR 		
2,500	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.		
LO)	 INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER. 		
APEOR	 INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION. 		
APEOR	 INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC. 	SET	D
	 INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE. 		S
	10. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.	PUBLIC	5
		PU	

HESE PLANS ARE PROVIDED BY THE CITY OF PORTERVILLE AS PART OF THE PRE-PPROVED ADU PROGRAM AND ARE UBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO LTERATIONS TO THESE PLANS ARE LLOWED. ALL ALTERATIONS MUST BE ONE UNDER A SEPARATE PERMIT ONCE HE BUILDING PERMIT FOR THE ADU HAS EEN ISSUED AND FINAL INSPECTION COMPLETED IF YOU DO NOT HAVE THE ONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONSTRUCT THESE LANS WITHOUT FURTHER DETAILS, IT IS ECOMMENDED YOU HIRE A ONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT ROVIDE FURTHER INFORMATION OR ETAILS, AND BUILDING INSPECTORS VILL NOT PROVIDE STEP BY STEP NSTRUCTIONS IN THE FIELD.

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DATE 07/05/23

HEET

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES (SHEET 2)

4.410.2 RECYCLING BY OCCUPANTS.

WHERE 5 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, PROVIDE READILY ACCESSIBLE AREA(S) THAT SERVES ALL BUILDINGS ON THE SITE AND IS IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS, OR MEEL A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

EXCEPTION: RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBLIC RESOURCES CODE SECTION 42649.82 (A)(2)(A) ET SEQ. ARE NOT REQUIRED TO COMPLY WITH THE ORGANIC WASTE PORTION OF THIS SECTION.

DIVISION 4.5 ENVIROMENTAL QUALITY

4.501 GENERAL 4.501.1 SCOPE

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

4.503 FIREPLACES

4.503.1 GENERAL ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE. AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

4.504 POLLUTANT CONTROL

4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION AT THE TIME OF ROUGH INSTALLATION. DURING STORAGE ON THE

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

4.504.2 FINISH MATERIAL POLLUTANT CONTROL FINISH MATERIALS SHALL COMPLY WITH THIS SECTION.

4.504.2.1 ADHESIVES, SEALANTS AND CAULKS

ADHESIVES. SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY: 1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS,

- SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4,504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE METHYLENE CHLORIDE. PERCHLOROETHYLENE ANI TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW.
- 2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF **REGULATIONS. TITLE 17. COMMENCING WITH SECTION 94507.**

4.504.2.2 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4,504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

4.504.2.3 AEROSOL PAINTS AND COATINGS

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

4.504.2.4 VERIFICATION

- VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
 - 1. MANUFACTURER'S PRODUCT SPECIFICATION. 2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

4.504.3 CARPET SYSTEMS

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING: . CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.

- 2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING
- ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.) 3. NSF/ANSI 140 AT THE GOLD LEVEL.
- 4. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE™ GOLD.

4.504.3.1 CARPET CUSHION ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. UNDEFINED

4.504.3.2 CARPET ADHESIVE

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4 504 1

4.504.4 RESILIENT FLOORING SYSTEMS

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING

- 1. PRODUCTS COMPLIANT WITH 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 1.1. FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350). CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
- 2. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM). 3. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE
- (RFCI) FLOORSCORE PROGRAM. 4. MEET 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 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

4.504.5 COMPOSITE WOOD PRODUCTS

HARDWOOD PLYWOOD. PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.), 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
- PRODUCT CERTIFICATIONS AND SPECIFICATIONS. 2. CHAIN OF CUSTODY CERTIFICATIONS. 3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
- 4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 3S, AND CANADIAN CSA O121, CSA O151, CSA O153 AND CSA O325 STANDARDS
- 5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

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

ARCHITECTURAL APPLICATIONS	CURRENT
INDOOR CARPET ADHESIVES	5
CARPET PAD ADHESIVES	5
OUTDOOR CARPET ADHESIVES	1:
WOOD FLOORING ADHESIVES	1(
RUBBER FLOORING ADHESIVES	6
SUBFLOOR ADHESIVES	5
CERAMIC TILE ADHESIVES	6
VCT AND ASPHALT TILE ADHESIVES	5
DRYWALL AND PANEL ADHESIVES	5
COVE BASE ADHESIVES	5
MULTIPURPOSE CONSTRUCTION ADHESIVES	7
STRUCTURAL GLAZING ADHESIVES	1(
SINGLE-PLY ROOF MEMBRANE ADHESIVES	25
OTHER ADHESIVES NOT SPECIFICALLY LISTED	5
SPECIALTY APPLICATIONS	CURRENT
PVC WELDING	5
CPVC WELDING	49
ABD WELDING	32
PLASTIC CEMENT WELDING	2
ADHESIVE PRIMER FOR PLASTIC	55
CONTACT ADHESIVE	8
SPECIAL PURPOSE CONTACT ADHESIVE	2
STRUCTURAL WOOD MEMBER ADHESIVE	14
TOP AND TRIM ADHESIVES	2:
SUBSTRATE SPECIFIC APPLICATIONS	CURRENT
METAL TO METAL	3
PLASTIC FOAMS	5
POROUS MATERIAL (EXCEPT WOOD)	5
WOOD	3
FIBERGLASS	8

. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRAT TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CON BE ALLOWED. 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 4.504.1 - SEALANT VOC LIMIT	
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PE	R LITER)
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	CURRENT VOC LIMIT
ARCHITECTURAL	
NONPOROUS	250
POROUS	250
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

VOC LIMIT	
0	
0	
50	
00	
0	
0	
5 0	
0	
0	
0	
00	
50	
0	
VOC LIMIT	
10	
90	
25	
50 50	
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50	
10	
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0	

80	
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TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL	L COATINGS ^{2, 3}

COATING CATEGORY	CURRENT VOC LIMI
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	CURRENT VOC LIMIT
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
DUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS ¹	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND JNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND

INCLUDING EXEMPT COMPOUNDS. THE SPECIFIED LIMITS REMAIN IN EFFECT ENLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES

TABLE 4.504.5 - FORMALDEHYDE LIMITS¹

BOARD.

PRODUC

PRODUCI	
HARDWOOD PLYWOOD VENEER CORE	
HARDWOOD PLYWOOD COMPOSITE CORE	
PARTICLEBOARD	
MEDIUM DENSITY FIBERBOARD	
THIN MEDIUM DENSITY FIBERBOARD ²	

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

CURRENT LIMIT

0.05

0.05

0.09

0.11

0.13

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

DIVISION 4.5 ENVIORNMENTAL QUALITY CONTINUED

4.505 INTERIOR MOISTURE CONTROL

4.505.1 SCOPE

- THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.
- 4.505.2 CONCRETE SLAB FOUNDATIONS
- CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA BUILDING CODE CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA RESIDENTIAL CODE, CHAPTER 5, SHALL ALSO COMPLY WITH THIS SECTION.

4.505.2.1 CAPILLARY BREAK

- A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:
- 1. A 4-INCH-THICK (101.6 MM) BASE OF 1/2 INCH (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION. SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06
- 2. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
- 3. A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL

4.505.3 MOISTURE CONTENT OF A BUILDING

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19-PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:

- 1. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE.
- 2. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET (610 MM) TO 4 FEET (1219 MM) FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
- 3. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

4.506 INDOOR AIR QUALITY AND EXHAUST

4.506.1 BATHROOM EXHAUST FANS

EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING: 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO

- TERMINATE OUTSIDE THE BUILDING. 2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM. FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL
- a. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
- b. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN). NOTES
- 1. FOR THE PURPOSES OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER, OR TUB/ SHOWER COMBINATION
- 2. LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

4.507 ENVIROMENTAL COMFORT

4.507.1 RESERVED

- 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN
- HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS: 1. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J-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 SYSTEMS FUNCTION ARE ACCEPTABLE.

CHAPTER 7 - INSTALLER & **SPECIAL INSPECTOR** QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- STATE CERTIFIED APPRENTICESHIP PROGRAMS 2. PUBLIC UTILITY TRAINING PROGRAMS.
- TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
- 4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

702.2 SPECIAL INSPECTION [HCD]

WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE ENFORCING AGENCY WHEN EVALUATING THE QUALIFICATIONS OF A SPECIAL INSPECTOR:

- 1. CERTIFICATION BY A NATIONAL OR REGIONAL GREEN BUILDING PROGRAM OR STANDARD PUBLISHER. 2. CERTIFICATION BY A STATEWIDE ENERGY CONSULTING OR
- VERIFICATION ORGANIZATION, SUCH AS HERS RATERS, BUILDING PERFORMANCE CONTRACTORS, AND HOME ENERGY AUDITORS. 3. SUCCESSFUL COMPLETION OF A THIRD PARTY APPRENTICE TRAINING
- PROGRAM IN THE APPROPRIATE TRADE. 4. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.
- NOTES: 1. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE
- INSPECTING FOR COMPLIANCE WITH THIS CODE. 2. HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS)

[BSC] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE, NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY, THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

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.



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

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BUILDING ENERGY ANALYSIS REPORT	PROJECT:	Porterville ADU (Plan 1)	Porterville, CA	Project Designer:	3765 South Higuera St. Suite 102	San Luis Obispo, CA 93401 (805) 543-1794	Report Prepared by:	Timothy Carstairs, CEA, HERS, GPR	Carstairs Energy Inc. 2238 Bayview Heights Drive Suite E	Los Osos, CA 93402 805-904-9048		CARSTAIRS EN ER GY	Ich Nimbor		22-020123	Date:	5/12/2023		The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.	This program developed by Energy/Soft, LLC – www.energy/soft.com.
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Form MF1R Mandatory Measures Summary	16	
Room Load Summary	21	

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Porterville ADU (Plan 1) Calculation Description: Title 24 Analysis

ENERGY USE SUMMARY Proposed Design Source Proposed Design TDV Energy Compliance Standard Design TDV Energy Standard Design Source Compliance Energy Use Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) Space Heating 2.76 18.76 3.07 23.79 -0.31 -5.03 Space Cooling 3.44 68.4 2.71 56.68 0.73 11.72 IAQ Ventilation 0.47 5.01 0.47 5.01 O 0 43.75 26.32 1.82 Water Heating 4.25 2.43 17.43 Self 0 Utilization/Flexibility 0 Credit North Facing **Efficiency Complianc** 10.92 135.92 8.58 111.8 2.24 24.12 Total 100 Space Heating 18.76 22.89 -0.23 -4.13 2.76 2.99 3.44 68.4 2.79 58.5 0.65 9.9 Space Cooling 0.47 0.47 5.01 5.01 IAQ Ventilation D 0 43.75 26.28 1.82 17.47 Water Heating 4.25 2.43 Self Utilization/Flexibility 0 0 Credit East Facing Efficiency 135.92 8.68 112.68 2.24 23.24 10.92 Compliance Total

Calculation Date/Time: 2023-05-12T08:41:49-07:00

Input File Name: Porterville ADU (Plan 1) 2022.ribd22x

Registration Number: 223-P010056067A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-05-12 10:33:58 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc.

Report Generated: 2023-05-12 08:42:52

CF1R-PRF-01E

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2023-05-12T08:41:49-07:00 Project Name: Porterville ADU (Plan 1) (Page 6 of 12) Calculation Description: Title 24 Analysis Input File Name: Porterville ADU (Plan 1) 2022.ribd22x REQUIRED PV SYSTEMS 01 02 03 04 05 07 08 09 11 12 Array Angle Tilt: (x in Inverter Eff. Solar Access Azimuth (deg) Tilt DC System Size Exception Module Type Array Type Power Electronics Input 12) (kWdc) (deg) (%) (96) 0 Standard (14-17%) Fixed none n/a n/a n/a n/a n/a

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. PV exception 2: No PV required when minimum PV size (Section 150.1(c)14) < 1.8 kWdc (0 kW) Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry concentro, inc. Quality insulation installation (QII) HERS PROVIDER Indoor air quality ventilation Kitchen range hood Verified Refrigerant Charge Airflow in habitable rooms (SC3.1.4.1.7) Verified heat pump rated heating capacity Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5) Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8) BUILDING - FEATURES INFORMATION 01 02 03 04 05 06 Number of Dwelling Number of Ventilation Project Name Number of Bedrooms Number of Zones Conditioned Floor Area (ft²) Units Cooling Systems Porterville ADU (Plan 1) 480 1 1 0

Registration Number:

223-P010058067A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

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07

Number of Water

Heating Systems

1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Porterville ADU (Plan 1) Calculation Description: Title 24 Analysis

SENERAL INF	FORMATION				
01	Project Name	Porterville ADU (Plan 1)			
02	Run Title	Title 24 Analysis			
03	Project Location	-			
04	City	Porterville	05	Standards Version	2022
06	Zip code		07	Software Version	EnergyPro 9.1
08	Climate Zone	13	09	Front Orientation (deg/ Cardinal)	All orientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0,3 ₂
18	Total Cond. Floor Area (ft ²)	480	19	Glazing Percentage (%)	14.00%
20	ADU Bedroom Count	n/a			
				N DC	
OMPLIANCE	E RESULTS			1	
01	Building Complies with Computer	Performance H F R C	PRO	DVIDER	
02	This building incorporates feature	s that require field testing and/or verific	ation by a cer	tified HERS rater under the supervision of a	CEC-approved HERS provider.
03	This building incorporates one or	more Special Features shown below			

Registration Number: 68067A-000-000-000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Porterville ADU (Plan 1) Calculation Description: Title 24 Analysis

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	2.76	18.76	2.93	22.48	-0.17	-3.72
Space Cooling	3.44	68.4	2.78	58.95	0.66	9.45
IAQ Ventilation	0.47	5.01	0.47	5.01	0	D
Water Heating	4.25	43.75	2.42	26.27	1.83	17.48
Self Utilization/Flexibility Credit	Å			0		0
South Facing Efficiency Compliance Total	10.92	135.92	8.6	112.71	2.32	23.21
Space Heating	2.76	18.76	3.04	23.64	-0.28	-4.88
Space Cooling	3,44	H 68.4 R S	P B 287 V L	DE 61.44	0.57	6.96
IAQ Ventilation	0.47	5.01	0.47	5.01	0	0
Water Heating	4.25	43.75	2:43	26.3	1.82	17.45
Self Utilization/Flexibility Credit				0		D
West Facing Efficiency Compliance Total	10.92	135.92	8.81	116.39	2.11	19.53

Registration Number: 223-P010056067A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFOR Project Name: Porterville ADU (Plan 1) Calculation Description: Title 24 Analysis

ZONE INFORMATI	ON									111			
01	1	02	3	03	1	0	4		05	1	06		07
Zone Nam	e	Zone Type	HVAC	System Nam	ne j	Zone Floo	Area (ft	2)	Avg. Ceiling H	leight	Water Heating	System 1	Status
Living Are:	a	Conditioned	HV	AC System1		48	0		8		DHW Sy:	1	New
OPAQUE SURFACE	s		200 Ci		-			14	1.0	3.4	20	94. 	
01	1	02	0	3	T	04	1	05		06	1 8	07	08
Name		Zone	Constr	uction	A	timuth	0	ientation	Gros	s Area (ft ²)	10 IV10	r and Door a (ft2)	Tilt (deg)
Front Wall	12	Living Area	R-21	Wall		0	1	Front		192	8	52	90
Left Wall	28	Living Area	R-21	Wall	1	90		Left		160	28 8	20	90
Rear Wall	100	Living Area	R-21	Wall		180	1	Back		192		9	90
Right Wall		Living Area	R-21	Wall	-	270	1	Right		160		6	90
Roof	- 28-	Living Area	R-38 Ro	of Attic	1	n/a	D	n/a		480	- 1 - 3	n/a	n/a
arme			-		1	-	1		, 11	1	-		
ATTIC			0	HE	85	04 P	R	05 V	10	06	T C		
01	-	02	1.72		-	0.200		10.00		1240		07	08
Name		Construction	Ту		Roof K	Roof Rise (x in 12)		Reflectan	ce Kool	Emittance	CH	t Barrier	Cool Roof
Attic Living Are	ea Attic	RoofLiving Area	Venti	lated	<u> </u>	4	_	0.1	_	0.85		Yes	No
FENESTRATION / G	GLAZING	())	19. 0			705		,	1		10	92	w
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-facto Source	SHGC	SHGC Source	Exterior Shading
1	Window	Front Wall	Front	0			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
2	Window	Front Wall	Front	Front 0			1	16	0.3 NFR		0.23	NFRC	Bug Screen
5	Window	Left Wall	Left	90			1	20	0.3	NFRC	0.23	NFRC	Bug Screen

Registration Number:

223-P010056067A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

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HERS Provider:

Report Generated: 2023-05-12 08:42:52

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RMANCE	COMPLIANCE	METHOD	

Calculation Date/Time: 2023-05-12T08:41:49-07:00 Input File Name: Porterville ADU (Plan 1) 2022.ribd22x CF1R-PRF-01E (Page 7 of 12)

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

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DATE 07/05/23

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ENESTRATION /	GLATING	Title 24	'lan 1} Analys					-				te/Time: e: Porter						×				Page
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Name	Type	3	Surfa	ce	Ori	entation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-fac	tor	U-fac Sour	1700	SH	GC	SH	GC Sol	irce	Ext	erior
4	Window	~	Rear V	Vall	-	Back	180	114	1.4	1	(tt*) 9	0.3		NFR		0.	23	-	NFRC		8	Bug Sc
3	Window		Right V	100		Right	270			1	6	0.3	-+	NFR	8	- 23	23		NFRC	-	-	Bug So
PAQUE DOORS																						
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LAB FLOORS		-	-	-			_									-						
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OPAQUE SURFAG		UCTIONS														A						
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Construction	Name	Surf	ace Ty	pe	6	onstructio	n Type	F	raming		Total Ca R-val	ivity	Contin	20205		actor			Asse	mbly	Laye	rs
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R-21 Wa	а	Exte	rior Wa	lls	w	ood Frame	ed Wall	2x6 @	16 in. O.	C.	R-2	6 D	None /	None	0.	069		Ca	vity / F	rame	R-21	/ 2x6
	-	-			+	10074020	20102				-				1		R	oofing	: Light			
Attic RoofLivin	ng Area	Att	ic Roof	5		Wood Fra Ceiling	10 a 20 million and 10 mi	2x4 @	24 in. O.	с.	R-0	ŝ	None	2/0	0.	644			ting/sh		ng/de	ecking
8 50 10 38	18	_					-		925-0167 P		ža.				- 25	10.02	<u> </u>	Cavi	ty / Fra	nie, i	10 1015	un, y 2
ERTIFICATE OI roject Name: alculation Des ARIABLE CAPAG	Porterville scription: 1	ADU (P Title 24	'lan 1) Analys	sās					ETHOD			te/Time: e: Porter						×			1100	F1R-F age 1
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Na	ime		Low	tified Stati	C	Airflow Habitab Rooms	le in C	tless Units Inditioned Space	Wall	Mount mostat	&	er Sizing Pressure Rating	Du	Leakag icts in litione		Airflo	mum w per 3 and	no	Certif n-cont Far	inuou	s	door Run Contin
Heat Pum	p System 1	-	Not n	38	_	Require		equired	Rec	uired		squired	- 22	pace require	-	2.00.10	.3.4.1 quired		lot req		-	Vot re
			2003.0	edaili		mquie		equireu		ten ca	0.0010	danen	09949	and enter		Gere	dairea	-U.*			100	ior re-
NDOOR AIR QU	ALITY (IAQ)	02	_		03		04		8	05	T	06	Т		07		<u> </u>	08	3	T		09
Dwelling Unit	t Air	flow (CF		12	Fan Eff	icacy	IAQ Far	Tune		ludes /Energy		Q Recove		Inclu	ides Fai	ult	-	DC Mar	ificatio			Statu
owening one		nom fei			(w/c	FM)	in the first			overy?	Effec	tiveness -	SRE	Indica	or Disp	lay?			incortio	<u> </u>		51010
SFam IAQVentR	lpt	29			0.3	5	Exha	ust		No	1	n/a		_	No			Ye	5			
	223-P	01008806 Cy Standa					liance		1214000	ation Date Version: 2	2023	3-05-12 10:	\$3:58				RS Pro		ed: 20.	23-05	-12 (CarC 38:42:
CA Building Ene	223-P4	cy Standa	ards - 2	022 F	tesider	itial Comp	age s	wall certing. Inch wood	Report Schema	Version: a Version:	202: 2022.0.00 rev 2022	0 0901		fithe frebox.	uare inches in		port Gr	enerat				08:42:
	As 1011US 21/440-2011. * * * * * * * * * * * * * * * * * *	and/or weather-stripped. Standor weather-stripped.	rers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household		abeled per §10-113 when the installation of a cool roof is specified	itial Comp	average U-factor not exceeding U-0.184. Celing and rafter roofs minimum R-22 insulation in wood-frame celling; or area-weighted average U-factor not exceed 0.043. Rafter roof afterations 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 gasiveted to prevert air leakage. Insulation must be installed in direct contact with a roof or celing which is sealed to firmt infiltration and excittation.	as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall celling. Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value. 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	Report	ollowing: have a water absorption rate, for the insuration material alone or permeance no greater than 2.0 perm per inch, be protected from s part of a heated stab floor, meet the requirements of \$ 110.8(g).	202: 2022.0.00 rev 2022	Retarder. In dimate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of ation. In all exterior walls, vented attics, and unvented attics with ar-permeable insulation.		Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor freplaces. Closable Doors. Masonry or factory-built freplaces must have a closable metal or glass door covering the entire opening of the frebox.	Combustion Intrake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least aix square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.	places must have a flue damper with a readily accessible control.*	riteads, faucets, and all other	enerat	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heal pumps with supplementary electric resistance is heat pump alone;		Thermostats. All heating or cooking systems not controlled by a central energy management control system (EMCS) must have a settack thermostat.	service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank

024 desk

Project Name: Porterville ADU (Plan 1) Calculation Description: Title 24 Analysis DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. **Timothy Carstairs** Carstairs Energy Inc. 2238 Bayview Heights Drive, Suite E City/State/Zip: Los Osos, CA 93402 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, Randy Russom RRM Design Group 3765 S. Higuera Street, Suite 102 City/State/Zip: San Luis Obispo, CA 94301

ocumentation Author Name:

sponsible Designer Name:

Registration Number:

Registration Provider responsibility for the accuracy of the information.

CA Building Energy Efficiency Standards - 2022 Residential Compliance

223-P010058067A-000-000-0000000-0000

roject Name: Port	erville ADU (Pla	n 1)				Calculati	on Date/	fime: 202	3-05-12T08	:41:49	07:00	(Page 9 of 1
alculation Descrip		nalysis				Input File	e Name: F	orterville	ADU (Plan	1) 2022	2.ribd22x	
PAQUE SURFACE CO	INSTRUCTIONS											27.002
01	0	2	03		04	6	05	1	06	07		08
Construction Nam	e Surfac	e Type Constru	tion Type	Ē	raming	,	Total Cavit R-value	Con	r / Exterior tinuous value	U-fact	or Asser	mbly Layers
R-38 Roof Attic	Ceilings att		Framed iling	2x4 @	9 24 in. O. C	2	R-38	Non	e / None	0.025	G Cavity / Fr	Joists: R-28.9 insul. ame: R-9.1 / 2x4 h: Gypsum Board
UILDING ENVELOPE	- HERS VERIFICAT	ION	2013	~				10				
01	i	02			0	3			04			05
Quality Insulation Ir	nstallation (QII)	High R-value Spray F	oam Insulatio	n Buik	ding Envelo	ipe Air Lea	kage		CFM50	9		CFM50
Require	ed	Not Requ	red		N,	/Α			n/a			n/a
VATER HEATING SYS	TEMS		-	10	-	~	-		8073 - V			- 07
01	02	03	12	04	- o	5	5	06	0	7	08	09
Name	System Type	Distribution Typ	e Water He	ater Name	Number	of Units		Heating stem	Com Distrit	pact oution	HERS Verification	n Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW	Heater 1	, i	L.	2	n/a	No	ne	n/a	DHW Heater 1 (1
VATER HEATERS - NE	EA HEAT PUMP		lanan Maran									
01	02	0	i l	04	8		05	1	06	T	07	08
Name	# of Un	its Tank V	l. (gal)	NEEA Heal Bran	201001001	10070025	Heat Pump Nodel	Т	ink Location	1	Duct Inlet Air Source	Duct Outlet Air Sour
DHW Heater 1	1	5	1	Rhee	m	RheemX	ESOT10H22 0	:u	Outside		Living Area	Living Area

Registration Number: 223-P010058067A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Date/Time: 2023-05-12 10:33:58 Report Version: 2022.0.000 Schema Version: rev 20220901

cumentation Author Signature:

CEA/ HERS Certification Identification (If applicable)

Responsible Designer Signature: RRA

2023-05-12 10:29:58

2023-05-12 10:33:58

Phone: 805-543-1794

Registration Date/Time: 2023-05-12 10:33:58

Report Version: 2022.0.000 Schema Version: rev 20220901

ignature Date:

r160610042

805-904-9048

2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

License: na

1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.

calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

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

Calculation Date/Time: 2023-05-12T08:41:49-07:00

Input File Name: Porterville ADU (Plan 1) 2022.ribd22x

Timothy Carstairs

HERS Provider: CalCERTS inc. Report Generated: 2023-05-12 08:42:52

CF1R-PRF-01E

(Page 12 of 12)

)		RESIDENTIAL MEASURES SUMMARY	ASURES SUMMAF			RMS-1	200		HVA		HVA	j.
	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	Project Name Porterville ADU (Plan 1)	Building Type	Type Z Single Family Z Addition Alone Multi Family Existing+ Addition/Atteration	on Alone ng+ Addition/Alteration	and the second			Heat F Syste	Nər	VC - HE	Nar IVAC S
§ 150.0(m)13.	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 handiens and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal	Project Address Porterville	Californ	California Energy Camate Zone 13 Total Cond CA Climate Zone 13 4	Total Cond. Floor Area Addition 480 n/a	-	on Nun ng Ener	(25)	1.000	me	AT PUN	ystern1
	cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field venfication testing is required in accordance with Reference Residential Appendix RA3.3.*	1 V		Area			2	m	P5 - HI		MPS	
		nstrt	Cavity	#	eatures	Status		3450	0.25	5ys	_	В
have an other states			R 21	617		Mew		- aurore	212-104	stem	02	eat p
Venuence and	vermation and income Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2,	Door Upague Loor Rood Mond Fransol Amin	0-H 85 G	780		Maw	1000	2 Airfle quire	uctles FICAT	Туре		oump cooli
tiplyingt &	Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.*					New			20		-	
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlens is not allowed to provide the whole- dwelling unit ventilation airflow required per §150.0(o)10. 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 andcontrolled per §150.0(o)188i&N. 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)10.						0-000-0000000-0 2022 Resident	03 Airflow T	1	Number of Units	03	Heat Pump
\$ 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(c)1Ci-ii.	E	Total Area:	tage: 14.0 %	New/Attered Average U-Factor	0.30		arget	HSP	Efficie Typ	04	it Name System
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust, nonenclosed kitchens must have demand- controlled avhave teretion monitor row incomote of \$150.0001 Git and contract inchance and hathroome can use domand-controlled or	Front (N) 32.0	0.300 0.23	Aone none NVA	N/A	New	liance		F		-	
	contracted entrance entrance or proceeding second or proceeding on the installer per §150.0(o)1Gv, and rated for sound per 6450 0001Cs of and rated for sound per		0.300 0.23	avou		New		04 fied El ot Rec	8.	1. 3	05	Cou 1
\$ 150.0(o)1H&L			0.23	anon		New		ER/E	2	Heati MF / F2 /	s	int
	be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/gritles 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 aerdow rate contract to 8150.01010	Right (M) 6.0	0.300 0.23 n	none none N/A		New			1200	1940	06	ŀ
§ 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 venified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow notes and sound reminements per 8150.0014G.						Registration I Report Versio Schema Versi	05 Verified SEER/SEER Not Require	0 8000	TP P	07	Heat Pump Sy: 1
Pool and Spa 5	Pool and Spa Systems and Equipment:	10.				34	n: 20	2-1	E	Ef	-	tem
§ 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 of the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not		8				2023-05 122.0.000	Verified Ci	ERSEER	EX.	08	
§ 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, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.							06 Refrig narge Yes	14	SEER SEER	09	ount 1
§ 110.4(b)2:	Covers. Outdoor pools or spes that have a heat pump or gas heater must have a cover.	C					\$3:58	erant		7	1	
§ 110,4(b)3:	Directional finiets and Time Switches for Pools. Pools must have directional infets 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.	Oty. Heating		100	Thermostat	Status			11.	EER	10	t
§ 110.5:	Pliot Light. Natural gas pool and spa heaters must not have a continuously burning pliot light.	5 Electric Heat Pump	8.20 HSPF Spit H	Split Heat Pump 14.0 SEER	Setback	Mew			7	1		į,
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, fitters, and valves.					00		07 erified F/HSP No	Not		_	n/a
Lighting:		STRIBUTIO			Duct				Zona	nally trolle	11	
\$ 110.9	Lighting Controls and Components. All lighting control devices and systems, baliasts, and luminaires must meet the applicable	2005			R-Value	Status					T	t
§ 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 toor openers, navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and line down with na national nationa	HVAC System Lou	Luchess / With Fain Luchess	2 V/3	04	Maw	Provider: Generati	08 Verified H Cap Yes	Single Speed	Compress Type	12	n/a
§ 150.0(k)1B:	Ausses mut attrantacy or a reast to furner to pat wait. Screw based luminaires. Screw based huminaires must contain lamos that comply with Reference, joint Appendix JAB	WATER HEATING					ed: 2	leati 47		or	Ť	i.
\$ 150.0001C	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight,	Qty. Type	Gallons	Min. Eff Distribution		Status	023-4	ing				
§ 150.0(k)1D:	and must be sealed with a gasket or caulk. California Electricial Code § 410.115 must also be met. Light Sources in Enclosed or Recessed Luminatires. Lamps and other separable light sources that are not compliant with the JAB elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminatives.		50	3.20 Standard		New	05-12 (Verit		IERS Ve		
§ 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 power low uptrane when when enserved control	-0	il.				CalCEF 08:42:52	09 fied Hea Cap 17 Yes	np Syste htpump	rificatio	3	mostat ' Setback
§ 150.0(k)1F.	Lighting integral to Exhaust Fams. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must mean the applicable requirements of \$ 150 0kt.	EnergyPro 9.1 by EnergySoft	User Number: 6249	Q	ID: 22-020123	Page 15 of 21		ting		n	T	Type

			Easy N at CalCE	o Verify RTS.com		RESIDENTIAL MEA	Project Name Porterville ADU (Plan 1)	Project Address Porterville	INSULATION	Construction Tuno
		ovider: Generate	d: 2023-05-12	CalCERTS Inc. 08:42:52			- 4			
it metal, painted canvas, or plastic r radiation-resistant coating.	arrier between the inner core and	ans to supply conditioned air to an cation and diagnostic testing, in	tion systems must have MERV 13 nch if sized per Equation 150.0-A. cossible for regular service. Filter and prevents air from bypassing the		mmary		bucts to supply cooling must have the supply plenum. Airflow must	er CFM for gas fumace air flow 2 250 CFM per ton of nominal	s required in accordance with	

