ADDITIONAL REQUIREMENTS **ACCESSORY DWELLING UNIT** STATE LAW REQUIRES THIS PROJECT COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA FIRE CODE. CONTACT THE FOLLOWING FIRE PROTECTION DISTRICT AND OBTAIN APPROVALS PRIOR TO OBTAINING THE PERMITS FROM THE COUNTY OF FRESNO, VERIFY THE SITE ADDRESS WITH THE CORRECT JURISDICTION BELOW: <u>OPTION # 1</u> FRESNO COUNTY FIRE PROTECTION DISTRICT 1700 JENSEN AVENUE SUITE 103 SANGER, CA. 93657 PHONE: (559) 319-0400 CITY OF FRESNO FIRE DEPARTMENT 911 H ST. FRESNO, CA. 93721 500 SQ. FT. MODEL (513 SQ.FT.) PHONE: (559) 621-4000 THE COUNTY OF FRESNO DEPARTMENT OF PUBLIC WORKS AND PLANNING DEVELOPMENT SERVICES 2220 TULARE ST. STREET LEVEL **1-BEDROOM / 1-BATH** FRESNO, CA. 93721 PHONE (559) 600-4219 **COVERED PORCH** KERMAN, CA. 93630 PHONE (559) 275-5531 PO BOX 191 AUBERRY, CA. 93602 559-855-2777 41795 TOLLHOUSE 559-8<mark>41-8</mark>136



OWNER: ADDRESS: TEL. NO.:

PROJECT INFORMATION



PROJECT OF: THE COUNTY OF FRESNO DEPARTMENT OF PUBLIC WORKS AND PLANNING

Capital Projects Division 2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879

SCOPE OF WORK:

PROPOSED ONE (1) STORY ACCESSORY DWELLING UNIT (ADU)

FLOOR AREA (CONDITIONED SPACE)	513 SF
COVERED PORCH	106 SF
TOTAL	619 SF

<u>BUILDING DATA:</u> OCCUPANCY CLASSIFICATION: R3 GROUP USE : (R-3) SINGLE FAMILY RESIDENCE

TYPE OF CONSTRUCTION: VB SPRINKLERED: YES

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STRUCTURAL DESIGN CRITERIA: ROOF DEAD LOAD = 20 PSF

- LIVE LOAD = 20 PSF WIND SPEED = 110 MPH (ALLOWABLE STRESS) / EXPOSURE C, LOW-RISE BUILDING SEISMIC DESIGN CATOGORY: D SS = 0.531 SDS = .060 Fa = 1.375
- SNOW LOAD = NONE ALLOWABLE SOIL PRESSURE: 1500 PSF PER CBC 2022 CONCRETE DESIGN STRENGTH OF 2500 PSI PER CRC TABLE R402.2

DEFERRED SUBMITTAL ITEMS

THE OWNER / APPLICANT IS RESPONSIBLE FOR PREPARING DOCUMENTATIONS, APPLICATIONS PROCESSING THROUGH THE AUTHORITY HAVIN JURISDICTION AND PAYING ALL APPLICABLE FE FOR THE DEFERRED SUBMITTALS. REFER TO "RIGHTS AND LIMITATIONS OF USING PRE-APPROVED PLANS" FOR ADDITIONAL INFORMAT

- ROOF TRUSSES FIRE SPRINKLERS
- SOLAR PV MINIMUM 2.01 kW DC per TITLE HVAC - (DUCTLESS MINI-SPLIT HEAT PUM WITH MINIMUM HEATING EFFICIENCY - 8.5 HSPF / COOLING EFFICIENCY- 15 SEER 9 E WITH PERMANENTLY INSTALLED WALL MOUNTED THERMO<mark>ST</mark>ATAT @ LIVIN<mark>G ROO</mark>

REQUIREMENTS

FIRE DEPARTMENT APPROVAL MUST BE OBTAINED. PROVIDE EVIDENCE OF FIRE PROTECTION DISTRICT APPROVAL TO MA B. LOPEZ, PLANS EXAMINER AT (559) 600-4324 OR E-MAIL,mattlopez@fresnocountyca.gov.

FOR QUESTIONS REGARDING ZONING REQUIREMENTS, CONTACT: ZONING, AT (559) 600-4540 OR E-MAIL: zoningenforcement2 @fresnocountyca.gov

FOR QUESTIONS REGARDING GRADING REQUIREMENTS, CONTACT: DANA RITSCHEL, AT (559) 600-4212 OR EMAIL dritschel@fresnocountyca.gov

FOR QUESTIONS REGARDING CODE ENFORCEMENT COMMENTS, CONTACT: Elisania Harrison at (559) 600-2519 or e-mail, eharrison@fresnocountyca.gov

PUBLIC WORKS AND PLA COUNTY OF FRESN

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NORTH CENTRAL FIRE DEPARTMENT 15850 W. KEARNEY BLVD. CSA 50 - AUBERRY VOLUNTEER FIRE DEPARTMENT

SHAVER LAKE FIRE DISTRICT SHAVER LAKE, CA. 93664

ORANGE COVE FIRE DEPARTMENT 550 CENTER STREET ORANGE COVE, CA. 93646 559-6<mark>26-7</mark>758

PROVIDE A COMPLETE SITE PLAN AS PART OF THE PLANS DRAWN TO SCALE, ON A FULL-SIZE SHEET WITH THE FOLLOWING INFORMATION:

- PROVIDE PROPERTY LINE DIMENSIONS. INDICATE A NORTH ARROW.
- DIMENSION DISTANCES TO ALL PROPERTY LINES AND ADJACENT BUILDINGS.
- LOCATE THE FOLLOWING:
- ALL STRUCTURES ON-SITE. EASEMENTS AND SETBACKS.
- MECHANICAL OR OTHER GROUND MOUNTED
- EQUIPMENT LPG TANKS OR GAS METER
- WELLS OR WATER METERS.
- SEPTIC SYSTEMS (INCLUDING 100% EXPANSION AREA FOR LEACHING FIELD) OR SEWER CONNECTIONS DRIVEWAY (MATERIALS TO BE USED FOR THE DRIVEWAY)
- PROVIDE A DRAINAGE PLAN FOR THE DEVELOPED PORTION OF THE PROPERTY [CRC R300.2]. FOR VALLEY FLOOR ("FLAT" LAND) PARCELS, ADDRESS T FOLLOWING
 - A SHOW THE DRAINAGE AWAY FROM THE PROPOSEI CONSTRUCTION. "PROVIDE A TWO PERCENT SLOPE AWAY FROM THE PROPOSED BUILDING FOR A
 - MINIMUM OF FIVE FEET." [FCOC 15.08.020 O], SHOW DRAINAGE PATTERNS TO THE STREET OR AN APPROVED DRAINAGE FACILITY. PROVIDE ACTUAL/RELATIVE ELEVATIONS FOR THE
 - BUILDING PAD, LOT CORNERS AND CROWN OF ADJACENT STREETS. "FINISH FLOOR ELEVATION IS TO BE ABOVE THE CROWN OF THE STREET DELINEATE THE EXTENT OF THE BUILDING PAD WITH
 - DIMENSIONS FROM THE BUILDING TO THE EDGE OF THE PAD FOR ALL FOOTHILL AND MOUNTAIN PARCELS WITH SLOPED GRADES, ADDRESS THE FOLLOWING:
 - SHOW THE DRAINAGE AWAY FROM THE PROPOSED CONSTRUCTION. "PROVIDE A TWO PERCENT SLOPE AWAY FROM THE PROPOSED BUILDING FOR A MINIMUM OF FIVE FEET." [FCOC 15.08.020 O], SHOW DRAINAGE PATTERNS TO THE STREET OR AN
 - APPROVED DRAINAGE FACILITY (EXISTING AND ROPOSED CONTOURS) INCLUDING: TERRACING.
 - SWALES. RFTAINING WALLS.
 - ROOF RAINWATER RUNOFF. SHOW GUTTERS AND DOWNSPOUT DISCHARGE LOCATIONS. DELINEATE THE EXTENT OF THE BUILDING PAD WITH
 - DIMENSIONS FROM THE BUILDING TO THE EDGE OF THE CUT AND FILL AREAS (WITH QUANTITIES IN CUBIC YARDS) ON BOTH PLAN AND SCHEMATIC (SECTION) VIEWS IN BOTH
- DIRECTIONS DRIVEWAYS AND PRIVATE ROADS SHALL HAVE A MAXIMUM SLOPE OF 12%. THE GRADE MAY BE INCREASED TO A MAXIMUM OF 20% FOR PAVED SURFACES." [FCOC 5.60.5051.
- ADD THE FOLLOWING NOTES ON THE SITE OR DRAINAGE PLANS: "FINISH FLOOR ELEVATION IS TO BE ABOVE THE CROWN OF THE STREET." B. "PROVIDE A TWO PERCENT SLOPE AWAY FROM THE PROPOSED BUILDING FOR A MINIMUM OF FIVE FEET." [FCOC
- 15.08.020 Ol. C. "DRIVEWAYS AND PRIVATE ROADS SHALL HAVE A MAXIMUM SLOPE OF 12%. THE GRADE MAY BE INCREASED TO A MAXIMUM OF 20% FOR PAVED SURFACES." [FCOC 15.60.505].

APPLICABLE CODE

- 2022 CALIFORNIA ADMINISTRATIVE CODE 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA GREEN BUILDING CODE
- 2022 CALIFORNIA REFERENCE STANDARDS CODE FRESNO COUNTY ORDINANCE TITLE 15

REFER TO G-101 , G-102 FOR ADDITIONAL INFORMATION.

TITLE 24 DOCUMENTATIONS

GENERAL NOTES

- CONSTRUCTION WASTE MANAGEMENT PLAN MUST BE FINALIZED PRIOR TO OCCUPANCY. INSTALL STREET ADDRESS NUMERALS, AT LEAST FOUR INCHES HIGH WITH MINIMUM 1/2-INCH STROKE, MOUNTED ON A CONTRASTING BACKGROUND CLEARLY VISIBLE FROM THE STREET.
- PRIOR TO PERMIT ISSUANCE, PROVIDE AN ADDITIONAL FLOOR PLAN AND SITE PLAN FOR USE BY THE ASSESSOR'S OFFICE.

RIGHTS AND LIMITATIONS IN USING PRE-APPROVED PLANS

- **RIGHTS OF THE OWNER / BUILDER:** A. THE OWNER / BUILDER HAS THE RIGHT TO UTILIZE THE PRE-APPROVED PLANS FOR THEIR INTENDED CONSTRUCTION PROJECT, SUBJECT TO COMPLIANCE WITH APPLICABLE REGULATIONS AND GUIDELINES
- **RESPONSIBILITY OF THE OWNER / BUILDER** THE OWNER / BUILDER IS RESPONSIBLE FOR SUBMITTING ALL ITEMS LISTED UNDER THE DEFERRED SUBMITTAL AS REQUIRED BY THE RELEVANT AUTHORITIES. THIS INCLUDES ANY ADDITIONAL DOCUMENTS, PERMITS, OR INFORMATION THAT WERE NOT INCLUDED IN THE PRE APPROVED PLANS
- THE OWNER / BUILDER MUST ENSURE THAT THE CONSTRUCTION PROJECT ADHERES TO AL RELEVANT BUILDING CODES. ZONING REGULATIONS. AND OTHER APPLICABLE LAWS. IT IS THE RESPONSIBILITY OF THE OWNER / BUILDER TO SECURE APPROVAL FROM THE ZONING DEPARTMENT FOR SITE-SPECIFIC LOCATIONS. THE PRE-APPROVED PLANS DO NOT INCLUDE SUCH SITE-SPECIFIC DETAILS. AND THE OWNER / BUILDER MUST OBTAIN NECESSARY PERMITS
- OR VARIANCES AS REQUIRED. LIMITATIONS ON SITE-SPECIFIC LOCATIONS THE PRE-APPROVED PLANS DO NOT PROVIDE SITE-SPECIFIC INFORMATION OR DETAILS REGARDING THE CONSTRUCTION SITE. THE OWNER / BUILDER MUST CONSULT WITH THE APPROPRIATE AUTHORITIES, SUCH AS THE ZONING DEPARTMENT, TO OBTAIN THE NECESSARY APPROVALS FOR THE SPECIFIC LOCATION OF THE CONSTRUCTION PROJECT
- THE OWNER / BUILDER MUST COMPLY WITH ALL ZONING REGULATIONS. SETBACK REQUIREMENTS, ENVIRONMENTAL CONSIDERATIONS, AND ANY OTHER SITE-SPECIFIC RESTRICTIONS IMPOSED BY THE RELEVANT AUTHORITIES.
- COMPLIANCE WITH BUILDING CODES AND REGULATIONS:
- THE OWNER / BUILDER MUST ENSURE THAT THE CONSTRUCTION PROJECT COMPLIES WITH ALL APPLICABLE BUILDING CODES, REGULATIONS, AND STANDARDS, EVEN IF THE PRE-APPROVED PLANS WERE UTILIZED

THE USE OF PRE-APPROVED PLANS DOES NOT EXEMPT THE OWNER / BUILDER FROM FULFILLING THEIR OBLIGATIONS TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. LIABILITY AND INDEMNIFICATION:

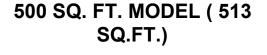
- THE OWNER / BUILDER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE CONSTRUCTION PROJECT INCLUDING ANY CONSEQUENCES ARISING FROM THE USE OF THE PRE-APPROVED
- THE OWNER / BUILDER AGREES TO INDEMNIEY AND HOLD HARMLESS THE RELEVANT AUTHORITIES, ARCHITECTS, ENGINEERS, AND ANY OTHER PARTIES INVOLVED IN THE APPROVAL PROCESS, FROM ANY CLAIMS, DAMAGES, OR LIABILITIES ARISING OUT OF THE USE OF THE PRE-APPROVED PLANS OR THE CONSTRUCTION PROJECT. **GEOGRAPHIC LIMITATIONS:**
- THE PRE-APPROVED PLANS ARE NOT INTENDED FOR AREAS SUBJECT TO SNOW LOAD, WILDFIRE RISK, FLOOD ZONES, OR OTHER SPECIFIC GEOGRAPHIC CONDITIONS. THE OWNER / BUILDER ACKNOWLEDGES AND UNDERSTANDS THAT THE PRE-APPROVED PLANS MAY NOT ACCOUNT FOR UNIQUE SITE CONDITIONS
- SITE-SPECIFIC CONSIDERATIONS: A. THE OWNER / BUILDER MUST ASSESS AND ADDRESS ANY SITE-SPECIFIC FACTORS THAT ARE NOT COVERED BY THE PRE-APPROVED PLANS, INCLUDING BUT NOT LIMITED TO SOIL CONDITIONS, TOPOGRAPHY, DRAINAGE, AND OTHER ENVIRONMENTAL CONSIDERATIONS IT IS THE RESPONSIBILITY OF THE OWNER / BUILDER TO ENGAGE THE NECESSARY PROFESSIONALS. SUCH AS GEOTECHNICAL ENGINEERS OR ENVIRONMENTAL CONSULTANTS
- TO EVALUATE AND MITIGATE ANY SITE-SPECIFIC RISKS OR CHALLENGES. COMPLIANCE WITH LOCAL REGULATIONS: THE OWNER / BUILDER MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS
- THAT APPLY TO THEIR SPECIFIC GEOGRAPHIC AREA, INCLUDING BUT NOT LIMITED TO BUILDING CODES, ZONING ORDINANCES, FIRE CODES, AND ENVIRONMENTAL REGULATIONS. THE USE OF THE PRE-APPROVED PLANS DOES NOT EXEMPT THE OWNER / BUILDER FROM FULFILLING THEIR OBLIGATIONS TO ADHERE TO THESE LOCAL REGULATIONS AND OBTAIN ANY NECESSARY PERMITS OR APPROVALS
- MODIFICATION RESTRICTIONS: THE OWNER / BUILDER SHOULD BE AWARE THAT MODIFICATIONS TO THE PRE-APPROVED PLANS MAY BE REQUIRED TO ADDRESS SPECIFIC SITE CONDITIONS OR MEET LOCAL REGULATIONS. ANY SUCH MODIFICATIONS MUST BE CARRIED OUT IN COMPLIANCE WITH THE APPLICABLE LAWS AND REGULATIONS.
- THE OWNER / BUILDER MAY NEED TO ENGAGE DESIGN PROFESSIONALS, SUCH AS ARCHITECTS OR ENGINEERS, TO REVIEW AND REVISE THE PRE-APPROVED PLANS AS NECESSARY TO ENSURE COMPLIANCE WITH LOCAL REQUIREMENTS 10. RELIANCE AND VERIFICATION:
- A. THE OWNER / BUILDER ACKNOWLEDGES THAT THE USE OF PRE-APPROVED PLANS IS BASED ON THE ASSUMPTION THAT THEY ARE ACCURATE, COMPLETE, AND COMPLIANT WITH RELEVANT REGULATIONS.
- HOWEVER, THE OWNER / BUILDER ALSO UNDERSTANDS THAT IT IS THEIR RESPONSIBILITY TO VERIFY THE SUITABILITY AND APPLICABILITY OF THE PRE-APPROVED PLANS FOR THEIR SPECIFIC PROJECT AND SITE CONDITIONS. THEY SHOULD EXERCISE DUE DILIGENCE IN CONFIRMING THE PLANS' ADEQUACY BEFORE PROCEEDING WITH CONSTRUCTION.

AGING-IN-PLACE DESIGN AND FALL PROTECTION

- THE BATHROOM SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL. AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION, [CRC R327.1.11
- 1. REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY. [CRC R327.1.1(1)]
- REINFORCEMENT SHALL NOT BE LESS THAN 2 INCHES BY 8-INCH NOMINAL LUMBER (1-1/2 INCH BY 7-1/4-INCH ACTUAL DIMENSION) OR OTHER CONSTRUCTION MATERIAL PROVIDING EQUAL HEIGHT AND LOAD CAPACITY. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39-1/4 INCHES ABOVE THE FINISH FLOOR FLUSH WITH WALL FRAMING [CRC R327.1.1(2)] WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE
- OR ONE SIDE WALL AND BACK WALL. [CRC R327.1.1(3)] SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. [CRC R327.1.1(4)]

BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE

- LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM [CRC R327.1.1(5)] A. WHERE THE WATER CLOSET IS NOT PLACED ADJACENT TO A SIDEWALL CAPABLE OF ACCOMMODATING A GRAB BAR, THE BATHROOM SHALL HAVE PROVISIONS FOR INSTALLATION OF FLOOR-MOUNTED, FOLD-AWAY, OR SIMILAR ALTERNATE GRAB BAR
- REINFORCEMENTS APPROVED THE ENFORCING AGENCY [CRC R327.1.1 EXCEPTION 1] REINFORCEMENT SHALL NOT BE REQUIRED IN WALL FRAMING FOR PREFABRICATED SHOWER ENCLOSURES AND BATHTUB WALL PANELS WITH INTEGRAL FACTORY INSTALLED GRAB BARS OR WHEN FACTORY INSTALLED REINFORCEMENT FOR GRAB BARS IS PROVIDED. [CRC R327.1.1 EXCEPTION 2]
- SHOWER ENCLOSURES THAT DO NOT PERMIT INSTALLATION OF REINFORCEMENT AND OR GRAB BARS SHALL BE PERMITTED, PROVIDED REINFORCEMENT FOR INSTALLATION OF FLOOR MOUNTED GRAB BARS OR AN ALTERNATE METHOD IS APPROVED BY THE ENFORCING AGENCY. [CRC R327.1.1 EXCEPTION 3]
- BATHTUBS WITH NO SURROUNDING WALLS, OR WHERE WALL PANELS DO NOT PERMIT THE INSTALLATION OF REINFORCEMENT SHALL BE PERMITTED, PROVIDED REINFORCEMENT FOR INSTALLATION OF FLOOR MOUNTED GRAB BARS ADJACENT TO THE BATHTUB OR AN ALTERNATE METHOD IS APPROVED BY THE ENFORCING AGENCY. [CRC R327.1.1 EXCEPTION 4]
- REINFORCEMENT OF FLOORS SHALL NOT BE REQUIRED FOR BATHTUBS AND WATER CLOSETS INSTALLED ON CONCRETE SLABS. [CRC R327.1.1 EXCEPTION 5] DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED SHALL NOT EXCEED 48 INCHES 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 INCHES MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NOT EXCEEDING 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL
- CONTROL [CRC R327.1.4] R327.1.2 ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROL HEIGHTS. ELECTRICAL RECEPTACLE OUTLETS, SWITCHES, AND CONTROLS (INCLUDING CONTROLS FOR HEATING, VENTILATION, AND AIR CONDITIONING) INTENDED TO BE USED BY OCCUPANTS, SHALL BE LOCATED NO MORE THAN 48 INCHES (1219.2 MM) MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES (381 MM) MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR
- EXCEPTIONS: A. DEDICATED RECEPTACLE OUTLETS; FLOOR RECEPTACLE OUTLETS; CONTROLS MOUNTED ON CEILING FANS AND CEILING LIGHTS; AND CONTROLS LOCATED ON APPLIANCES. RECEPTACLE OUTLETS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE ON A WALL SPACE WHERE THE DISTANCE BETWEEN THE FINISHED FLOOR AND A BUILT-IN FEATURE ABOVE THE FINISH FLOOR, SUCH AS A WINDOW, IS LESS THAN 15 INCHES.





ACCESSORY **DWELLING UNIT**

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



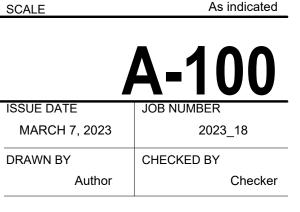
UPDATE

JULY 12, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE

USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT

COVER PAGE



- SCOPE OF WORK SHALL BE CONSTRUCTED ACCORDING TO THESE WORKING DRAWINGS AS AGREED UPON BETWEEN OWNER AND CONTRACTOR. THE WORD "CONTRACTOR" REFERS TO THE GENERAL CONTRACTOR. "SUBCONTRACTOR" REFERS TO ONE HAVING DIRECT CONTACT WITH THE CONTRACTOR 2. CONTRACTOR'S RESPONSIBILITIES: A. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE JOB SITE BEFORE THEIR BID IS SUBMITTED TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. B. THE GENERAL CONTRACTOR SHALL READ, EXAMINE AND BE THOROUGHLY FAMILIAR WITH THESE DRAWINGS AND WITH THE EXISTING SITE CONDITIONS PRIOR TO THE START OF WORK. IN THE EVENT THERE ARE DISCREPANCIES OR OMISSIONS WITHIN THE DRAWINGS AND/OR SPECIFICATIONS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY. C. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATION, ETC., AND BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY. D. NO DRAWINGS, DETAILS, NOTES ETC., SHALL BE INTERPRETED TO ALLOW FOR A VIOLATION OF THE LOCAL BUILDING CODE, STATE BUILDING CODE AND OTHER APPLICABLE CODES AND GOOD CONSTRUCTION PRACTICES. THE GENERAL CONTRACTOR SHALL REVIEW ALL GRADE ELEVATIONS PRIOR TO CONSTRUCTION. CONTRACTORS SHALL VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, MATERIALS, SIZE OF MEMBERS, ETC., PRIOR TO ON-SITE DELIVERY. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO FULLY PROTECT ADJACENT PROPERTIES. H. JOB SHALL BE COMPLETED WITH AS MUCH SPEED AS POSSIBLE WHEN WORK BEGINS. INSPECTIONS: THE CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS FOR HIS WORK AND GIVE THE OWNER TIMELY NOTICE OF HIS INTENT TO HAVE INSPECTION. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS, THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK, TRENCHES, SLEEVES, SPECIAL BOLTING FOR EQUIPMENT CONDUITS, ETC. K. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION, BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER AND ARCHITECT. THE CONTRACTOR SHALL PROVIDE ALL RISK INSURANCE. REFER TO PROJECT MANUAL FOR MINIMUM LIABILITY AND PROJECT DAMAGE COVERAGE. M. THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SANITARY FACILITY ENCLOSURES. LOCATE AS DIRECTED BY OWNER. N. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE LAWS AND CODE REGULATIONS. THESE CODES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: 2022 CALIFORNIA ADMINISTRATIVE CODE 2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA GREEN BUILDING CODE 2022 CALIFORNIA REFERENCE STANDARDS CODE FRESNO COUNTY ORDINANCE TITLE 15 CONTRACTOR SHALL TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND CAREFULLY COMPARE WITH THE CONSTRUCTION DOCUMENTS SUCH FIELD MEASUREMENTS, CONDITIONS, AND OTHER INFORMATION KNOWN TO CONTRACTOR BEFORE COMMENCING THE WORK. ERRORS, INCONSISTENCIES, OR OMISSIONS DISCOVERED AT ANY TIME SHALL BE PROMPTLY REPORTED IN WRITING TO THE OWNER / BUILDER. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE IF CONTRACTOR BECOMES AWARE DURING THE PERFORMANCE OF THE WORK THAT THE CONSTRUCTION DOCUMENTS ARE NOT IN COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS. BY SUBMITTAL OF BID, CONTRACTOR WARRANTS TO OWNER / BUILDER THAT ALL MATERIALS AND EQUIPMENT TO BE FURNISHED ARE NEW UNLESS NOTED OTHERWISE AND ALL WORK WILL BE OF GOOD QUALITY AND FREE FROM FAULTS AND DEFECTS. SUBCONTRACTORS SHALL INSURE THAT ALL WORK IS DONE IN A PROFESSIONAL WORKMANLIKE MANNER BY SKILLED MECHANICS AND SHALL BE REPLACE ANY MATERIALS OR ITEMS DAMAGED BY SUB-CONTRACTOR'S PERFORMANCE. SUBCONTRACTORS AND SUPPLIERS ARE HEREBY NOTIFIED THAT THEY ARE TO CONFER AND COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHER'S WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK, ALL SUBCONTRACTOR WORKMANSHIP SHALL BE OF QUALITY TO PASS INSPECTIONS BY LOCAL AUTHORITIES, LENDING INSTITUTIONS, ARCHITECT OR BUILDER. ANY ONE OR ALL OF THE ABOVE MENTIONED INSPECTORS MAY INSPECT WORKMANSHIP AT ANY TIME, AND CORRECTIONS NEEDED TO ENHANCE THE QUALITY OF BUILDING WILL BE DONE IMMEDIATELY. EACH SUBCONTRACTOR, UNLESS SPECIFICALLY EXEMPTED BY THE TERMS OF HIS / HERS SUBCONTRACT AGREEMENT, SHALL BE RESPONSIBLE FOR CLEANING UP AND REMOVING FROM THE JOB SITE ALL TRASH AND DEBRIS NOT LEFT BY OTHER SUBCONTRACTORS. OWNER / BUILDER WILL DETERMINE HOW SOON AFTER SUBCONTRACTOR COMPLETES EACH PHASE OF HIS / HER WORK THAT TRASH AND DEBRIS WILL BE REMOVED FROM THE SITE. S. APPROVAL BY THE BUILDING INSPECTOR DOES NOT MEAN APPROVAL OR ALLOWABLE FAILURE TO COMPLY WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE ARCHITECT OR ENGINEER FOR INTERPRETATION OR CLARIFICATION. ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED UNDER THESE PLANS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY OWNER / BUILDER UNLESS STIPULATED OTHERWISE. ALL TRADE NAMES AND BRAND NAMES CONTAINED HEREIN ESTABLISH QUALITY STANDARDS. SUBSTITUTIONS ARE PERMITTED, WITH PRIOR APPROVAL B THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT FOR THE ARCHITECT'S AND BUILDERS APPROVAL ALL MATERIALS OR EQUIPMENT WHICH IS CONSIDERED "OR EQUAL" TO THAT SPECIFIED. CONSTRUCTION DOCUMENTS IDENTIFIED A "NOT FOR CONSTRUCTION" WATERMARK ON ANY OR ALL SHEETS MAY BE SUBJECT TO REVIEW. THIS REVIEW MAY RESULT IN CHANGES WHICH MAY BE MADE TO THE PLANS PRIOR TO THE ISSUANCE OF THE FINAL CONSTRUCTION SET WHICH WILL CONTAIN NO WATERMARK DESIGNATIONS. CONSTRUCTION DOCUMENTS IDENTIFIED WITH A WATERMARK ARE NOT TO BE CONSTRUED AS BEING THE COMPLETED OR FINAL DRAWINGS AND THEY SHOULD NOT IN ANY WAY BE USED AS SUCH. W. ALL STANDARD NOTES CONTAINED HEREIN ARE TYPICAL UNLESS NOTED OTHERWISE TYPICAL DETAILS AND SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT THE CONSTRUCTION DOCUMENTS AND ALL COPIES THEREOF FURNISHED TO CONTRACTOR ARE THE PROPERTY OF THE COUNTY OF FRESNO AND ARE NOT TO BE USED ON OTHER WORK 3. ERRORS AND OMISSIONS: IF ANY ERRORS OR OMISSIONS APPEAR IN THESE DRAWINGS, OR OTHER CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR AND SUBCONTRACTORS AFFECTED SHALL NOTIFY THE OWNER / BUILDER IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF FAILING TO GIVE SUCH WRITTEN NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULT OF THE ANY SUCH ERRORS OR OMISSIONS AND THE COST FOR RECTIFYING THE SAME. 4. GUARANTEES: CONTRACTOR SHALL GUARANTEE THE WORK IN GENERAL FOR ONE YEAR AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE BUILDING FREE FROM DEFECTS OF MATERIALS AND POOR WORKMANSHIP FROM DATE OF COMPLETION. THE CONTRACTOR SHALL FURNISHED A WRITTEN GUARANTEE STATING THAT ALL WORK EXECUTED BY HIM WILL BE FREE FROM DEFECTS OF THE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR (UNLESS OTHERWISE SPECIFIED) FROM DATE OF ACCEPTANCE OF HIS WORK, THAT HE WILL REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND ALL OTHER WORK DAMAGE WITHOUT COST TO THE OWNER. 5. ASSURING THAT PLANS ARE BEING FOLLOWED, IT DOES NOT RELIEVE THE CONTRACTOR OR ANY SUBCONTRACTORS FROM ANY RESPONSIBILITY FOR WORK WHICH MAY PROVE FAULTY. JOB CONDITIONS: DUST CONTROL: USE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST DURING THE PERFORMANCE OF SITE WORK. THOROUGHLY MOISTEN ALL EXTERIOR SURFACES AS REQUIRED TO PREVENT DUST FROM BEING A NUISANCE TO THE PUBLIC, NEIGHBORS AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE. PROTECTION: USE ALL MEANS NECESSARY TO PROTECT EXISTING OBJECTS TO REMAIN AND IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER. 7. PREPARATION: CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATION, ETC., AND BURIED ARTIFACTS SUCH AS INDIAN OR DINOSAUR BONES. IF ANY SUCH ITEMS ARE FOUND THE ARCHITECT, CIVIL ENGINEER, AND SOILS ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NOTIFICATION: THE CONTRACTOR SHALL INFORM THE OWNER AND ARCHITECT OF THE DATE FOR START OF SITE WORK. THE DATE SHALL BE ACCEPTABLE TO ALL PARTIES. C. SITE INSPECTION:
 - PRIOR TO ANY DEMOLITION, CAREFULLY INSPECT THE ENTIRE SITE & ALL OBJECTS • DESIGNATED TO BE REMOVED & TO REMAIN.
 - LOCATE ALL EXISTING UTILITY LINES AND EQUIPMENT. DETERMINE WHICH UTILITIES MUST BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR DISCONNECTING OR CAPPING.
 - D. PROTECTIVE WORKS: DEMOLITION SHALL NOT PROCEED UNTIL SUCH PROTECTIVE WORKS ARE PLACED AS ARE REQUIRED TO PROTECT THE PROPERTY AND PERSONNEL FROM THAT HAZARDS OF THE
 - LOCATE ALL EXISTING UTILITY LINES AND EQUIPMENT. DETERMINE WHICH UTILITIES MUST BE REMOVED AND WHICH ARE TO REMAIN AS WELL AS ALL REQUIREMENTS FOR DISCONNECTING OR CAPPING. DAMAGE TO EXISTING WORK: EXISTING WORK DAMAGE IN THAT EXECUTION OF THIS WORK SHALL BE
 - REPAIRED OR RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. 12

- 8. DISCONNECTION OF UTILITIES: REQUIREMENTS OF THE UTILITY COMPANY OR AGENCY INVOLVED, AND WITH OWNER.
- PROTECTION OF UTILITIES: PRESERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES REMAINING
- OWNER
- 11. MATERIALS AND EMPLOYEES: UNLESS OTHERWISE DIRECTED BY THE OWNER, THE CONTRACTOR AND/OR SUBCONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, TELEPHONE, AND GAS TRANSPORTATION. MATERIALS SHALL BE OF GOOD QUALITY. 12. CLEANING UP: THE CONTRACTOR AND SUBCONTRACTORS SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY HIS EMPLOYEES AND WORK. AT THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL HIS RUBBISH, ALL OF HIS TOOLS, SCAFFOLDING AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING AND SHALL LEAVE HIS WORK IN A BROOM CLEAN CONDITION. THE SITE AND BUILDING AREA SHALL BE KEPT CLEAN AND PICKED UP OF DEBRIS AND SCRAPS AT ALL TIMES DURING CONSTRUCTION, PARTICULARLY AT THE END OF EACH WORK WEEK. THE CONTRACTOR SHALL INSURE THAT ALL GLASSES, TILES, TOILET FIXTURES, EQUIPMENT, PAINTED SURFACES, FLOORS, ETC., ARE THOROUGHLY PROTECTED DURING
- ALL CONDITIONS FOR ACCEPTANCE BY THE OWNER. 13. INTENT OF DRAWINGS: PLANS ARE INTENDED TO SHOW DETAILS FOR A COMPLETE PROJECT. PARTS AND DETAILS NOT FULLY SHOWN SHALL BE DETAILED AND EXECUTED ACCORDING TO STANDARD FIRST CLASS PRACTICE AND IN SIMILAR MANNER AND SPIRIT OF DETAILS WHICH ARE SHOWN. IF THE CONTRACTOR FINDS DETAILS WHICH IN HIS OPINION ARE UNSOUND OR NOT STANDARDS, IT IS HIS DUTY TO NOTIFY THE ARCHITECT OF THIS FACT. IF HE PERFORMS THE WORK AS DETAILED WITHOUT SAID NOTIFICATIONS, THEN IT SHALL BE ASSUMED THAT HE DOES NOT OBJECT TO DETAIL. REFER TO RELATED NOTE BELOW FOR ERRORS AND OMISSION.
- 14. CLARIFICATION ON DRAWINGS: NOTE THAT DRAWINGS DO NOT SUPPORT TO SHOW ALL OBJECTS EXISTING ON THE JOB. BEFORE COMMENCING ANY DEMOLITION, VERIFY ALL OBJECTS TO BE REMOVED AND ALL OBJECTS TO BE PRESERVED.
- 15. DIMENSIONS: FIGURED DIMENSIONS SHALL BE FOLLOWED IN PREFERENCE TO SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ANY WORK IS CONSTRUCTED AND/ OR FABRICATED. THE SPECIFICATION AND/OR SCHEDULES ON THE DRAWINGS SHALL HAVE WRITTEN NOTES AND OR BE FOLLOWED IN PREFERENCE TO INFORMATION FURNISHED IN THE FORM OF LINES ON DRAWINGS. DETAILED CLARIFICATION DRAWINGS FURNISHED DURING CONSTRUCTION OR APPROVED BY THE ARCHITECT ARE TO BE CONSIDERED EXPLANATORY AND NOT AS MODIFICATIONS OF THESE PLANS AS SHALL BE CALLED CLARIFICATION DRAWINGS. ALL NOTES, FIGURES AND DETAIL DRAWINGS SHALL BE FOLLOWED AND EXECUTED AS PART OF THESE NOTES.
- 16. ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS, DIMENSION LINES
- ARE TO FACE OF STUD UNLESS NOTED OTHERWISE (U.N.O.)
- PARTIES WITH AN EQUAL AND COMPARABLE ALTERNATE.