100000140000000		1011						1000		Re	0	d	34	03	
Ventriation and Indoor Air	Guairy:	Door	Opeque Door	R-5	20			New		qui	2	uct	3	,	
\$ 150.0(o)1:	Requirements for Ventiliation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Accordula Indoor Air Quality in Besidential Buildions subject to the amondmente exection in 8.450 MoV.	Roof	Wood Framed Attic	R 38	480			New		ired	ATIC	less	pe		np oling
10-40-600 Million (#0	Vertreated in the Acceptable motion for quarty in responsible buildings subject to the americanents specified in \$ 100.0(0)().	Stab	Unheated Slab-on-Grade	- no visitivation	sulation 490	Partm = 88"		Naw		1		100.000	1		2
§ 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)10. A motorized damper(s) must be installed on the ventilation duct(s) that								0-000- 2022		T		100.00		He
	prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o)1Bitkiv. CFI										Airfl	1	mbe Unit	03	at P
0	verblation systems must have controls that track outdoor air verblation run time, and either open or close the moionzed damper(s) for compliance with §150.0(o)1C.			300						0	03 ow T			-	ump 1
	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses . Single-family detached dwelling units,										are			-	Sys
§ 150.0(o)1C:	and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, ar commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)10CHit.	FENESTRA1	NON Area(#2)	Total Area: 67	67 Glazing Percentage:	3	14.0 % New/Attered Average U-Factor	or 0.30 Chatue	Compl		et	HSP	Efficier	04	tem
§ 150.0(a)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust, nonenclosed kitchens must have demand-	Front (N)	32.0	0.23	1 - E		CONDIC IOUS	New	iance	N	Veri		100	-	
	controlled exherts system meeting requirements or g up up or the encoded workers and democratic car use venier re-controlled or continuous exherts there in a system of the meeting \$150.0(o)1Git, and rated for sound per	Left (E)	20.0	0.23				New		lot Re	0 ified E	1355 1 1	HS		4
AND		Rear (S)	9:0	0.300 0.23	none	none N/A		New		qui	in he	OP 1.2	Hea PF/ PF2,	05	1
1941/ohnet §	Arrinow measurement and sound Katings of whose-Uwening Unit Ventuation Systems. The arrivow requires per 3 rou rulo TC must be measured by using a flow hood, flow grid, or other airflow measuring device at the fair's inlet or outlier terminals/grides per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2.87.2 at no less than the residential appendix reasons.	FRIGHT (W)	6.0	0.300 0.23	none	none N/A		New		red	/EER2	1200	ting	06	1
	rementer antex rate required by 3 couplet ro. Field Verification and Diagnostic Testing Whole-Dwelling Unit ventitation airflow vented range hood airflow and sound ration.							82	Rep			0	7	1	Heat
§ 150.0(o)2.	and HRV and ERV fan efficacy must be verlied in accordance with Reference Residential Appendix RA3.7. Vented range hoods	102) (2) (2) (12	ort V		0 Veri	80	Cap	0	Pum
	must be venified 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 \$150.0/0/1G								/ersio	quire	fied	00	F	P	p Sys
Pool and Spa Sv	Pool and Soa Systems and Equipment:		(c)		8				n: 2(212		E	Ef	-	tem
§ 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 MAEDDS: 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.								'Time: 2023-05- 022.0.000 ev 2022090		Verified R	ERSEER	1981	08	
§ 110.4(b)1:	Piping. Any pool or soa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-up connections to allow for future solar heating.									os		14	ooling SEER SEER	09	1
§ 110.4(b)2:	Covers. Ourdoor pools or spass that have a heat pump or gas heater must have a cover.	HVAC	HVAC SYSTEMS						3:58		rant		6 1	P	
§ 110,4(b)3:	Unrectional inters and time Switches for Pools. Pools must have directional inters 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.	÷	Heating		Cooling	MIN. ETT	Inermostat	~	92		-	CEE	EER	10	
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.		Electric riteat Patryb	BLZU HSHT	Spirt Healt Pump.	14.0 SEEK	SetDack	wew	2.4	icn.			11	e	
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing. How rate, piping, filters, and valves.								15	No	07 Verified	Not		Ē	n/a
Lighting:		HVAC	HVAC DISTRIBUTION				Duct			12		Zon	nall	11	
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable	Location	on Heating		Cooling Duct	Duct Location	R-Value	 Status 			-	al		-	
\$ 110.9.	requirements of § 110.9.	HVAC System	dem Ductloss / with Fan	/ with Fan Ductiess	bass n/a		e)u	New			V	1.1 2010	co	_	
§ 150.0(k)1A:	Luminaire Efficacy. All installed huminaires must meet the requirements in Table 150.0-A, except lighting integral to extraust fans, kitchen range hoods, beth vanity minors, and garage door openers, navigation lighting less than 5 walts, and lighting internal to drawers, cabinets, and linen dosets with an efficacy of at least 45 lumens per walt.								ovider: Seneratec	Cap 4 Yes	08 erified He	Single Speed	mpressor Type	12	n/a
§ 150.0(k)1B:	Screw based luminaires. Screw based luminatres must contain lamps that comply with Reference Joint Appendix JA8.*	WATE	WATER HEATING					2 2 3	1: 20				-	Î	
§ 150.0(k)1C:	Recessed Downlight Luminaires in Cellings. Luminaires recessed into cellings 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.		Type	Gallons	. Eff	Distribution		Status	23-05		ig		HE		
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JAB elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.		dura Laudo	R	7.60	DIRDURIC .		WGW	-12 (
§ 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 luminare 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 whing, or fan speed control.								CaiCER 18:42:52	Yes	09 Tied Heat	ıp Systen htpump	rification	3	Setback
\$ 150.0001F	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of \$ 150.01k).	EnergyPr	EnergyPro 9.1 by EnergySoft User Mumber 6249	Vumber: 6249		10:2	ID: 22-020123	Page 15 of 21	TS inc.		ing	n			

Heat Pump System 1 n/a n/a setback 03 04 05 06 07 08 09 10 11 12 13 Number of Units Heating Cooling 1 HSPF / Units Cap 17 Efficiency Type SEER / SEER / COP Controlled Type HERS Verification 1 HSPF / Units 8.2 12000 8000 EERsEER 14 11.7 Not Zonal Single Type Heat Pump System 1-hers-htpump 0 03 04 05 06 07 08 09 0 Not Required Verified SEER/SEER Verified Refrigerant Charge Verified Heating SEER/SEER/SEER Verified Heating Cap 17 Cap 17<
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Compact Distribution

Type

None

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Input File Name: Porterville ADU (Plan 1) 2022.ribd22x

§ 110.5:	(except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Blu per hour); and pool and sup heaters.
§ 150.0(h)1:	Building Cooling and Hesting Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residentiat Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)/2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a dearance of at least five feet from the outlet of any driver.
§ 150.0(h)38:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0[])1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hol water piping must be insulated as specified in § 609.11 of the California Plumbing Code."
§ 150.0[]2:	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 rehigerant suction piping located outside the conditioned space must include, or be protected by, a Class Lor Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crusthable casing or steeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designetie 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 no more than 2' higher than the base of the water heater.
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance, All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flaxible 3rd Edition. Portions of supply-air and returm-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 aerosal sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than X', 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 or 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 used to convey conditioned air. Building cavities and support platforms may contain ducts, ducts installed in these spaces must not be connessed.
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures, joints and seems of duct systems and their components must not be sealed with dollh back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealents, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have beckdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventiliation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readity accessible, manually operated dampers in all openings to the outside, except combustion intel and outlet air openings and elevator shaft verts.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind: Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porrous inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	Duct System Sealing and Leakage Test, When space conditioning systems use forced air duct systems to supply conditioned ar to an occupitable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	Air Filtration. 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 it 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 gniles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter.*



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Porterville ADU (Plan 1) Calculation Description: Title 24 Analysis

02

Pipe Insulation

Not Required

03

02

03

Parallel Piping

Not Required

04

Compact Distribution

Not Required

05

WATER HEATING - HERS VERIFICATION

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DHW Sys 1 - 1/1

SPACE CONDITIONING SYSTEMS

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CF1R-PRF-01E

(Page 10 of 12)

07

ower Drain Water Heat

Recovery Not Required

09

06

Recirculation Control

Not Required

08

07

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

PROTOTYPE \bigcirc **PORTERVILLE**, ADU PORTERVILLE

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Autor	
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	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)11:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required 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 or linen closet is closed.
§ 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.*
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	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 specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire 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.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining 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 light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	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.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to 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 meets a applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
olar Readiness	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the 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).
§110.10(b)1A:	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 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300" of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the 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.'
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a 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 be
§ 110.10(d):	provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

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§ 150.0(u)	Electric Coo
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2022 Single-Family Residential Mandatory Requirements Summary

torage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection t with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the te to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their ocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit imary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main. , with raceways installed between the panelboard and the switch location to allow the connection of backup power source. p Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated ted 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker y marked as "For Future 240V use." ooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed ch circuit wining installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as y;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently "For Future 240V use." Iothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A unobstructed 240V branch circuit wiring installed within 3° of the dryer location with circuit conductors rated at least 30 amps with

over identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

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

ENERGY COMPLIANCE - PLAN

PORTERVILLE, CA

PORTERVILLE ADU PROTOTYPES

DATE 07/05/23 SHEET

PUBLIC SET



Project Name: Porterville ADU (Plan 1 w-Opt Porch) Calculation Description: Title 24 Analysis Calculation Description: 2023-05-12708-45:26.07.0000000000000000000000000000000000	BUILDING ENERGY ANALYSIS REPORT	PROJECT: Porterville ADU (Plan 1 w-Opt Porch)	Porterville, CA	Project Designer: RRM Design Group 3765 South Higuera St. Suite 102 San Luis Obispo, CA 93401	(805) 543-1794 Report Prepared by: Timothy Contains, CEA, UEDS, CED	2238 Bayview Heights Drive Suite E Los Osos, CA 93402 805-904-9048	CANSTAIRS EN ER CY	Job Number: 22-020123 Date:	5/12/2023	The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Normesidential 2022 Building Energy Efficiency Standards. This program developed by Energy/Soft, LLC – www.energySoft.com.
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North Facing Image: Constraint of Constraint o	² Tota ³ Buil • • • CA B CERT Proje Calcu ENER Nort	East Facing South Facing West Facing iciency EDR includes improvemental EDR includes efficiency and de ilding complies when source ene Standard Design PV Capacity: 0 Proposed PV Capacity Scaling: Standard Design PV Capacity Scaling: Istration Number: 223-P010068066 Building Energy Efficiency Standa TIFICATE OF COMPLIANCE - R ect Name: Porterville ADU (P) ulation Description: Title 24 / RGY USE INTENSITY th Facing Gross EUI ¹ Net EUI ² tt Facing Gross EUI ¹ Net EUI ² tt Facing Gross EUI ¹ Net EUI ² tt Facing Gross EUI ¹ Net EUI ²	emand respor rgy, efficiency 0.00 kWdc North (0.00 k 8A-000-000-000 ads - 2022 Re ESIDENTIAL lan 1 w-Opt Analysis	33.9 34 34.2 er building envelope an ise measures such as pl y and total compliance of Wdc) East (0.00 kWdc) wdc) East (0.00 kWdc) cooo-cooo sidential Compliance PERFORMANCE COM Porch) rd Design (kBtu/ft ² - yr 36.95 36.95 36.95 36.95 36.95	27 27.6 28 RESUL Ind more efficient equipment hotovoltaic (PV) system margins are greater than South (0.00 kWdc) West Registra Report Schema MPLIANCE METHOD 3 3 3 3 3 3 3 3 3 3 3 3 3	44.6 45 45.2 1³: PASS nent and batteries nor equal to zero and t (0.00 kWdc) (0.00 kWd	3.3 3.2 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	5.9 5.3 4.9 HERS Provider: Report Genera 45:26-07:00 w-Opt Porch) 202 Btu/ft ² - γr)	ted: 2023- 2.ribd22x	3.8 3.4 3.2 3.2 CaiCERTS 05-12 08:46:38 CF1R-PRF-1 (Page 5 of CaiceRTS 05-12 08:46:38 05-12 08:46:38 05-12 08:46:38

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HERS Provider: CalCERTS inc. Report Generated: 2023-05-12 08:46:38

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TABLE OF CONTENTS	Cover Page Table of Contents Form CF1R-PRF-01-E Certificate of Compliance Form RMS-1 Residential Measures Summary Room Load Summary Room Load Summary

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Porterville ADU (Plan 1 w-Opt Porch) Calculation Description: Title 24 Analysis

ENERGY USE SUMMARY Proposed Design Source Proposed Design TDV Energy Compliance Standard Design TDV Energy Standard Design Source Compliance Energy Use Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) Space Heating 2.85 19.37 3.12 24.05 -0.27 -4.68 Space Cooling 3.46 2.74 58.01 0.72 11.99 70 IAQ Ventilation 0.47 5.01 0.47 5.01 O 0 43.77 26.31 1.82 Water Heating 4.25 2.43 17.46 Self 0 Utilization/Flexibility 0 Credit North Facing 138.15 8.76 24.77 **Efficiency Complianc** 11.03 113.38 2.27 Total 100 100 19.37 Space Heating 22.78 -0.15 -3.41 2.85 3.46 2.8 59.52 0.66 10.48 Space Cooling 0.47 5.01 0.47 5.01 IAQ Ventilation 0 D 43.77 26.27 1.83 17.5 Water Heating 4.25 2.42 Self Utilization/Flexibility 0 0 Credit East Facing Efficiency 138.15 8.69 113.58 2.34 24.57 11.03 Compliance Total

Calculation Date/Time: 2023-05-12T08:45:26-07:00

Input File Name: Porterville ADU (Plan 1 w-Opt Porch) 2022.ribd22x

Registration Number: 223-P010056069A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Date/Time: 2023-05-12 10:33:58 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc.

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Calculation Date/Time: 2023-05-12T08:45:26-07:00 (Page 6 of 12) Project Name: Porterville ADU (Plan 1 w-Opt Porch) Input File Name: Porterville ADU (Plan 1 w-Opt Porch) 2022.ribd22x Calculation Description: Title 24 Analysis REQUIRED PV SYSTEMS 01 02 03 04 07 11 12 05 09 Array Angle Tilt: (x in Inverter Eff. Solar Access Azimuth (deg) Tilt DC System Size Exception Module Type Array Type Power Electronics Input 12) (%) (kWdc) (deg) (96)

0 Standard (14-17%) Fixed none n/a n/a n/a n/a n/a REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. PV exception 2: No PV required when minimum PV size (Section 150.1(c)14) < 1.8 kWdc (0 kW)

Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry concentry inc. Quality insulation installation (QII) HERS PROVIDER Indoor air quality ventilation Kitchen range hood Verified Refrigerant Charge Airflow in habitable rooms (SC3.1.4.1.7) Verified heat pump rated heating capacity Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5) Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Porterville ADU (Plan 1 w-Opt Porch)	480	1	1	1	0	1

Registration Number:

223-P010056069A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

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HERS Provider: CalCERTS inc. Report Generated: 2023-05-12 08:46:38

Registration Number:

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Porterville ADU (Plan 1 w-Opt Porch) Calculation Description: Title 24 Analysis

SENERAL IN	FORMATION				
01	Project Name	Porterville ADU (Plan 1 w-Opt Porch)			
02	Run Title	Title 24 Analysis			
03	Project Location	-			
04	City	Porterville	05	Standards Version	2022
06	Zip code		07	Software Version	EnergyPro 9.1
08	Climate Zone	13	09	Front Orientation (deg/ Cardinal)	All orientations
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0,3
18	Total Cond. Floor Area (ft ²)	480	19	Glazing Percentage (%)	16.70%
20	ADU Bedroom Count	n/a			
		1 31		S Inc.	
OMPLIANC	E RESULTS			11100	
01	Building Complies with Computer	Performance L E D C	PRO	VIDER	
02	This building incorporates feature	s that require field testing and/or verif	fication by a certi	fied HERS rater under the supervision of a	CEC-approved HERS provider.
03	This building incorporates one or	more Special Features shown below			

069A-000-000-000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number:

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Porterville ADU (Plan 1 w-Opt Porch) Calculation Description: Title 24 Analysis

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	2.85	19.37	2.97	22.76	-0.12	-3.39	
Space Cooling	3.46	70	2.86	61.88	0.6	8.12	
IAQ Ventilation	0.47	5.01	0.47	5.01	0	D	
Water Heating	4.25	43.77	2.42	26.27	1.83	17.5	
Self Utilization/Flexibility Credit	Å			0		0	
South Facing Efficiency Compliance Total	11.03	138.15	8.72	115.92	2.31	22.23	
Space Heating	2.85	19.37	3.12	24.19	-0.27	-4.82	
Space Cooling	3.46	HPRS	P B 2.88 V L	DE 62.15	0.58	7,85	
IAQ Ventilation	0.47	5.01	0.47	5.01	0	D	
Water Heating	4.25	43.77	2:43	26.31	1.82	17.46	
Self Utilization/Flexibility Credit				0		D	
West Facing Efficiency Compliance Total	11.03	138.15	8.9	117.66	2.13	20.49	

Registration Number: 223-P010058069A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF CO	MPLIAN	CE - RESIDENTIAL	PERFORMAN	CE COMPLIA	ANCE ME	THOD							CF1R-PRF-01E	
Project Name: Port	erville Al	DU (Plan 1 w-Opt	Porch)			Calculation Date/Time: 2023-05-12T08:45:26-07:00								
Calculation Descrip	tion: Titl	le 24 Analysis					Input F	ile Name:	Porterville	ADU (Plan	1 w-Opt Porch) 2022.ribd22x		
ONE INFORMATION														
01		02	02 03			04		05			06		07	
Zone Name		Zone Type	Zone Type HVAC System Name		e _ 2	Zone Floor	Area (ft	²) A	vg. Ceiling H	leight	Water Heating	System 1	Status	
Living Area		Conditioned	HV		480				8		1	New		
DPAQUE SURFACES			20				54 546	414 1		114	25	74. 		
01		02	03		04			05		06		07	08	
Name		Zone	Construction		Azimuth		0	Orientation		s Area (ft ²)	Window and Door Area (ft2)		Tilt (deg)	
Front Wall	12	Living Area	R-21 Wall		0		1	Front		192		52		
Left Wall	12	Living Area	R-21	Wall	90			Left		160		3.3	90	
Rear Wall		Living Area	R-21	Wall	180		1	Back	192		9		90	
Right Wall		Living Area	R-21	R-21 Wall		270		Right		160		6	90	
Roof		Living Area	R-38 Roof Attic		n/a		2	n/a		480		√a 🔰	n/a	
ATTIC	_		1	La	1	- hard	1		, 11	1				
01	T	02	03HE		R So4 P		R	05	10	DEGR		07	08	
Name	1	Construction	Тур	pe	Roof R	ise (x in 12) Roof	Reflectanc	e Roof	Emittance	Radian	t Barrier	Cool Roof	
Attic Living Area	Attic	c RoofLiving Area	Ventil	ated		4		0.1		0.85		/es	No	
ENESTRATION / GLA	ZING		19			20:		x			10	() ()	00	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-facto Source	SHGC	SHGC Source	Exterior Shading	

Front Wall 1 Window 2 Window Front Wall Left Wall X1 Window

223-P010056069A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Calculation Date/Time: 2023-05-12T08:45:26-07:00 Input File Name: Porterville ADU (Plan 1 w-Opt Porch) 2022.ribd22x CF1R-PRF-01E (Page 1 of 12)

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Calculation Date/Time: 2023-05-12T08:45:26-07:00 Input File Name: Porterville ADU (Plan 1 w-Opt Porch) 2022.ribd22x

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04	05	06	07	08	09	10	11	12	13	14
entation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Front	0			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
Front	0			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
Left	90			1	33.3	0.3	NFRC	0.23	NFRC	Bug Screen

Registration Date/Time: 2023-05-12 10:33:58 Report Version: 2022.0.000 Schema Version: rev 20220901

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CalCERTS inc.

DATE

07/05/23



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

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01	02		03		04	0	5	06	07	08	0	9	10		11		12	1	13		14
Name	Type	Su	face	Ori	entatio	n Azim	uth	Width (ft)	Heig (ft)		t. Are	2 I II	factor	1.1.1.1.1.1	actor urce	્ડ	HGC	SHGC	Source	Exteri	or Sha
4	Window	Rea	r Wall	1	Back	18	o			1	9		0.3	N	FRC	().23	N	FRC	Ви	g Scre
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Name	-	Zone			Area (i	H	E	Perimete	r (ft)	PR	and De		D	and De			Carpete	f Fraction	n	Hea	ted
Slab		Living Are	a		480	6		88			none	1		0			8	0%		N	D
01	E CONSTRUC	TIONS 02			0	3	1		04		1	05		06	-	07	-		08	8	
Construction	Name	Surface	Type	6	onstruct	tion Type	1	F	aming		100000	l Cavity	Interio	/ Exte	1.11	J-facto	,	A	ssembly	Lavers	
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R-21 Wal	1	Exterior	Nalls	w	ood Fra	med Wall		2x6 @	16 in. (0. C.	1 B	-21	Non	/ Non	e	0.069	2	Cavity	/ Frame	ypsum B :: R-21 / 3 3 Coat St	2x6
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Attic RoofLivin	g Area	Attic Ro	iofs		Wood F Ceil			2×4 @	24 in. (O. C.		R-0	No	ne/O		0.644		R/ Siding	oof Deck g/sheath	: Wood ing/deck	ing
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Nar	me	L	ertified w-Stati IP Syste	ic	Airflo Habit Roo	able	in Cond	ss Units ditioned ace	1.000	all Moun ermostat	&am	Filter Sizi p; Pressu op Ratinj	ire co	Ducts i nditio	n ned	Airfl RA3	ow per .3 and	non-ci	rtified ontinuo Fan	us R	or Fa unnii tinuc
Heat Pump	p System 1		t requir	_	Requ		3	uired	R	lequired		t require		Space t requi		1.001.001	3.3.4.1 equired	-	required		requ
NDOOR AIR QUA	ALITY (IAQ) F	ANS	1.5						11		852 		10		54					754	
01		02		03			04			05		06	8		07	5		08)(09
Dwelling Unit	Airfle	ow (CFM)	10	Fan Eff (W/Cl		IAC) Fan T	ype	Hea	ncludes at/Energ ecovery?	Ef	IAQ Reo fectivene		I 1000	cludes cator D		HER	S Verifica	ation	St	atus
SFam IAQVentR	pt	30				1				10000				-			1				
		29		0.3	s	Сн	Exhaust E	RS	E	No PR	0	n/a Syl	I	E I	No	12		Yes			
				0.3	s	Сн	a	IC	E	No R		S,	I		C.	2		Yes			
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NOTE. Single family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach as approach to more information. UNCLE. Single family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach as approach to the respective section for more information. (04/2022) Uniformation. extention and extendion and extention and extendion	ACSA 1011.S.2.1A440-2011. •	the Department of Consumer Affairs, Bureau of Household Strategy 200	- 2022 F	000000-	0000 Itial Con	Сн	ict with a roof or ceiling which is sealed to firmt influence and excititation, activity a roof deck or on top of a drywall ceiling.	RS	Regis Repo Schel 701 n Burgerova jou popel-0 Adduasse impai/o un aveu sendu sanduasse p	No P R stration E	ate/Time 2 1: 2022.0 n: rev 20	s II vapor relarder must be installed on the conditioned space side of thick with ar-permeable insulation.	n, including skylights, separating conditioned space from unconditioned space or outdoors must have weighted average U-factor of all fenestration must not exceed 0.45.	indoor and outdoor freplaces.	pening of the frebox.			cy requirements in Table 110.2:A through Table 110.2.M		000000000	46:38 4

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SPONSIBLE PERSON'S DEC ertify the following under pena			the State o	of California	_						

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Porterville ADU (Plan 1 w-Opt Porch)

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r the building design identified on this Certificate of Compliance.
of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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Responsible Designer Signature:
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RM Design Group	Date Signed: 2023-05-12 10:33:58
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//state/Zip: an Luis Obispo, CA 94301	Phone: 805-543-1794

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ayview Heights Drive, Suite E	CEA/ HERS Certification Identification (If applicable): r160610042
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BLE PERSON'S DECLARATION STATEMENT	
I certify that the energy features and performance specifica The building design features or system design features iden	ate of California; as Code to accept responsibility for the building design identified on this Certificate of Compliance, tions identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code o tified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, wi recentent agency for approval with this building permit application.
Designer Name: Russom	Responsible Designer Signature: RR
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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.

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number: 223-P010056069A-000-000-0000000-0000

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irs Energy Inc.	Signature Date: 2023-05-12 10:29:58
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e following under penalty of perjury, under the laws of the State of Cali	fornia;
I am eligible under Division 3 of the Business and Professions Code to I certify that the energy features and performance specifications iden The building design features or system design features identified on t calculations, plans and specifications submitted to the enforcement a le Designer Name:	accept responsibility for the building design identified on this Certificate of Compliance. Utiled on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Re his Certificate of Compliance are consistent with the information provided on other applicable compliance documents, works
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	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	Project Name Porterville ADU (Plan 1 w-Opt Porch)	Building Type R	Z Single Family C Addition Multi Family C Existin	Addition Alone Existing+ Addition/Alteration	Dete 5/12/2023
§ 150.0(m)13.	be 2 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy 5 0.45 watts per CFM for gas fumace air handlers and 5 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow 2 250 CFM per ton of nominal	Project Address Portenville	California Energy Climate Zone CA Climate Zone 13	Climate Zone Total Cond. Floor Area Zona 13 480	Floor Area Addition	# of Units
	cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verficiation testing is required in accordance with Reference Residential Amendix PA3.3.	INSULATION	A			
		Construction Type	Cavity (ft ²)	P) Special Features	atures	Status
		WaV Wood Framed	R 21	604		New
Ventilation and	Ventilation and Indoor Air Quality:	Door Opeque Door	R-5	20		New
§ 150.0(o)1:	Requirements for Ventitiation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Accessibilis Indoor Air Quality in Residential Buildions subject to the amendments exercised in 8, 450 MoV.	Roof Wood Framed Attic	R 38	480		New
	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-	Stab Uniteated Stab-on-Grade	- no insulation	480 Parim = 88"		Naw
§ 150.0(o)1B:			1944 1947			3
\$ 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 cellings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)10.Hit.	TION	8	16.7%	New/Altered Average U-Factor	0.30
6 150 Moht G	Local Machanical Exhaust. Kitchans and bathroroms must have local machanical exhaust- noranciesed kitchans must have demand-	Urientation Area(IT) U-Fac	SHGC Overhang	Sidetins	Exterior Shades	status
m Jaloun R	controlled exhaust system meeting requirements of \$150.0(o)1Gii enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting \$150.0(o)1Gii+iv. Airflow must be measured by the installer per \$150.0(o)1Gv, and rated for sound per	Front (N) 32.0 0.300 Left (E) 33.3 0.300	0,23 none 0.23 none	none N/A none N/A		New
C 4ED DIAMANA	§100.0(0)1G/h. Abiliary Management and Council Designees of Milecia Durations that Maniflation Contention Control and Council Duration of Milecia Duration (1988).	Rear (S) 9.0 0.300	0.23 //0/10	none N/A		New
mentiopunet §	Arritow measurement and sound katings or whole-owelling unit ventilation systems. It is alrow required per 3, 100, 0010, must be measured by using a flow hood, flow grid, or other airflow measuring device at the fain'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)10.	Right (W) 6.0 0.300	0.23 none	none M/A		New
§ 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 R43.7. Vented range hoods must be venified per Reference Residential Appendix R43.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)105					304 X X
Pool and Spa S	Pool and Spa Systems and Equipment:			0 0		: :
§ 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 thermostal 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, or dedicated suction and return lines: or built-in or built-up connections to allow for future solar heating.	2.45				
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.	C SYSTEMS				
§ 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 purnors to be set or programmed to run only during off-peak electric demand periods.		Ĭ	Min. Eff	Thermostat	Status
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.	1 Electric reed Pump 8.20 MSPF	-P- Spirt Heat Pump.	34.0 SEEK	SetDack	Mew
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sciing. How rate, piping, filters, and valves.					
Lighting:	2년년년 - 4월(19년년 - 1871) 2년	HVAC DISTRIBUTION			Duct	
0 440 D	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable	Location Heating	gr	Duct Location	R-Value	Status
§ 150.0(k)1A.	requirements or § 1:0.9. Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting inlegral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openens; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen	HVAC System Ductess / with Fan	Ductions n	rvía	n/a	New
§ 150.0(k)1B:	occess with encacy or at least 40 turnens per wait. Screw based turninaines. Screw based turninaines must contain tarms that commit with Reference. Initi Annerotix (IAR *	WATER HEATING				
§ 150.0(k)1C:	Recessed Downlight Luminaires in Cellings. Luminaires recessed into cellings must not contain screw based sockets, must be airtight,	n:1-on	Gallons Min. Eff	f Distribution		Status
\$ 150 001D	and must be search with a gasket or ballor. Calloring precinest code 3 +10.115 must also be met. Light Sources in Enclosed or Received Luminatings. Lamps and other separable light sources that are not compliant with the JAB	1 Heat Pump 50	3.20	Standard		New
§ 150.0(k)1E:	errevent appendance requirements, moduring marking requirements, most not be marked in enclosed or recessed unmarkeds. 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 wintig, or fan speed control.	12				
£ 120 0014E	Fans. Lig	EnergyPro 9.1 by EnergySoft User Number: 6249	65	10:2	ID: 22-020123	Page 15 of 21

§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters.
§ 150.0(h)1:	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.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a dearance of at least five feet from the outlet of any driver
§ 150.0(h)38:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturers instructions.
§ 150.0(1)1:	Water Piping. Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water point must be insulated as specified in 5 600 11 of the California Plumbind Code."
§ \$50.0()2:	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 relardant and protected from UV light (no adhesive tapes). Insulation covering chiled water piping and refigerant suction piping located outside the conditioned space must include, or be protected by a Class I vapor relarder. Pipe insulation buried below grade must be installed in a waterproof and proceeded on the protected by a Class I or Class II vapor relarder. Pipe insulation buried below grade must be installed in a waterproof and
§ 150.0(n)1;	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5 x 2.5 x 7' 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 no more than 2" higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 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 (RA3.14.3.8) 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 aerosal sealent that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than X ² , if mastic or tape is used. Building cavities and subtent for than sealed sheet metal, duct board or flexible duct must not the used to convey conditioned air. Building cavities and support platforms may contain ducts: ducts installed in these spaces must not be used to convey conditioned air. Building cavities and support platforms may contain ducts: ducts installed in these spaces must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be corrected.
§ 150.0[m]2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures, joints and seams of duct systems and their components must not be sealed with doth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
\$ 150.01ml3-	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, medice contents of the content of content of the cont
§ 150.0(m)7:	measure, recently, and user requirements spectration on out construction. Beckfraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic
§ 150.0(m)8:	cumpens. Gravity Ventiliation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readity accessible, manually operated dampers in all openings to the outside, except combustion intel and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosuniight, moisture, equipment maintenance, and wind: Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular from insulation must be protected as above or cainted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porrous timer Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vacor barrier.
§ 150.0(m)11:	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	Air Filtration. Space conditioning systems with ducks 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 recks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter.
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6	2022 Single-Family Residential Mandatory Requirements Summary
	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

Registration Date/Time: 2023-05-12 10:33:58

Report Version: 2022.0.000 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Porterville ADU (Plan 1 w-Opt Porch) Calculation Description: Title 24 Analysis

Compact Distribution

Not Required

Cooling Unit Name

Heat Pump System

04 05 06 07 08 09 10

05

Verified SEER/SEER2

Registration Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220901

Not Required

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(Page 9 of 12)

WATER HEATING - HE	RS VERIFICATION								
01	0	2		03	3		04		
Name	Pipe Ins	ulation	Pa	rallel	Piping	1	Comp	oact Distril	34
DHW Sys 1 - 1/1	Not Re	quired	- N	ot Ree	quired	Not Requ		lot Require	20
SPACE CONDITIONING	G SYSTEMS								-
01	02	03			04			05	
Name	System Type	Heating Unit	Name	Hea	ting Equipm Count	ent	t Cooling Unit		la
HVAC System1	Heat pump heating cooling	Heat Pump	System 1		1	Heat Pump		t Pump Sy 1	st
HVAC - HEAT PUMPS			-	-		-			
01	02	03	04		05	0	6	07	I
			Heat		Heatin	ng			t
Name	System Type	Number of Units	10 P. P P		HSPF / HSPF2 / COP	Cap	47	Cap 17	I
Heat Pump System 1	VCHP-ductless	1	HSP	۴	8.2	12	000	8000	
HVAC HEAT PUMPS -	HERS VERIFICATION	692 - 3 1	5		8)	92	-		5
01	02	03		04			05		-
Name	Verified Airflow	Airflow Ta	arget	Ver	ified EER/EI	ERZ	Verific SEER/SE		2
Heat Pump System 1-hers-htpump	Not Required	0		n	Not Required		Not Requi		20

Registration Number: 223-P010056069A-000-000-0000000-000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

\$ 150.0(0)1:	Requirements for Ventitation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 52.2, Ventioner and According reference on December 19 Address Devicements the economic and according to 8 400 MeV 4	Roof Mood Framed Attic	4	R 38	480		New
ALCONDUCT OF A	vertaeaon and Acceptable indoor Ar Quarty in residential buildings subject to the amenoments specimed in § 130.0(0)).	Stab Unheated Stab-on-Grade	-Grada	- no insidence	480 Parton = 88"		Maw
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole- dwalling unit ventilation airflow required per §150.0(o)10. 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)18ii&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.		000				
§ 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 cellings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)10cHill.	FENESTRATION	Total Area:	80 Glazing Percentage		16.7 % New/Attered Average U-Factor	0.30
§ 150.0(a)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust, nonenclosed kitchens must have demand- controlled exhaust sestem meeting reminements of 6150 (hold Gill enclosed strictions and hathrooms can use demand-controlled or	Front (N) 3	0.300	0,23 none	anone	N/A	New
	continuous exhaust meeting §150.0(o)1Gii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and railed for sound per \$150.0(o)1Gv.					a	New
§ 150.0(o)1H&I	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate recurred by 6150.0(o)1C.	Mear (3) Right (M)	8.0 0.300	0.23 none 0.23 none	enon, NA enon, NA	र द	New
§ 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 venified 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)105		ana a a				ana a a
Pool and Spa Sy	Pool and Spa Systems and Equipment:		242		6		ŝ
§ 110.4(a): § 110.4(b)1:	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 MAEDDS, 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. * Piping. Any pool or spa heating system or equipment must be installed with allows of pipe between the filter and the heater, or dedicated suction and return lines, or built-or built-up connections to allow for future solar heating.		a a				3: ≼
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.	11					
§ 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.	Oty. Heating	Min. Eff	Cooling	27.1 2	Thermostat	Status
\$ 110.5	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.	3 Checking theat hands	S.401 US-R	dunt a main inde	19.0 OCEN	CHEMICAL	MGM
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump szing, flow rate, piping, fitters, and valves.					And the second	
Lighting:	2년년에 - 4월(11년년 - mil) 2년	HVAC DISTRIBUTION	NO			Duct	
§ 110.9;	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. ⁺	Location HVAC System	Heating Ductions / with Fan	Cooling	Duct Location	R-Value	Status
§ 150.0(k)1A.	Luminaire Efficacy. All installed huminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mimors, and grage door openers, navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen dosets 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 JAB."	WATER HEATING			and the second se		8
§ 150.0(k)1C:	Recessed Downlight Luminaires in Cellings. Luminaires recessed into cellings must not contain screw based sockets, must be airtight, and must be sealed with a quaket or caulk. California Electrical Code § 410.116 must also be met.	Qty. Type	Gallons	- I -	-		Status
§ 150.0(k)1D;	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JAB elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.	1 Deet Pump	ne	7.2V	DIGINGHU		MeM
§ 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 whind, or fan speed control.		12		e R		
£ 150 00451	Lighting integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoose) must manufacturer in kitchen exhaust	EnergyPro 9.1 by EnergySoft	User Number, 6249		0	ID: 22-020123	Page 15 of 21

53 53

CF1R-PRF-01E

(Page 10 of 12)

07

hower Drain Water Heat

Recovery

Not Required

09

Required

Thermostat Type

Setback

13

HERS Verification

Heat Pump System

1-hers-htpump

09

Cap 17

Yes

CalCERTS inc.