03 -CONCRETE WORK

- REFER TO STRUCTURAL ENGINEERING CALCULATIONS AND THE MOST CURRENT SOILS REPORT FOR THE PERFORMANCE REQUIREMENTS FOR CONCRETE FOUNDATIONS. CONCRETE STRENGTH SHALL BE PER CRC SECTION R402.2 AND TABLE R402.2 REFER TO STRUCTURAL
- ENGINEERING CALCULATIONS FOR ADDITIONAL INFORMATION. CONCRETE SHALL BE MIXED IN ACCORDANCE WITH CRC SECTION R404.1.3.3.2. CONCRETE PROPORTION SHALL BE PLACED IN ACCORDANCE WITH CRC SECTION R404.1.3.3.4. CONCRETE SHALL BE CURED IN ACCORDANCE WITH CRC CHAPTER 44 D 318-14
- ALL FORM WORK SHALL BE DESIGNED, CONSTRUCTED, UTILIZED, AND REMOVED PER CRC SECTION R404.1.3.3.6 CONDUIT, PIPES, OR SLEEVES MAY PENETRATE OR BE EMBEDDED IN CONCRETE ONLY IN
- ACCORDANCE WITH PER G 318-14. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CRC SECTION R404.1.3.3.7.8 ALL STEEL REINFORCING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH CRC SECTION R404 1 3 3 7 1
- 10. TOP OF CONCRETE SLABS TO BE MINIMUM 6" (8" HUD) ABOVE FINISH GRADE. CRC SECTION R404.1.6 11. FOUNDATION WIDTHS, DEPTHS, AND REINFORCING, AS SHOWN ON PLANS, ARE SUPERCEDED BY ANY LOCAL CODES OR ORDINANCES WHICH REQUIRES INCREASES OF THE SAME. 12. ALL REINFORCEMENT, CONDUIT, OUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER
- EMBEDDED MATERIALS AND ITEMS MUST BE SECURED AND APPROPRIATELY FASTENED IN THEIR PROPER LOCATIONS PRIOR TO THE PLACEMENT OF CONCRETE, SUB-CONTRACTOR SHALL VERIFY INSTALLATION OF HOLD-DOWNS. ANCHOR BOLTS, PA STRAPS, AND OTHER ANCHORAGE MATERIALS AND ITEMS PRIOR TO PLACEMENT OF CONCRETE.

<u>04 -MASONRY</u>

- 1. ANY AND ALL MATERIALS USED FOR THE CONSTRUCTION AND / OR INSTALLATION OF STONE OR MASONRY VENEER SHALL MEET THE QUALITY STANDARDS AS SET FORTH IN CRC SECTION R703.8 2. ALL MORTAR AND GROUT USED FOR THE CONSTRUCTION AND/OR INSTALLATION OF STONE OR MASONRY VENEER SHALL MEET THE REQUIREMENTS OF CRC SECTION R606.2.8 & R606.3.5 WATER USED IN MORTAR OR GROUT SHALL BE CLEAN AND FREE OF DELETERIOUS AMOUNTS OF
- ACID, ALKALIS, OR ORGANIC MATERIAL OR OTHER HARMFUL SUBSTANCES EXCEPT FOR MORTARS LISTED IN SECTION SR606.2.8. R606.2.9 AND R606.2.10, MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL MEET THE PROPORTION SPECIFICATIONS OF TABLE R606.2.8. OR THE PROPERTY SPECIFICATION OF ASTM C270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE
- WITH SECTION R606.2.8.1., R606.2.8.2 AND R606.2.8.3 (CRC SECTION R606.2.8) GROUT SHALL CONSIST OF CEMENTITIOUS MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C 476 OR THE PROPORTION SPECIFICATIONS OF TABLE R606.2.12 TYPE M OR TYPE S MORTAR TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO PRODUCE POURING CONSISTENCY SHALL BE PERMITTED TO BE USED AS GROUT (CRC SEC R606.2.12)
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150-12 ALL BRICK SHALL CONFORM TO ASTM C1088-13 FOR SOLID UNITS OF THIN VENEER BRICK UNLESS SPECIFICALLY SHOWN OTHERWISE ALL BRICK SHALL BE LAID IN A RUNNING BOND
- PATTERN. MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1 1/2 INCHES, WITH NOT LESS THAN 5/8 INCH MORTAR OR GROUT COVER TO OUTSIDE FACE. MASONRY VENEER SHALL CONFORM TO TABLE R703.8.4(I) (Circa SECTION R703.8.4) AS AN ALTERNATIVE TO THE AIRSPACE REQUIRED BY TABLE R703.8.4. GROUT SHALL BE PERMITTED TO FILL THE AIRSPACE. WHERE THE AIRSPACE IS FILLED WITH GROUT, A WATER-RESISTIVE BARRIER IS REQUIRED OVER STUDS OR SHEATHING. WHERE THE AIRSPACE IS FILLED, REPLACING THE SHEATHING AND WATER-RESISTIVE BARRIER WITH WIRE MESH AND APPROVED WATER RESISTIVE BARRIER-BACKED REINFORCEMENT ATTACHED DIRECTLY TO STUD IS PERMITTED. (CRC SECTION
- R703.8.4.2) ADHERED MASONRY VENEER SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R703.7.3 AND THE REQUIREMENTS IN SECTION 12.1 AND 12.3 OF MS 402. ADHERED MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R703.7.1, ARTICLE 3.3C OF TOMS 602 OR THE MANUFACTURER'S INSTRUCTIONS. (CRC SECTION R703.12) FLASHING SHALL BE LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL OR SLAB AND AT OTHER POINTS OF SUPPORT, INCLUDING STRUCTURAL FLOORS, SHELF, ANGLES AND LINTELS WHERE THE MASONRY VENEERS ARE DESIGNED IN ACCORDANCE WITH SECTION R703.8. SEE SECTION R703.4 FOR ADDITIONAL REQUIREMENT (CRC SECTION R703.8.5) WEEPHOLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS AT A MAXIMUM SPACING OF 33 INCHES ON CENTER. WEEPHOLES SHALL BE LOCATED IMMEDIATELY ABOVE THE FLASHING. (CRC SECTION R703.8.6)

<u>05 -METALS</u>

- REFER TO STRUCTURAL NOTES AND SPECIFICATIONS FOR STRUCTURAL STEEL AND METAL AND REINFORCING STEEL SPECIFICATIONS ALL STRUCTURAL STEEL SHALL CONFORM TO 2022 CRC; ANSI S100, AISI S200 AND ASTM C955 SEC. 8, AISI S220 AND ASTM C645, SEC. 10 AND AISI S230 FOUNDATION ANCHORAGE, WOOD SILL PLATES AND WOOD WALLS SUPPORTED DIRECTLY ON
- CONTINUOUS FOUNDATION SHALL BE ANCHORED TO THE FOUNDATION IN ACCORDANCE TO CRC SECTION R403.1.6 FASTENERS FOR ALL PRESERVATIVE TREATED WOOD INCLUDING NUTS AND WASHERS SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

06 -WOOD, PLASTIC & COMPOSITES

- WOOD AND WOOD-BASE PRODUCTS USED FOR LOAD-SUPPORTING PURPOSES SHALL CONFORM TO BE APPLICABLE PROVISIONS OF CRC SECTION R302. SAWN LUMBER SHALL BE IDENTIFIED BY A GRADE MARK OF AN ACCREDITED LUMBER GRADING OR INSPECTION AGENCY AND HAVE DESIGN VALUES CERTIFIED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS20. IN LIEU OF A GRADE MARK, A CERTIFICATE OF INSPECTION ISSUED BY A LUMBER GRADING OR INSPECTION AGENCY MEETING THAT REQUIREMENTS OF THE FOLLOWING SECTION CRC SECTION R302.1, R602.1, R802.1 ALL PRESERVATIVE TREATED WOOD REQUIRED TO BE TREATED UNDER CRC SECTION R318.1 SHALL BEAR THE QUALITY MARK OF AN INSPECTION AGENCY WHICH HAS BEEN
- ACCREDITED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM OR EQUIVALENT. THE QUALITY MARK SHALL BE ON A STAMPED OR LABEL AFFIXED TO THE PRESERVATIVE-TREATED WOOD. CRC SECTION R317.2
- ALL LUMBER SIZES NOTED AND SPECIFIED ON PLANS ARE NOMINAL SIZES UNLESS SPECIFICALLY INDICATED AS NET SIZE

10. USE OF THE PREMISES: THE CONTRACTOR SHALL CONFINE HIS WORKMEN, AND THE PARKING OF

WORKMEN'S VEHICLES TO LIMITS INDICATED BY LAW, ORDINANCE, PERMITS OR DIRECTION OF THE

17. PLEASE NOTE THAT ALL SPECIFIED MATERIALS ARE SUBJECT TO CHANGE UPON APPROVAL BY ALL

- GLUE LAMINATED LUMBER ALL GLUE LAMINATED TIMBER SHALL MEET THE STANDARDS OF QUALITY AND WORKMANSHIP AS STATED IN CRC SECTION R317.1 AND THE CURRENT EDITION OF THE TIMBER CONSTRUCTION
- MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STRUCTURAL GLUE LAMINATED TIMBERS SHALL BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN ANSI A190.1, ANSI 117 AND ASTM D 3737. (CRC SECTIONS R502.1.3 R602.1.3 AND
- R802.12) REFER TO THE STRUCTURAL ENGINEER'S CURRENT NOTES, CALCULATIONS AND SPECIFICATIONS
- PROTECTION AGAINST DECAY & TERMITE ALL WOOD IN CONTACT WITH GROUND, EMBEDDED IN CONCRETE IN DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED TO THE OCCUPANCY TO BE PROTECTION OF WOOD OR WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE LOCATIONS SPECIFIED IN SECTIONS R317.1 SHALL BE NATURALLY DURABLE WOOD OR PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA UI FOR SPECIES, PRODUCT, PRESERVATIVE AND END USE PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA UI-14.
- WOOD JOIST OR THE BOTTOM OF WOOD STRUCTURAL FLOOR WHEN CLOSER THAN 18 INCHES, OR WOOD GIRDERS ARE CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION. (CRC SECTION R317.1 (I)).
- WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES FROM EXPOSED GROUND. (SEC R317.1 (2)). SILL AND SLEEPERS ON CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER. (C.R..C. SEC R317.1 (3)). END OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING
- CLEARANCES OF LESS THAN 1/2 INCH ON TOPS, SIDES, AND ENDS. (SECTIONS R317.1 (4)). WOOD SIDING, SHEATHINGS AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING CLEARANCES OF LESS THAN 6 INCHES FROM THE GROUND OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE STRESS, PORCH SLABS, PATIO SLABS, AND SIMILAR HORIZONTAL
- SURFACES EXPOSED TO WEATHER. (CRC SEC R317 (5)). WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM WHICH FLOORS OR ROOFS BY AN IMPERVIOUS MOISTURE BARRIER. (SEC R317.1 (6))/ WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS (SEC R317.7 (7)).
- IN GEOGRAPHICAL AREAS WHERE EXPERIENCE HAS DEMONSTRATED A SPECIFIC NEED, APPROVED NATURALLY DURABLE OR PRESSURE-PRESERVATIVE-TREATED WOOD SHALL BE USED FOR THOSE PORTIONS OF WOOD MEMBERS THAT FORM THE STRUCTURAL SUPPORTS OF BUILDINGS, BALCONIES, PORCHES OR SIMILAR PERMANENT BUILDING APPURTENANCES WHEN THOSE MEMBERS ARE EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION FROM A ROOF, EAVE, OVERHANG OR OTHER COVERING THAT WOULD PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS. MAY INCLUDE SUCH MEMBERS
 - HORIZONTAL MEMBERS SUCH AS GIRDERS, JOIST AND DECKING VERTICAL MEMBERS SUCH AS POSTS, POLES, AND COLUMNS
 - BOTH HORIZONTAL AND VERTICAL MEMBERS
- WOOD COLUMNS SHALL BE APPROVED WOOD OF NATURAL DECAY RESISTANCE OR APPROVED PRESSURE PRESERVATIVE TREATED WOOD. (CRC SECTION R317.1.4)
- **SHEATHING** WOOD STRUCTURAL PANEL WALL SHEATHING SHALL CONFORM TO DOS PS I OR DOC PS 2 OR ANSI/APA PRP 210 CSA 0437 OR CSA 0325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY (SEC R604.1)
- WOOD STRUCTURAL PANEL USED AS ROOF SHEATHING SHALL CONFORM TO REQUIREMENTS OF CRC SECTION 803.2 REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS CALCULATIONS AND PLANS FOR
- REQUIRED STRENGTH, GRADE, AND THICKNESS FOR WOOD STRUCTURAL PANEL ROOF SHEATHING AND FOR DIAPHRAGM NAILING. REFER TO THE STRUCTURAL ENGINEER'S CURRENT SPECIFICATIONS, CALCULATIONS AND PLANS FOR
- REQUIRED STRENGTH, GRADE, AND THICKNESS FOR THICKNESS FOR PLYWOOD FLOOR SHEATHING PANELS AND FOR DIAPHRAGM NAILING AND ADHESIVE REQUIREMENTS WHERE APPLICABLE, REFER TO THE SHEAR WALL SCHEDULE FOR REQUIRED STRENGTH, GRADE, AND THICKNESS OF PLYWOOD SHEAR PANELS AND FOR REQUIRED SHEAR WALL NAILING SCHEDULE
- <u>FLOOR FRAMING</u> REFER TO THE STRUCTURAL ENGINEER'S CURRENT PLAN & CALCULATIONS FOR SIZE, SPACING AND ANCHORAGE OF ALL FLOOR JOISTS; SIZE, LOCATION, AND ANCHORAGE OF ALL FLOOR BEANS AND HEADERS, AND ALL RELATED FRAMING ISSUES THE PLACEMENT OF HOLES IN FLOOR JOIST WEBS SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- THE NOTCHING OR CUTTING OF FLOOR JOIST FLANGES IS NOT ALLOWED.
- <u>ROOF FRAMING</u>
- ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE. THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP
- DRAWINGS FOR APPROVAL OF DESIGN LOADS CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT
- 3. MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PROPER TO FABRICATION TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST BUILDING CODE FOR ALL LOADS
- IMPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS. ALL CONNECTORS SHALL BE ICC APPROVED AND OF ADEQUATE STRENGTH TO RESIST ALL DESIGN LOADS
- AN ATTIC ACCESS MINIMUM OPENING ALLOWED IS 22" X 30", PROVIDED THE LARGEST PIECE OF EQUIPMENT CAN BE REMOVED THROUGH THE OPENING. (2022 CALIFORNIA MECHANICAL CODE -SECTION 904.10) ATTIC ACCESS BE PROVIDED AND LOCATED IN A CORRIDOR, HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. THIRTY-INCH-MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS (CRC SEC R807).
- <u>WALL FRAMING</u>
- 1. ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES SPACED AT 24 INCHES ON CENTER UNLESS NOTED OTHERWISE. THE MANUFACTURER SHALL SUPPLY TO THE ARCHITECT AND BUILDER CALCULATIONS AND SHOP
- DRAWINGS FOR APPROVAL OF DESIGN LOADS CONFIGURATION (2 OR 3 POINT BEARING), VOLUME CEILING OPTIONS, AND SHEAR TRANSFER, PRIOR TO FABRICATION ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY PROFESSIONAL ENGINEER
- REGISTERED IN THE STATE WHEREIN THE PROJECT IS TO BE BUILT MANUFACTURER IS TO SECURE BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP
- DRAWINGS PROPER TO FABRICATION TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST BUILDING CODE FOR ALL LOADS IMPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS.
- ALL CONNECTORS SHALL BE ICC APPROVED AND OF ADEQUATE STRENGTH TO RESIST ALL DESIGN AN ATTIC ACCESS MINIMUM OPENING ALLOWED IS 22" X 30", PROVIDED THE LARGEST PIECE OF
- EQUIPMENT CAN BE REMOVED THROUGH THE OPENING. (2022 CALIFORNIA MECHANICAL CODE -SECTION 904.10) ATTIC ACCESS BE PROVIDED AND LOCATED IN A CORRIDOR, HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. THIRTY-INCH-MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS (CRC SEC R807).
- FIRE BLOCKING
- IN COMBUSTIBLE CONSTRUCTION, FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF BOTH VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN A WOOD-FRAMED CONSTRUCTIONS IN THE LOCATIONS SPECIFIED IN CRC SECTIONS. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
- A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AND PARALLEL ROWS AND STUDS OR STAGGERED STUDS, AS FOLLOWS: a. VERTICALLY AT THE CEILING AND FLOOR LEVELS
- b. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET B. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS C. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
- ENCLOSED SPACES UNDER STAIRS SHALL ALSO COMPLY WITH CRC SECTION R302.7 AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING & FLOOR LEVELS, WITH AN APPROVED MATERIAL TO RESIST FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS E. FOR THE FIREBLOCKING AT CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19
- 3. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING UNIT SEPARATION. (CRC SECTION R302.11).
- FIRE BLOCKING SHALL CONSIST OF 2 INCHES NOMINAL LUMBER OR TWO THICKNESS OF 1-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 28/32-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/32-INCH WOOD STRUCTURAL PANELS OR ONE THICKNESS OF 3/4 -INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4-INCH PARTICLEBOARD OR ONE-HALF-INCH GYPSUM BOARD OR ONE-QUARTER-INCH CEMENT-BASED MILLBOARD OR BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE OR CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263 FOR SPECIFIED APPLICATIONS. (CRC SEC R302.11.1)
- WALLS CONSTRUCTED USING PARALLEL OR STAGGERED STUDS FOR SOUND TRANSMISSION CONTROL SHALL HAVE FIRE BLOCKS OF BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OR OTHER APPROVED NONRIGID MATERIALS SHALL BE PERMITTED FOR COMPLIANCE WITH 10-FOOT HORIZONTAL FIREBLOCKING (CRC SEC R302.11.1.1)

5. IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE BOTH ABOVE AND BELOW THE CONCEALED SPACE OF FLOOR-CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFT-STOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR-CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:

A. CEILING IS SUSPENDED UNDER THE FLOOR FRAMING B. FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS (CRC SECTION R302.12)

DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 1/2-INCH GYPSUM BOARD, 3/8-INCH WOOD STRUCTURAL PANELS OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO THE FLOOR FRAMING MEMBERS UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL. INTEGRITY OF THE DRAFTSTOPS SHALL BE MAINTAINED. (CRC SEC R302.12.1)

07 -THERMAL & MOISTURE PROTECTION

PROVIDE ALL FLASHING, COUNTER-FLASHING, BITUMEN, MEMBRANE WATERPROOFING, SHEET METAL, CAULKING, SEALANTS, ELECTROMERIC WALKING SURFACES, AND RAIN GUTTERS AND/OR DIVERTERS WHERE REQUIRED, TO MAKE WORK COMPLETELY WATERPROOF THE TERMS "CORROSION RESISTANT" OR "NON-CORROSIVE" THE ABILITY OF A MATERIAL TO WITHSTAND DETERIORATION OF ITS SURFACE OR ITS PROPERTIES WHEN EXPOSED TO ITS ENVIRONMENT. (CRC SEC 202). WHEN AN ELEMENT IS REQUIRED TO BE CORROSION RESISTANT OR NON-CORROSIVE, ALL OF ITS PARTS, SUCH AS SCREWS, NAILS, WIRE, DOWELS, BOLTS, NUTS, WASHERS, SHIMS, ANCHORS, TIES AND ATTACHMENTS, SHALL BE CORROSION RESISTANT MATERIALS USED FOR CONSTRUCTION OF EXTERIOR WALLS SHALL COMPLY WITH THE PROVISIONS OF SECTION R703. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING WATER RESISTIVE BARRIER WHICH IS A MINIMUM OF ONE LAYER OF NO. 15 ASPHALT FELT COMPLYING WITH ASTM D226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS, AS DESCRIBED IN SEC R703.2 PROTECTION AGAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED IN ACCORDANCE WITH THE CALIFORNIA ENERGY CODE (CRC SECTION R703.1.1) EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH WEATHER RESISTANT EXTERIOR WALL

ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (CRC SECTION R703.1) APPROVED CORROSION RESISTANT FLASHING SHALL BE APPLIED SHINGLE FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO BUILDING STRUCTURAL FRAMING COMPONENTS SELF-ADHERED MEMBRANES USED AS FLASHING SHALL AAMA 711. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY

WITH AAMA 714. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION RESISTANT FLASHING SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: A. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF

THE EXTERIOR WALL FINISH OR TO THE WATER RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE

- AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS. UNDER AND THE ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS
- CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIMS
- WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION
- F. AT WALL AND ROOF INTERSECTIONS

AT BUILT-IN GUTTERS BALCONIES, LANDINGS, EXTERIOR STAIRWAYS, OCCUPIED ROOFS AND SIMILAR SURFACES EXPOSED TO THE WEATHER AND SEALED UNDERNEATH SHALL BE AND SLOPED A MINIMUM OF 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTALLY (2% SLOPE) FOR DRAINAGE (CRC SECTION R311.3) PROVIDE A MINIMUM 2 INCH DROP FROM FINISHED INTERIOR FLOOR ELEVATIONS TO THE HIGHEST FLOOR ELEVATION OF ANY ADJOINING DECK OR BALCONY. PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR. (CRC SECTION R311.3.1) ELASTOMERIC OR MEMBRANE DECK COATINGS SHALL BE INSTALLED PER MANUFACTURER'S

SPECIFICATIONS AT DECKS AND BALCONIES. COLOR FINISH AND DETAILING SHALL BE APPROVED BY OWNER / BUILDER AND ARCHITECT.

UNLESS DESIGNED TO DRAIN OVER DECK EDGES, DRAINS, AND OVER-FLOWS ADEQUATE SIZE SHALL BE INSTALLED AT THE LOW POINTS OF DECK OR BALCONY. 10. ALL SHEET METAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS AND STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (S.M.A.C.N.A.). THE ARCHITECTURAL SHEET METAL MANUAL, AND SEALANT, WATERPROOFING AND RESTORATION INSTITUTE'S (S.W.R.I.) GUIDE - "SEALANT'S: THE PROFESSIONAL'S GUIDE".

11. SHEET METAL SHALL BE STEEL, HOT-DIPPED, TIGHT COATED IN GALVANIZED, CONFORMING TO ASTM A525 AND SHALL BE A NUMBER 24 SHEET METAL GAGE UNLESS OTHERWISE NOTED IN THESE NOTES, PLANS, OR MANUFACTURER'S SPECIFICATIONS. 12. SHEET ALUMINUM SHALL CONFORM WITH FEDERAL SPECIFICATIONS QQ-A-359 AND ASTM B209

ALLOY 3003. 13. FLASHING FOR ASPHALT SHINGLES SHALL COMPLY WITH SECTION R905.2.8. FABRICATE SHEET METAL WITH FLAT LOCK SEAMS AND SOLDER WITH TYPE AND FLUX RECOMMENDED BY MANUFACTURER. SEAL ALUMINUM SEAMS WITH EPOXY METAL SEAM CEMENT. WHERE REQUIRED

FOR STRENGTH, RIVET, SEAMS, AND JOINTS, 14. SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE IN ACCORDANCE WITH APPLICABLE STANDARDS TO PROVIDE A PERMANENTLY WATER-PROOF, WEATHER RESISTANT INSTALLATION 15. BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL 0.019-INCH THICKNESS OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 POUNDS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION-RESISTANT METAL OF MINIMUM NOMINAL 0.019-INCH THICKNESS. (CRC SECTION R905.2.8.1) 16. ROOF VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S

INSTRUCTIONS BEFORE APPLYING SHINGLES. VALLEY LINING OF THE FOLLOWING TYPES SHALL BE PERMITTED FOR OPEN VALLEYS (VALLEY LINING EXPOSED) LINED WITH METAL, THE VALLEY LINING SHALL

BE NOT LESS THAN 24 INCHES WIDE AND OF ANY OF THE CORROSION-RESISTANT METALS IN TABLE R905.2.8.2.

FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL-SURFACED ROLL ROOFING COMPLYING WITH ASTM D 3909 OR ASTM D 6380 CLASS M, SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE. FOR CLOSED VALLEYS (VALLEYS COVERED WITH SHINGLES), VALLEY LINING OF ONE PLY OF SMOOTH ROLL ROOFING COMPLYING WITH ASTM D 6380 AND AT LEAST 36 INCHES WIDE OR VALLEY LINING AS DESCRIBED IN ITEM 1 OR 2 ABOVE SHALL BE PERMITTED. SELF-ADHERING

POLYMER MODIFIED BITUMEN UNDERLAYMENT COMPLYING WITH ASTM D1970 SHALL BE PERMITTED IN LIEU OF THE LINING MATERIAL. (CRC SECTION R905.2.8.2) 17. BASE FLASHING AGAINST A VERTICAL SIDEWALL SHALL BE CONTINUOUS OR STEP FLASHING SHALL NOT BE LESS THAN 4 INCHES IN HEIGHT AND 4 INCHES IN WIDTH AND SHALL DIRECT WATER AWAY FROM THE VERTICAL SIDEWALL ONTO THE ROOF OR GUTTER. (CRC SECTION R905.2.8.3). FLASHING ONTO THE ROOF OR GUTTER. (CRC SECTION R905.2.8.3). FLASHING AGAINST VERTICAL FRONT WALL.

AS WELL AS SOIL STACK, VENT PIPE AND CHIMNEY FLASHING, SHALL BE APPLIED IN ACCORDANCE WITH THE ASPHALT SHINGLE MANUFACTURER'S PRINTED INSTRUCTIONS (CRC SECTION R905.2.8.4) ASPHALT SHINGLES ROOF MATERIAL) 18. AT THE JUNCTURE OF ROOF VERTICAL SURFACES, FLASHING, AND COUNTER-FLASHING SHALL BE

PROVIDED IN ACCORDANCE WITH CHAPTER 9 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND, WHERE OF METAL, - SHALL NOT BE LESS THAN 0.019 INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL. THE VALLEY FLASHING SHALL EXTEND AT LEAST 11 INCHES FROM THE CENTERLINE EACH WAY AND HAVE A SPLASH DIVERTER RIB NOT LESS THAN 1 INCH HEIGHT AT THE FLOW LINE FORMED AS PART OF THE FLASHING. SECTIONS OF FLASHING SHALL HAVE AN END LAP OF NOT LESS THAN 4 INCHES. FOR ROOF SLOPES OF THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) AND GREATER, VALLEY FLASHING SHALL HAVE A 36-INCHES WIDE UNDERLAYMENT OF ONE LAYER OF TYPE 1 UNDERLAYMENT RUNNING THE FULL LENGTH OF THE VALLEY. IN ADDITION TO THE OTHER REQUIRED UNDERLAYMENT. IN AREAS WHERE THE AVERAGE DAILY TEMPERATURE IN JANUARY IS 25 DEGREES F OR LESS, METAL VALLEY FLASHING UNDERLAYMENT SHALL BE SOLID-CEMENT TO THE ROOFING UNDERLAYMENT OR SLOPES LESS THAN SEVEN UNITS VERTICAL IN 12 UNITS HORIZONTAL (58-PERCENT SLOPE) OR BE OF SELF ADHERING POLYMER MODIFIED BITUMEN SHEET. (CRC SEC R905.3.8)

EXTERIOR WALL COVERINGS

SEE FINISHES IN THESE GENERAL NOTES FOR EXTERIOR PLASTER

ALL EXTERIOR MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION THE CALIFORNIA BUILDING CODE AND ALL STATE AND LOCAL CODES WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER CRC SECTION R703.2 AND WHEN APPLIED OVER WOOD BASE SHEATHING, SHALL INCLUDE TWO LAYERS OF GRADE 'D' PAPER (CRC SECTION R703.7.3)

FIBER-CEMENT PANELS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186 TYPE A, MINIMUM GRADE 11 OR ISO 8338, CATEGORY A, MINIMUM CLASS 2. PANELS SHALL BE INSTALLED WITH LONG DIMENSIONS EITHER PARALLEL OR PERPENDICULAR TO FRAMING, VERTICAL AND HORIZONTAL JOINTS SHALL OCCUR OVER FRAMING MEMBERS AND SHALL BE PROTECTED WITH CAULKING, OR WITH BATTENS OR FLASHING OR BE VERTICAL OR HORIZONTAL SHIPLAP OR OTHERWISE DESIGNED TO COMPLY WITH SECTION R703.1. PANEL SIDING SHALL BE INSTALLED WITH FASTENERS IN ACCORDANCE WITH TABLE R703.3 (1) OR APPROVED MANUFACTURERS' INSTRUCTIONS. (CRC SECTION R703.10.1) FIBER-CEMENT LAP SIDING HAVING A MAXIMUM WIDTH OF 12 INCHES SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C1186, TYPE A, MINIMUM GRADE II OR ISO 8336, CATEGORY A, MINIMUM CLASS 2. LAP SIDING SHALL BE LAPPED A MINIMUM OF 1 1/4 INCHES AND LAP SIDING NOT HAVING TOUNGE-AND-GROVE END JOINTS SHALL HAVE THE END PROTECTED WITH CAULKING. COVERED WITH AN H-SECTION JOINT COVER LOCATED OVER A STRIP OF FLASHING OR SHALL BE DESIGNED TO COMPLY WITH SECTION R703.1. LAP SIDING COURSES SHALL BE INSTALLED WITH THE FASTENER HEADS EXPOSED OR CONCEALED, IN ACCORDANCE WITH TABLE R703.3(1) OR APPROVED MANUFACTURERS' INSTRUCTIONS (CRC R703.10.2)

500 SQ. FT. MODEL (513 SQ.FT.)



ACCESSORY DWELLING UNIT

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



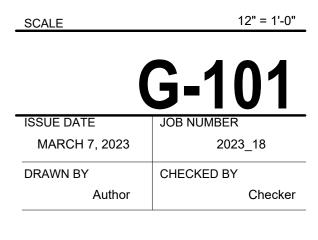
UPDATE

JULY 12, 2023

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GENERAL NOTES



- **INSULATION MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS AND VAPOR-PERMEABLE** MEMBRANES INSTALLED WITHIN FLOOR-CEILINGS ASSEMBLIES, ROOF CEILING ASSEMBLIES, WALL ASSEMBLIES, CRAWL SPACES, AND ATTICS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 150 WHERE TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. EXCEPTIONS: WHEN SUCH MATERIALS ARE INSTALLED IN CONCEALED SPACES, THE FLAME SPREAD INDEX AND SMOKE-DEVELOPED INDEX LIMITATIONS DO NOT APPLY TO THE FACINGS, PROVIDED THAT
- THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH (CRC SEC R302.10.1 EXCP) DUCT INSULATION AND INSULATION IN PLENUMS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT CALIFORNIA MECHANICAL CODE
- BATTS OR BLANKETS OF MINERAL OR GLASS FIBER OTHER APPROVED NON-RIGID MATERIAL SHALL BE PERMITTED FOR COMPLIANCE WITH 10 FOOT HORIZONTAL FIRE BLOCKING IN WALLS CONSTRUCTED USING
- PARALLEL ROWS OF STUDS OR STAGGERED STANCE. (CRC SECTION ARE 302.1 1.1.1) FOR PROJECTS WITHIN CALIFORNIA TO ENERGY EFFICIENCY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO INSULATION "R" VALUES, PERCENTAGE OF GLAZING, GLAZING "U" VALUES, ETC. SHALL BE DETERMINED BY THE CALIFORNIA ENERGY CODE. A PART OF TITLE 24 AND LOCATED IN THE PLANS ON THE ENERGY COMPLIANCE
- SHEETS(S) (CFI R). ENERGY CALCULATIONS PREPARED IN ACCORDANCE WITH STATE CODES ARE ALSO REQUIRED AS PART OF THE BUILDING DEPARTMENT SUBMITTAL FOR PROJECTS WITHIN CALIFORNIA BUILDER AND INSULATION INSTALLER MUST PROVIDE A CERTIFICATE OF INSULATION AND POST IT IN CONSPICUOUS LOCATION FOR CALIFORNIA STATE ENERGY CODE
- THE ENERGY REQUIREMENTS FOR PROJECTS OUTSIDE OF CALIFORNIA SHALL BE BASED ON MODEL, ENERGY CODE OR INTERNATIONAL ENERGY CONSERVATION CODE. REFER TO LOCAL JURISDICTION.
- THE FOLLOWING OPENINGS IN THE BUILDING ENVELOPE MUST BE CAULKED SEALED OR WEATHERSTRIP TO PROTECT AGAINST COLD AIR, INFILTRATION OR HEAT LOSS: A. EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALL PANELS, WALL, WALL SOLE PLATES AND FLOORS
- AND INTERIOR WALLS, CEILINGS AND FLOORS; OPENINGS FOR PLUMBING, ELECTRICAL AND GAS LINES IN EXTERIOR OPENINGS IN THE ATTIC FLOOR, (SUCH AS WERE CEILING, PANELS ME INTERIOR AND EXTERIOR WALLS)
- C. ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE.