Calculation Date/Time: 2023-05-12T08:45:26-07:00

05

Compact Distribution

Type

None

06

Cooling Equipment

Count

1

Cooling

SEER2

Efficiency SEER /

06

Verified Refrigerant

Charge

Yes

2023-05-12 10:33:58

Туре

EERSEER

EER / EER / CEER

Input File Name: Porterville ADU (Plan 1 w-Opt Porch) 2022.ribd22x

07

Fan Name

n/a

11

Zonally

Controlled

Not Zonal

07

Verified HSPF/HSPF2

No

06

Recirculation Control

Not Required

08

Distribution Name

n/a

12

mpress

Type

Single Speed

08

Cap 47

Yes

HERS Provider:

Verified Heating Verified Heating

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> PLAN COMPLIANCE - I Ũ PORTERVILLE, \sim \bigcirc ENERG

ADU PROTOTYPE PORTERVILLE

DATE 07/05/23

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§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	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)11:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required 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 or linen closet is closed.
§ 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.*
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	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 specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire 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.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining 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 light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	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.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to 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 meets a applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
olar Readiness	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the 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).
§110.10(b)1A:	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 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300" of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the 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.
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a 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.
§ 110.10(d):	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

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circuit breaker permanently marked as "For Future 240V use."

§ 150.0(s)	Energy Stor equipment w main service source colloo near the prin 225 amps; si
§ 150.0(t)	panelboard, Heat Pump unobstructed identified as permanently
§ 150.0(u)	Electric Coo 240V branch *240V ready marked as *P
§ 150.0(v)	Electric Clo dedicated un the blank co

(m)

*Exceptions may apply.

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2022 Single-Family Residential Mandatory Requirements Summary

torage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection t with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the te to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their ocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit imary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main. , with raceways installed between the panelboard and the switch location to allow the connection of backup power source. p Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated ted 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover s "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker y marked as "For Future 240V use." ooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed ch circuit wining installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as ly;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently "For Future 240V use." Iothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A unobstructed 240V branch circuit wiring installed within 3° of the dryer location with circuit conductors rated at least 30 amps with over identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole

TOOM LOAD	lan 1 w-Opt Porch)							Date	5/12/2	023
/stem Name								Floor		
VAC System									480)
OOM LOAD SUM	MARY									
			ROOM	/ COOLING	3 PEAK	COIL	COOLING	PEAK	COIL H	TG. PEAP
Zone Name	Room Name	Mult.	CFM	Sensible	Latent	CFM	Sensible	Latent	CFM	Sensible
ving Area	1st Floor	1	238	5,069	171	238	5,069	171	188	7,41
		+								
		-								
		-								
		-								
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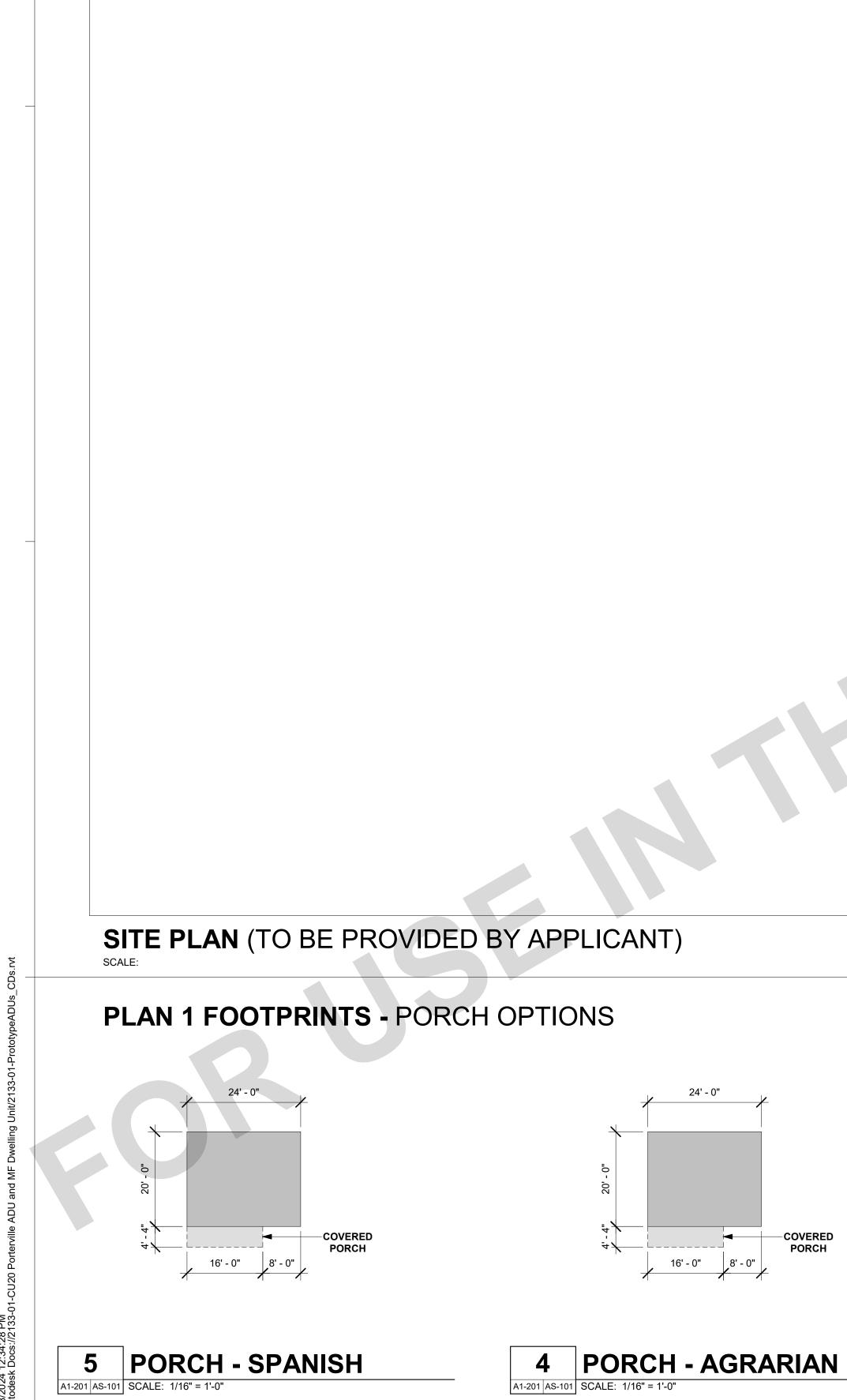
ENERGY COMPLIANCE - PLAN W/ OPT. PORCH

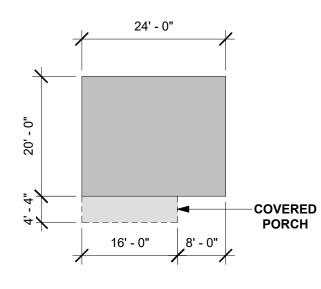
PORTERVILLE ADU PROTOTYPE

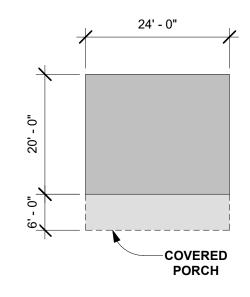
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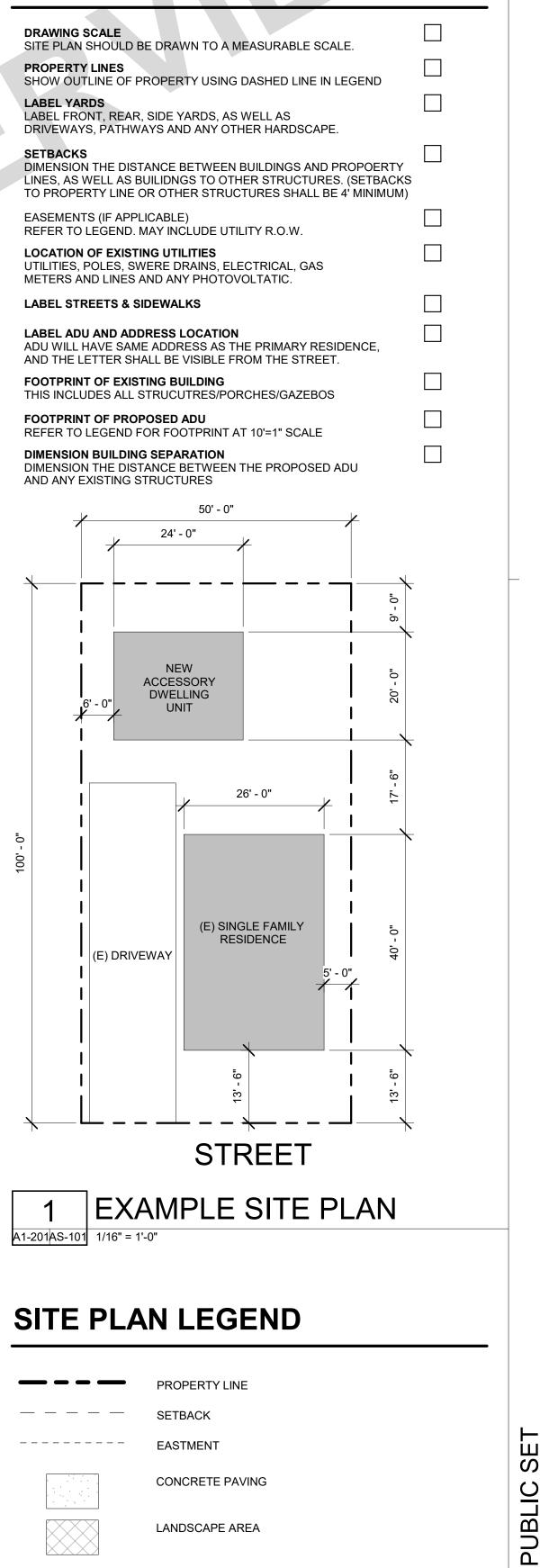




SITE PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. 3. CONTRACTOR TO REVIEW PLANS TO AVOID CONFLICTS WITH UTILITIES, I.E. METER LOCATIONS, ELECTRIC TRANSFORMER, BACKFLOW PREVENTERS,
- SEWER LINES AND ELECTRIC CONDUIT (POLE LIGHTING AT DRIVEWAY), ETC. 4. CONTRACTOR TO VERIFY ALL CONDITIONS AND UTILITY LOCATIONS AND IS RESPONSIBLE FOR LOCATING UTILITIES NOT SHOWN ON THE DRAWINGS.
- 5. CONTRACTOR TO AVOID DISTURBING OR DAMAGING EXISTING UTILITIES. CALL BEFORE YOU DIG OR CAUSE ANY GROUND DISTURBANCES. 7. LIMIT CONSTRUCTION AREA TO THAT INDICATED ON THE PLANS.
- CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO AREAS OUTSIDE OF DESIGNATED CONSTRUCTION AREA. 8. COORDINATE ELECTRICAL REQUIREMENTS WITH PG&E.
- 9. FOR PROJECT INFORMATION DATA, SEE TITLE SHEET 10. ENCROACHMENT PERMIT IS REQ. FOR ANY WORK DONE WITHIN THE RIGHT
- OF WAYS. 11. PER CRC R311.3 FLOORS OR LANDINGS AT EXTERIOR DOORS SHALL BE AT LEAST AS WIDE AS DOOR SERVED AND SHALL PROVIDE A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 INCHES MINIMUM. SLOPE OF EXTERIOR LANDINGS SHALL NOT EXCEED 1/4" PER FOOT (2% SLOPE).

SITE PLAN CHECKLIST





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STYLE A: SPANISH COLONIAL REVIVAL



STYLE C: AGRARIAN

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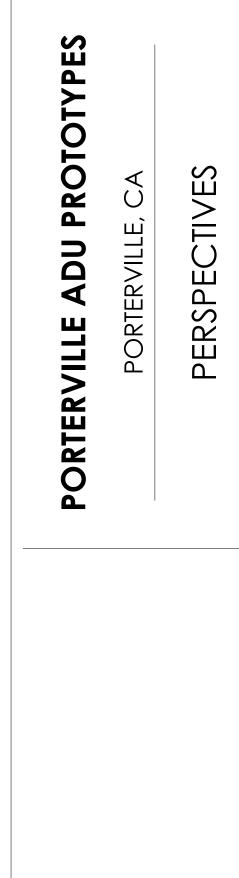
STYLE B: CRAFTSMAN



STYLE D: CALIFORNIA RANCH



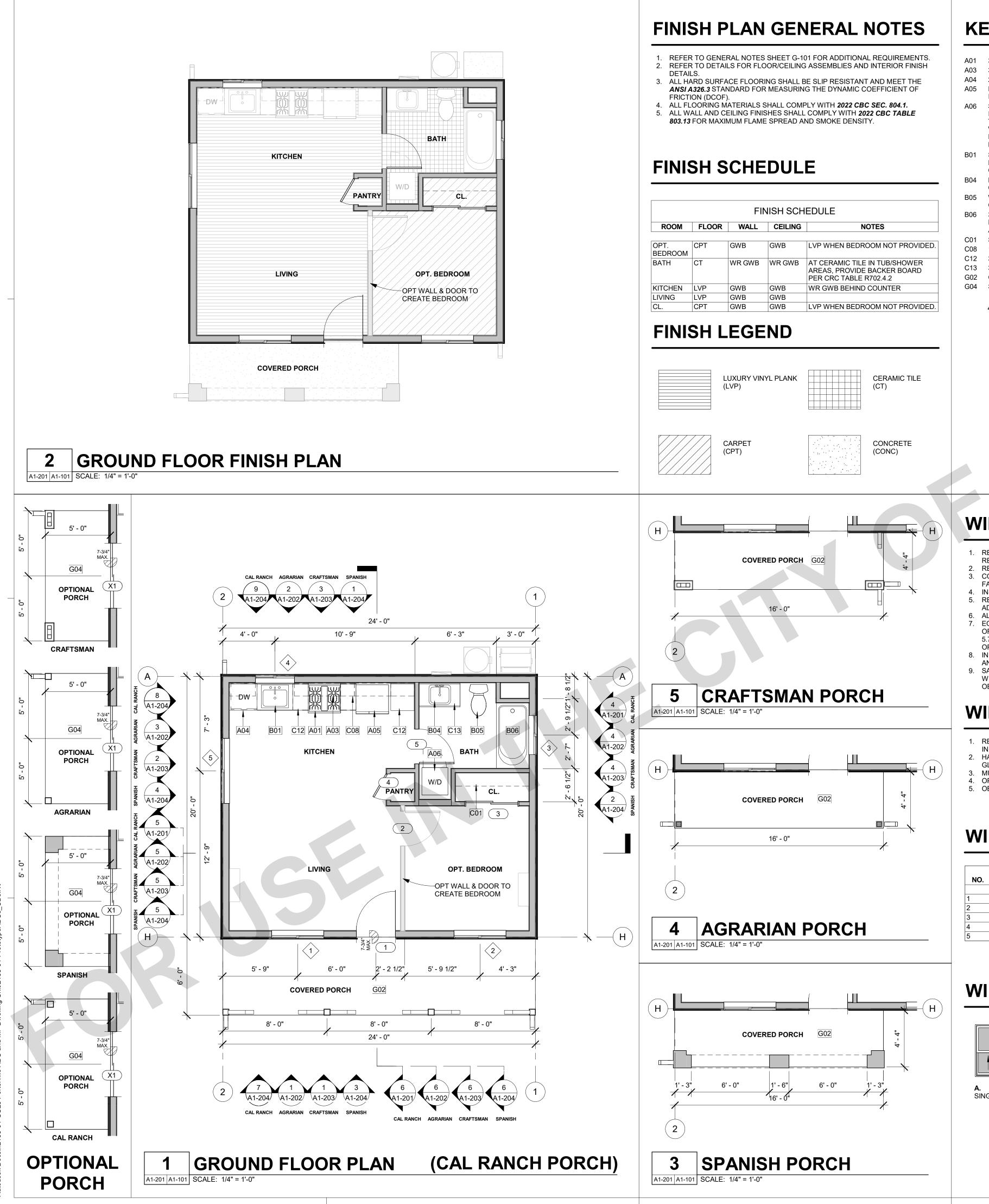
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DATE 07/05/23 SHEET

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KEYNOTES

- A01 30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR.
- A03 30" WIDE BUILT-IN MICROWAVE WITH RANGE VENT. A04 24" WIDE FRONT CONTROL UNDERCOUNTER DISHWASHER.
- A05 REFRIGERATOR LOCATION. PROVIDE 37" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL). A06 STACKED WASHER/DRYER MACHINE LOCATION. PROVIDE WASTE AND WATER
- IN RECESSED WALL BOX. PROVIDE DRYER VENT. VENT TO OUTSIDE AIR THROUGH EXTERIOR WALL. DRYER VENT 4" MIN DIAMETER TO EXTERIOR WITH SCREENED AND ONE DIRECTIONAL VENT GATE. MAX LENGTH TO NOT EXCEED 14' WITH A MAX OF 2 90-DEGREE BENDS. TERMINATION SHALL BE 3' MINIMUM FROM OPERABLE OPENING IN EXTERIOR WALL.
- SINGLE COMPARTMENT UNDER-MOUNT KITCHEN SINK W/ GARBAGE DISPOSAL. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEET.
- LAVATORY SINK. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS. WATER CLOSET. REFER TO WATER EFFICIENCY REQUIREMENTS ON
- CALGREEN CODE NOTES SHEETS. 32" x 60" x 72" TUB AND SHOWER COMBINATION. MODEL BY BUILDER. WATER RESISTENT FINISH TO EXTEND TO 72" ABOVE FLOOR. SHOWER DOOR IF APPLICABLE TO BE TEMPERED GLASS.
- C01 SINGLE WOOD SHELF AND POLE.
- C08 12" DEEP UPPER CABINET
- C12 34 1/2" HIGH BASE CABINET AND COUNTERTOP. C13 30" HIGH BASE CABINET AND COUNTERTOP.
- G02 CONCRETE FLATWORK. 1/4"/FT SLOPE AWAY FROM BUILDING. G04 SLOPE 1/4" PER FT AWAY FROM BUILDING."
 - 4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PS MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.25 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

WINDOW GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL
- REQUIREMENTS. REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC A ADDITIONAL WINDOW REQUIREMENTS.
- 6. ALL GLAZING IS DOUBLE PANE. EGRESS WINDOWS SHALL HAVE A CLEAR OPENING WITH A MAX_SIL OF 44" AFF, MIN NET CLEAR OPENING FOR EMERGENCY ESCAPE SH 5.7 S.F. EXCEPTION: MIN 5 S.F. AT GROUND FLOOR, MINIMUM NET CL OPENING DIMENSIONS: HEIGHT: 24", WIDTH: 20".
- IN A HIGH FIRE SEVERITY / WUI AREA, ALL WINDOWS TO BE WUI COMPLIAN
- AND HAVE A MIN OF ONE TEMPERED PANE AT EXTERIOR. SAFET GLAZING / TEMPERED GLASS REQUIRED AT ALL OPERABLE DOORS WITHIN TUB/SHOWER ENCLOSURES, WITHIN 24" OF TUB/SHOWER, wITHIN OERATIONAL AREA OF ALL DOORS.

WINDOW REMARKS

- REQUIRED EGRESS WINDOW. REFER TO GENERAL NOTE #7 FOR ADDITIONAL INFORMATION.
- HAZARDOUS LOCATION. WINDOW INCLUDES BOTH PANES TEMPERED GLAZING.
- MULLED WINDOW ASSEMBLY. OPTIONAL WINDOW
- OBSCURE.

WINDOW SCHEDULE

		SI	SIZE		
NO.	TYPE	WIDTH	HEIGHT	HEIGHT	REMAR
1	В	4' - 0"	4' - 0"	6' - 8"	
2	В	4' - 0"	4' - 0"	6' - 8"	1
3	В	3' - 0"	2' - 0"	6' - 8"	2
4	В	3' - 0"	3' - 0"	6' - 8"	
5	В	5' - 0"	4' - 0"	6' - 8"	

WINDOW LEGEND

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SINGLE HUNG.

SLIDER

FLOOR PLAN GENERAL NOTES

REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.

4. ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR

- COORDINATION PURPOSES ONLY. DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS,
 - SHELVING AND BATHROOM FIXTURES. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS. 8. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO
 - ROUGH DOOR OPENING. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED.
 - 10. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.

REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.

3. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.

- 11. PER CRC R311.3 FLOORS OR LANDINGS AT EXTERIOR DOORS SHALL BE AT LEAST AS WIDE AS DOOR SERVED AND SHALL PROVIDE A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 INCHES MINIMUM. SLOPE OF EXTERIOR LANDINGS SHALL NOT EXCEED 1/4" PER FOOT (2% SLOPE). 12. AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH
- REINFORCEMENT INSTALLED IN ACCORDANCE WITH R327.1.1. REFERENCE A-902 FOR DETAILS.

FLOOR PLAN LEGEND

EXTERIOR - 5 1/2" WOOD STUD W/ SHEATHING AND EXTERIOR FINISH (REFER TO ELEVATIONS), ONE LAYER GYPSUM WALL BOARD INTERIOR.
INTERIOR - 3 1/2" WOOD STUD W/ONE LAYER GYPSUM WALL BOARD EACH SIDE.
INTERIOR - 5 1/2" WOOD STUD W/ONE LAYER GYPSUM WALL BOARD EACH SIDE.

DOOR GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS REFER TO PLANS FOR LOCATION OF DOORS.
- VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION. 4. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR
- TO FABRICATION OF DOOR AND FINISH OPENING.
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS. 6. EXTERIOR DOORS SHALL EITHER HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20-MINUTES OR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS:
 - A. STILES AND RAILS SHALL NOT BE LESS THAN 1-3/8" THICK. B. PANELS SHALL NOT BE LESS THAN 1-1/4" THICK, EXCEPT FOR THE EXTERIOR PERIMETR OF THE PANEL SHALL BE PERMITTED TO TAPER TO A TONGUE OF NOT LESS THAN 3/8" THICK.
- REFER TO DOOR TYPES LEGEND FOR GLAZING.
- REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS 9. GLAZING IN DOORS SHALL BE TEMPERED PER SECTION R308.4.1.

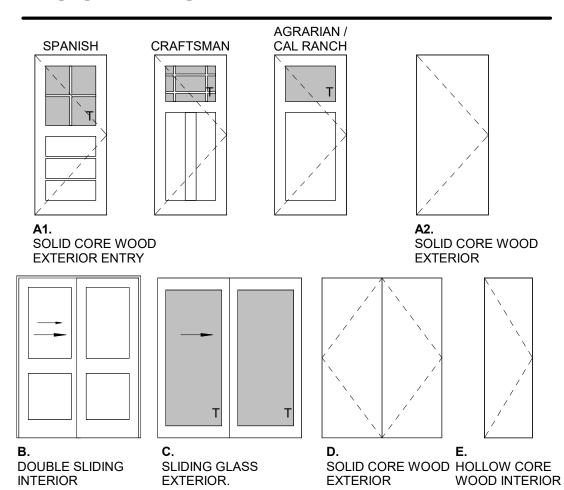
DOOR SCHEDULE

		DOOR		
NO.	TYPE	WIDTH	HEIGHT	REMARKS
		_		
1	A	3' - 0"	6' - 8"	
2	E	2' - 8"	6' - 8"	
3	В	4' - 0"	6' - 8"	
4	E	2' - 0"	6' - 8"	
5	E	2' - 8"	6' - 8"	2
X1	С	5' - 0"	6' - 8"	2, 4

DOOR REMARKS

- EXTERIOR DOOR. REFER TO GENERAL DOOR NOTE #6 GLAZING PER DOOR TYPES. REFER TO GENERAL DOOR NOTE #9
- PROVIDE 100 SQ INCHES OF VENTING IN DOOR. 4. OPTIONAL DOOR.

DOOR LEGEND





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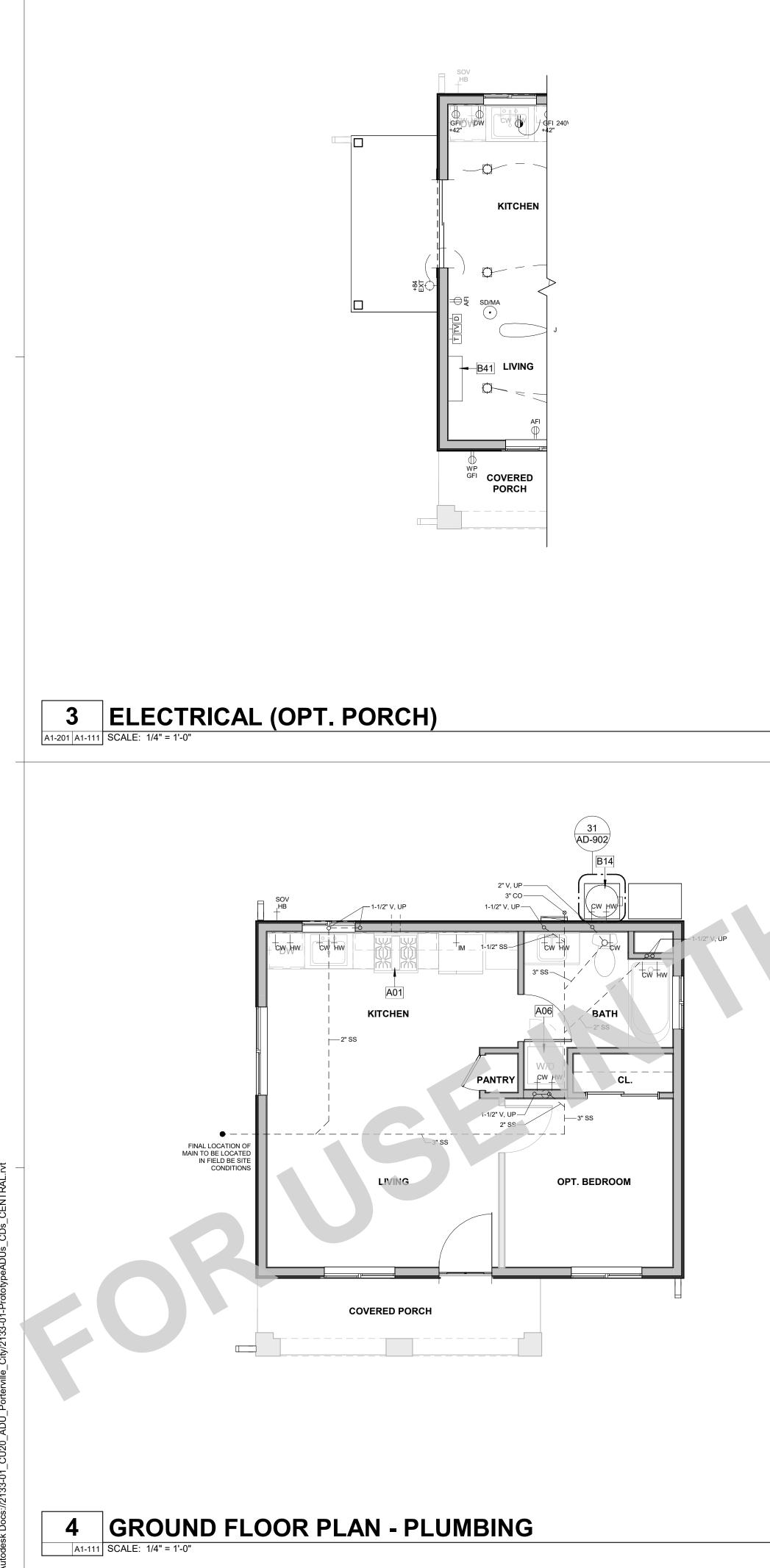
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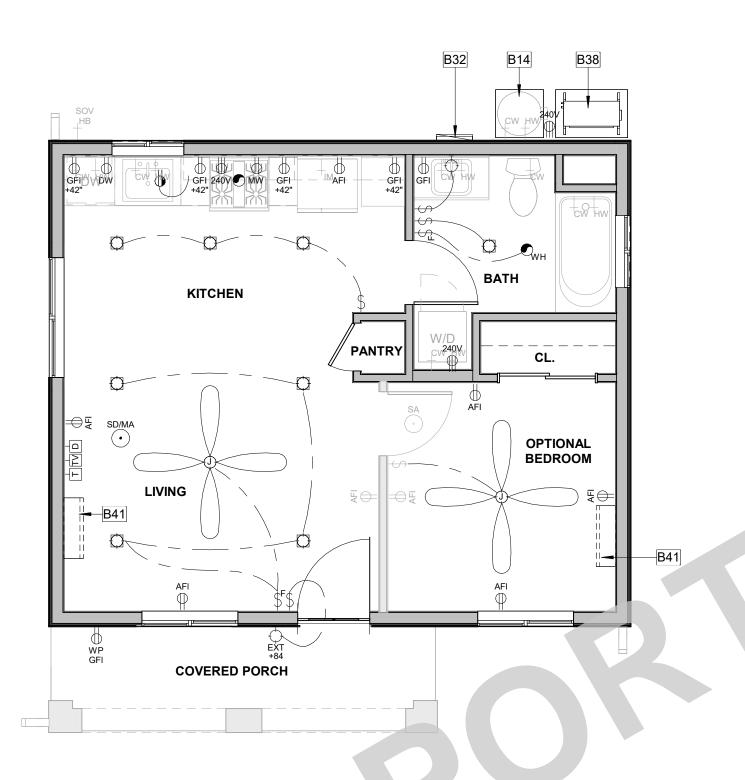
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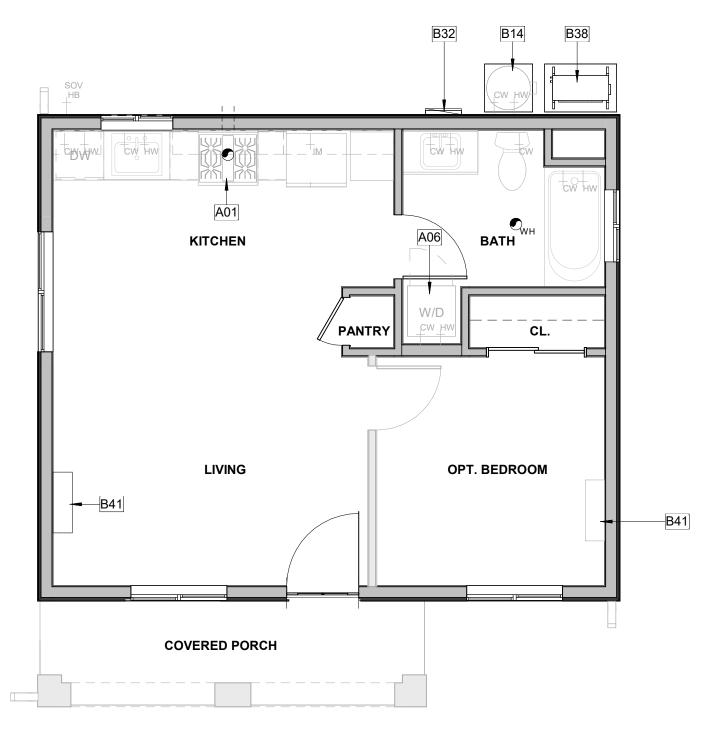
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GROUND FLOOR PLAN - ELECTRICAL A1-201 A1-111 SCALE: 1/4" = 1'-0"



GROUND FLOOR PLAN - MECHANICAL

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

2

GENERAL ELECTRICAL NOTES

1. REFER TO ELECTRICAL NOTES ON SHEET G-101.

KEYNOTES

OUTLET.