ROOFING MATERIALS

- ROOFING MATERIAL SHALL BE CLASS "A" UNLESS OTHERWISE APPROVED BY OWNER / BUILDER
- THE QUALITY AND DESIGN OF ROOFING MATERIALS AND THEIR FASTENINGS SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED IN CRC SECTION R905.3 (FOR CLAY & CONCRETE TILE)
- CLAY OR CONCRETE TILE SHALL COMPLY WITH CRC STANDARD R905.3.5 ALL MATERIAL SHALL BE DELIVERED IN PACKAGES BEARING THE MANUFACTURER'S LABEL OR IDENTIFYING MARK. (CRC SECTION R904.4) COMPOSITION ROOFING SHINGLES SHALL BE OF ASPHALT OR APPROVED RELATED MATERIALS AND MEET THE 8.
- REQUIREMENTS OF CRC SECTION R905.2 ASPHALT SHALL BE DELIVERED IN CARTONS BEARING THE NAME OF THE MANUFACTURER'S IDENTIFYING MARKS AND APPROVED TESTING AGENCY LABELS REQUIRED. BULK SHIPMENTS SHALL BE ACCOMPANIED BY THE SAME INFORMATION ISSUED IN THE FORM OF A CERTIFICATE OR ON A BILL OF LADING BY THE MANUFACTURER (CRC SECTION R904.4)
- ASPHALT SHINGLES SHALL BE FASTENED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, BUT NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE (CRC **SECTION R905.2.6**
- CLAY OR CONCRETE ROOF TILES INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF CRC SECTION R905.3. UNDERLAYMENT SHALL COMPLY WITH SECTION 905.1.1. AND TYPE AND CLASSIFICATION INDICATED ON TABLE R905.1.1(1). UNDER-LAYMENT SHALL BE APPLIED PER TABLE R905.1.1(2) AND ATTACHED PER TABLE 905.1.1(3)
- 8. TYPE, COLOR, AND PROFILE OF ALL ROOFING TILES SHALL BE APPROVED BY OWNER / /BUILDER AND ARCHITECT
- BUILT-UP ROOFING FLY MATERIALS SHALL BEAR THE LABEL OF AN APPROVED AGENCY HAVING A SERVICE FOR THE INSPECTION OF MATERIAL AND FINISHED PRODUCTS DURING MANUFACTURE. (CRC SECTION R904.4) 10. BUILT-UP ROOFING SHALL BE INSTALLED ACCORDING TO SECTION R905.9 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND (CRC SECTION R905.9.3).

08 -OPENINGS

- SEE OPENING SCHEDULE FOR SIZES AND TYPES OF DOOR AND WINDOWS, AND FOR ANY DIVIDED LITE PATTERNS. COLORS SHALL BE APPROVED BY THE OWNER/BUILDER. EGRESS DOOR SHALL BE SIDE HINGE SWINGING, AND SHALL PROVIDE A CLEAR WIDTH NO LESS THAN 32 INCHES AND SHOULD OPEN DIRECTLY INTO A PUBLIC WAY, OR YARD OR COURT THAT OPENS TO A PUBLIC WAY.
- EXCEPTION: PRIVATE GARAGE AND DOORS WITHIN OR SERVING A SINGLE DWELLING UNIT IN GROUPS R –2 AND R-3.(CRC SECTION R311.) THE DOOR FROM THE GARAGE TO THE HOUSE SHALL BE SOLID WOOD DOORS NO LESS THAN 1 3/8 INCHES AND THICKNESS, SOLID OR HONEYCOMB CORE STEEL. DOORS NO LESS THAN 1 3/8 INCHES THICK OR 20 MINUTES
- FIRE RATED DOORS. EQUIPPED WITH A SELF CLOSING OR AUTOMATIC CLOSING AND SELF LATCHING DEVICE. (CRC SECTION R302.5.1.) PROVIDE SECURITY HARDWARE FOR ALL DOORS AND WINDOWS IN CONFORMANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
- ALL AUTOMATIC GARAGE DOOR OPENERS IF PROVIDED, SHALL BE LISTED IN ACCORDANCE WITH YOU UL325. SEE HEALTH AND SAFETY CODE SECTION 19890 AND 19891 FOR ADDITIONAL PROVISIONS FOR RESIDENTIAL GARAGE DOOR OPENERS.(CRC SECTION R309.4.)
- ALL SLIDING OR SWINGING DOORS AND WINDOWS OPENING TO THE EXTERIOR OR TO UNCONDITIONAL AREA SHALL BE FULLY WEATHER-STRIPPED, GASKETED, OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION. ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET AIR INFILTRATION STANDARDS OF
- THE CURRENT AMERICAN NATIONAL STANDARDS INSTITUTE, ASTM. E283-73 WITH A PRESSURE DIFFERENTIAL OF 1.57 POUNDS PER SQUARE FOOT, AND SHALL BE CERTIFIED AND LABELED ESCAPE OR RESCUE WINDOW SHALL HAVE A NET CLEAR OPENING NOT LESS THAN 5.7 SQUARE FEET. THE NET CLEAR HEIGHT OPENING SHALL NOT BE LESS THAN 24 INCHES AND THE NET CLEAR WITH NO LESS THAN 20
- INCHES. THE NET CLEAR OPENING DIMENSIONS REQUIRED TO BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE THE WINDOW SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. (CRC SECTIONS R310.2.1, R310.2.2) BARS, GRILLES, COVERS, SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY
- ESCAPE AND RESCUE OPENINGS, BULKHEAD, ENCLOSURES, OR WINDOW WELLS THAT SERVES SUCH OPENINGS, PROVIDED THE MINIMUM NET CLEAR OPENING SIZE COMPLIES WITH SECTION R310.1.1 AND SUCH DEVICES SHALL BE RELEASABLE OR R310.2.3 REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE, OR FORCE, GREATER THAN THAT WHICH IS REQUIRED FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING. THE RELEASE MECHANISM FOR NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENINGS. THE RELEASE MECHANISM SHALL BE MAINTAINED OPERABLE AT ALL TIMES. A. SUCH BARS, GRILLS, GRATES, OR ANY SIMILAR DEVICES SHALL BE EQUIPPED WITH AN APPROVED EXTERIOR RELEASE DEVICE FOR USE BY THE FIRE DEPARTMENT ONLY WHEN REQUIRED BY AUTHORITY
- JURISDICTION WHERE SECURITY BARS, (BURGLAR BARS) ARE INSTALLED ON EMERGENCY EGRESS AND RESCUE WINDOWS OR DOOR SUCH DEVICES SHALL COMPLY WITH CALIFORNIA BUILDING STANDARDS, CODE, PART 12. CHAPTER 12–3. AND OTHER APPLICABLE PROVISIONS OF THIS CODE (CRC SECTION R310.4)
- 10. ALL HABITABLE ROOM, SHALL HAVE AN AGGREGATED GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS, NATURAL VENTILATION, SHALL BE THROUGH WINDOWS, DOORS, LOUVERS, OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENING SHALL BE PROVIDED READY ACCESS, OR SHALL OTHERWISE BE READILY CONTROLLED BY THE BUILDING OCCUPANTS. (CRC SEC. R303.1)
- 11. ALL HABITABLE ROOMS MINIMUM OPENABLE AREA TO THE OUTDOOR SHOWER BE 4 PERCENT OF THE FLOOR AREA BEING VENTLESS. (CRC SECTION R303.1.) THE GLAZED AREAS NEED NOT BE OPENABLE WHERE THE OPENINGS IS NOT REQUIRED BY SECTION R310 AND A WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS INSTALLED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE CRC SECTION R303.1 EXCEPTION 1. 12. BATHROOMS, WATER CLOSET, COMPARTMENTS, AND OTHER SIMILAR ROOMS BE PROVIDED WITH AGGREGATED GLAZING AREAS IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET ONE-HALF OF WHICH MUST BE
- OPENABLE (CRC SECTION R303.3.) 13. SEE THE MECHANICAL AND PLUMBING SECTION OF THESE NOTES FOR MECHANICAL ALTERNATIVES TO THE NATURAL VENTILATION REQUIREMENTS OF CRC SECTION R303
- <u>GLAZING</u>
- GLAZING SUBJECT TO HUMAN IMPACT SHALL COMPLY WITH CRC SECTION R308
- EXCEPT AS INDICATED IN SECTION R308.1.1 EACH PANE OF GLAZING INSTALLED IN HAZARDOUS LOCATION AS DEFINED IN SECTION R308.4 SHALL BE PROVIDED WITH THE MANUFACTURES DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS, AND THE SAFETY GLAZING^{9.} STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION TYPE SHALL BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL SHALL BE PERMITTED IN LIEU OF MANUFACTURES DESIGNATION (CRC SECTION R308.1.)
- THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING: A. GLAZING IN FIX AN OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS, EXCEPT LOUVERED WINDOWS AND JALOUSIES PER SECTION R308.3 EXCEPTION 1.
- GLAZING IN FIXED, OR OPERABLE PANELS ADJACENT TO A DOOR SHALL BE CONSIDERED HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR, OR WALKING SURFACE AND MEETS THE FOLLOWING CONDITIONS: a. GLAZING IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION
- WHERE THE GLAZING IS ON THE WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF IN SWINGING DOOR C. GLAZING IN FIXED OR OPERABLE PANEL THAT MEETS ALL CONDITIONS:
- EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQ. FT.
- EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR EXPOSED TOP EDGE, GREATER THAN 36 INCHES ABOVE THE FLOOR
- ONE OR MORE WALKING SERVICES WITHIN 36 INCHES MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF GLAZING
- D. GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER, PANELS, AND NONSTRUCTURAL INFILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPA, WHIRLPOOLS,
- SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS INDOORS OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE. GLAZING ADJACENT TO THE STAIRWAYS AND RAMPS WHERE THE BOTTOM EXPOSED EDGE OF THE
- GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS. G. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF THE STAIRWAY WHERE THE GLAZING IS LESS
- THAN 36 INCHES ABOVE THE LANDING AND WITHIN 60 INCHES HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING.

- GLAZING IN STORM DOORS
- GLAZING (CONT.) WHERE PLUMBING FIXTURES ARE INSTALLED FOR PRIVATE USE HOT WATER SHALL BE REQUIRED FOR GLAZING IN ALL UNFRAMED SWINGING DOORS BATHING, WASHING, LAUNDRY, COOKING PURPOSES, DISHWASHING OR MAINTENANCE (CPC SECTION 601.2) PORTABLE WATER OUTLETS WITH HOSE ATTACHMENT. OTHER THAN WATER HEATER DRAINS AND (CRC SECTION R309.4) SEE SECTION FOR EXCEPTIONS CLOTHES WASHER CONNECTIONS SHALL BE PROTECTED BY A LISTED NON-REMOVAL HOSE BIB TYPE GLAZING IN WARDROBE DOOR SHALL MEET THE IMPACT TEST REQUIREMENTS FOR SAFETY GLAZING AS SET BACKFLOW, PREVENTER, NON-REMOVABLE, HOSE BIB TYPE VACUUM BREAKER, OR AN ATMOSPHERIC FORTH IN THE CRC TABLES R308.1(1) AND OUR 308.3.1(2) PLASTIC GLAZING SHALL MEET THE WEATHERING VACUUM BREAKER INSTALLED NOT LESS THAN 6 INCHES ABOVE HIGHEST POINT OF USAGE LOCATED ON REQUIREMENTS OF ANSI Z97.1 DISCHARGE SIDE OF THE LAST VALVE IN CLIMATES WHERE FREEZING TEMPERATURES OCCUR. A LISTED MIRROR SHALL BE A MINIMUM OF 3/16 INCH POLISHED PLATE GLASS SELF-DRAINING, FROST-PROOF HOSE BIB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED (CPC SECTION 603.5.7)
- REGULAR, FLOAT, WIRED AND PATTERN GLASS IN JALOUSIES AND LOUVERED WINDOW SHALL BE, NOT LESS THAN NOMINAL 3/16 INCH AND NOT MORE THAN 48 INCH IN LENGTH. EXPOSED GLASS EDGES SHALL BE SMOOTH. (CRC SECTION R308.2)
- GLAZING SUPPORT AND FRAMING SHALL COMPLY WITH CBC SECTIONS 2403.2 AND 2403.3 HINGED SHOWER DOOR SHALL OPEN OUTWARD GLAZING SHALL BE IN ACCORDANCE WITH ENERGY COMPLIANCE CALCULATIONS, CALIFORNIA ENERGY
- CODE (TITLE 24).

09 -FINISHES <u>GYPSUM BOARD</u>

- REQUIREMENT SHALL GOVERN.
- GYPSUM WALLBOARD SHALL NOT BE INSTALLED UNTIL WEATHER PROTECTION FOR THE INSTALLATION IS WILL NOT BE SUBJECT TO UNDER STRAINS OR STRESSORS AND PROVISION SHALL BE MADE FOR PROVIDED. EXTERIOR SHEATING SHALL BE DRY BEFORE APPLYING EXTERIOR COVER. (CRC SECTION R701.2) EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT. NO PLUMBING PIPING SHALL BE DIRECTLY ALL EDGES AND ENDS OF GYPSUM WALLBOARD SHALL OCCUR ON THE FRAMING MEMBERS, EXCEPT THOSE EMBEDDED IN CONCRETE OR MASONRY. NO STRUCTURAL MEMBERS SHALL BE SERIOUSLY WEEKEND OR EDGES AND ENDS THAT ARE PERPENDICULAR TO THE FRAMING MEMBERS (CRC SECTION R702.3.5) IMPAIRED BY CUTTING NOTCHING OR OTHERWISE (CPC SECTION 312.2 GYPSUM BOARD AND GYPSUM PANEL PRODUCTS SHALL BE INSTALLED PERPENDICULAR TO CEILING PROTECTIVELY, COATED PIPE, OR TUBING SHALL BE INSPECTED AND TESTED, AND ANY VISIBLE VOID
- FRAMING MEMBERS. END JOINTS OF ADJACENT COURSES OF BOARD AND PANELS SHALL NOT OCCUR ON THE SAME JOIST. (CRC SECTION R702.3.6) FASTENERS SHALL BE SPACED, NOT MORE THAN 7 INCHES ON CENTER AT ALL SUPPORTS, INCLUDING 5.
- PERIMETER, BLOCKING, AND NOT LESS THAN 3/8 INCH FROM THE EDGES AND ENDS OF THE GYPSUM BOARD (CRC SECTION R702.3.6 (D)) SCREWS FOR ATTACHING GYPSUM BOARD AND GYPSUM PANEL PRODUCTS TO WOOD FOR FRAMING SHALL BE TYPE W OR TYPE S IN ACCORDANCE WITH ASTM C1002 AND SHALL PENETRATE THE WOOD NOT LESS
- THAN 5/8 INCH (CRC SECTION R702.3.5.1) SUPPORTS AND FASTENERS USED TO ATTACH GYPSUM BOARD AND GYPSUM PANEL PRODUCT SHALL
- 12. MATERIALS FOR DRAINAGE PIPING SHALL BE IN ACCORDANCE WITH ONE OF THE REFERENCED STANDARDS COMPLY WITH TABLE R702.3.5. (CRC SECTION R702.3.5) IN TABLE 701.2 (CPC SEC 701.2) ABS AND PVC DMV PIPING INSTALLATIONS SHALL BE INSTALLED IN WHERE TWO LAYERS OF GYPSUM WALLBOARD ARE REQUIRED, THE BASE LAYER OF GYPSUM WALLBOARD ACCORDANCE WITH APPLICABLE STANDARD REFERENCED IN TABLE 1701.2 AND THE FIRESTOP SHALL BE APPLIED WITH FASTENERS OF THE TYPE AND SIZE AS REQUIRED FOR THE NON-ADHESIVE PROTECTION REQUIREMENTS IN CALIFORNIA BUILDING CODE ABS AND PVC INSTALLATIONS ARE LIMITED TO 6. APPLICATION OF SINGLE PLY GYPSUM WALLBOARD NOT MORE THAN TWO STORIES OF AREAS OF RESIDENTIAL ACCOMMODATION (CPC SECTIONS 701.2(2) AND MATERIALS USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREA AND WALL PANELS IN SHOWER 701.2(2)(A))
- AREA. SHALL BE OF MATERIAL LISTED IN THE TABLE R702.4.2 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. (CRC SECTION R702.4.2) WATER RESISTANT GYPSUM BACKING BOARD USED ON BASE OR BACKER FOR ADHESIVE APPLICATION OF
- BE COMPATIBLE WITH THE TYPE OF PIPE USED. (CPC SECTION 701.3) CERAMIC TILE OR OTHER REQUIRED NONABSORBENT FINISH MATERIAL SHALL CONFIRM TO ASTM C1396, WEAR WAIST LINE DROPS OCCUR IN A LOCATION WHERE THE SOUND OF FLUSH TOILET MAY BE C1178, OR C1278. USE OF WATER RESISTANT GYPSUM, BACKING BOARD SHALL BE PERMITTED ON CEILINGS. UNDESIRABLE, SUCH AS IN WALLS ARE PARTITIONS ADJACENT TO EATING ROOMS, USE CAST IRON TYPING CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS SHALL BE SEALED AS OR SIMILAR APPROVED, HARD OR DENSE PIPING AND/OR INSULATE STUD BAY IN CLOSING PIPE TO MITIGATE RECOMMENDED BY MANUFACTURER (CRC SECTION R702.3.7). SOUND
- WATER RESISTANT GYPSUM, WALLBOARD SHALL NOT BE USED IN FOLLOWING LOCATIONS: A. OVER A CLASS I OR II VAPOR RETARDER IN SHOWER OR TUB COMPARTMENT B. IN AREAS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR AN AIR IS SUBJECT TO CONTINUOUS HUMIDITY. (CRC SECTION R702.3.7 & R702.3.7.1)

<u>METAL LATH</u>

- ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION RESISTANT MATERIAL ASSE 1016/ASME A112.1016/CSA B125.16 OR ASME A112.18.1/CSA B125.1 (CPC SECTION 408.3) BACKING OR A LATH SHALL PROVIDE SUFFICIENT RIGIDITY TO PERMIT PLASTER APPLICATION WATER HEATER LOCATED IN RESIDENTIAL GARAGE AND IN ADJACENT SPACES THAT OPEN IN GARAGE AND ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION RESISTANT MATERIALS, EXPANDED METAL OR ARE NOT PART OF THE LIVING. SPACE OF A DWELLING UNIT SHALL BE INSTALLED SO THAT ALL BURNERS WOVEN WIRE LATCH SHALL BE ATTACHED WITH 1 1/2 INCH LONG, II GAGE NAILS HAVING A 7/16 INCH HEAD AND BURNER IGNITION DEVICES ARE LOCATED NOT LESS THAN 18 INCHES ABOVE THE FLOOR UNLESS OR 7/8 INCH LONG, 16 GAGE STAPLES, SPACED NO MORE THAN 6 INCHES OR AS OTHERWISE (CRC SECTION LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT (CPC SEC 507.13) R703.7.1)
- GYPSUM LATH OR GYPSUM BOARD SHALL NOT BE USED AS BACKING, EXCEPT THAT ON HORIZONTAL SUPPORTS OF CEILING OR ROOF SOFFITS. IT MAY BE USED AS BACKING FOR METAL LATH, OR WIRE, FABRIC LATH AND CEMENT PLASTER.
- METAL LATH OR WIRE FABRIC LATH SHALL BE APPLIED WITH A LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.
- WHERE END LAPS OF SHEET DO NOT OCCUR OVER SUPPORTS, THEY SHOULD BE SECURELY TIED TOGETHER WITH NOT LESS THAN 0.049 INCH. (NO. 18 BW GAGE) WIRE CORNERITE SHALL BE INSTALLED IN ALL THE INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING. CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IS NOT
- CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLANE. THE APPLICATION OF METAL LATH OR WOVEN WIRE LATH SHALL BE AS SPECIFIED AND CRC SECTION R703.7.1. WHERE NO EXTERNAL CORNER OF REINFORCEMENT IS USED, LATH SHALL BE FURRED OUT AND CARRIED
- AROUND CORNERS AT LEAST ONE SUPPORT ON FRAME CONSTRUCTION . WEEP SCREED, A MINIMUM 0.019 INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION RESISTANT WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3 1/2 INCHES SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON ALL EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C926 THE WEEP SCREED SHALL BE PLACED NOT LESS THAN 4 INCHES ABOVE THE EARTH, OR 2 INCHES ABOVE PAVED AREA IS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN THE EXTERIOR OF THE BUILDING. THE WEATHER RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF WEEP SCREED (CRC SEC R703.7.2.1).

CEMENT PLASTERING

- PLASTERING WITH PORTLAND CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH, AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY, CONCRETE OR GYPSUM BACKING AS SPECIFIED (CRC SEC R703.7.2 ON WOOD FRAME OR STEEL STUD CONSTRUCTION WITH AN ON-GRADE CONCRETE FLOOR SLAB SYSTEM EXTERIOR PLASTER SHALL BE APPLIED TO COVER, BUT NOT EXTEND BELOW, LATH, PAPER, AND SCREED. PAPER THE APPLICATION OF LATH, PAPER AND FLASHING OR DRIP SCREEDS SHALL COMPLY WITH ASTM C926, AND ASTM C1063. (CRC SEC R703.7)
- ONLY APPROVED PLASTICITY AGENTS AND APPROVED AMOUNTS THEREOF MAY BE ADDED TO PORTLAND CEMENT. WHEN PLASTIC CEMENT OR MASONRY CEMENT IS USED, NO ADDITIONAL LIME OR PLASTICISER SHALL BE ADDED. HYDRATED LIME, OR THE EQUIVALENT AMOUNT OF LINE PUTTY USED AS PLASTICISER IS PERMITTED TO BE ADDED TO CEMENT, PLASTER OR CEMENT IN LIME PLASTER IN AN AMOUNT NOT TO EXCEED THAT SET FORTH IN ASTM C926, (CRC SEC R702.1 (3)) GYPSUM PLASTER SHALL NOT BE USED ON EXTERIOR SURFACES.
- SHALL BE A SET FORTH IN ASTM C926 AND TABLE R702.1(3)
- COATS WHERE APPLIED OVER OTHER BASES PERMITTED BY THIS SECTION, EXCEPT THAT VENEER PLASTER IN ACCORDANCE WITH TABLE OR R702.1(1) (CRC SEC R702.2.2 / R702.2.1)
- FOR AT LEAST 48 HOURS PRIOR TO APPLICATION OF THE NEXT COAT. (CRC SEC R703.7.4)
- THE SECOND COAT. (CRC SEC R703.7.3) COLOR AND FINISH TO BE SELECTED AND APPROVED BY OWNER / BUILDER.
- COAT EXTERIOR PLASTER SYSTEM
- REQUIREMENTS CRC CHAPTER 7. THE EXTERIOR OF THE BUILDING SHALL BE SEPARATED FROM THE FOAM PLASTIC INSULATION BY AN APPROVED THERMAL BARRIER. WATER-RESISTIVE BARRIER SHALL COMPLY WITH R703.2 ASTM E2570 (CRC R703.9.2(4). INSTALLATION OF WATER RESISTIVE BARRIER SHALL BE APPLIED BETWEEN THE EIFS AND THE WALL SHEATHING. (CRC R703.9.2(5)

21 -FIRE SEPARATION

- PRIVATE GARAGE SHALL BE SEPARATED FROM THE DWELLING UNIT AND IT 'S ATTIC AREA BY MEANS OF A MINIMUM 1/2 INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE FOR TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5 ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE R702.3.5. (CRC SECTION R302.6)
- PROVIDE ONE LAYER OF 5/8 INCH 'X' GYPSUM WALLBOARD AT GARAGE CEILING, SIDE, AND BENEATH ALL HABITABLE ROOMS AND STRUCTURAL SUPPORTING FRAMING MEMBERS (CRC SECTION R702.3.7) ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIRS SURFACE AND ANY SOFFITS PROTECTED ON ENCLOSED SIDE, 1/2" GYPSUM BOARD (CRC SECTION R302.7)
- 22 -PLUMBING
- ALL MATERIALS AND EQUIPMENT, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE MOST CURRENT ADOPTED EDITION OF THE CALIFORNIA PLUMBING CODE. OR THE CURRENT LOCALLY
- ADOPTED PLUMBING CODE. NO PLUMBING FIXTURE, DEVICE, OR CONSTRUCTION SHALL BE INSTALLED OR MAINTAINED OR SHALL BE CONNECTED TO ANY DOMESTIC WATER SUPPLY WHEN SUCH INSTALLATION OR CONNECTION MAY PROVIDE A POSSIBILITY OF POLLUTING SUCH WATER SUPPLY OR MAY PROVIDE A CROSS-CONNECTION BETWEEN A DISTRIBUTING SYSTEM OF WATER FOR DRINKING AND DOMESTIC PURPOSES AND WATER WHICH MAY BECOME CONTAMINATED BY SUCH PLUMBING FIXTURES, DEVICE, OR CONSTRUCTION, UNLESS THERE IS PROVIDED A BACKFLOW PREVENTION DEVICE APPROVED FOR THE POTENTIAL HAZARD (CPC SECTION 602.3)

GYPSUM WALLBOARD SHALL BE INSTALLED IN CONFORMANCE WITH THE CURRENT EDITION OF THE CALIFORNIA BUILDING CODE AND ALL STATE AND LOCAL BUILDING CODES. THE MOST STRINGENT

- THE PROPORTION OF AGGREGATED TO CEMENTITIOUS MATERIALS FOR BASE COAT OF EXTERIOR PLASTER
- CEMENT PLASTER MATERIALS SHALL CONFORM TO ASTM C91. (TYPE M, S OR N), C150 (TYPE I. II AND III) C595 (TYPE IP, I (PM), IS AND I (SM), C847, C897, C926, C1032, C1047, AND C1328, AND SHALL BE INSTALLED OR APPLIED IN CONFORMANCE WITH ASTM C1063. GYPSU<mark>M LA</mark>TH SHALL C<mark>ON</mark>FORMS TO ASTM C1396. PLASTER SHALL NOT BE LESS THAN THREE COATS WHERE APPLIED OVER METAL LATH AND NOT LESS THAN TWO
- SHALL BE APPLIED IN ONE COAT NOT TO ACCEPT 3/16 INCH THICKNESS PROVIDED THE TOTAL THICKNESS IS APPLICATIONS INSTALLED IN ACCORDANCE WITH ASTM C926. EACH COAT SHALL BE KEPT MOIST CONDITION
- THE FINISH COAT FOR TWO-COAT CEMENT PLASTER SHALL NOT BE APPLIED SOONER THAN SEVEN DAYS AFTER APPLICATION OF THE FIRST COAT. FOR THREE-COAT CEMENT PLASTER, THE SECOND COAT SHALL NOT BE APPLIED SOONER THAN 48 HOURS AFTER APPLICATION OF THE FIRST COAT. THE FINISH COAT FOR THREE-COAT CEMENT PLASTER SHALL NOT BE APPLIED SOONER THAN SEVEN DAYS AFTER APPLICATION OF
- A ONE-COAT EXTERIOR PLASTER SYSTEM "OMEGA DIAMOND WALL" AND DIAMOND WALL INSULATING EXTERIOR STUCCO SYSTEM ICC NO. ESR-1194 OR APPROVED OR EQUAL MAY BE USED IN LIEU OF THE 3-
- FOAM INSULATION BOARD USED IN ONE-COAT EXTERIOR PLASTER SYSTEM SHALL CONFORM TO THE

- COPPER OR COPPER ALLOY TUBE FOR WATER PIPING SHALL HAVE WEIGHT, NOT LESS THAN TYPE L. EXCEPTION: TYPE M COPPER OR COPPER ALLOY TUBING SHALL BE PERMITTED TO BE USED FOR WATER PIPING WHERE PIPING IS ABOVEGROUND IN OR ON A BUILDING OR UNDERGROUND OUTSIDE OF STRUCTURES (CPC SECTION 604.3)
- APPROVED PLASTIC MATERIALS SHALL BE PERMITTED TO BE USED IN BUILDING SUPPLY PIPING, PROVIDED THAT WHERE METAL BUILDING SUPPLY PIPING IS USED FOR ELECTRICAL GROUNDING PURPOSES, REPLACEMENT PIPING THERE OF SHALL BE OF LIKE MATERIALS. (CPC SECTION 604.3)
- PIPING PASSING UNDER OR THROUGH WALLS SHALL BE PROTECTED FROM BREAKAGE PIPING, PASSING THROUGH OR UNDER CINDERS OR OTHER CORROSIVE MATERIALS SHALL BE PROTECTED FROM EXTERNAL CORROSION IN ANY APPROVED MATTER. APPROVED PROVISION SHALL BE MADE FOR EXPANSION OF HOT WATER PIPING. VOIDS AROUND CONCRETE FLOORS ON THE GROUND SHALL BE APPROPRIATELY SEALED (CPC SECTION 312.1) PIPING IN CONNECTION WITH PLUMBING SYSTEM SHALL BE INSTALLED SO THAT PIPING OR CONNECTION
- DAMAGE OR IMPERFECTION TO THE PIPE COATING SHALL BE REPAIRED IN AN APPROVED MANNER NO WATER, SOIL, OR WASTE PIPE SHALL BE INSTALLED OR PERMITTED OTHERWISE OF A BUILDING, AN ATTIC OR CRAWL SPACES, OR IN AN EXTERIOR WALL, UNLESS WERE NECESSARY ADEQUATE PROVISION IS 2. MADE TO PROTECT SUCH PIPE FROM FREEZING (CPC SECTION 312.6)
- ALL PIPING PENETRATIONS OF FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, FLOOR/CEILING, ASSEMBLIES, ROOF/CEILING, ASSEMBLIES, OR SHAFT REQUIREMENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE IN CALIFORNIA RESIDENTIAL CODE (CPC SECTION 312.7)
- MATERIALS FOR DRAINAGE FITTINGS SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS REFERENCED IN TABLE 701.2 OF THE SAME DIAMETER AS THE PIPING SERVED AND SUCH FITTINGS SHALL
- 15. PROVIDE CLEAN OUTS WERE REQUIRED BY THE CALIFORNIA PLUMBING CODE SECTION 707 AND 719 ALL GAS PIPING SHALL BE SUPPORTED BY METAL STRAPS OR HOOKS AND INTERVALS NOT EXCEED THOSE SHOWN IN TABLE 1210.2.4.1. (CPC SECTION 313.7)
- 17. SHOWERS AND TUB SHOWERS COMBINATION SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE, BALANCE/THERMOSTATIC MIXING VALVE TYPE THAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION FOR THE RATED FLOW RATE OF THE INSTALLED SHOWER HEAD. THESE VALVES SHALL BE INSTALLED AT THE POINT OF USE AND COMPLY WITH
- ALL WATE<mark>R H</mark>EATE<mark>RS</mark> INSTALLED IN GARAG<mark>ES, WA</mark>REHOUSES, OR OTHER AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS, OR BY BEING ELEVATED OR LOCATED OUT OF THE NORMAL PATH OF VEHICLES. (CPC SEC 307 13 1)
- WHEN A WATER HEATER IS LOCATED IN AN ATTIC IN OR ON AN ATTIC CEILING, ASSEMBLY, FLOOR-CEILING, ASSEMBLY OR FLOOR-SUBFLOOR ASSEMBLY OR DAMAGE MAY RESULT FROM A LEAKING WATER HEATER, A WATER TYPE PAN OF CORROSION RESISTANT MATERIALS SHALL BE INSTALLED BENEATH THE WATER HEATER WITH NOT LESS THAN THREE-QUARTERS (3/4) OF AN INCH DIAMETER DRAIN TO AN APPROVED LOCATION. SUCH PAN SHALL BE NOT LESS THAN 1 1/2 INCH IN DEPTH. (CPC SEC 507.5)
- WATER HEATER SHALL BE PROVIDED WITH AN APPROVED, LISTED, ADEQUATELY SIZED COMBINATION, TEMPERATURE AND PRESSURE RELIEF VALVE, INSTALLED PER MANUFACTURER'S INSTRUCTION, AND SHALL BE PROVIDED WITH A DRAIN TO THE OUTSIDE OF THE BUILDING AS REQUIRED ON SECTION 608.5 (CPC SECTION 608.3)
- NO DOMETIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO DRAINAGE SYSTEM OR FOOD WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER AIR GAP FITTING ON A DISHCHARGE SIDE OF DISHWASHING MACHINE. LISTED AIR GAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL (FL) IARKING AT OR ABOVE THE FLOOD LEVEL OF TH<mark>E SINK OR DRAIN</mark> BOARD, WHICHEVER AIR GAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL MARQUEE AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAIN BOARD WHICHEVER IS HIGHER. (CPC SECTION 807.3)
- 23. THE MINIMUM CAPACITY FOR WATER HEATERS SHALL BE IN ACCORDANCE WITH THE FIRST HOUR RATING LISTED IN TABLE 501.1(2) OF THE 2022 CPC TABLE 501.1(2)