- A01 30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR. A06 STACKED WASHER/DRYER MACHINE LOCATION. PROVIDE WASTE AND WATER IN RECESSED WALL BOX. PROVIDE DRYER VENT. VENT TO OUTSIDE AIR THROUGH EXTERIOR WALL. DRYER VENT 4" MIN DIAMETER T EXTERIOR WITH SCREENED AND ONE DIRECTIONAL VENT GATE. MAX LENGTH TO NOT EXCEED 14' WITH A MAX OF 2 90-DEGREE BENDS. TERMINATION SHALL BE 3' MINIMUM FROM OPERABLE OPENING IN EXTERIOR WALL
- B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. STRAPPING DETAIL 51/AD-902.
- B32 100 AMP SERVICE, CONFIRM WITH EXISTING SERVICE. B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. FAN COIL. REFER TO PLANS FOR LOCATION OF OUTDOOR CONDENSING UNIT. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE

VENTILATION SUMMARIES

PER ASHRAE Standard 62.2, Table 7.1 (Perscriptive Duct Sizing Requirements) (Table 7.1 Assumes no elbows. Deduct 15-feet of allowable duct length for each turn, elbow or fitting. Fan rating cfm @ 0.25 in w.g., and rated at less than one sone.)

LOCAL VENTILATION RATE SUMMARY - BATHROOM(S) Bathroom Minimum Fan Flow (cfm) = 50 cfm Per Table 7.1, Duct Size = 4" Diameter; Flex Duct Maximun Allowable Duct Lenghth (ft) =70'

LOCAL VENTILATION RATE SUMMARY - KITCHEN Kitchen Minimum Fan Flow (cfm) = 100 cfm Per Table 7.1, Duct Size= 5" Diameter; Smooth Duct Maximun Allowable Duct Lenghth (ft) = 85 Feet

LOCAL VENTILATION RATE SUMMARY - WHOLE BUILDING Per ASHRAE Standard 62.2 Equation 4.1(a)

EXHAUST DUCT SIZE Qcfm = .01(floor area) + 7.5 (# of bedrooms + 1)

<u>STUDIO</u> Qcfm = .01(560) + 7.5 (0 + 1) Qcfm = 13.1

<u>1-BEDROOM</u> Qcfm = .01(560) + 7.5 (1 + 1) Qcfm = 20.6

DUCT SIZE PER ASHRAE TABLE 7.1 REFER TO LEGEND FOR WHOLE HOUSE FAN (WH)

CONTINOUS FAN FLOW (CFM) = 50 CFM

Per Table 7.1, Duct Size= 4" Diameter; Smooth duct Maximun Allowable Duct Lenghth (ft) = 35'

OR Per Table 7.1, Duct Size= 5" Diameter; FLEX DUCT Maximun Allowable Duct Lenghth (ft) = 70'

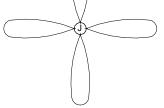
LEGEND

- ELECTRICAL SWITCH
- ^F ELECTRICAL SWITCH-THREE
- WAY SWITCH-FOUR WAY
- ELECTRICAL SWITCH-VACANCY SENSOR
- F ELECTRICAL SWITCH-DIMMER
- ELECTRICAL SWITCH-FAN ASTRONOMICAL TIME SWITCH
- EXHAUST FAN WHOLE HOUSE FAN
- PENDANT LIGHT

 P

 HIGH-EFFICACY
 SURFACE
- \bigcirc MOUNTED HIGH-EFFICACY LIGHT
- WALL MOUNTED HIGH-EFFICACY LIGHT
- +84 EXT EXTERIOR WALL MOUNTED HIGH-EFFICACY LIGHT
- RECESSED Ð HIGH- EFFICACY DOWNLIGHT
- RECESSED DOWNLIGHT-VAPOR PROOF

- SMOKE DETECTOR/ALARM
- SD/MA SMOKE/CARBON MONOXIDE
- DATA LOCATION
- TELEPHONE LOCATION CABLE ΤV TELEVISION
- LOCATION ③ ELECTRICAL JUNCTION BOX



- CEILING FAN OPTIONAL (PRE WIRE FOR CEILING FAN ONLY)
- ELECTRICAL WIRING L____J

- DUPLEX OUTLET ARC-FAULT CIRCUIT INTERRUPTER
- 240V DUPLEX OUTLET 240 VOLTS
- DUPLEX OUTLET GROUND FAULT INTERRUPTER
- DUPLEX OUTLET WATERPROOF GROUND FAULT INTERRUPTER
- OUPLEX OUTLET AFCI-HALF HOT
- MW DUPLEX OUTLET MICROWAVE
- DUPLEX OUTLET DISH WASHER
- COLD WATER CW
- STUB OUT <u>⊢</u>^{HW} HOT WATER STUB
- OUT WATER HOSE BIBB HB
- WATER HOSE BIBB SOV WITH SHUT OF VALVE
- ICE MACHINE IM STUB OUT

22"X30" MIN. CEILING ACCESS PANEL

F===== FAN COIL UNIT, PROVIDE DEDICATED OUTLET



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PROTOTYPE

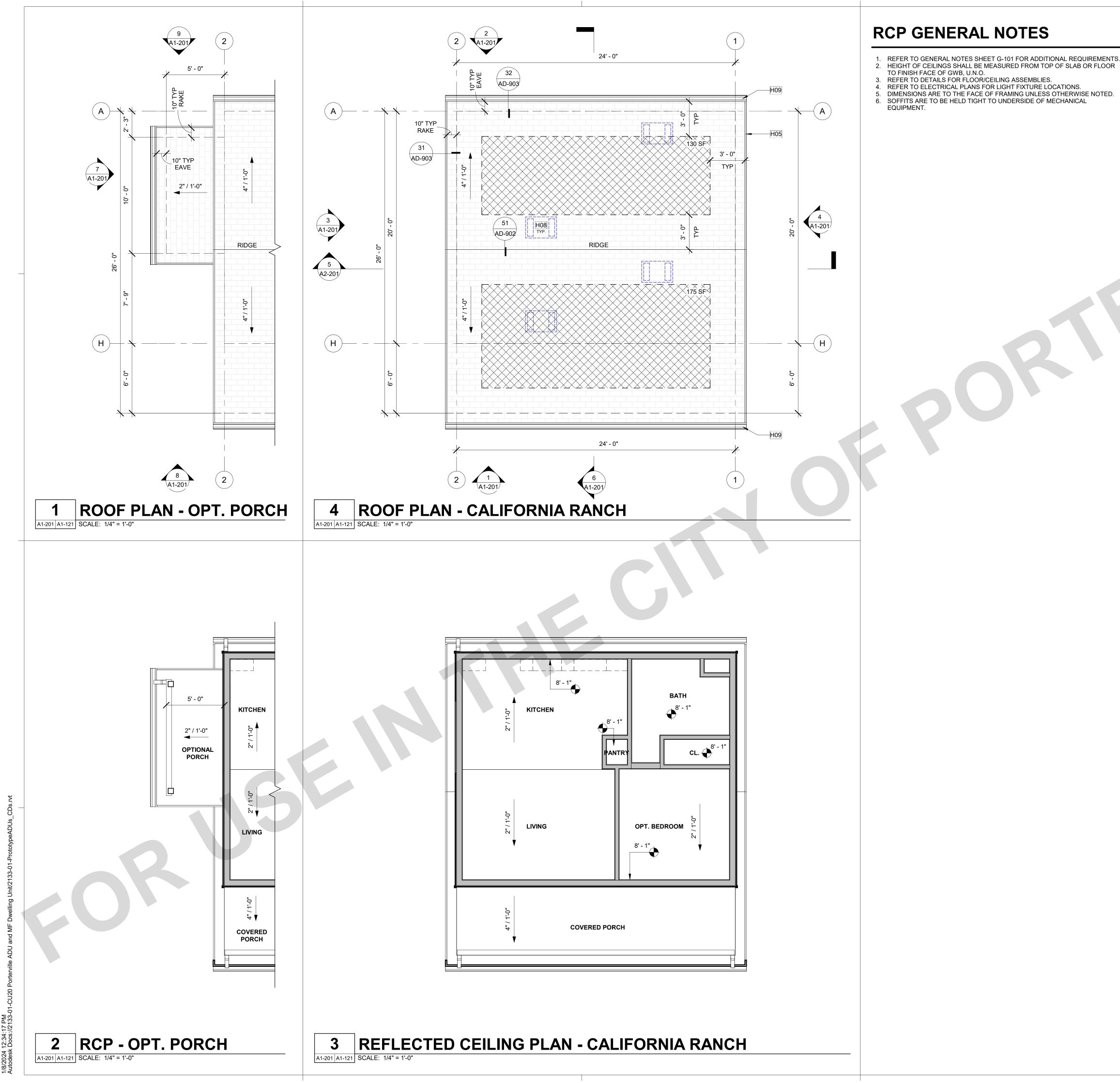
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DATE 02/06/24 SHEET

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ROOF PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION
- INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
- 3. VERIFY ROOF PENETRATIONS AND ROOF MOUNTED EQUIPMENT. 4. REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR
- CONTINUATION. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION
- AND ROOF SHEATHING. 6. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- 7. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 8. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE
- 9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS 10. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

KEYNOTES

H05 H08

H09

ROOF EDGE/FASCIA. SEE ELEVATION FOR FASCIA TYPE. ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.

GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE 72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF "UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF) "LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF)

REQUIRED ATTICUPPER VENTINGLOWER VENTINGVENTING (NFA)REQUIRED (NFA)REQUIRED (NFA) ATTIC AREA ATTIC -436 SF 1.45 SF 0.73 SF 0.73 SF PLAN 1

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
LOWER	-			
O'HAGIN SHINGLE ROOF VENT (LOWER)	2	2' - 8"	0.50 SF	1.00 SF
UPPER	1			1.00 SF
O'HAGIN SHINGLE ROOF VENT (UPPER)	2	2' - 8"	0.50 SF	1.00 SF
				1.00 SF

LEGEND

_10' **-** 0

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HEIGHT OF TOP OF ROOFING SURFACE

ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE) 2" / 12"

> O'HAGIN FIRE & ICE (W.U.I. COMPLIANT) ATTIC VENT, PAINT TO MATCH ROOF COLOR.

WALL BELOW

GUTTER, CONNECT TO DOWNSPOUT

-DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O. FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.



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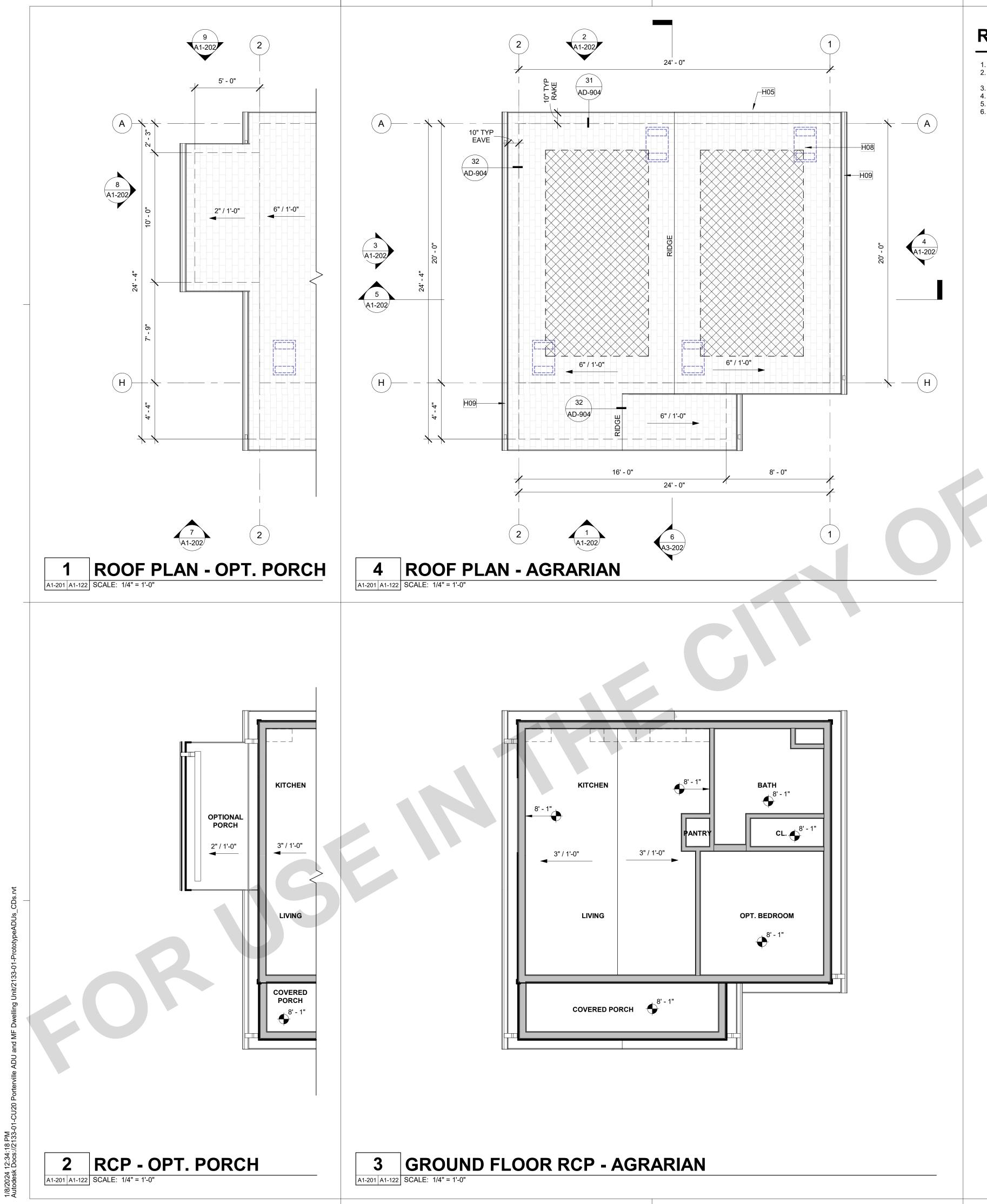
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RCP GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR
- TO FINISH FACE OF GWB, U.N.O. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE LOCATIONS.

EQUIPMENT.

DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED. SOFFITS ARE TO BE HELD TIGHT TO UNDERSIDE OF MECHANICAL

ROOF PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION
- INCLUDING MEMBER SIZES AND CONNECTION HARDWARE. 3. VERIFY ROOF PENETRATIONS AND ROOF MOUNTED EQUIPMENT.
- 4. REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR
- CONTINUATION. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION 5.
- AND ROOF SHEATHING. 6. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- 7. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 8. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE
- 9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS 10. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

KEYNOTES

H05 H08

H09

ROOF EDGE/FASCIA. SEE ELEVATION FOR FASCIA TYPE. ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.

GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE 72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF "UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF) "LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC -	436 SF	1.45 SF	0.73 SF	0.73 SF
PLAN 1				

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
LOWER				
O'HAGIN SHINGLE ROOF VENT (LOWER)	2	2' - 8"	0.50 SF	1.00 SF
UPPER		1	1	1.00 SF
O'HAGIN SHINGLE ROOF VENT (UPPER)	2	2' - 8"	0.50 SF	1.00 SF
				1.00 SF

LEGEND

_10' **-** 0 HEIGHT OF TOP OF ROOFING SURFACE

ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)



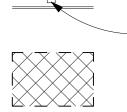
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2" / 12"

O'HAGIN FIRE & ICE (W.U.I. COMPLIANT) ATTIC VENT, PAINT TO MATCH ROOF COLOR.

WALL BELOW

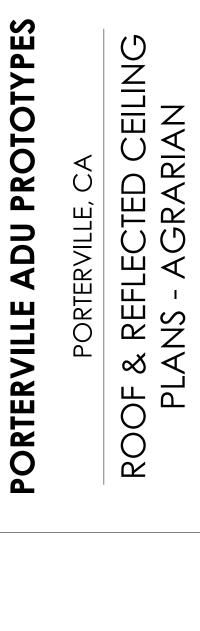
GUTTER, CONNECT TO DOWNSPOUT



-DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O. FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.



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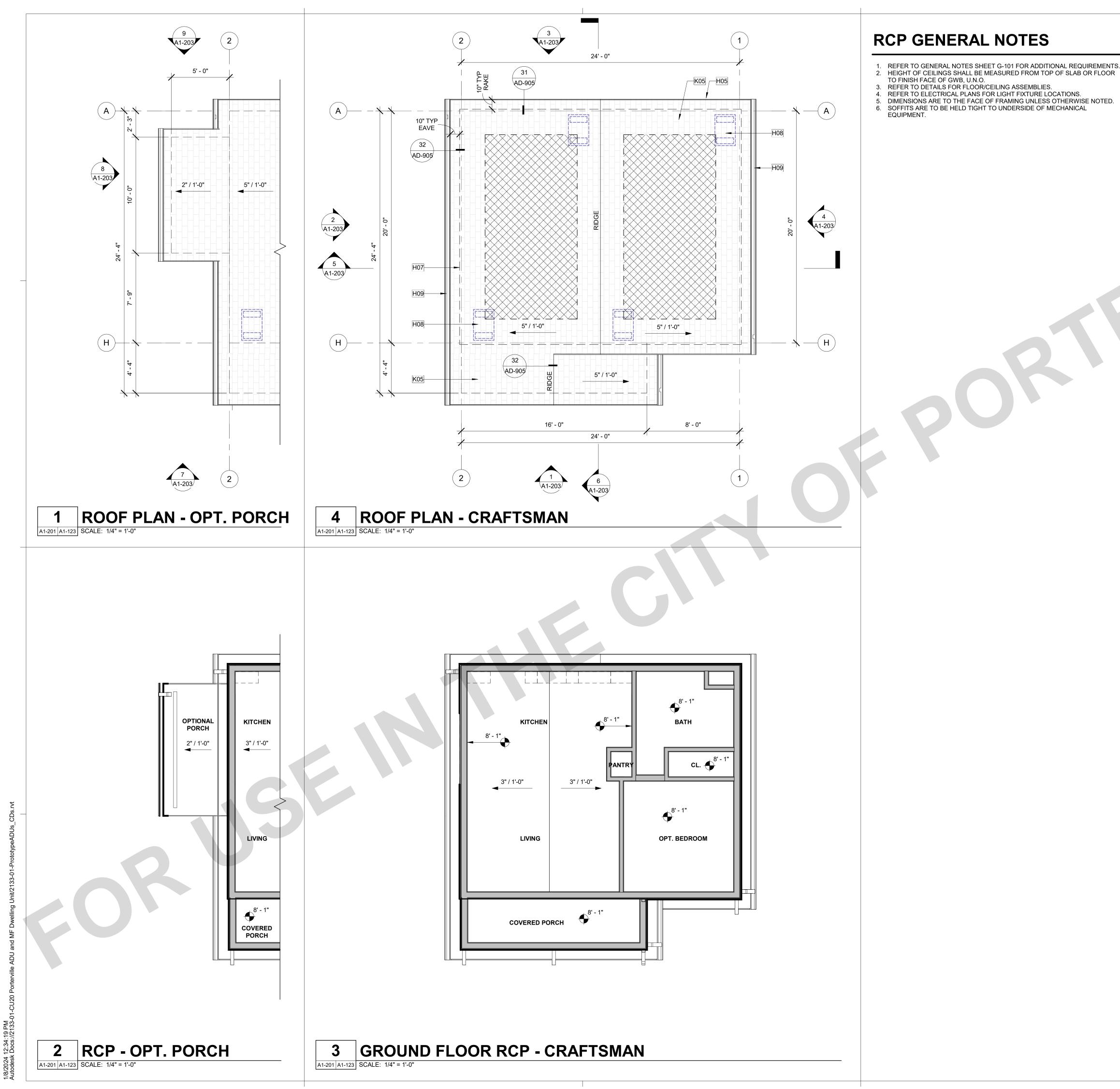


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ROOF PLAN GENERAL NOTES

- 1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION
- INCLUDING MEMBER SIZES AND CONNECTION HARDWARE. 3. VERIFY ROOF PENETRATIONS AND ROOF MOUNTED EQUIPMENT.
- 4. REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR
- CONTINUATION. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION 5.
- AND ROOF SHEATHING. 6. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- 7. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 8. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE
- 9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS 10. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

KEYNOTES

-105	ROOF EDGE/FASCIA. SEE ELEVATION FOR FASCIA TYPE.
107	BUILDING LINE BELOW.
408	ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS.
409	GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER.
(05	CLASS A ASPHALT COMPOSITE ROOF SHINGLES. GAF TIMBERLINE HD OR APROVED EQUAL. THE USE OF CLASS A TILE ROOFING IS ALSO ALLOWED AND HAS BEEN ACCOUNTED FOR IN STRUCTURAL ROOF LOADS.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE 72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC - PLAN 1	436 SF	1.45 SF	0.73 SF	0.73 SF

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
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UPPER		1		1.00 SF
O'HAGIN SHINGLE ROOF VENT (UPPER)	2	2' - 8"	0.50 SF	1.00 SF
L				1.00 SF

LEGEND

HEIGHT OF TOP OF ROOFING SURFACE

2" / 12"

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10' - 0"

ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)



O'HAGIN FIRE & ICE (W.U.I. COMPLIANT) ATTIC VENT,

WALL BELOW

GUTTER, CONNECT TO DOWNSPOUT

PAINT TO MATCH ROOF COLOR.

-DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O. FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.



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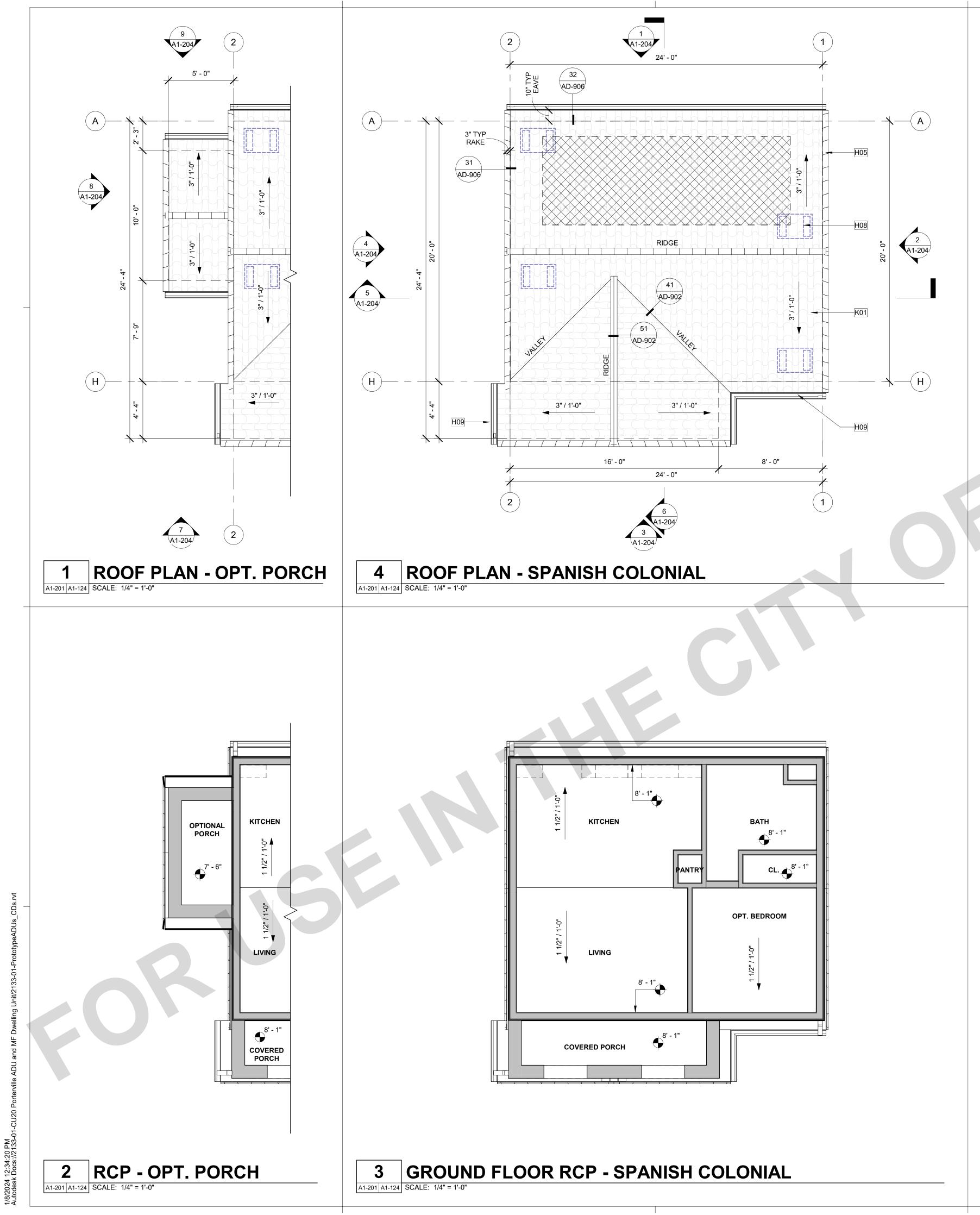
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RCP GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR
- TO FINISH FACE OF GWB, U.N.O. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
- REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE LOCATIONS.
- DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED. SOFFITS ARE TO BE HELD TIGHT TO UNDERSIDE OF MECHANICAL EQUIPMENT.

ROOF PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS 2. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION
- INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
- 3. VERIFY ROOF PENETRATIONS AND ROOF MOUNTED EQUIPMENT. 4. REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR
- CONTINUATION. PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION 5.
- AND ROOF SHEATHING. 6. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- 7. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 8. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE
- 9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS 10. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

KEYNOTES

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H09	
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ROOF EDGE/FASCIA. SEE ELEVATION FOR FASCIA TYPE. ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS AND MATERIALS. GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER. CONCRETE S-TILE.

ROOF VENTING CALCULATIONS

UPPER VENTS: O'HAGIN TAPERED LOW PROFILE STANDARD LINE 72.0 SQ.IN OF AIR MOVEMENT PER VENT = 72. SQ.IN. / 144 = 0.5 SF "UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/150) * (0.5) / (0.5 SF)

ATTIC	AREA	REQUIRED ATTIC VENTING (NFA)	UPPER VENTING REQUIRED (NFA)	LOWER VENTING REQUIRED (NFA)
ATTIC - PLAN 1	436 SF	1.45 SF	0.73 SF	0.73 SF

VENT TYPE	COUNT	VENT LENGTH	NET FREE AREA PER VENT	PROVIDED NET FREE AREA
LOWER				
O'HAGIN SHINGLE ROOF VENT (LOWER)	2	2' - 8"	0.50 SF	1.00 SF
UPPER			1	1.00 SF
O'HAGIN SHINGLE ROOF VENT (UPPER)	2	2' - 8"	0.50 SF	1.00 SF
			1	1.00 SF

LEGEND

_10' **-** 0 \mathbf{O}

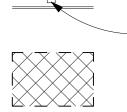
HEIGHT OF TOP OF ROOFING SURFACE

ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE) 2" / 12"

> O'HAGIN FIRE & ICE (W.U.I. COMPLIANT) ATTIC VENT, PAINT TO MATCH ROOF COLOR.

WALL BELOW

GUTTER, CONNECT TO DOWNSPOUT



-DOWNSPOUT, TO ROOF OR SPLASHBLOCK BELOW U.N.O. FUTURE SOLAR ZONE. REFER TO SOLAR READY NOTES ON SHEET G-101.



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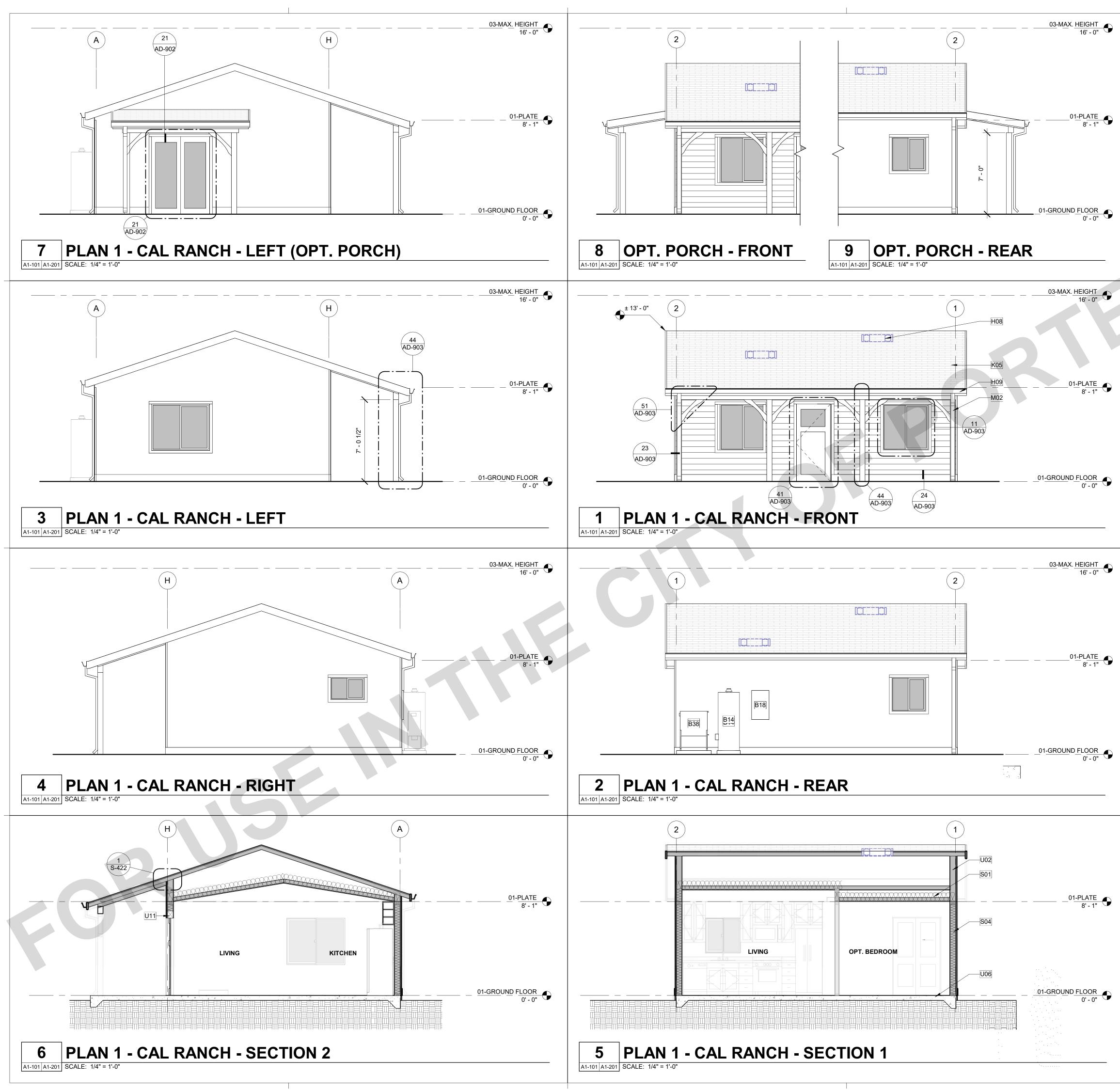


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GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS 2. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. 3. REFER TO ROOF PLAN FOR OVERHANGS. FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
- 4. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION. REFER TO PLOT PLAN FOR PLAN TYPE, ELEVATION STYLE AND COLOR
- SCHEME. 6. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL
- COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1). ANCHORED VENEER, BRICK, CONCRETE, MASONRY OR STONE IN
- ACCORDANCE WITH CRC R703.8
- ADHERED VENEER, CONCRETE, STONE OR MASONRY IN ACCORDANCE WITH CRC R703.12
- EXTERIOR PLASTER (STUCCO) INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF CRC R703.7 AND COMPLIANCE WITH ASTM C926 AND ASTM C1063, STANDARD SPECIFICATIONS FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER, INCLUDING INSTALLATION OF CONTROL JOINTS. 10. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN
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MASONRY OR STONE VENEER INSTALLED OVER FOAM SHEATHING.

SECTIONS GENERAL NOTES

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- REQUIREMENTS.
- PER 2022 CRC SECION R317 SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY BURABLE OR PRESERVATIVE-TREATED WOOD.

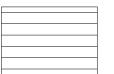
KEYNOTES

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- B18 ELECTRIC PANEL TBD.
- B32 100 AMP SERVICE, CONFIRM WITH EXISTING SERVICE. B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE
- H08 ATTIC VENT, PAINT FINISH TO MATCH ROOF COLOR, REFER TO COLORS AND MATERIALS.
- H09 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER.
- K05 CLASS A ASPHALT COMPOSITE ROOF SHINGLES. GAF TIMBERLINE HD OR APROVED EQUAL. THE USE OF CLASS A TILE ROOFING IS ALSO ALLOWED AND
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- S01 CEILING INSULATION. REFER TO TITLE 24 (R-38 MIN.).
- S04 2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
- U02 WOOD TRUSS. REFER TO STRUCTURAL.
- U06 CONCRETE SLAB FOUNDATION U11 WOOD BEAM / HEADER, REFER TO STRUCTURAL

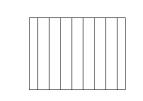
LEGEND

01-PLATE 8' - 1"

3-COAT CEMENT PLASTER (COLOR TO MATCH PRIMARY RESIDENCE)



CEMENTITOUS LAP SIDING (COLOR AND WIDTH TO MATCH PRIMARY RESIDENCE)



CEMENTITOUS BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

CEMENTITOUS SHINGLE SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

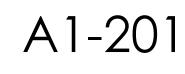


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GENERAL NOTES

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SECTIONS GENERAL NOTES

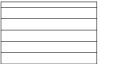
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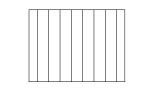
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- L15 WIN/DOOR SURROUNDS
- M02 DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM
- S01 CEILING INSULATION. REFER TO TITLE 24 (R-38 MIN.).
- S04 2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.)
- T18 WINDOW PER SCHEDULE. U02 WOOD TRUSS. REFER TO STRUCTURAL.
- U06 CONCRETE SLAB FOUNDATION

LEGEND

3-COAT CEMENT PLASTER (COLOR TO MATCH PRIMARY RESIDENCE)



CEMENTITOUS LAP SIDING (COLOR AND WIDTH TO MATCH PRIMARY RESIDENCE)



CEMENTITOUS BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

CEMENTITOUS SHINGLE SIDING (COLOR TO MATCH PRIMARY RESIDENCE)



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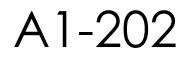
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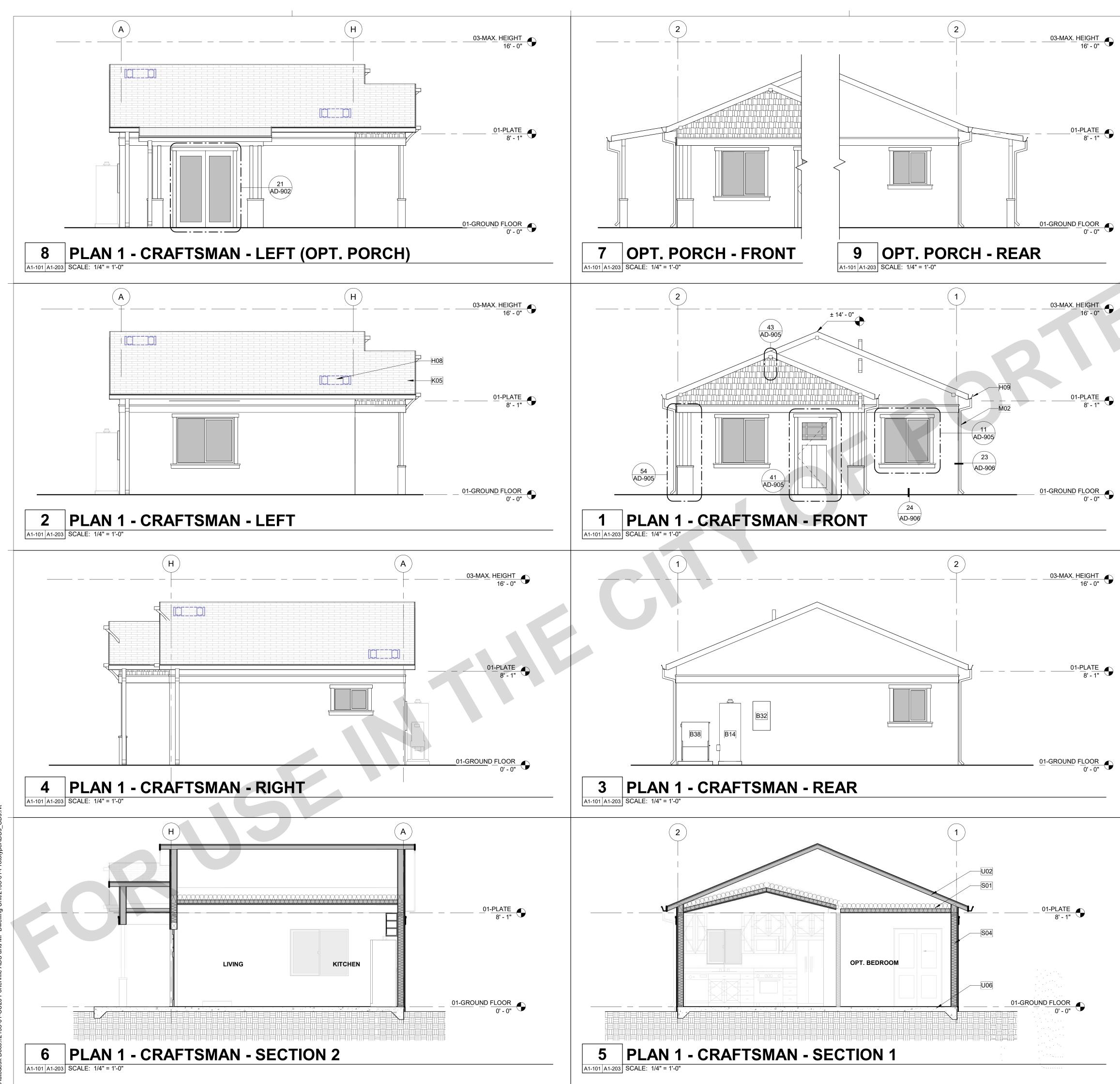
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GENERAL NOTES

1	۱.	REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
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		WINDOW INFORMATION.

- 5. REFER TO PLOT PLAN FOR PLAN TYPE, ELEVATION STYLE AND COLOR SCHEME.
- 6. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1).
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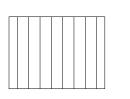
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LEGEND

3-COAT CEMENT PLASTER (COLOR TO MATCH PRIMARY RESIDENCE)

CEMENTITOUS LAP SIDING (COLOR AND WIDTH TO MATCH PRIMARY RESIDENCE)



CEMENTITOUS BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

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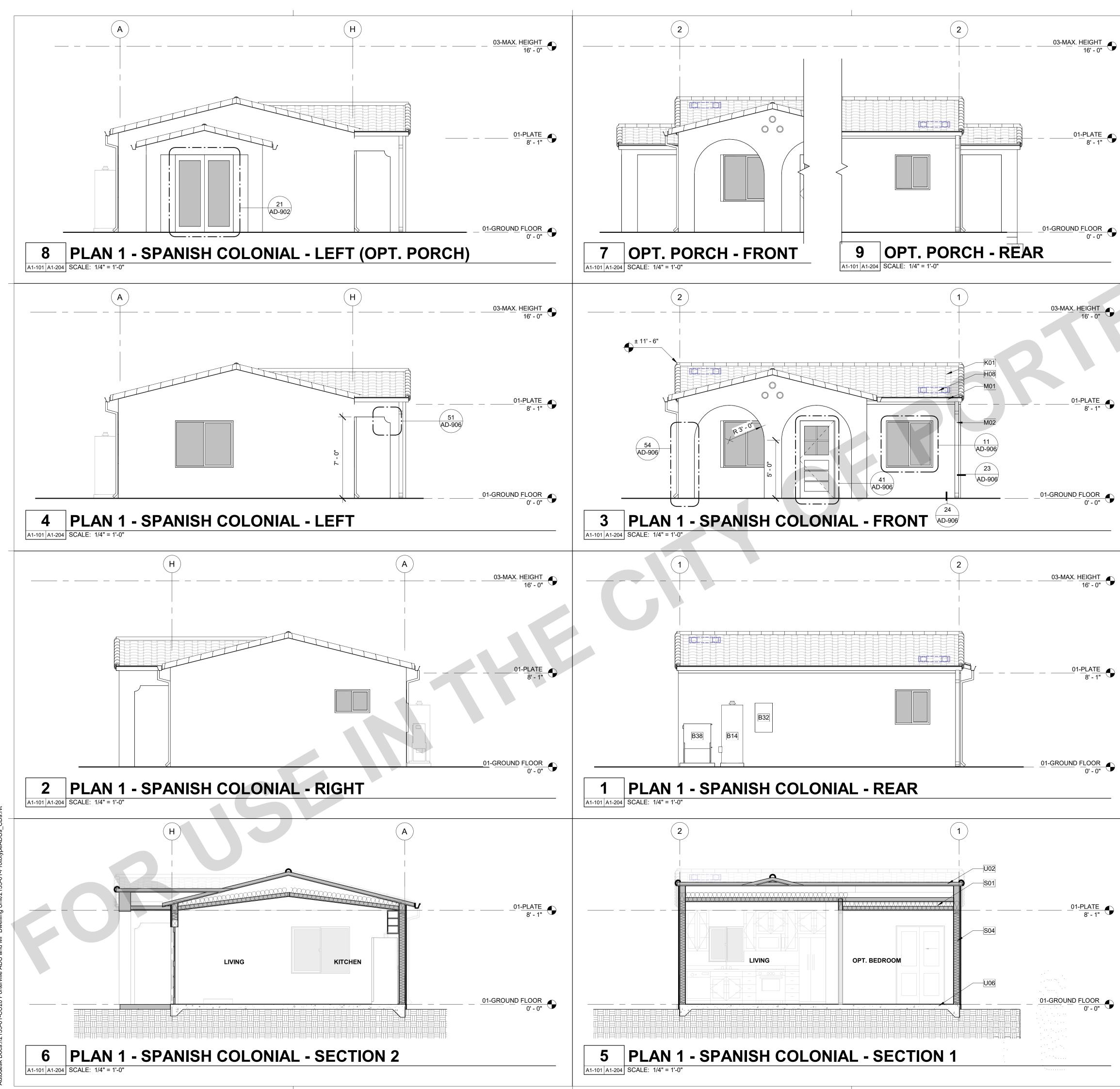
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SHEET A1-203



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16' - 0"	

 REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENT SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. REFER TO ROOF PLAN FOR OVERHANGS. FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION. REFER TO PLOT PLAN FOR PLAN TYPE, ELEVATION STYLE AND COLOR SCHEME. THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1). ANCHORED VENEER, BRICK, CONCRETE, MASONRY OR STONE IN ACCORDANCE WITH CRC R703.8 ADHERED VENEER, CONCRETE, STONE OR MASONRY IN ACCORDANCE V CRC R703.12 EXTERIOR PLASTER (STUCCO) INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF CRC R703.7 AND COMPLIANCE WITH ASTM C926 AND AST C1063, STANDARD SPECIFICATIONS FOR INSTALLATION OF LATHING AND 	Ξ
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PROVISIONS OF CRC R703.7 AND COMPLIANCE WITH ASTM C926 AND AST	NITH
 FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BAS PLASTER, INCLUDING INSTALLATION OF CONTROL JOINTS. 10. GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH CRC TABLE R602.3. 	
 CLADDING ATTACHMENT OVER FOAM SHEATHING TO WOOD FRAMING IN ACCORDANCE WITH CRC R703.15. REFER TO CRC R703.8 FOR ANCHORE MASONRY OR STONE VENEER INSTALLED OVER FOAM SHEATHING. 	
SECTIONS GENERAL NOTES	
1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALSS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLAN *KEYNOTES ONLY APPLY IF REFERENCED ON PLANS.	
 WALL ASSEMBLIES TO BE PER FLOOR PLAN. DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION. 	
 INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION. REFER TO FIRE BLOCKING NOTES ON SHEET G-101 FOR FIRE BLOCKING DECLUDEMENTS. 	
REQUIREMENTS. 6. PER 2022 CRC SECION R317 SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURAL	IY
BURABLE OR PRESERVATIVE-TREATED WOOD.	
 KEYNOTES B14 50 GALLON TANK TYPE ELECTRIC WATER HEATER. REFER TO TITLE 24 FO ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER TH UNIT IN EACH DIRECTION. 3" MIN. ABOVE GRADE. STRAPPING DETAIL 51/AD-902. B32 100 AMP SERVICE, CONFIRM WITH EXISTING SERVICE. B38 MULTI-ZONE HEAT PUMP CONDENSING UNIT. REFER TO PLANS FOR LOCA OF INDOOR FANL COIL UNITS. DEFER TO THE 524 FOR ADDITIONAL 	IAN
 OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN E. DIRECTION, 3" MIN. ABOVE GRADE. H08 ATTIC VENT. PAINT FINISH TO MATCH ROOF COLOR. REFER TO COLORS 	
MATERIALS. K01 CONCRETE S-TILE. M01 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVED AND DEDDID IN OUTTED DED OPD 2007 5.4	
ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R327.5.4 M02 DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM S01 CEILING INSULATION. REFER TO TITLE 24 (R-38 MIN.).	
 S04 2X6 WALL INSULATION. REFER TO TITLE 24 (R-21 MIN.) U02 WOOD TRUSS. REFER TO STRUCTURAL. U06 CONCRETE SLAB FOUNDATION 	
LEGEND	
LEGEND	
LEGEND 3-COAT CEMENT PLASTER (COLOR TO MATCH PRIMARY RESIDENCE)	
3-COAT CEMENT PLASTER (COLOR TO MATCH	



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le, ca /Ations & NNS - SPANISH PROTOTYPE PORTERVILLE, C, EXTERIOR ELEVATI BUILDING SECTIONS -COLONIAL NS ADU PORTERVILLE

CEMENTITOUS BOARD AND BATTEN SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

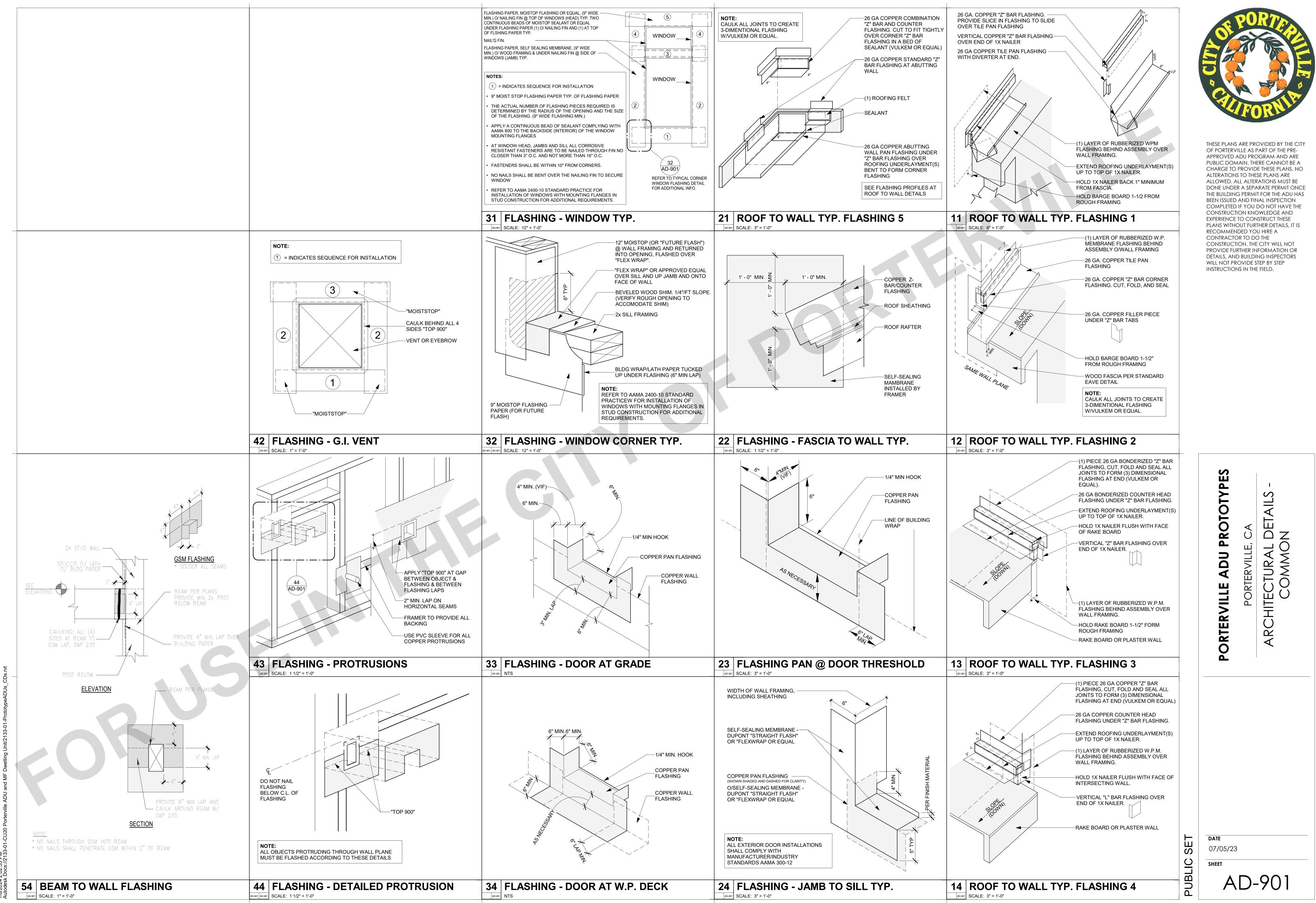
CEMENTITOUS SHINGLE SIDING (COLOR TO MATCH PRIMARY RESIDENCE)

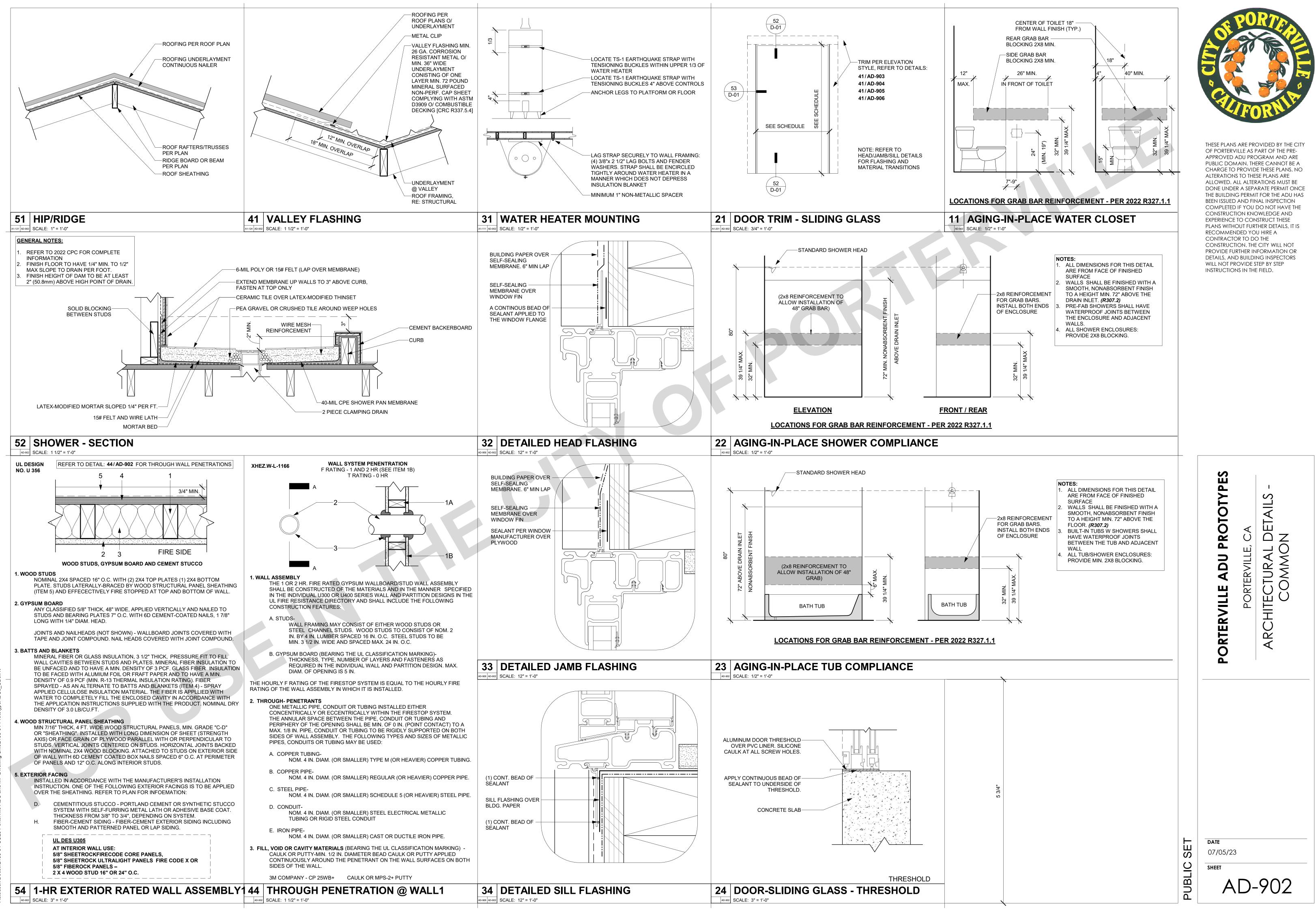
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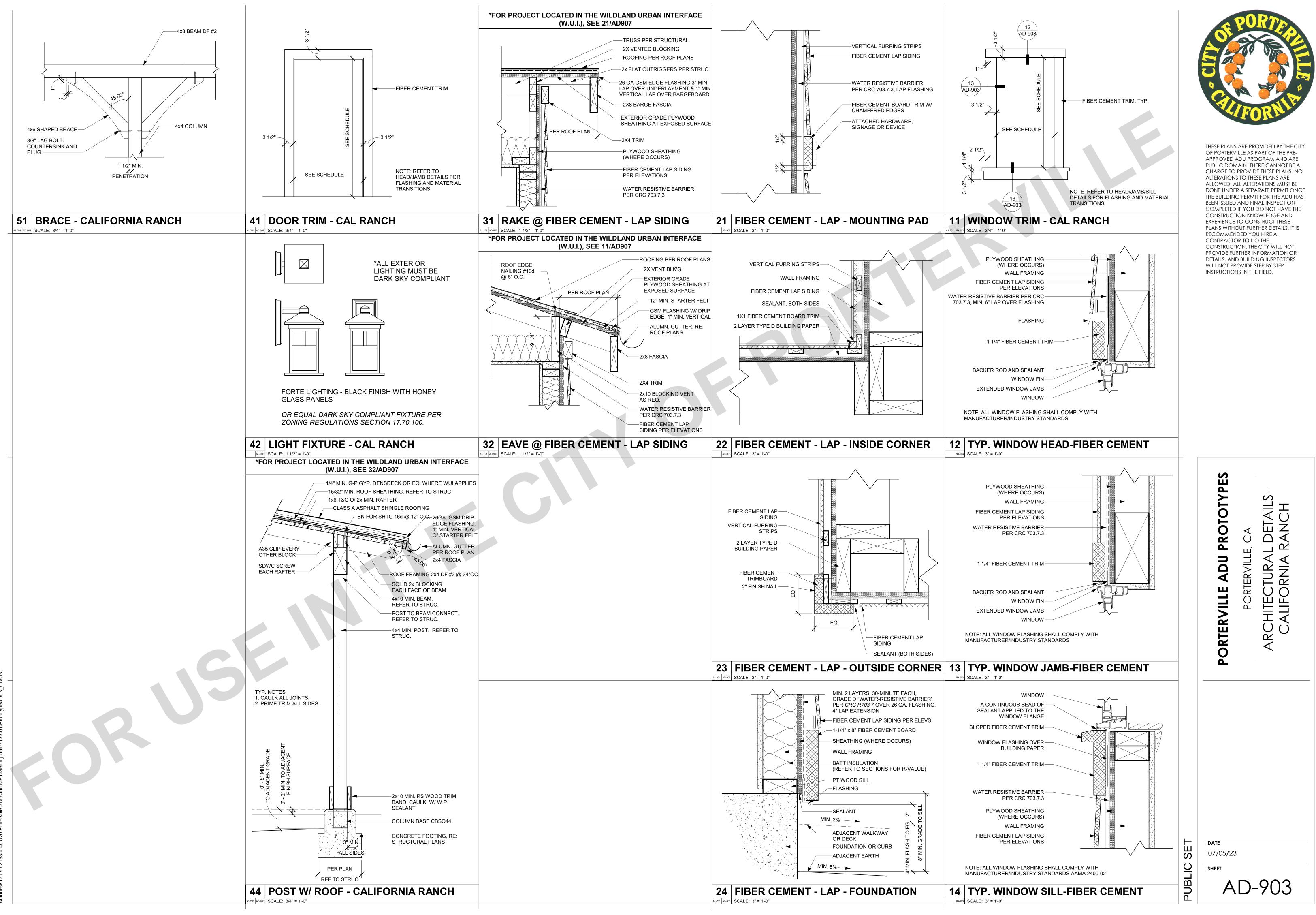
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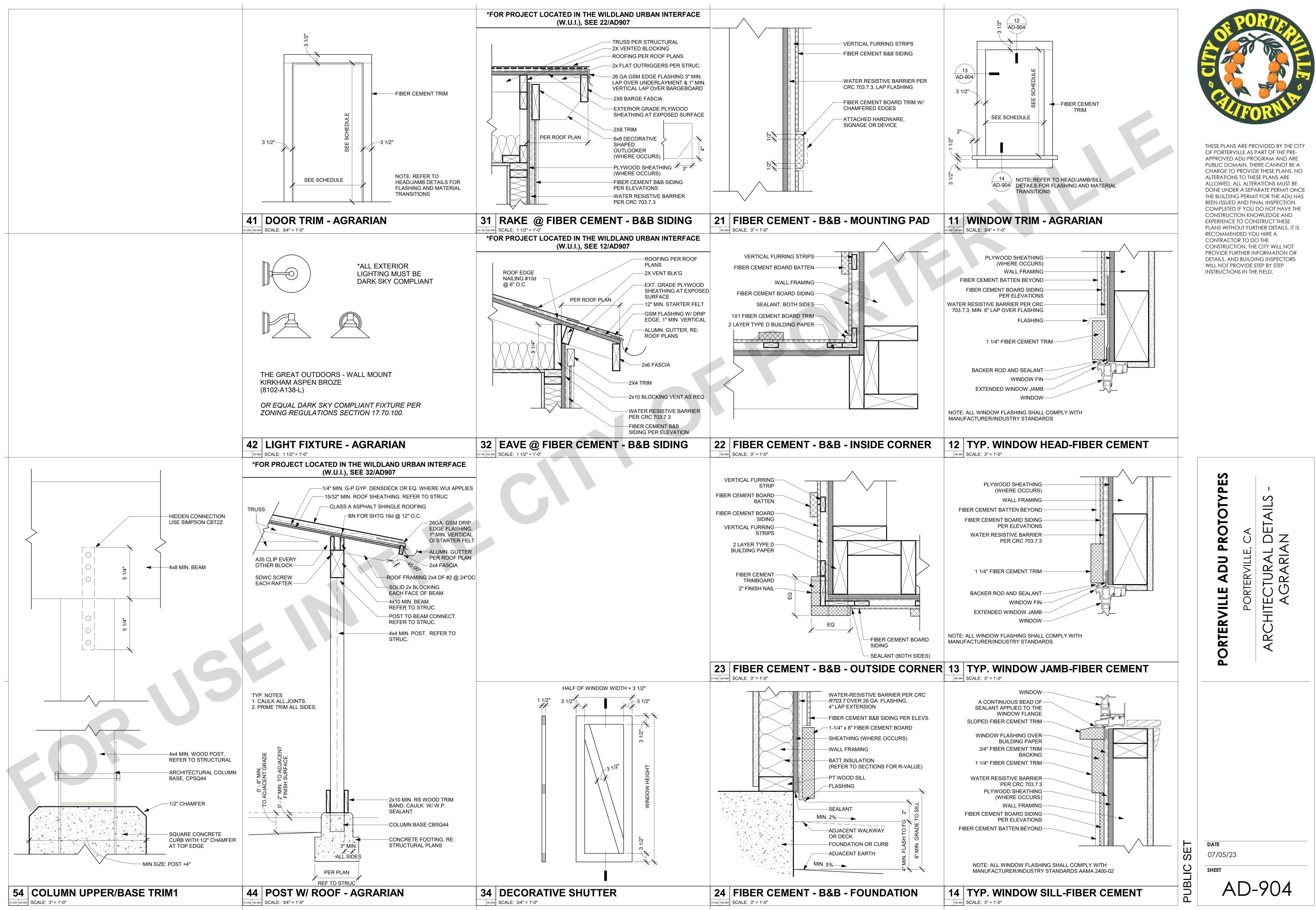
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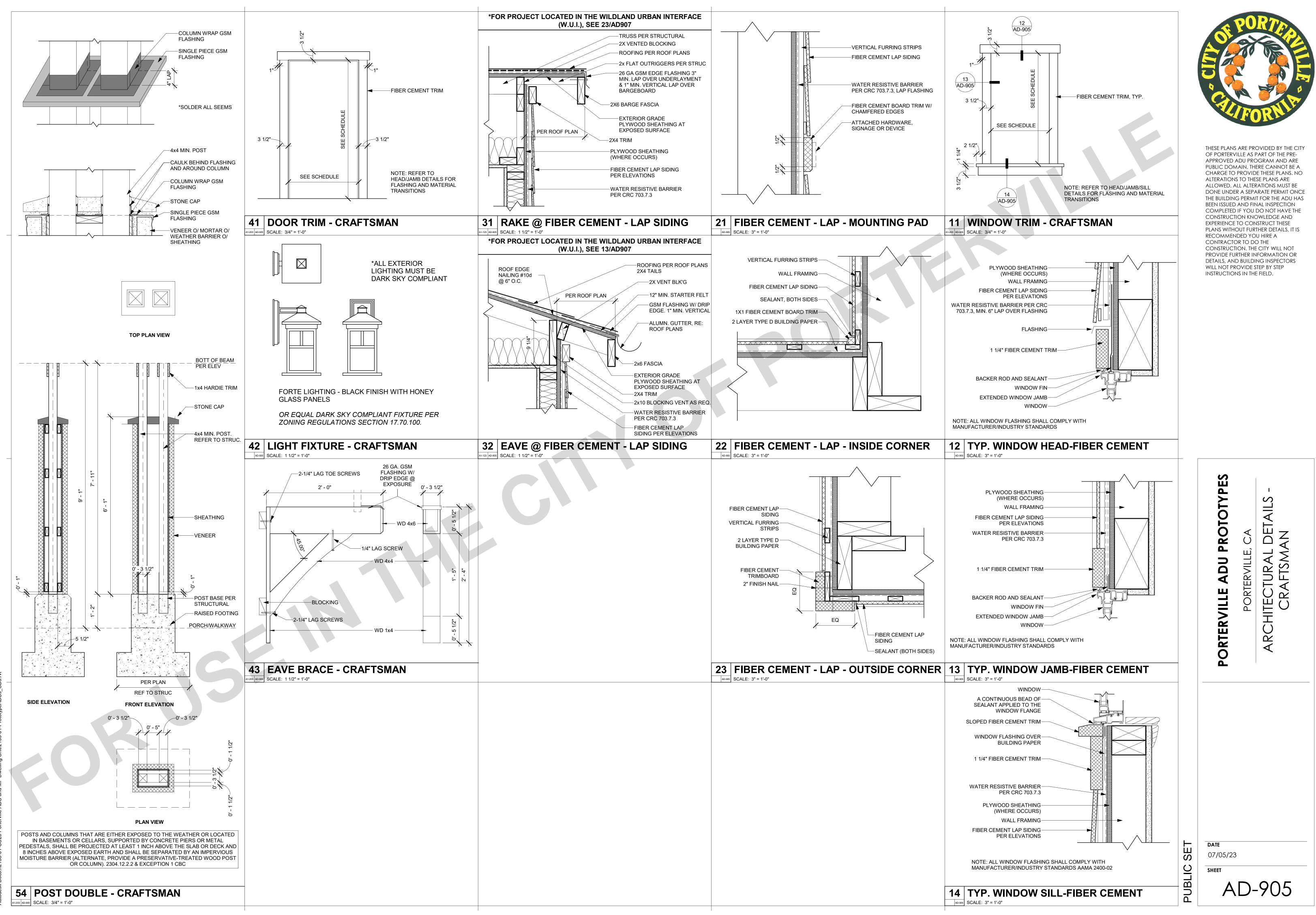
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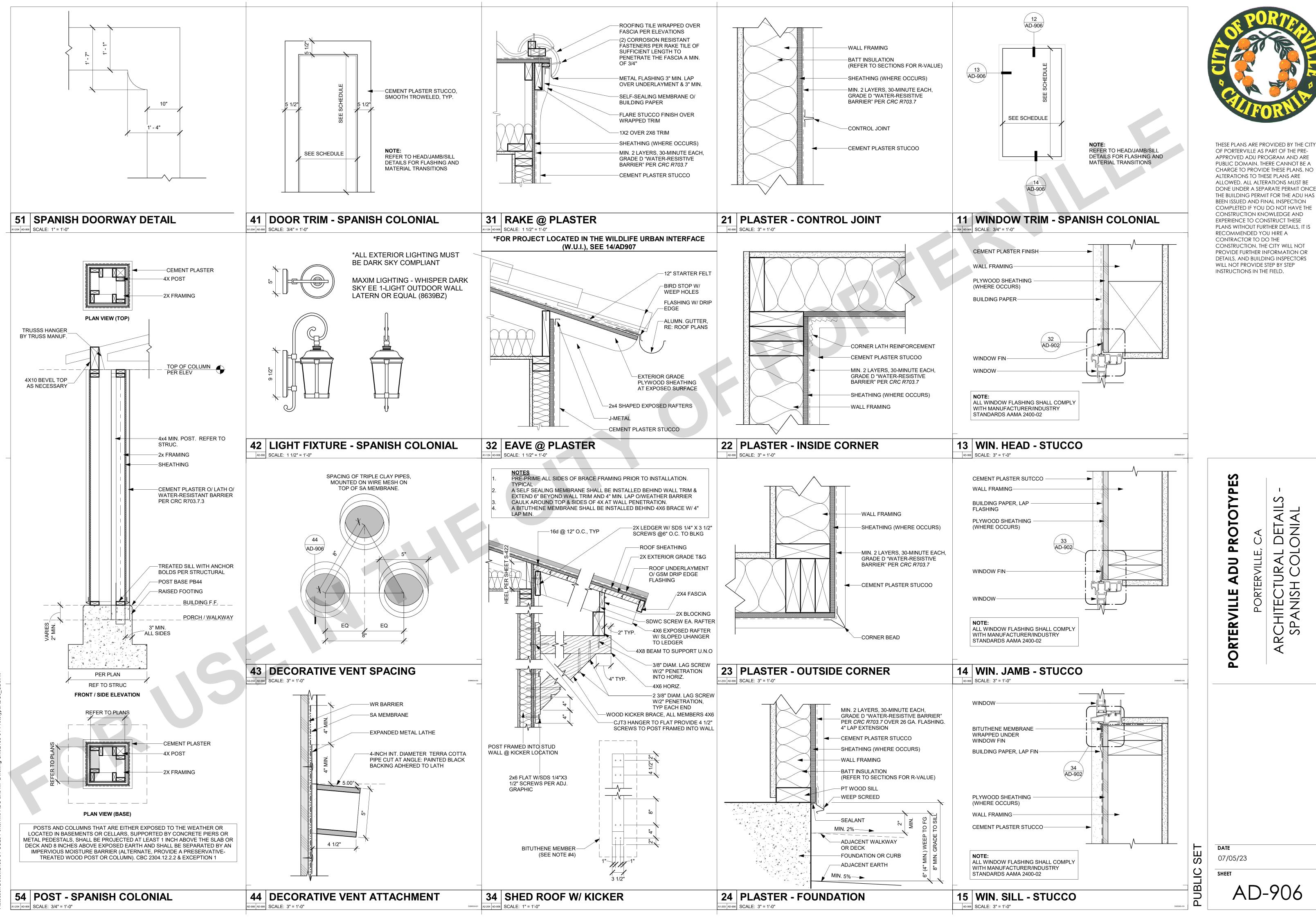