FIRST HOUR RATING¹

- Number of Bathrooms 1 to 1.5 2 to 2.5 3 4 5 1 2 3 2 3 4 5 Number of Bedrooms First Hour Rating,² Gallons 38 49 49 49 62 62 74 The first-hour rating is found on the "Energy Guide" label.
- 2 Solar water heaters shall be sized to meet the appropriate first-hour rating as shown in the table LAVATORY FAUCETS SHALL BE DESIGNED AND MANUFACTURES SO THAT THEY WILL NOT EXCEED A WATER FLOW RATE OF 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.(CPC SECTION 407.2.2) FAUCETS FOR KITCHEN, WET BARS, LAUNDRY SINK OR OTHER SIMILAR USE FIXTURES SHALL BE DESIGNED AND MANUFACTURED SO THAT THEY SHALL NOT EXCEED MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCET MY TEMPORARY INCREASE THE FLOW ABOVE THE MAXIMUM RATE.
- BUT NOT EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI (CPC SECTION 420.2.2). SHOWERHEADS DESIGNED AND MANUFACTURED SHALL HAVE A MAXIMUM WATER SUPPLY FLOW RATE OF 1.8 GALLONS PER MINUTE AT 80 PSI AND MUST COMPLY WITH DIVISION 4.3 OF CALGREEN (CPC SEC 408.2). WHERE LOCAL STATIC WATER PRESSURE IN THE WATER SUPPLY PIPING IS EXCEEDED 80 PSI AND APPROVED TYPE PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO 80 PSI OR LESS. PRESSURE REGULATOR(S) IS EQUAL TO OR EXCEEDING 1 1/2 INCHES SHALL NOT REQUIRE A STRAINER. SUCH REGULATORS SHALL CONTROL THE PRESSURE TO WATER OUTLET IN BUILDING, UNLESS OTHERWISE APPROVED BY AUTHORITY HAVING
- AND SHALL HAVE THE STRAINER READILY ACCESSIBLE FOR CLEANING WITHOUT REMOVING THE REGULATOR OR STRAINER BODY OR DISCONNECTING THE SUPPLY PIPING. PIPE SIZE DETERMINATION SHALL BE BASED ON 80 PERCENT OF THE REDUCED PRESSURE WHEN USING TABLE 610.4. (CPC SECTION

23 -HEATING VENTILATING & AIR CONDITIONING

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH THE 2022 EDITION OF THE CALIFORNIA MECHANICAL CODE ALL EQUIPMENT INSTALLED IN THIS PROJECT SHALL BE IN COMPLIANCE WITH THE STANDARDS LISTED IN
- THE CALIFORNIA MECHANICAL CODE CONTRACTORS OF DESIGN ENTIRE HVAC SYSTEM AND SUBMIT DRAWINGS FOR OWNER / BUILDERS APPROVAL PRIOR TO ORDERING MATERIALS OR EQUIPMENT.
- WHERE AIR CONDITIONING IS AN OPTIONAL FEATURE, HEATING SYSTEMS MUST BE DESIRED AND DUCT WORK SIZED TO ACCOMMODATE FUTURE AIR CONDITIONING NEEDS. ANCHORAGE OF APPLIANCES DESIGNED TO BE FIXED IN THE POSITION SHALL BE SECURELY FASTENED IN PLACE ACCORDANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS. SUPPORT FOR
- APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOAD WITH THE STRESS LIMITATION SPECIFIED IN THE BUILDING CODE (CMC SECTION 303.4.) COMBUSTION AIR SHALL BE PROVIDED FOR FORCED AIR UNITS IN ACCORDANCE WITH CHAPTER 7 OF THE CALIFORNIA MECHANICAL CODE
- ALL DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE.
- CONTRACTOR TO PROVIDE BOOT IN DUCTWORK WHEN OPTIONAL "HONEYWELL" OR "CARRIER" ELECTRONIC AIR CLEANER IS PROVIDED.
- 9. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING UNIT FROM THE GARAGE SHALL BE CONSTRUCTED OF MINIMUM NO.26 GAUGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE (CRC SECTION R302.5.2) 10. EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT
- DAMPERS OR WITH MOTORIZED DAMPER THAT AUTOMATICALLY SHUT WHERE THE SYSTEM OR SPACES SERVED ARE NOT IN USE (CMC SECTION 504.1.1) 11. DUCTS USED FOR DOMESTIC KITCHEN RANGE OR COOKTOP VENTILATION SHALL BE OF METAL AND SHALL
- HAVE SMOOTH INTERIOR SURFACES. 12. REFER TO CMC SECTION 504.3 EXCEPTION FOR THE VENTING OF DOMESTIC KITCHEN DOWNDRAFT
- GRILLE-RANGES. 13. FLOOR MOUNTED OR BUILT-IN HOUSEHOLD COOKING APPLIANCE SHALL HAVE A VERTICAL CLEARANCE ABOUT COOKING TOP OF NOT LESS THAN 30 INCHES TO COMBUSTIBLE MATERIAL OR METAL CABINETS. A CLEARANCE NOT LESS THAN 24 INCHES IS PERMITTED TO A METAL VENTILATING HOOD (C.M.C. SECTION 920.4.2(1))

JURISDICTION. EACH SEARCH REGULATOR STRAINER SHALL BE ACCESSIBLY LOCATED ABOVE GROUND

14. DOMESTIC CLOTHES DRYER EXHAUST DUCTS, SHALL BE OF RIGID METAL AND SHALL HAVE SMOOTH INTERIOR SURFACES. THE DIAMETER SHALL BE NOT LESS THAN 4 INCHES NOMINAL AND THE THICKNESS SHALL BE NOT LESS THAN 0.016 OF AN INCH (CMC SECTION 504.4.2.) LISTED CLOTHES DRYER TRANSITION DUCTS NOT MORE THAN 6 FEET IN LENGTH SHALL BE PERMITTED TO BE USED TO CONNECT TYPE 1 DRYER TO EXHAUST DUCTS. TRANSITION DUCTS AND FLEXIBLE CLOTHES DRYER, TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION AND SHALL BE NSTALLED PER MANUFACTURERS INSTRUCTIONS (C.M.C. SECTION 504.4.2.2).

15. CLOTHES DRYER EXHAUST DUCT SHALL TERMINATE OUTSIDE THE BUILDING IN ACCORDANCE WITH SECTION 502.2.1 NOT LESS THAN 3 FEET FROM THE PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, AND 3 FEET FROM OPENING OF BUILDING ASND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREEN SHALL NOT BE INSTALLED AT THE DUCKS TERMINATION. (CMC SECTION 504.4)

UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURE'S INSTRUCTION AND APPROVED BY THE AUTHORITY HAVING JURISDICTION, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FEET, INCLUDING TWO 90 DEGREE ELBOWS. A LENGTH OF 2 FEET SHALL BE DEDUCTED FOR EACH 90 DEGREE ELBOWS IN EXCESS OF TWO. (CMC SECTION 504.4.2.1)

WHEN A CLOSET IS DESIGNED FOR THE INSTALLATION OF CLOTHES DRYER, AN OPENING OF NOT LESS THAN 100 SQUARE INCHES FOR MAKE UP AIR SHALL BE PROVIDED IN THE DOOR OR BY OTHER APPROVED MEANS (CMC 22 SECTION 504.4.1(1)) DOMESTIC WATER HEATERS UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURES INSTALLATION

INSTRUCTION, SHALL BE VENTED TO THE OUTSIDE AIR BY A TYPE "B" (CMC 802.2) WHEN USING A TYPE "B" VENT TO USE A STRAIGHT PIPE BETWEEN THE OUTSIDE TERMINATION POINT AND THE AND THE SPACE WHERE THE WATER HEATER IS INSTALLED (CEC 150.0 (N)IB)

19. TYPE "B" SHALL COMPLY WITH THE REQUIREMENTS FOR GRAVITY, VENTING IN THE CMC SECTION 802.6.3. 20. TYPE "B" EVENTS SHALL TERMINATE IN ACCORDANCE WITH CMC SECTION 802.6 AND CMC FIGURE 802.6.1.

<u>26 -ELECTRICAL</u>

1. ALL MATERIALS AND APPLIANCES, INSTALLATION AND CONSTRUCTION METHODS SHALL COMPLY WITH THE CURRENT CALIFORNIA ELECTRICAL CODE ALL ELECTRICAL SYSTEMS, CIRCUITS FIXTURES, AND EQUIPMENT SHALL BE GROUNDED IN A MANNER

COMPLYING WITH ARTICLE 250 OF THE CALIFORNIA ELECTORAL CODE ALL WIRING SHALL BE INSTALLED THAT, WHEN COMPLETED, THE SYSTEM WILL BE FREE FROM SHORT CIRCUIT AND FROM GROUND FAULT, OR ANY CONNECTIONS TO GROUND OTHER THAN REQUIRED OR PERMITTED ON CEC ARTICLE 250 (CEC ARTICLE 110.7)

ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEAT AND WORKMANLIKE MANNER (CEC ARTICLE 110.12) RECEPTACLE OUTLET SHALL BE LOCATED IN BRANCH CIRCUIT IN ACCORDANCE WITH PART III OF ARTICLE 210. (CEC ARTICLE 210.4 (A)) WHERE CONNECTED TO A BRANCH CIRCUIT SUPPLYING TWO OR MORE RECEPTACLES OR OUTLETS.

A RECEPTACLE SHALL NOT SUPPLY A TOTAL CORD-AND-PLUG-CONNECTED LOAD IN EXCESS OF THE MAXIMUM SPECIFIED IN TABLE 210.21(B)2. RECEPTACLE RATINGS SHALL CONFORM TO THE VALUES IN TABLE 210.21(B)3. OR WHERE LARGER THAN 50 AMPERES. THE RECEPTACLE RATING SHALL NOT BE LESS THAN BRANCH-CIRCUIT RATINGS. (CEC ARTICLE 210.21(B) RECEPTACLES (2) AND (3)

ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED BELOW SHALL HAVE GROUND FAULT CIRCUITS-INTERRUPTER PROTECTION FOR PERSONNEL. BATHROOMS

GARAGES OUTDOORS

CRAWLSPACES WHERE THE CRAWLSPACE IS AT OR BELOW GRADE LEVEL UNFINISHED PORTIONS OR AREAS OF THE BASEMENT NOT INTENDED AS HABITABLE ROOMS KITCHENS. WHERE THE RECEPTACLES ARE INSTALLED TO SERVE THE COUNTERTOP SERVICES SINKS. WHERE THE RECEPTACLES ARE INSTALLED WITHIN 6 FEET FROM THE TOP INSIDE EDGE OF THE

BOWL OF THE SINK BATHTUB OR SHOWER STALLS, WHERE THE RECEPTACLES ARE INSTALLED WITHIN 6 FEET OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALLS

LAUNDRY AREAS APPLIANCES RECEPTACLE OUTLETS INSTALLED IN A DWELLING UNIT FOR SPECIFICS OF APPLIANCES, SUCH AS LAUNDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 6 FEET OF THE INTENDED LOCATION OF THE APPLIANCE (CEC ARTICLE 210-50 (C))

IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION ROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLET SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET FROM A RECEPTACLE OUTLETS. WALL SPACE 2 FEET OR MORE IN WIDTH AND WALL SPACE (INCLUDING SPACE MEASURED AROUND CORNERS) AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS, AND SIMILAR OPENINGS, FIREPLACE AND FIXED CABINETS THAT DO NOT HAVE COUNTERTOPS OR SIMILAR WORK SURFACES. THE SPACE OCCUPIED BY FIXED PANELS IN WALLS EXCLUDING SLIDING PANELS. THE SPACE AFFORDED BY FIXED ROOM DIVIDERS, SUCH AS FREESTANDING

BAR-TYPE COUNTERS OR RAILINGS (CEC ARTICLE 210.52(A)) 10. IN THE KITCHENS, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS OF DWELLING UNIT, THE TWO OR MORE 20-AMPERE OR SMALL APPLIANCE BRANCH CIRCUITS REQUIRED BY ARTICLE 210.11(C)(I) SHALL SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS COVERED BY 210.52 (A), ALL COUNTERTOP OUTLETS COVERED BY 210.5(C) AND RECEPTACLE OUTLETS FOR REFRIGERATION EQUIPMENT (CEC ARTICLES 210.52 (B)(I)

11. AT LEAST ONE ADDITIONAL 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S) REQUIRED BY ART 210-52 (F). THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. (CEC ART 210.11(C)(2))

12. IN KITCHENS, PANTRIES, BREAKFAST ROOM, DINING ROOMS AND SIMILAR AREAS OF DWELLING UNITS, RECEPTACLE OUTLETS FOR COUNTERTOPS AND WORK SURFACES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:

A. RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTERTOP AND WORK SURFACE THAT IS 12 INCHES OR WIDER. RECEPTACLE OUTLET SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24 INCHES MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET IN THAT SPACE. EXCEPTION: RECEPTACLE OUTLET SHOULD NOT BE REQUIRED ON THE WALL DIRECTLY BEHIND A RANGE, COUNTER-MOUNTED COOKING UNIT, OR SINK IN THE INSULATION, DESCRIBE IN FIGURE 210.52(C) (I)

AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH ISLAND COUNTERTOP SPACE WITH LONG DIMENSION OF 24 INCHES OR GREATER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH PENINSULAR COUNTERTOP LONG DIMENSION SPACE WITH THE LONG DIMENSION OF 24 INCHES OR GRADER AND A SHORT DIMENSION OF 12 INCHES OR GREATER. A PENINSULA COUNTERTOP IS MEASURED FROM CONNECTED PERPENDICULAR WALL

COUNTERTOP SPACES, SEPARATED BY RAIN STOPS, REFRIGERATORS, OR SING, SHALL BE CONSIDERED A SEPARATE COUNTERTOP SPACE IN APPLYING THE REQUIREMENTS OF ARTICLE, 210.52. RECEPTACLE OUTLETS SHALL BE LOCATED ON OR ABOVE NOT MORE THAN 20 INCHES ABOVE THE COUNTERTOP OR WORK SURFACE. RECEPTACLE OUTLETS, ASSEMBLIES LISTED FOR USE IN COUNTERTOPS OR WORK SURFACES SHALL BE PERMITTED TO BE INSTALLED IN COUNTERTOPS OR WORK SURFACES. RECEPTACLE OUTLETS RENDERED NOT READILY ACCESSIBLE BY APPLIANCES FASTENED IN PLACE, APPLIANCES, GARAGES, SINKS, OR RANGE TOP AS COVERED IN ART 210.52 (C) (I). EXCEPTION, OR APPLIANCES OCCUPYING DEDICATED SPACE SHALL NOT BE CONSIDERED AS REQUIRED OUTLETS. (CEC ARTICLE 210-52 (C) (I) THROUGH (50 SEE ARTICLE FOR EXCEPTION(S)

AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 3-FEET OF THE OUTSIDE EDGE OF EACH BASIN. RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR BASIN COUNTERTOP. LOCATED ON THE COUNTERTOP, OR INSTALLED ON THE SIDE OR FACE OF THE BASIN CABINET. IN NO CASE SHALL THE RECEPTACLE BE LOCATED MORE THAN 12 INCHES BELOW THE TOP OF THE BASIN OR BASIN COUNTERTOP. AT LEAST ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE BATHROOM(S) RECEPTACLE OUTLET(S). SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. (CEC ARTICLES 210.52(D) & 210.11 (C) (3))

ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE PROVIDED AS REQUIRED SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. ALL 120-VOLT, SINGLE PHASE, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY, SUN-ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY ANY OF THE MEANS DESCRIBED IN CEC ARTICLE 210.12 (A) (1) THROUGH (6). (CEC ARTICLE 210.12 (A)). 15. AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE INSTALLED TO SUPPLY RECEPTACLE

OUTLETS IN ATTACHED GARAGES AND IN DETACHED GARAGES WITH ELECTRICAL POWER. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS. THIS CIRCUIT SHALL BE PERMITTED TO SUPPLY READILY ACCESSIBLE OUTDOOR RECEPTACLE OUTLETS (CEC ART 210.11 (C) (4)) EACH OUTLET INSTALLED FOR THE PURPOSE OF CHARGING ELECTRIC VEHICLES SHALL BE SUPPLIED BY AN

INDIVIDUAL BRANCH CIRCUIT. EACH CIRCUIT SHALL HAVE NO OTHER OUTLETS (CEC ARTICLE 625.40). ALL CONDUCTORS CLOSER THAN 1 ¼ INCH TO THE EDGE OF FRAMING MEMBERS SHALL BE PROTECTED WITH A STEEL PLATE AT LEAST 1/16 INCH THICKNESS. (CEC ARTICLE 330.17 & 300.4 (A). 18. ALL LIGHT FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL MEET THE REQUIREMENTS OF CEC

ARTICLE 410.10 (A). 19. LIGHT FIXTURES WITHIN CLOTHES SHALL BE INSTALLED IN ACCORDANCE WITH CEC ARTICLE 410.16

MISCELLANEOUS

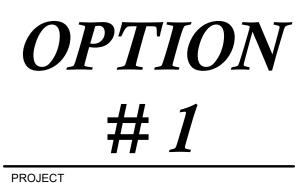
COMPLY WITH THE ENTIRE GENERAL REQUIREMENTS AS APPLICABLE FOR THE PROJECT, UNLESS MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED ON THE PLANS.