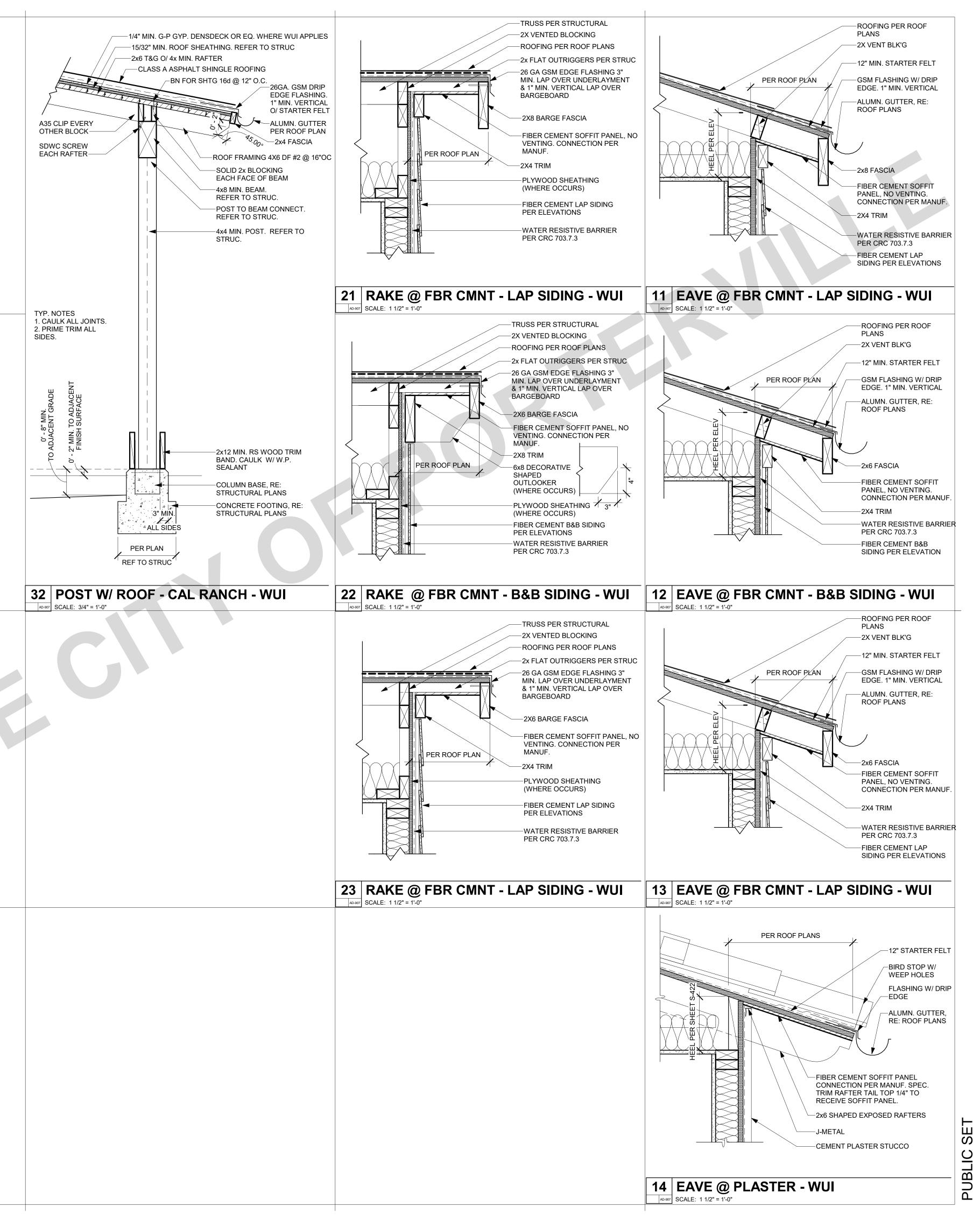




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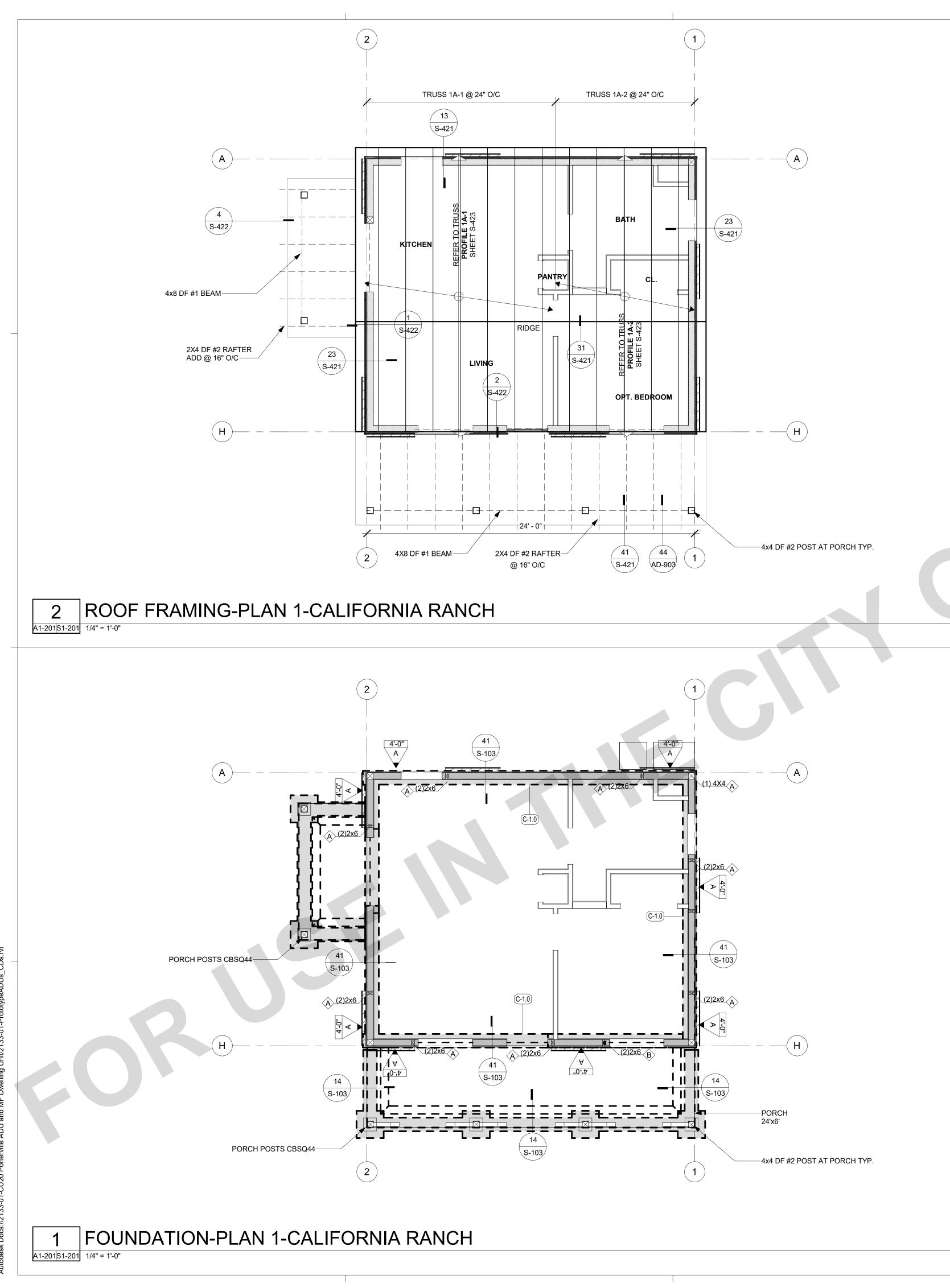
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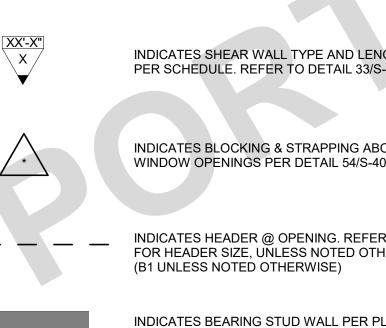
DATE 07/05/23 SHEET

AD-907



- 1. SEE THE FOLLOWING SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS A. SYMBOLS AND ABBREVIATIONS B. STRUCTURAL GENERAL NOTES
 - C. TESTING AND INSPECTION D. TYPICAL CONCRETE DETAILS
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- 8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.

SYMBOL LEGEND



FRAMING PLAN NOTES

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- 6. ALL POSTS IN 6"x WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE ALL POSTS IN 4"x WALLS SHALL BE 4x4 UNLESS NOTED OTHERWISE
- ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTITION WALL DETAIL 43/S-401, UNO
- 8. PLYWOOD SHEATHED DIAPHRAGM TYPES: ALL ROOF DIAPHRAGMS SHALL BE TYPE A, UNO REFER TO 12/S-403

SCHEDULES

SHEARWALL HOLDOWN SCHEDULE				
			DETA	
А	A NO HOLD-DOWN REQ.			
В	INDICATES	INDICATES SIMPSON HOLDOWN W/ SSTB TO: CONCRETE FOUNDATION		
		FLOOR/ROOF BEAM SCHEDULE		
MARK		SIZE	REMAR	
B1		4x8		
B2		3x8	PRESSURE	

BRACE WALL-WOOD STRUCTURAL PANEL (WSP)

		CONNECTION CRITERIA		
MARK	MIN. THICKNESS	FASTENERS	SPACING	
А	3/8"	6D COMMON / 1.5" MIN. PENETRATION	6" EDGES / 12" FIELD	

FOUNDATION ANCHORAGE (CRC403.1.6)

WOOD SILL PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, WOOD SILL PLATES OF BRACED WALL PANELS AT BUILDING INTERIORS ON MONOLITHIC SLABS AND ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 1/2-INCH-DIAMETER (12.7 MM) ANCHOR BOLTS SPACED NOT GREATER THAN 6 FEET (1829 MM) ON CENTER OR APPROVED ANCHORS OR ANCHOR STRAPS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2-INCH-DIAMETER (12.7 MM) ANCHOR BOLTS. BOLTS SHALL EXTEND NOT LESS THAN 7 INCHES (178 MM) INTO CONCRETE OR GROUTED CELLS OF CONCRETE MASONRY UNITS. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. A NUT AND WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT THERE SHALL BE NOT FEWER THAN TWO BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES (305 MM) OR LESS THAN SEVEN BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION. INTERIOR BEARING WALL SOLE PLATES ON MONOLITHIC SLAB FOUNDATION THAT ARE NOT PART OF A BRACED WALL PANEL SHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS. SILL PLATES AND SOLE PLATES SHALL BE PROTECTED AGAINST DECAY AND TERMITES WHERE REQUIRED BY SECTIONS R317 AND R318. EXCEPTIONS:

WALLS 24 INCHES (610 MM) TOTAL LENGTH OR SHORTER CONNECTING OFFSET BRACED WALL PANELS SHALL BE ANCHORED TO THE FOUNDATION WITH NOT FEWER THAN ONE ANCHOR BOLT LOCATED IN THE CENTER THIRD OF THE PLATE SECTION AND SHALL BE ATTACHED TO ADJACENT BRACED WALL PANELS AT CORNERS AS SHOWN IN ITEM 9 OF TABLE R602.3(1).

PLATE WASHERS (CRC602.11.1)

PLATE WASHERS, NOT LESS THAN 0.229 INCH BY 3 INCHES BY 3 INCHES (5.8 MM BY 76 MM BY 76 MM) IN SIZE, SHALL BE PROVIDED BETWEEN THE FOUNDATION SILL PLATE AND THE NUT EXCEPT WHERE APPROVED ANCHOR STRAPS ARE USED. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16 INCH (5 MM) LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4 INCHES (44 MM), PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.

	6	
GTH, -402		INDICATES SHEAR WALL TYPE AND LENGTH PER SCHEDULE
OVE & BELOW		INDICATES CONT BLK @ STRAP
R TO 52/S-401 IERWISE. –	DSC#_	INDICATES DSC CONNECTION
LAN		INDICATES NON BEARING WALL

CONTINUOUS SHEATHING (CRC602.10.4.2) CONTINUOUS SHEATHING METHODS REQUIRE STRUCTURAL PANEL SHEATHING TO BE USED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF A BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS AND SHALL MEET THE REQUIREMENTS OF SECTION R602.10.7.

PREFABRICATED ROOF TRUSS FOR PREFABRICATED ROOF TRUSS NOTES SEE NOTES ON SHEET S-101 **AIL** MARK DESCRIPTION REMARKS RT ROOF TRUSS (COMMON) 24" OC MAX -302 CONTINUOUS FOOTING SCHEDULE MARK WIDTH MIN. THICKNESS LONG REINF DETAIL RKS (1) #4 TOP C1.0 12" 41/S-103 1'-0" (1) #4 BOT TREATED IA



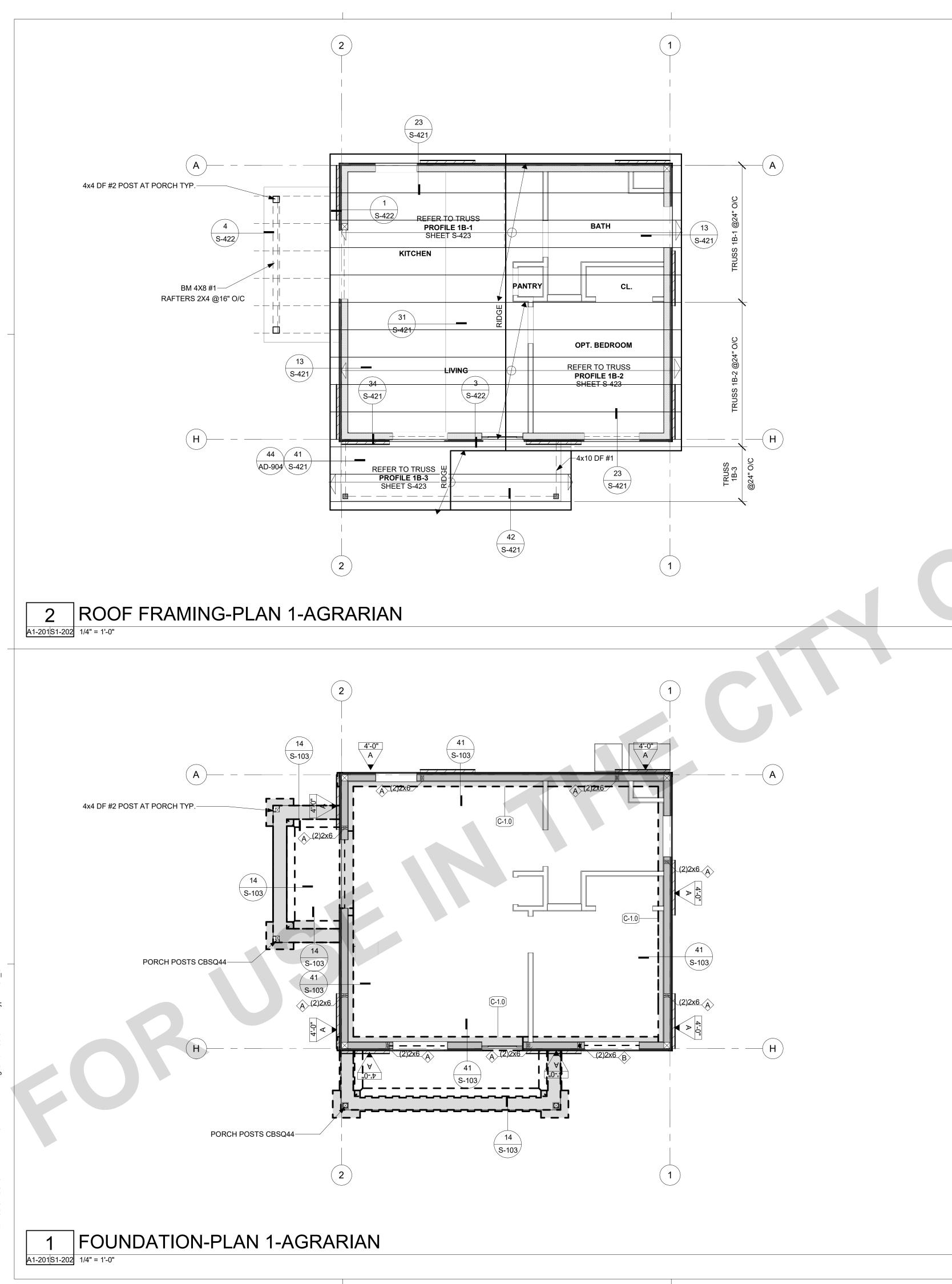
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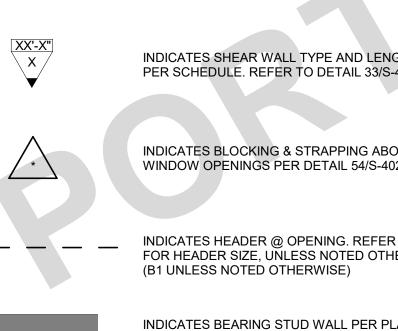
SHEET S1-201



- 1. SEE THE FOLLOWING SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS A. SYMBOLS AND ABBREVIATIONS B. STRUCTURAL GENERAL NOTES
 - C. TESTING AND INSPECTION D. TYPICAL CONCRETE DETAILS
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SYMBOL LEGEND

PARTITIONS.



FRAMING PLAN NOTES

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SCHEDULES

SHEARWALL HOLDOWN SCHEDULE			PREFABRICATED ROOF TRUSS					
		DETAIL	FOR F	REFABRIC	ATED ROOF TRUSS	NOTES SEE NOTES	ON SHEET S-101	
				Ν	IARK	DESCF	RIPTION	REMARKS
	NO H	OLD-DOWN REQ.			RT	ROOF TRUS	S (COMMON)	24" OC MAX
	INDICATES SIMPSON HOLDO CONCRE	WN W/ SSTB TO: TE FOUNDATION	12/S-302					
FLOOR/ROOF BEAM SCHEDULE			CONTINUOUS FOOTING SCHEDULE					
	MARK S	ZE	REMARKS	MARK	WIDTH	MIN. THICKNESS	LONG REINF	DETAIL
	B1 4	x8		C1.0	1'-0"	12"	(1)) #4 TOP (1)) #4 BOT	41/S-103
	B2 3	x8	PRESSURE TREATED					
	BRACE WALL-WOOD ST	RUCTURAL PANE	L (WSP)					
		CONNECT	TION CRITERIA					

		CONNECTIO	N CRITERIA
MARK	MIN. THICKNESS	FASTENERS	SPACING
А	3/8"	6D COMMON / 1.5" MIN. PENETRATION	6" EDGES / 12" FIELD

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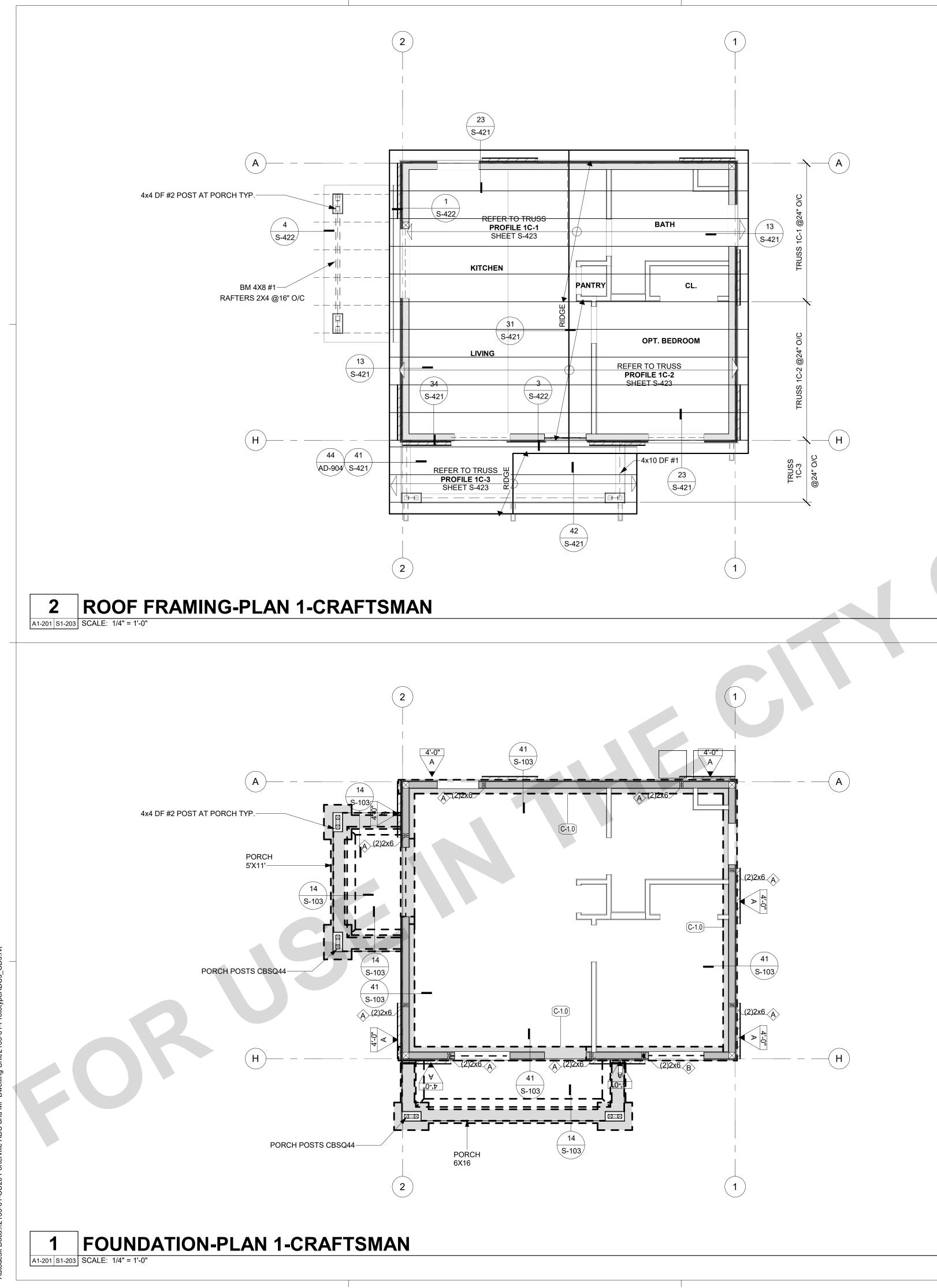
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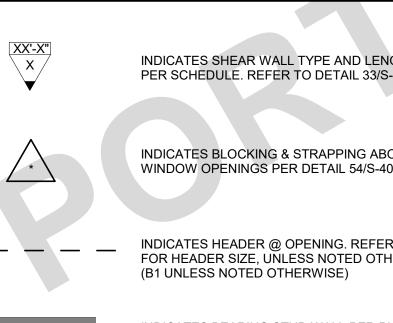
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SHEET S1-202



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SYMBOL LEGEND



INDICATES BEARING STUD WALL PER PI

FRAMING PLAN NOTES

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 - B. STRUCTURAL GENERAL NOTES C. TESTING AND INSPECTION
 - D. TYPICAL CONCRETE DETAILS E. TYPICAL WOOD DETAILS
- 2. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS
- 3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
- 4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
- ALL LINES OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (BN), STAGGERED.
- 6. ALL POSTS IN 6"x WALLS SHALL BE 6x6, UNLESS NOTED OTHERWISE ALL POSTS IN 4"x WALLS SHALL BE 4x4 UNLESS NOTED OTHERWISE
- ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTITION WALL DETAIL 43/S-401, UNO
- 8. PLYWOOD SHEATHED DIAPHRAGM TYPES: ALL ROOF DIAPHRAGMS SHALL BE TYPE A, UNO REFER TO 12/S-403

SCHEDULES

SHEARWALL HOLDOWN SCHEDULE				PREFABRICATED ROOF TRUSS					
				DETAIL	FOR P	REFABRIC	ATED ROOF TRUSS N	NOTES SEE NOTES O	N SHEET S-101
			DLD-DOWN REQ.		N	ARK	DESCRI	PTION	REMARKS
		NO HC	JLD-DOWN REQ.			RT	ROOF TRUSS	(COMMON)	24" OC MAX
	INDICAT	ES SIMPSON HOLDO\ CONCRET	WN W/ SSTB TO: TE FOUNDATION	12/S-302					
		FLOOR/ROOF B	EAM SCHEDULE				CONTINUOUS FOO	TING SCHEDULE	
	MARK	SIZ	ZE	REMARKS	MARK	WIDTH	MIN. THICKNESS	LONG REINF	DETAIL
	MARK B1	SIZ 4x		REMARKS	MARK C1.0	WIDTH 1'-0"	MIN. THICKNESS	LONG REINF (1) #4 TOP (1) #4 BOT	DETAIL 41/S-103
			K 8	REMARKS PRESSURE TREATED				(1) #4 TOP	
	B1	4×	K 8					(1) #4 TOP	
	B1 B2	4×	<8 <8	PRESSURE TREATED				(1) #4 TOP	
	B1 B2	4x 3x	<8 <8 RUCTURAL PANE	PRESSURE TREATED				(1) #4 TOP	

		CONNECTION CRITERIA		
MARK	MIN. THICKNESS	FASTENERS	SPACING	
А	3/8"	6D COMMON / 1.5" MIN. PENETRATION	6" EDGES / 12" FIELD	

FOUNDATION ANCHORAGE (CRC403.1.6)

WOOD SILL PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, WOOD SILL PLATES OF BRACED WALL PANELS AT BUILDING INTERIORS ON MONOLITHIC SLABS AND ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 1/2-INCH-DIAMETER (12.7 MM) ANCHOR BOLTS SPACED NOT GREATER THAN 6 FEET (1829 MM) ON CENTER OR APPROVED ANCHORS OR ANCHOR STRAPS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2-INCH-DIAMETER (12.7 MM) ANCHOR BOLTS. BOLTS SHALL EXTEND NOT LESS THAN 7 INCHES (178 MM) INTO CONCRETE OR GROUTED CELLS OF CONCRETE MASONRY UNITS. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. A NUT AND WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT THERE SHALL BE NOT FEWER THAN TWO BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES (305 MM) OR LESS THAN SEVEN BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION. INTERIOR BEARING WALL SOLE PLATES ON MONOLITHIC SLAB FOUNDATION THAT ARE NOT PART OF A BRACED WALL PANEL SHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS. SILL PLATES AND SOLE PLATES SHALL BE PROTECTED AGAINST DECAY AND TERMITES WHERE REQUIRED BY SECTIONS R317 AND R318. EXCEPTIONS:

WALLS 24 INCHES (610 MM) TOTAL LENGTH OR SHORTER CONNECTING OFFSET BRACED WALL PANELS SHALL BE ANCHORED TO THE FOUNDATION WITH NOT FEWER THAN ONE ANCHOR BOLT LOCATED IN THE CENTER THIRD OF THE PLATE SECTION AND SHALL BE ATTACHED TO ADJACENT BRACED WALL PANELS AT CORNERS AS SHOWN IN ITEM 9 OF TABLE R602.3(1).

PLATE WASHERS (CRC602.11.1)

PLATE WASHERS, NOT LESS THAN 0.229 INCH BY 3 INCHES BY 3 INCHES (5.8 MM BY 76 MM BY 76 MM) IN SIZE, SHALL BE PROVIDED BETWEEN THE FOUNDATION SILL PLATE AND THE NUT EXCEPT WHERE APPROVED ANCHOR STRAPS ARE USED. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16 INCH (5 MM) LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4 INCHES (44 MM), PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.

GTH, -402		INDICATES SHEAR WALL TYPE AND LENGTH PER SCHEDULE
OVE & BELOW		INDICATES CONT BLK @ STRAP
R TO 52/S-401 IERWISE.	DSC#_	INDICATES DSC CONNECTION
_AN		INDICATES NON BEARING WALL

CONTINUOUS SHEATHING (CRC602.10.4.2) CONTINUOUS SHEATHING METHODS REQUIRE STRUCTURAL PANEL SHEATHING TO BE USED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF A BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS AND SHALL MEET THE REQUIREMENTS OF SECTION R602.10.7.



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

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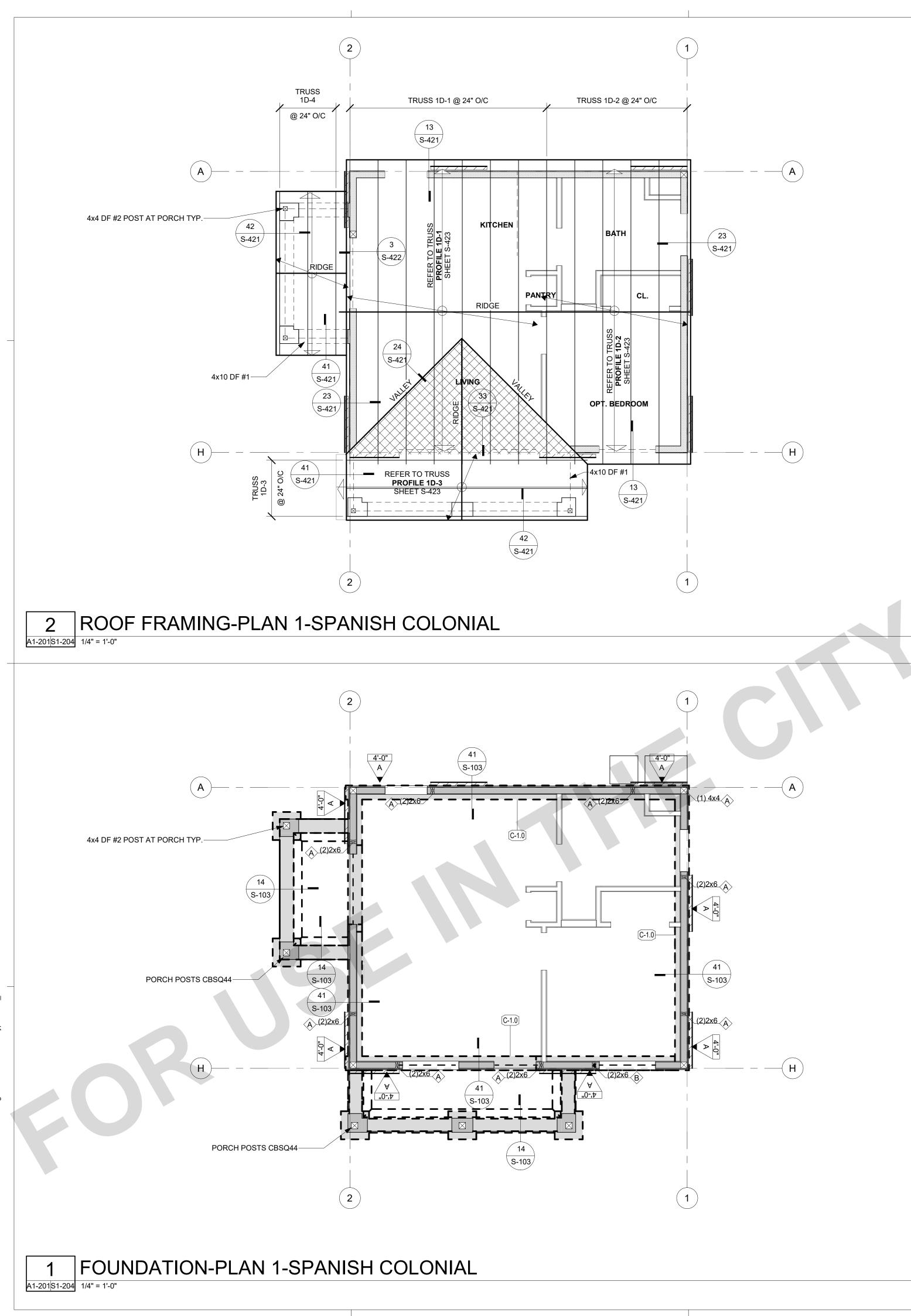
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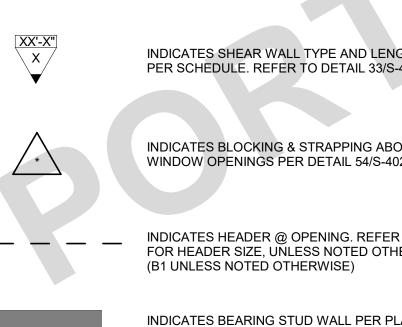
S1-203



- 1. SEE THE FOLLOWING SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS A. SYMBOLS AND ABBREVIATIONS B. STRUCTURAL GENERAL NOTES
 - C. TESTING AND INSPECTION D. TYPICAL CONCRETE DETAILS
 - E. TYPICAL WOOD DETAILS
- 2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS, REFERENCE FINISHED FLOOR ELEVATION = 0'=0" CORRESPONDS TO FINISHED
- FLOOR ELEVATION. 3. SEE ARCHITECTURAL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING,
- SLABS, BASES, CURBS, ETC 4. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL
- DRAWINGS. 5. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR
- SLOPES IN CONCRETE SLABS. 6. ALL DIMENSIONS SHOWN ARE FROM FACE OF MASONRY, FACE OF SHEATHING, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALLS.
- 7. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON BEARING WALLS. 8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING

SYMBOL LEGEND

PARTITIONS.



FRAMING PLAN NOTES

- SEE THE FOLLOWING SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS A. SYMBOLS AND ABBREVIATIONS
 - 3. STRUCTURAL GENERAL NOTES C. TESTING AND INSPECTION
 - D. TYPICAL CONCRETE DETAILS E. TYPICAL WOOD DETAILS
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- 3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAIL 23/S-403 FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
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- ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTITION WALL DETAIL 43/S-401, UNO
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SCHEDULES

SHEARWALL HOLDOWN SCHEDULE			E			PREFABRICATED	ROOF TRUSS		
				DETAIL	FOR P	REFABRIC	ATED ROOF TRUSS N	IOTES SEE NOTES (ON SHEET S-101
					M	ARK	DESCRI	PTION	REMARKS
A		NO HC	DLD-DOWN REQ.			RT	ROOF TRUSS	(COMMON)	24" OC MAX
В	INDICATE	ES SIMPSON HOLDOV CONCRET	WN W/ SSTB TO: E FOUNDATION	12/S-302					
		FLOOR/ROOF BE					CONTINUOUS FOO		
								TING SCHEDULE	1
	MARK	SIZ	ΖE	REMARKS	MARK	WIDTH	MIN. THICKNESS	LONG REINF	DETAIL
						41.01	12"	(1) #4 TOP	41/0 400
	B1	4x	8		C1.0	1'-0"	12	(1) #4 BOT	41/S-103
	B1 B2	4x 3x		PRESSURE TREATED	C1.0	1'-0"	12	(1) #4 BOT	4175-103
				PRESSURE TREATED	C1.0	1'-0"	12	(1) #4 BOT	4175-103
	B2		8		C1.0	<u>1'-U'</u>	12	(1) #4 BOT	4175-103
	B2	3x	8 RUCTURAL PANE		C1.0	1'-0"	12	(1) #4 BOT	4175-103

		CONNECTION CRITERIA		
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А	3/8"	6D COMMON / 1.5" MIN. PENETRATION	6" EDGES / 12" FIELD	

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WOOD (GENERAL)

1. PRESERVATION TREATMENT:

- A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AITC 109-07, STANDARD FOR PRESERVATIVE TREATEMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWPA U1-06
 - A. UC1 INTERIOR CONSTRUCTION, ABOVE GROUND, DRY NO PRESERVATIVE TREAMTENT REQUIRED.

B. UC2-INTERIOR CONSTRUCTION, ABOVE GROUND, WET-PRESERVATIVE TREATMENT REQ IF THE HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER.

B. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-06. THE FOLLOWING FIELD TREATMENTS SHALL BE USED:

a. BORED HOLES: HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE

- b. EXTERIOR: COPPER NAPHTHENATE c. INTERIOR: INORGANIC BORON PRESERVATIVES LIMITED TO USE IN
- APPLICATIONS NOT IN CONTACT WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER

SAWN LUMBER

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

	SAWN LUMBER PROPOERTIES						
	USE	SIZE	SPECIES	GRADE	REFERENCE		
		2x4	D.F. BE	STARDARD OR TTER PRESSUF TREATED	RE		
	MUDSILLS	2x6 AND LARGER	D.F.	IO. 2 OR BETTER PRESSURE TREATED	२		
		2x	REDWOOIFO	UNDATION GRA	DE		
		HOROZONTAL	FRAMING LUM	BER			
R	OOF JOISTS/RAFTER	S 2x	D.F.	NO. 2	REFERENCE		
	FLOOR JOISTS	2x	D.F.	NO. 2			
	HDRS & BEAMS	4x	D.F.	NO. 2			
	ANY OTHER	4x4 AND SMALLER	D.F.	NO. 2			
	HORIZONTAL	6x6 AND SMALLER	D.F.	NO. 1			
		VERTICAL FF	Raming Lumbe	R			
	TOP PLATES	2x	D.F.	NO. 2	REFERENCE		
	STUDS	2x4 & 3x4	D.F.	STUD			
	31003	2x6 & 2x8	D.F.	NO. 2			
	POSTS	4x4 & 4x6	D.F.	NO. 2			
	F0313	6x6 & LARGER	D.F.	NO. 1			
		ALL OTHER F	RAMING LUMB	ER			
	ALL OTHER (U.N.O.)	ALL SIZES	D.F.	STARDARD OR BETTER			

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

3. ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT. 1. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS. BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED. 5. MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.1. ALL NAILS SHALL BE COMMON WIRE NAILS. PREDRILL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPILT WOOD.

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

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

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

9. PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE

2" X FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT. 2" X FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS

10. DOUBLE JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS, UNLESS SUPPORTED BY A WALL BELOW OR SHOWN OTHERWISE. NAIL DOUBLED JOISTS WITH 16D AT 12" O.C., STAGGERED. 11. BRIDGING SHALL BE 2 X SOLID BLOCKS, INSTALLED AS FOLLOWS:

ROOF JOISTS MORE THAN 10" DEPTH, 8'-O" O.C. MAXIMUM, NOT MORE THAN 8'-0' FROM SUPPORT. FLOOR JOISTS MORE THAN 10" DEPTH, 8'-O" O.C. MAXIMUM, NOT MORE THAN 8'-0'

FROM SUPPORT. 12. JOIST HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR

TYPE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, STOCKTON, CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURE WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED.

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

HARDWARE AND CONNECTORS

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

HOLDOWNS . DO NOT OVER TIGHTEN NUTS ON TIE-DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS ONE-THIRD TO ONE HALF TURN BEYOND FINGER TIGHT 2. INSTALL ALL HOLDOWNS TIGHT TO END STUDS/POST, DO NOT USE FILLER BLOCKS. FOR MISALIGNED ANCHOR BOLTS, EXTEND THE ANCHOR ROD AT A 1:6 (HORIZ/VERT) USING A COUPLER WITH EQUIVALENT ANCHOR ROD AND INSTALL THE

HOLDOWN HIGHER ON END STUD / POST 3. FOR HOLDOWNS THAT BOLT TO END POSTS, INSTALL THE HEAD OF THE BOLT TO THE BRACKET SIDE, AND ON THE SIDE OPPOSITE THE BRACKET, INSTALL A WASHER BETWEEN THE NUT AND THE STUD / POSTS

TIE DOWN & COLLECTOR STRAPS:

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

REINFORCING STEEL

1. REINFORCING BARS SHALL BE ASTM A615. GRADE 60 AND CONFORM TO THE **REQUIREMENTS OF CHAPTER 19** OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14. 2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO

IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

3. WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAIR PANS AND

ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-14 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.

4. REINFORCING BAR LAP SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.

A. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-14

SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS. 5. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS

PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED

TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE **REINFORCING STEEL AT THE PROPER**

DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST

EDITION. 6. CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE

- PROVIDED FOR REINFORCEMENT IN CIP CONCRETE
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
- CONRETE EXPOSED TO EARTH OR WEATHER: NO.6 THROUGH NO. 18 BAR
- NO.5 BAR, W31 OR D31 WIRE & SMALLER CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
- SLAB/WALLS/JOISTS:
- NO.14 AND NO.18 BARS NO .11 BAR AND SMALLER
- BEAMS/COLUMNS:

PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS

DIMENSIONS

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

2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. 3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSION NOT NOTED ON

STRUCTURAL DRAWINGS. 4. SEE ARCHITECTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.

5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.

6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THEARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

FOUNDATION

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING: A. DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1610 1

B. ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2 C. VALUES LISTED SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER AS REQUIRED BY THE BUILDING OFFICIAL

2. SPREAD OR CONTINUOUS FOOTINGS:

		ALLOWABLE LATE	RAL RESISTANCE
ELEMENT	ALLOW BEARING CAPACITY (PSF)	PASSIVE RESIST (PSF/FT BELOW GRADE)	COHESION (PSF)
CONTINUOUS FOUNDATIONS	1,500	100	120

NOTES:

A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES

B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE . C. THE UPPER 6 INCHES OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.

- WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
- EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE STANDARDS OF CONSTRUCTION. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE BUILDING OFFICIAL. IF REQUIRED BY THE BUILDING OFFICIAL, A GEOTECHNICAL ENGINEER SHALL PROVIDE INSPECTION PER 1705.6.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

CONCRETE

- MIN. COVER (IN)
- 2
- 1/2" 1-1/2"
- 3/4" 1-1/2"

- COHESION (PSF)

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE

- CODE AND WITH THE PROVISIONS OF ACI 318-14. 2. CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING
- STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)	C150
CONC AGGREGATES (HARDROCK)	C33
CONC AGGREGATES (LIGHTWEIGHT)	C330
WATER	C1602
COAL FLY ASH OR POZOLLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33

A. FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURES S2 OR S3 PER ACI 318-14 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH THE BUILDING OFFICIAL B. WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL

- THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED. C. PUMICE AGGREGATE SHALL NOT BE USED.
- 3. CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-19. WHICH REFERENCES ACI 301-20 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRAIL MIXTURES IN ACOORDANCE WITH ACI 301-20 ARTICLE 4.2.3.4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

LOCATION IN STRUCTURE	MIN STRENTH (PSF)	DENSITY (PCF)	MAX SLUMP (IN+/-1)	MAX WATER/CEMENT RATIO	FLY ASH BY WT (MAX)
CONC FOUNDATIONS, GRAD BEAMS, TIE BEAMS	3,000	150	4	.5	0.15
CONC SLAB ON GRADE	3,000	150	4	.45	0.15
STAIRS ON GRADE, CURBS AND OTHER NON STRUC CONC	3,000	150	4	.5	0.15

- 4. READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANC.E WITH THE REQUIREMENTS OF ASTM C94 OF C685.
- DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-14 AND PROJECT SPECIFICATIONS.
- 6. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE
- PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS
- SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. 8. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE
- PLACEMENT OF OPENINGS IN SLABS AND WALLS. 9. PIPES EMBEDDED IN CONCRETE:
- A. CONCRETE a. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOTE BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR
- b. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS. c. DO NOT STACK CONDUITS, SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

EXISTING CONDITIONS

- ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
- 2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

(E) UNDERGROUND UTILITIES

- 1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
- 3. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133. B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

DEMOLITION

- 1. ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
- 2. ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
- 3. CONTRACTOR IS REPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
- 4. WHERE EXISTING PARTITION WALLS ARE TO BE DEMOLISHED, CONTRACTOR SHALL VERIFY WALLS ARE NON-BEARING PRIOR TO DEMOLITION. IF WALLS ARE FOUND TO BE BEARING, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY

GENERAL

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
- A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".

B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA)

C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.

- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED

B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS

C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN

- E. FLOOR AND ROOF FINISHES
- F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
- G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
- H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
- 6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
- B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.

D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, ETC..
- 9. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- 10. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
- 11. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 12. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- 13. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING
- 14. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
- B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.
- . EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.



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

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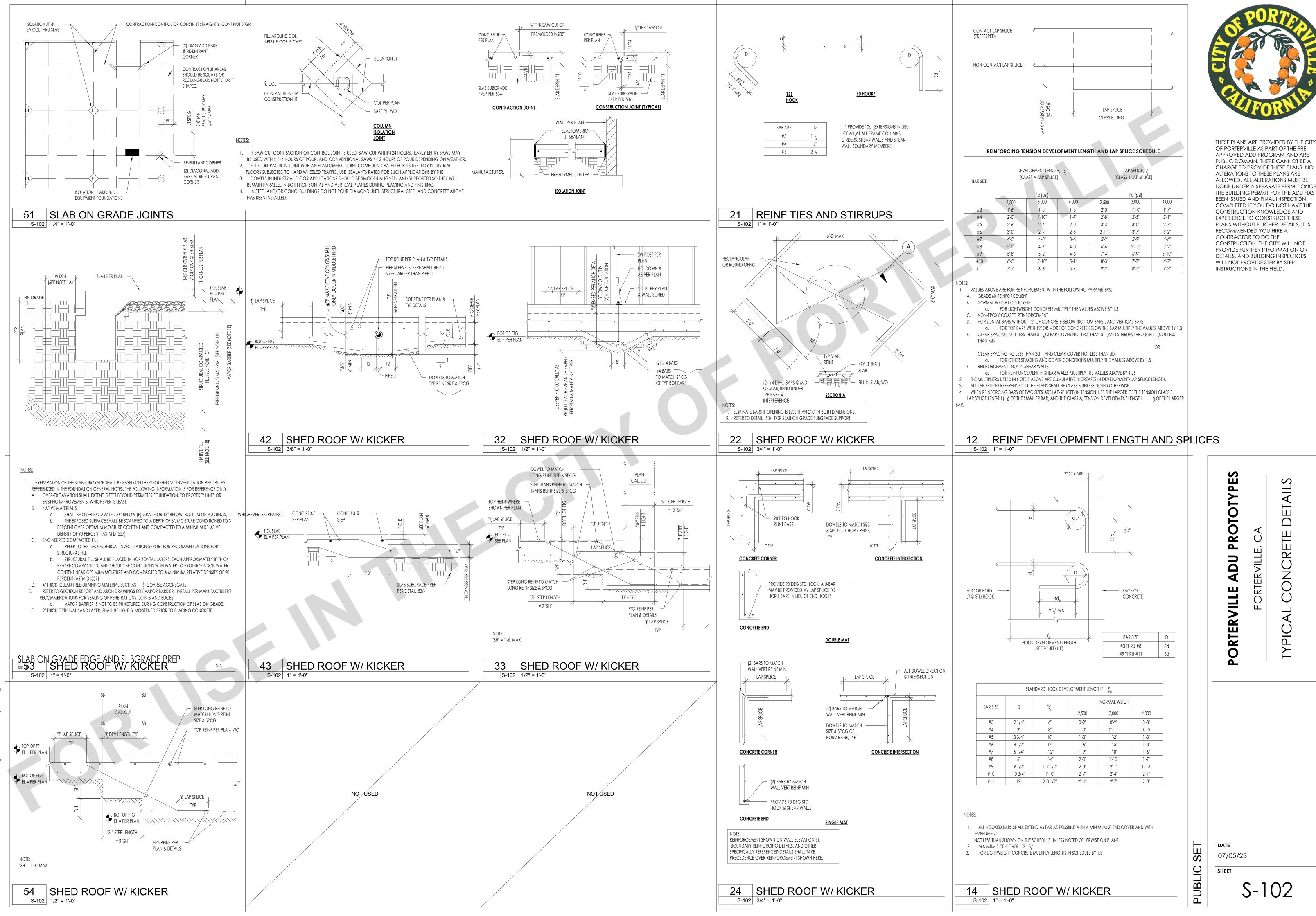
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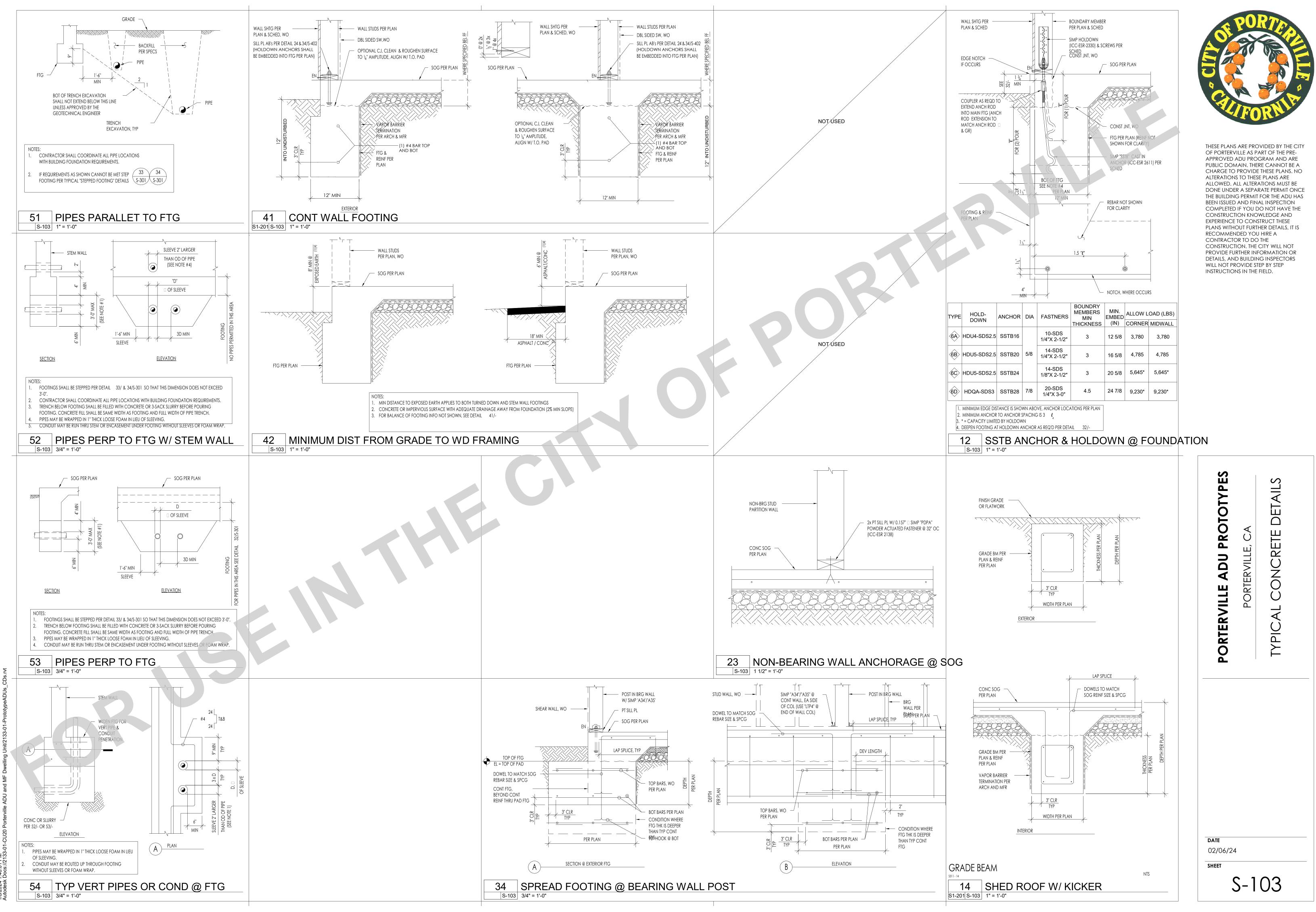
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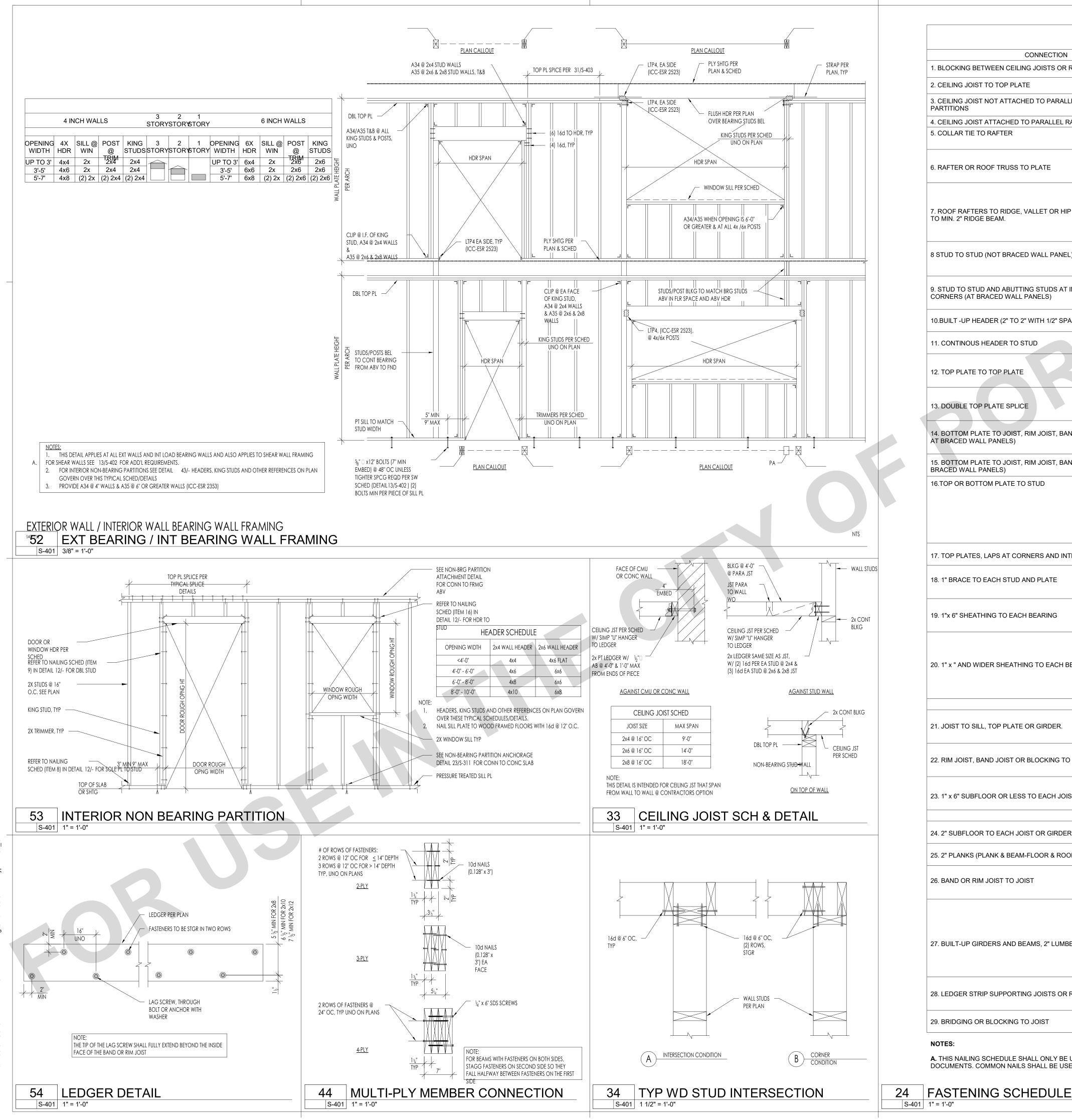
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CONNECTION 1. BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TO 2. CEILING JOIST TO TOP PLATE 3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAP 4. CEILING JOIST ATTACHED TO PARALLEL RAFTER 5. COLLAR TIE TO RAFTER 6. RAFTER OR ROOF TRUSS TO PLATE 7. ROOF RAFTERS TO RIDGE, VALLET OR HIP RAFTERS OR R TO MIN. 2" RIDGE BEAM. 8 STUD TO STUD (NOT BRACED WALL PANEL) 9. STUD TO STUD AND ABUTTING STUDS AT INSTERSECTING CORNERS (AT BRACED WALL PANELS) 10.BUILT -UP HEADER (2" TO 2" WITH 1/2" SPACER) 11. CONTINOUS HEADER TO STUD 12. TOP PLATE TO TOP PLATE 13. DOUBLE TOP PLATE SPLICE 14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLC AT BRACED WALL PANELS) 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLC BRACED WALL PANELS) 16.TOP OR BOTTOM PLATE TO STUD 17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS. 18. 1" BRACE TO EACH STUD AND PLATE 19. 1"x 6" SHEATHING TO EACH BEARING 20. 1" x " AND WIDER SHEATHING TO EACH BEARING 21. JOIST TO SILL, TOP PLATE OR GIRDER. 22. RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP P 23. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST 24. 2" SUBFLOOR TO EACH JOIST OR GIRDER 25. 2" PLANKS (PLANK & BEAM-FLOOR & ROOF) 26. BAND OR RIM JOIST TO JOIST 27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS 28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS. 29. BRIDGING OR BLOCKING TO JOIST

	HEDULE LE R602.3 (1)	
TO TOP PLATE	FASTENING 4-8D BOX (2-1/2"X0.113) OR 3-8D COMMON (2-1/2"x0.131") OR 3-10D BOX (3"x0.128") OR	LOCATION TOE NAIL
		PER JOIST, TOE NAIL
R, LAPS OVER	3-3"x0.131" NAILS 4-10D BOX (3"X0.128) OR 3-16D COMMON (31/2" x 0.162"): OR	
	3-16D COMMON (31/2" × 0.162"); OR 4-3" × 0.131" NAILS TABLE R802.5.2	FACE NAIL
	4-10d box (3" × 0.128"); or 3-10d common (3" × 0.148"); or 4-3" × 0.131"	FACE NAIL EACH RAFTER
	nails 3-16D BOX NAILS (31/2" × 0.135"); OR	
	3-10D COMMON NAILS (3" × 0.148"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
OR ROOF RAFTER	4-16D (31/2" × 0.135"); OR 3-10D COMMON (3" × 0.148"); OR 4-10D BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS	TOE NAIL
	3-16D BOX 31/2" × 0.135"); OR 2-16D COMMON (31/2" × 0.162"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	END NAIL
	16D COMMON (31/2" × 0.162")	24" O.C. FACE NAIL
	10D BOX (3" × 0.128"); OR 3" × 0.131" NAILS	16" O.C. FACE NAIL
TING WALL	16D BOX (31/2" × 0.135"); OR 3" × 0.131" NAILS	12" O.C. FACE NAIL
	16D COMMON (3-1/2" × 0.162")	16" O.C. FACE NAIL
	16D COMMON (3-1/2" × 0.162")	16" O.C. EACH EDGE FACE NAIL
	16D BOX (31/2" × 0.135") 5-8D BOX (21/2" × 0.113"); OR	12" O.C. EACH EDGE FACE NAIL
	4-8D COMMON (21/2" × 0.131"); OR 4-10D BOX (3" × 0.128")	TOE NAIL
	16D COMMON (3-1/2" × 0.162")	16" O.C. FACE NAIL
	16D BOX (3-1/2" × 0.135"); OR 3" × 0.131" NAILS	12" O.C. FACE NAIL
	8-16D COMMON (31/2" × 0.162"); OR 12-16D BOX (31/2" × 0.135"); OR 12-10D BOX (3" × 0.128"); OR 12-3" × 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
R BLOCKING (NOT	16D COMMON (3-1/2" × 0.162") 16D BOX (3-1/2" × 0.135"); OR	16" O.C. FACE NAIL
	3" × 0.131" NAILS	12" O.C. FACE NAIL
R BLOCKING (AT	3-16D BOX (31/2" × 0.135"); OR 2-16D COMMON (31/2" × 0.162"); OR 4-3" × 0.131" NAILS 4-8D BOX (21/2" × 0.113"); OR	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
	3-16D BOX (31/2" × 0.135"); OR 4-8D COMMON (21/2" × 0.131"); OR 4-10D BOX(3" × 0.128"); OR 4-3" × 0.131" NAILS	TOE NAIL
	3-16D BOX (31/2" × 0.135"); OR 2-16D COMMON (31/2" × 0.162"); OR 3-10D BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	END NAIL
NS.	3-10D BOX (3" × 0.128"); OR 2-16D COMMON (31/2" × 0.162"); OR 3-3" × 0.131" NAILS	FACE NAIL
	3-8D BOX (21/2" × 0.113"); OR 2-8D COMMON (21/2" × 0.131"); OR 2-10D BOX (3" × 0.128"); OR 2 STAPLES 13/4"	FACE NAIL
	3-8D BOX (21/2" × 0.113"); OR 2-8D COMMON (21/2" × 0.131"); OR 2-10D BOX (3" × 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1-3/4"	FACE NAIL
	3-8D BOX (21/2" × 0.113"); OR 3-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA., 1-3/4" WIDER THAN 1" × 8" 4-8D BOX (21/2" × 0.113"); OR 3-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1-3/4"	FACE NAIL
FLOOF	R 4-8D BOX (21/2" × 0.113"); OR	
	3-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128"); OR	TOE NAIL
	3-3" × 0.131" NAILS 8D BOX (21/2" × 0.113")	4" O.C. TOE NAIL
OP PLATE	8D COMMON (21/2" × 0.131"); OR 10D BOX (3" × 0.128"); OR	6" O.C. TOE NAIL
	3" × 0.131" NAILS 3-8D BOX (21/2" × 0.113"); OR 2-8D COMMON (21/2" × 0.131"); OR 3-10D BOX (3" × 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 13/4"	FACE NAIL
FLOOF		
	3-16D BOX (31/2" × 0.135"); OR 2-16D COMMON (31/2" × 0.162") 3-16D BOX (31/2" × 0.135"); OR	BLIND & FACE NAIL
	2-16D COMMON (31/2" × 0.162")	AT EACH BEARING, FACE NAIL
	3-16D COMMON (31/2" × 0.162") 4-10 BOX (3" × 0.128"), OR 4-3" × 0.131" NAILS; OR 4-3" × 14 GA. STAPLES, 7/16" CROWN	END NAIL
	20D COMMON (4" × 0.192"); OR	NAIL EACH LAYER AS FOLLOWS 32" O.C. AT TOP AND BOTTOM AND STAGGERED.
		24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON
3	10D BOX (3" × 0.128"); OR 3" × 0.131" NAILS	OPPOSITE SIDES
5		
5	3" × 0.131" NAILS AND: 2-20D COMMON (4" × 0.192"); OR 3-10D BOX (3" × 0.128"); OR 3-3" ×	FACE NAIL AT ENDS AND AT

A. THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.



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

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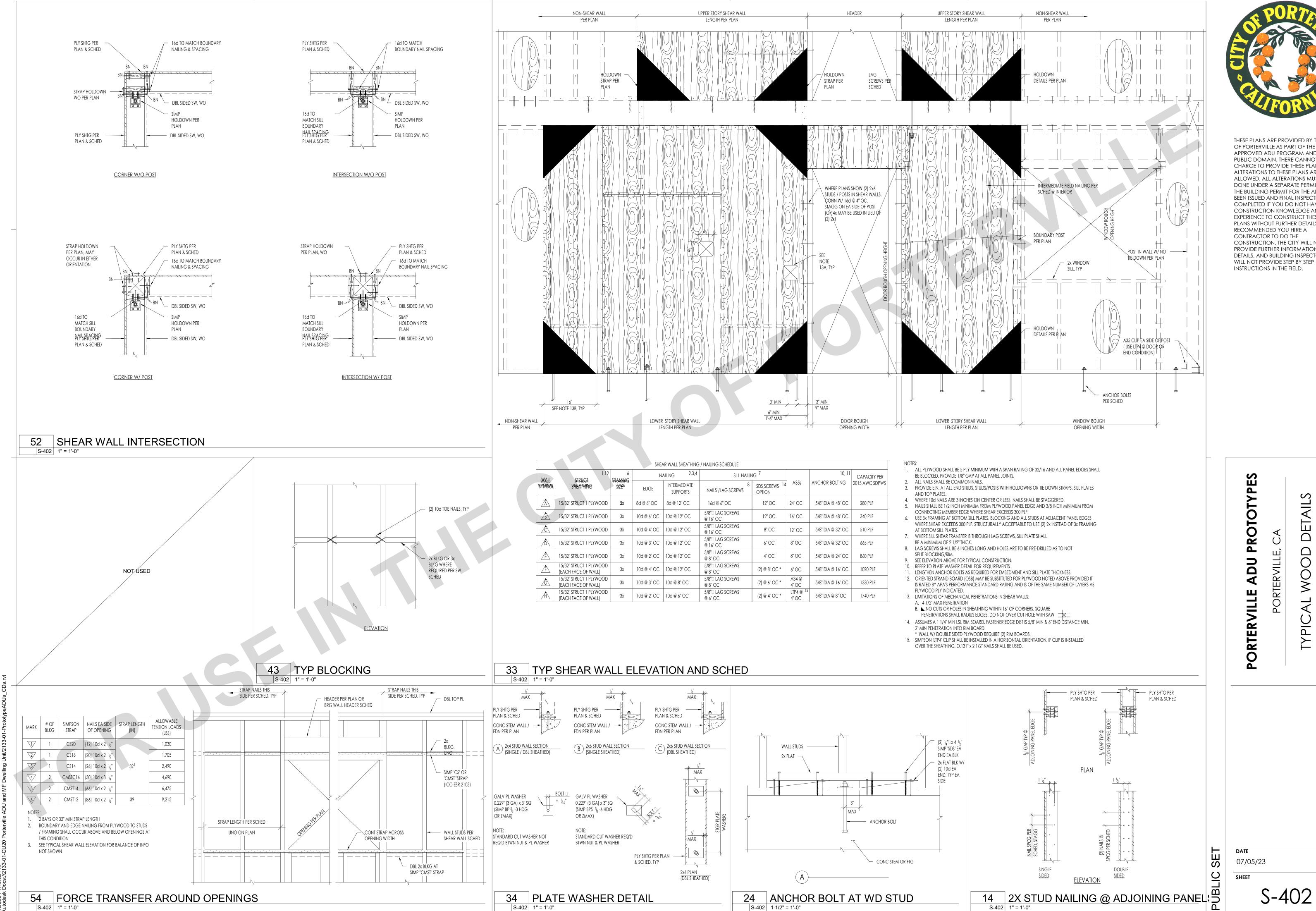
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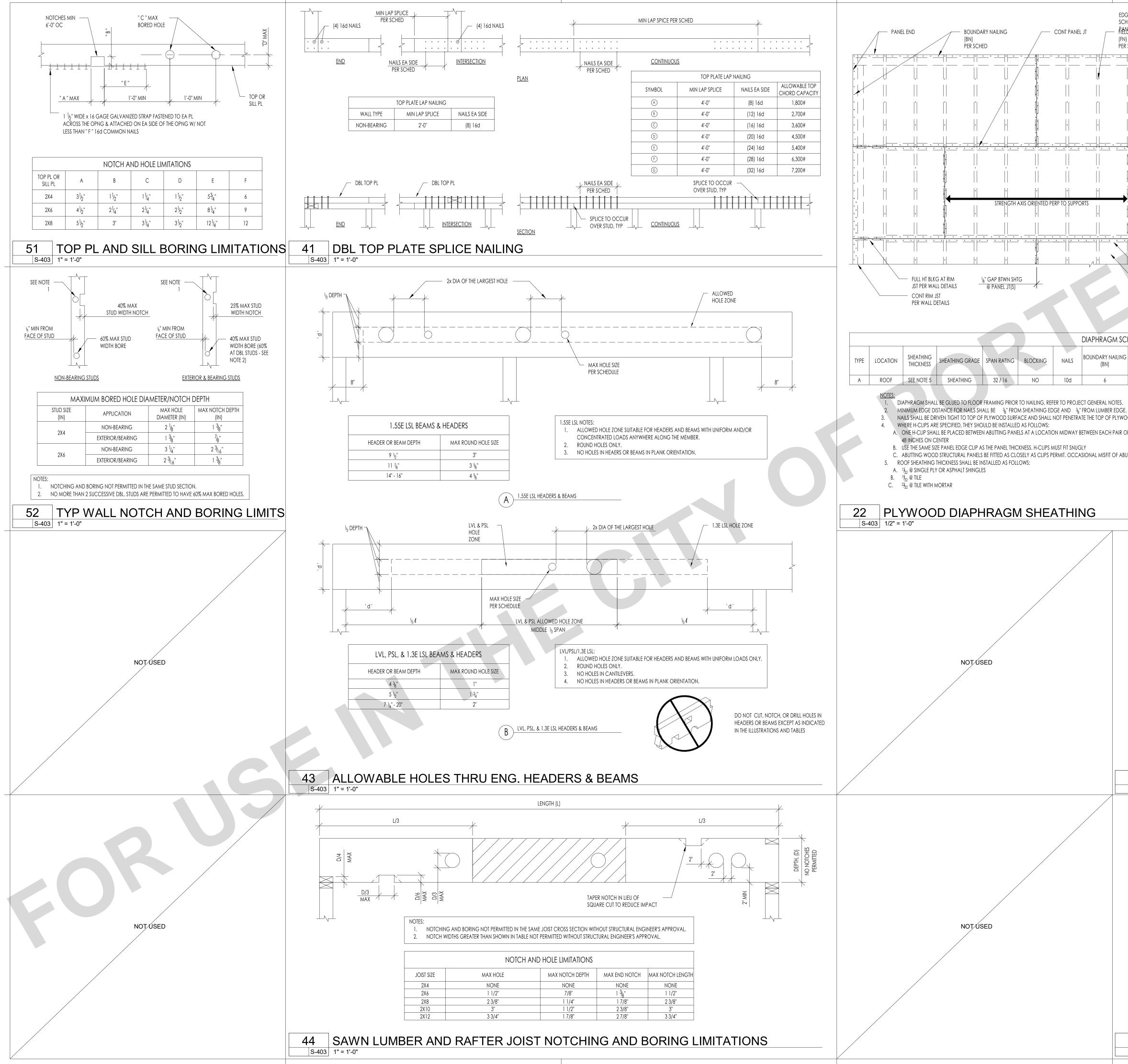
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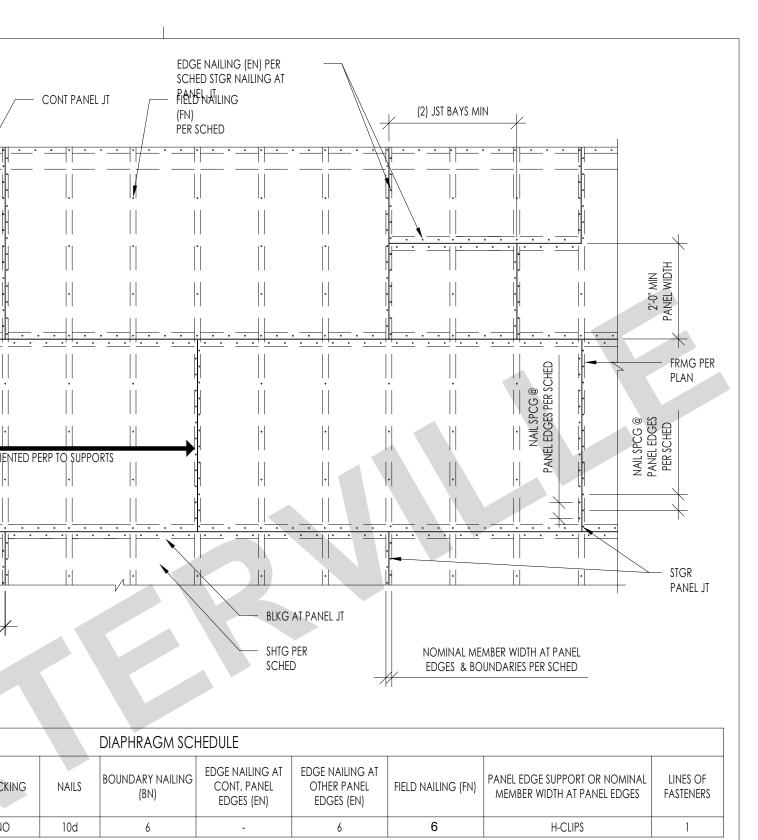
SHEET S-40





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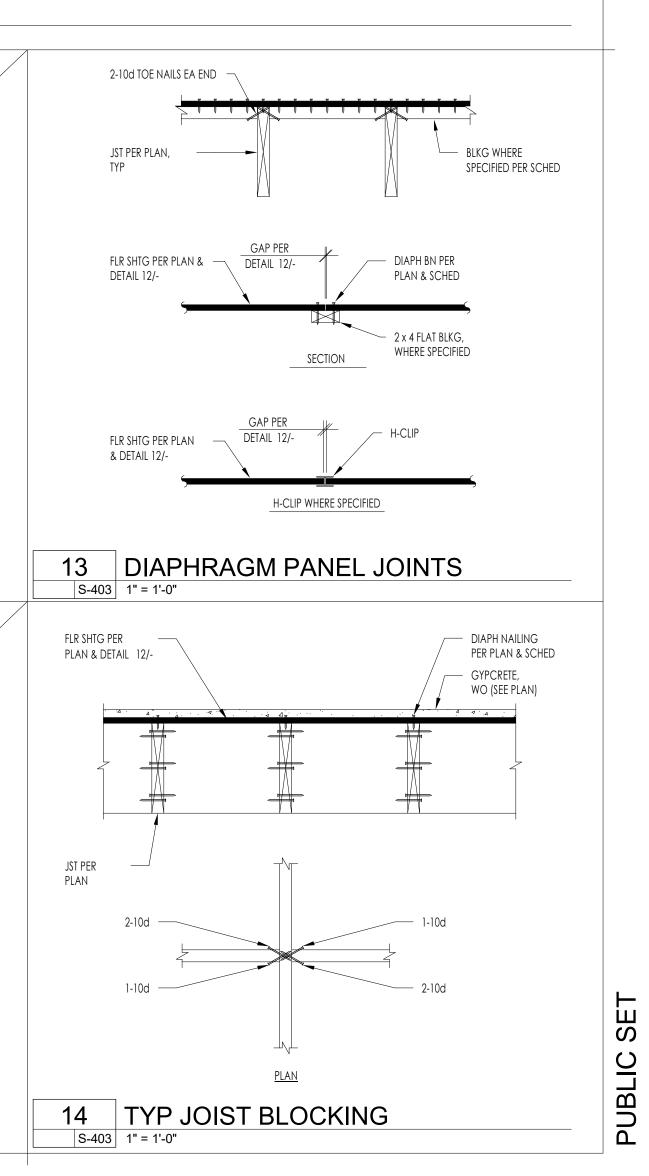




NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND SHALL NOT PENETRATE THE TOP OF PLYWOOD MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS.

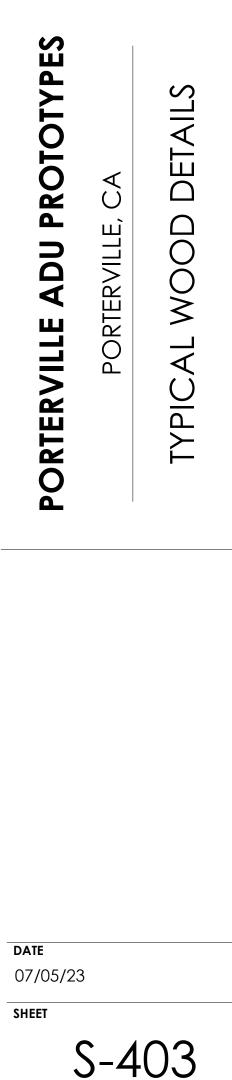
N. ONE H-CLIP SHALL BE PLACED BETWEEN ABUTTING PANELS AT A LOCATION MIDWAY BETWEEN EACH PAIR OF TRUSSES, RAFTERS OR JOISTS. HOWEVER, (2) H-CLIPS ARE REQUIRED BETWEEN SUPPORTS WHEN SPACED

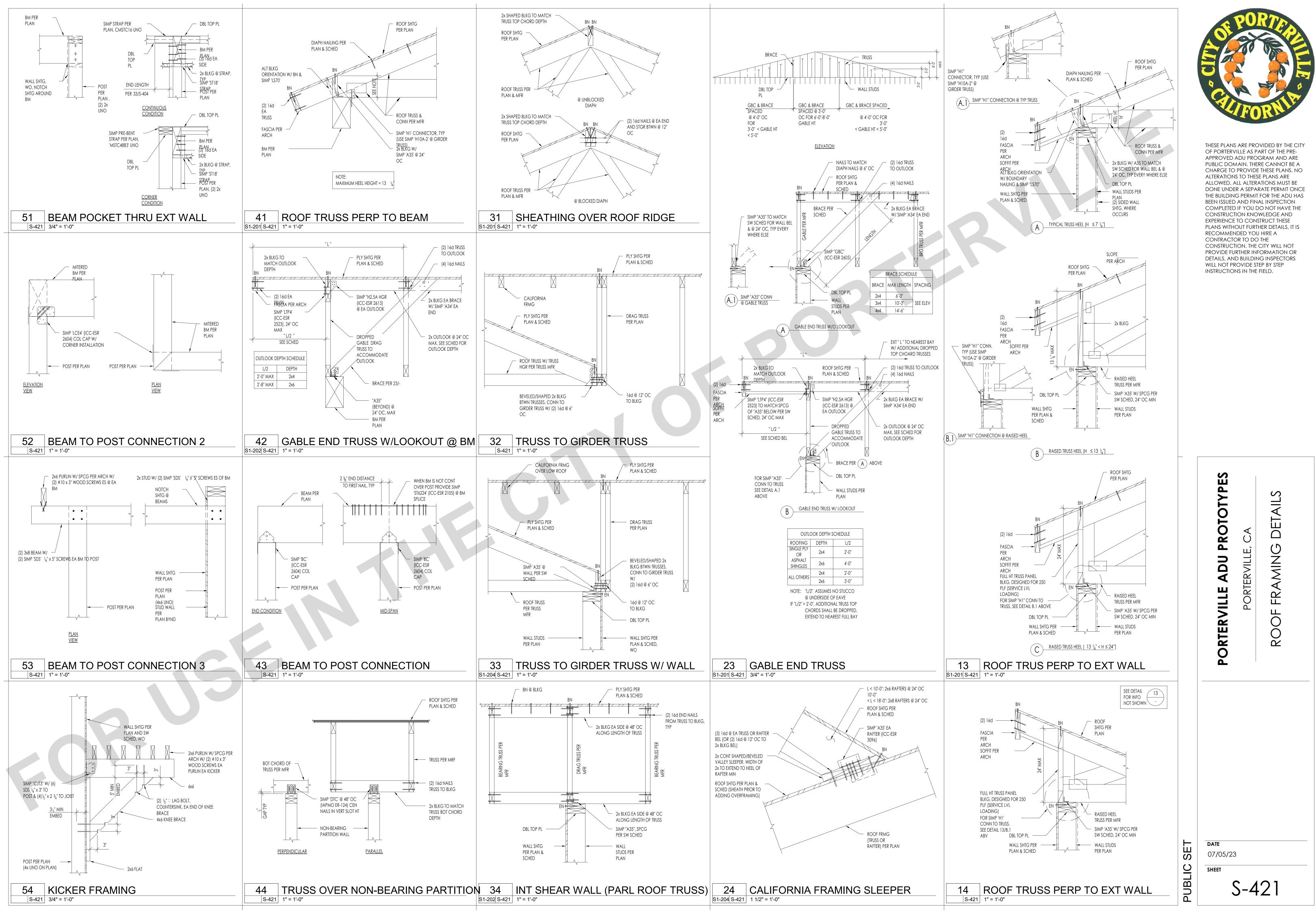
C. ABUTTING WOOD STRUCTURAL PANELS BE FITTED AS CLOSELY AS CLIPS PERMIT. OCCASIONAL MISFIT OF ABUTTING SHEETS MAY BE TOLERATED PROVIDING THAT GAPS DO NOT EXCEED MAXIMUM OPENING OF 1/,".



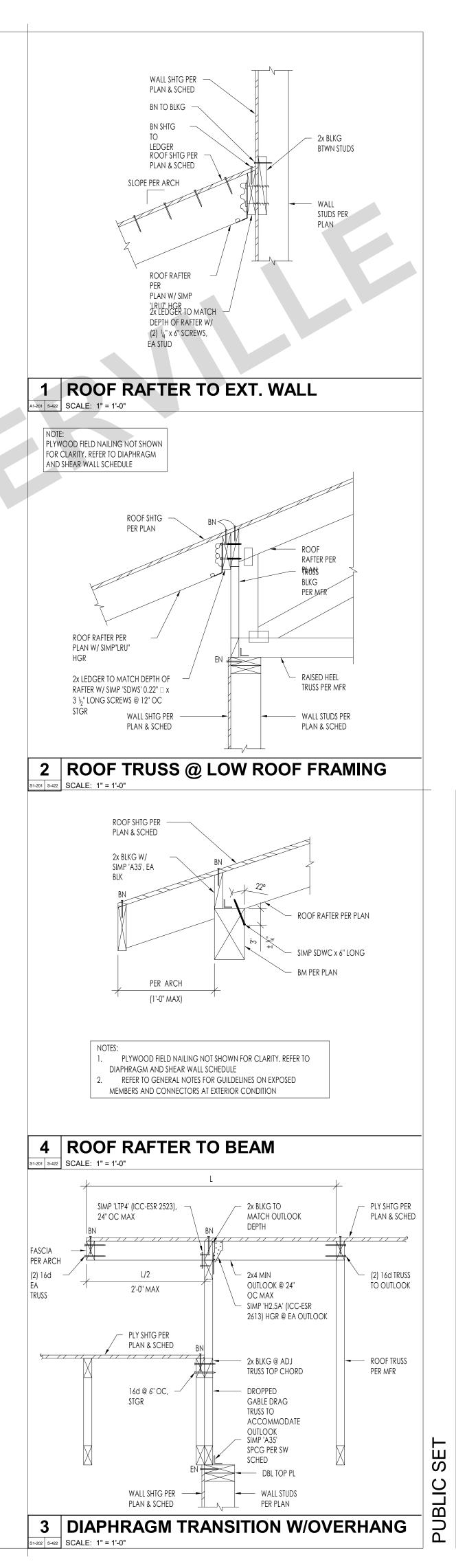


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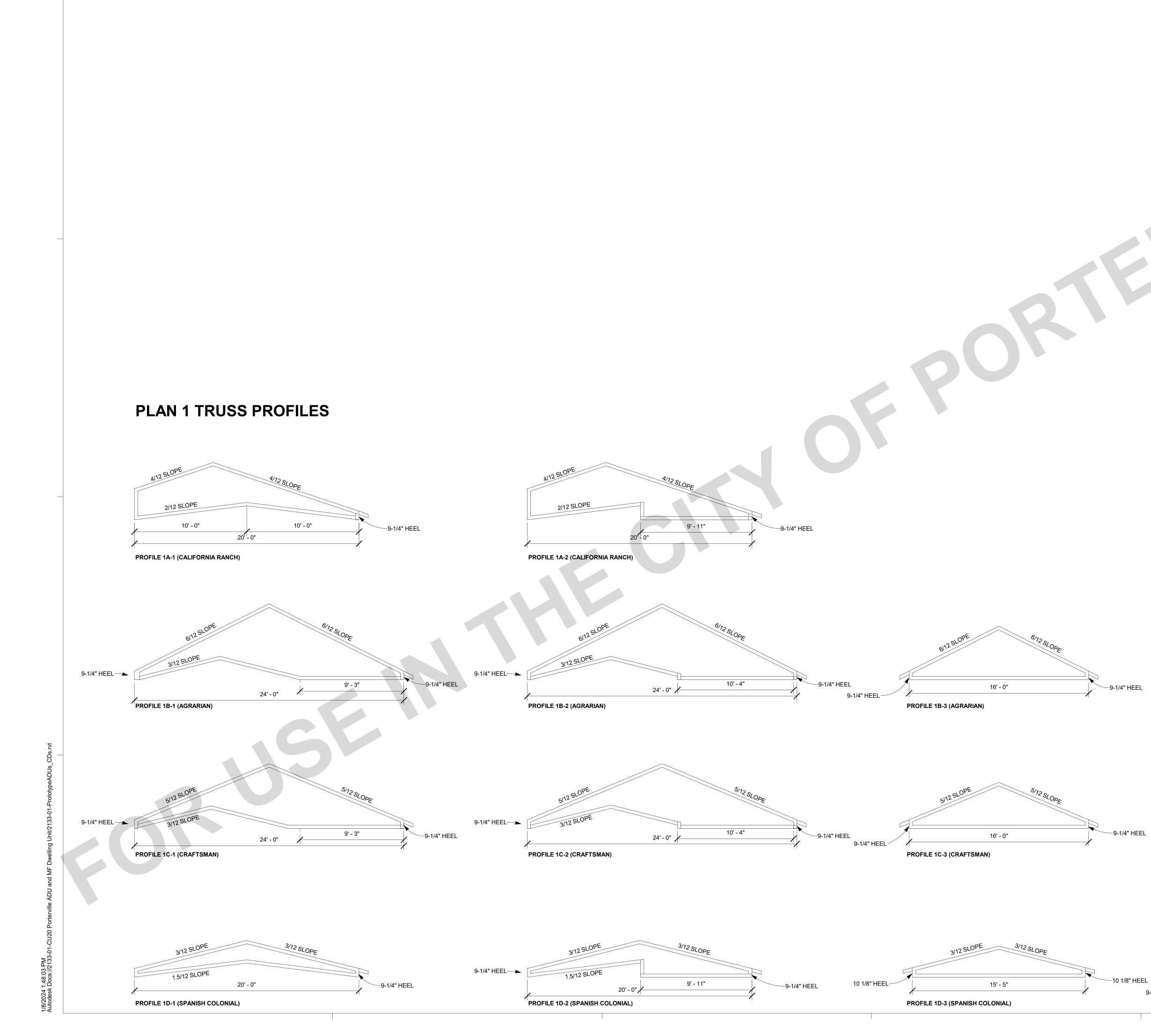
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> PORTERVILLE ADU PROTOTYPES PORTERVILLE, CA ROOF FRAMING DETAILS

DATE 07/05/23

SHEET

S-422





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DATE 07/05/23 SHEET

SET

PUBLIC