GARAGES SHALL HAVE NO OPENINGS INTO ROOMS FOR SLEEPING PURPOSES (CRC SEC R302.5.1) WATER CLOSET SHALL NOT BE SET CLOSER THAN 15 INCHES FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION NOR CLOSER THAN 30 INCHES CENTER TO CENTER TO A SIMILAR FIXTURE. THE CLEAR SPACE IN FRONT OF A WATER CLOSET SHALL BE NOT LESS THAN 24 INCHES (CPC SECTION 402.5) GUARDRAILS SHALL BE IN CONFORMANCE WITH SECTION R312 OF THE CALIFORNIA RESIDENTIAL CODE . GUARDS ON THE OPEN SIDE OF THE STAIRS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF SPHERE 4 % INCHES IN DIAMETER (CRC SECTION R312.1.3 EXCEPTION 2).

THE TRIANGULAR OPENINGS AT THE OPEN SIDE OF THE STAIR, FORMED BY THE RISER, TREAD, AND BOTTOM RAIL OF A GUARD, SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER. (CRC SECTION R312.1.3 EXCEPTION 1).

HANDRAILS SHALL BE IN CONFORMANCE WITH SECTION R311.7.8 OF THE CALIFORNIA RESIDENTIAL CODE BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY, ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL NOT BE SPELLED OUT EACH CHARACTER SHALL BE NOT LESS THAN 4 INCHES (102 MM) IN HEIGHT WITH A STROKE WIDTH OF NOT LESS THAN 0.5 INCH (12.7 MM) OF A CONTRASTING TO THE BACKGROUND (CRC SECTION 319.1) ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER (CRC SECTION R337.5.4)

500 SQ. FT. MODEL (513 SQ.FT.)



ACCESSORY DWELLING UNIT

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

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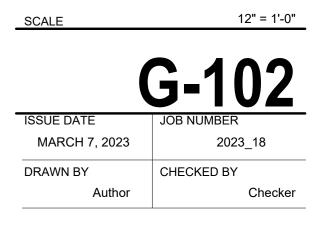
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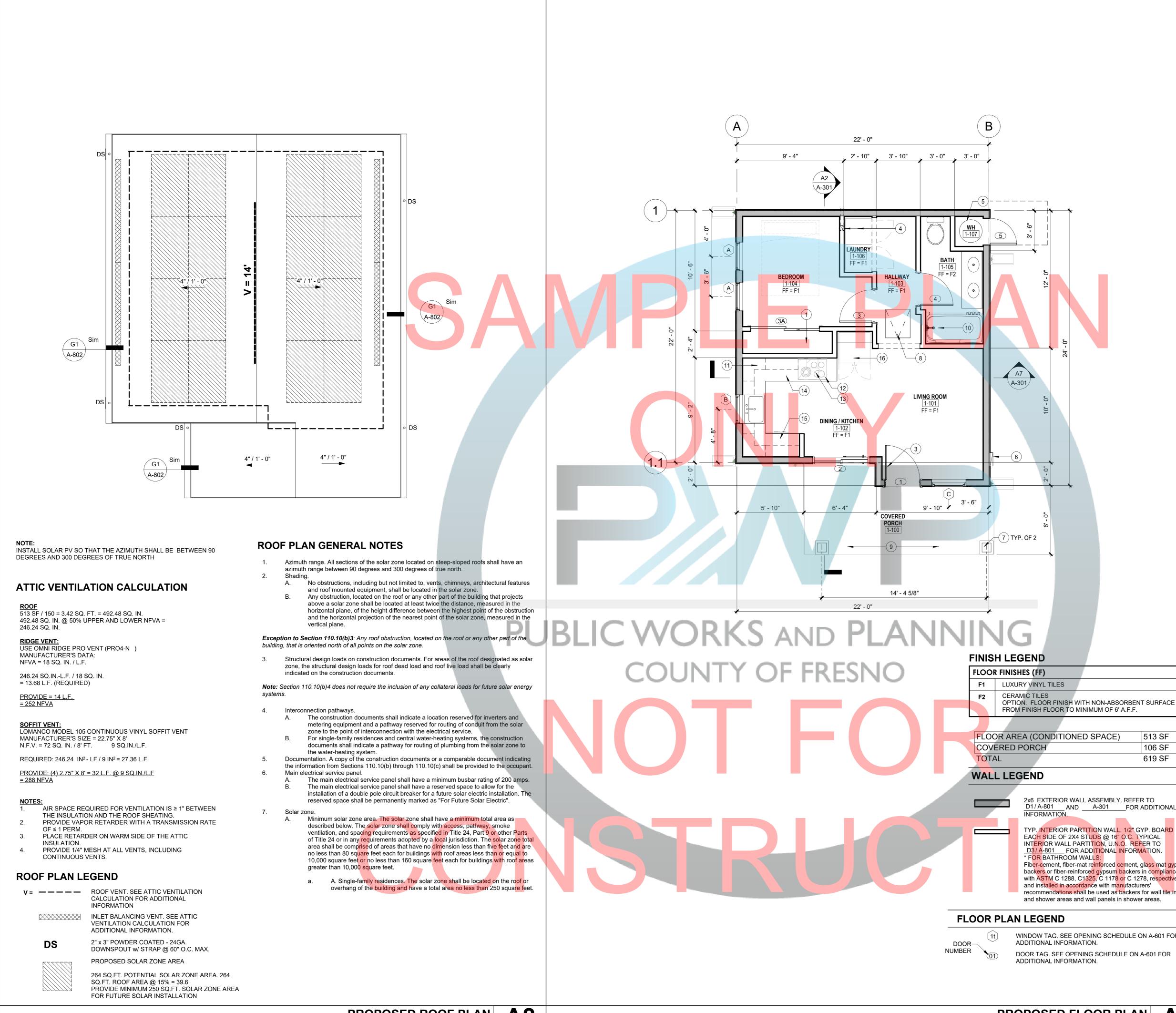
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GENERAL NOTES

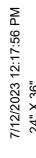


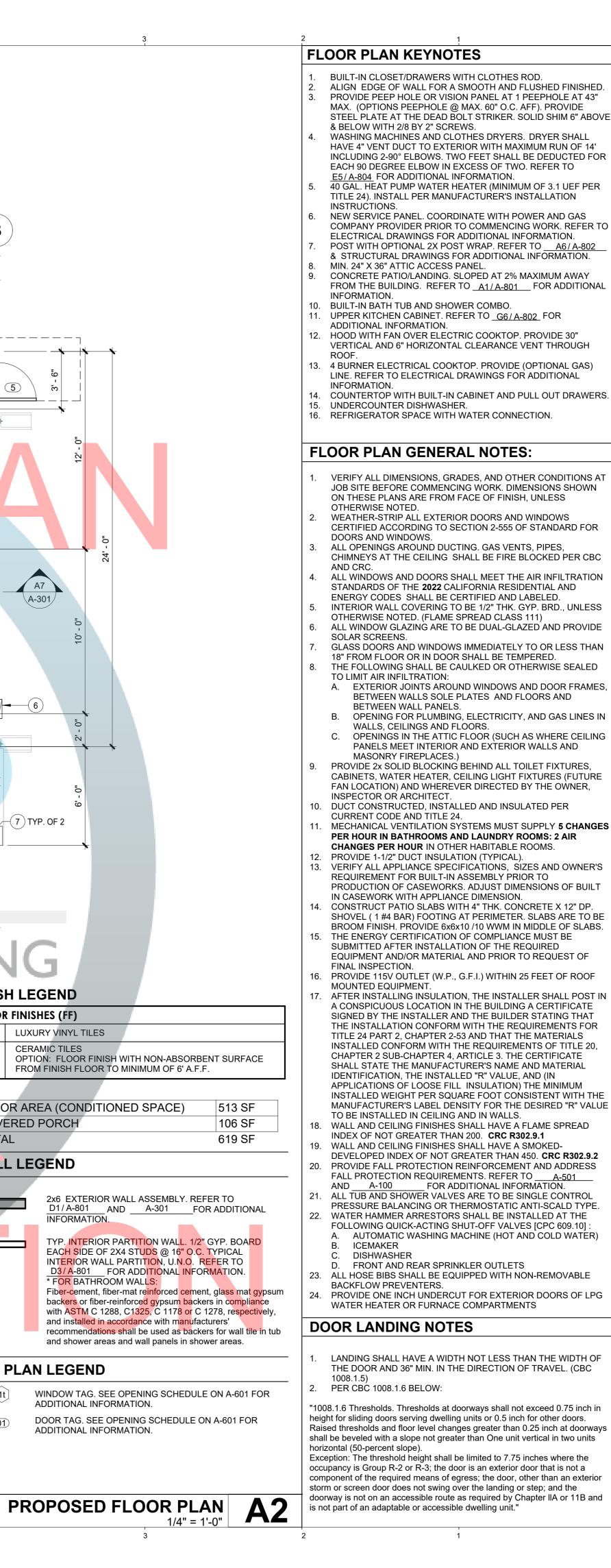


V =		ROOF VENT. SEE ATTIC VENTILATION CALCULATION FOR ADDITIONAL INFORMATION
		INLET BALANCING VENT. SEE ATTIC VENTILATION CALCULATION FOR ADDITIONAL INFORMATION.
	DS	2" x 3" POWDER COATED - 24GA. DOWNSPOUT w/ STRAP @ 60" O.C. MAX.
	[[]]]]]]	PROPOSED SOLAR ZONE AREA
		264 SQ.FT. POTENTIAL SOLAR ZONE ARE

12

- - - - PROPOSED ROOF PLAN A8 1/4" = 1'-0"





PWP23-003 DEPARTMENT OF PUBLIC WORKS AND PLANNING **CAPITAL PROJECTS** DIVISION

500 SQ. FT. MODEL (513

SQ.FT.)

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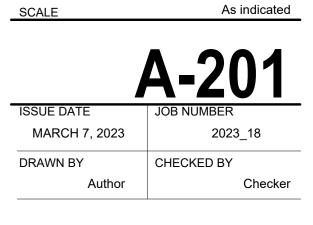
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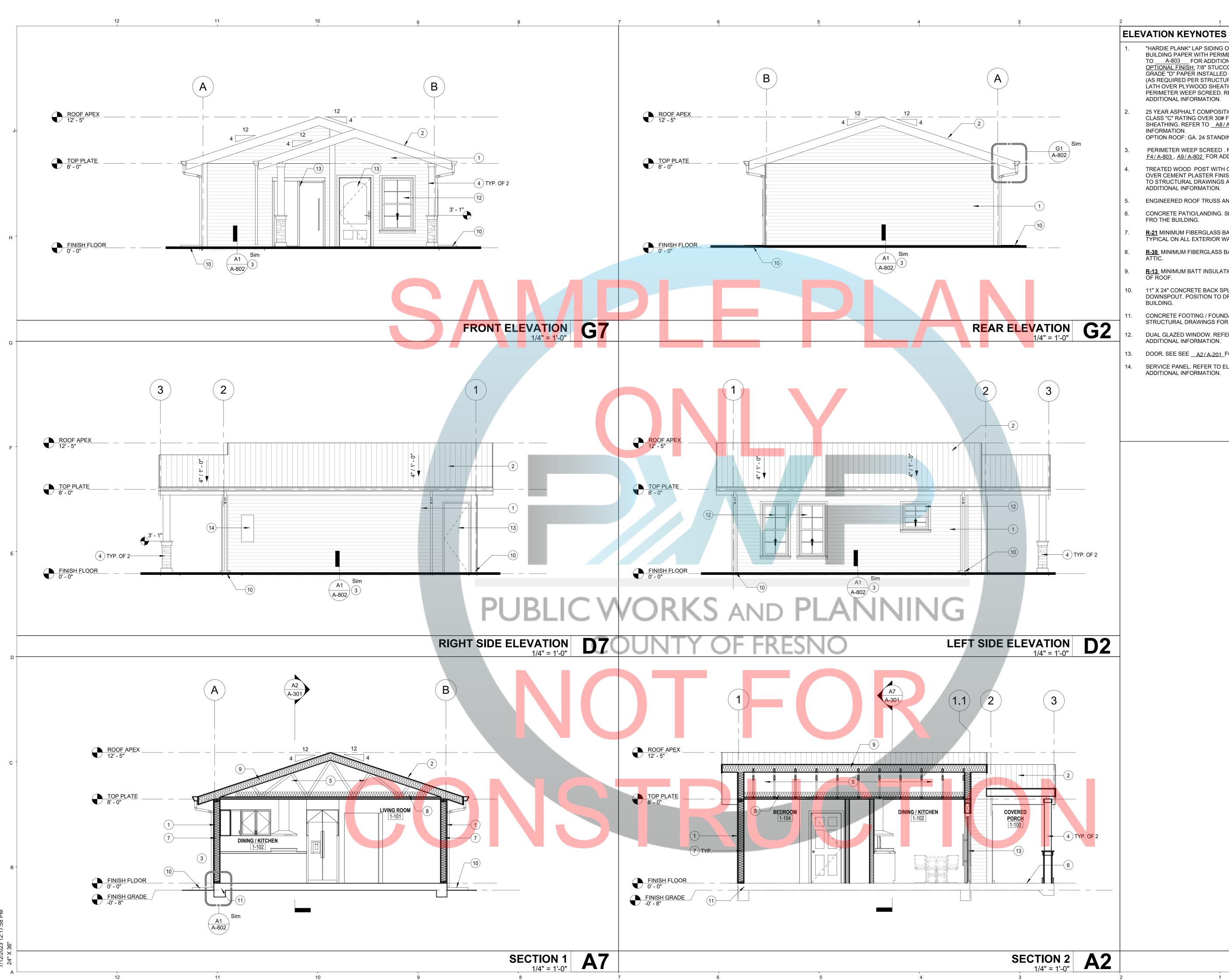
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PROPOSED FLOOR PLAN & ROOF PLAN



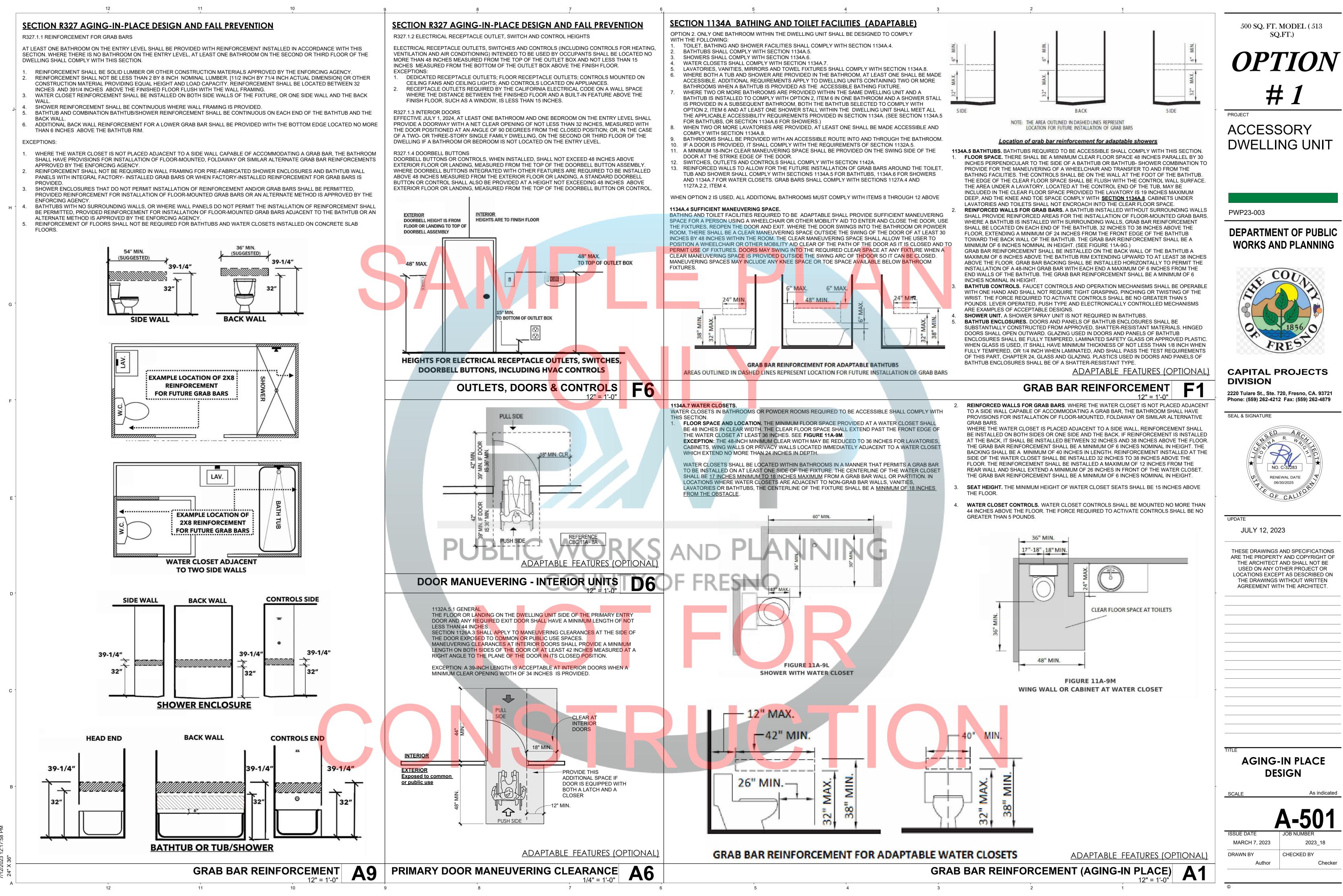


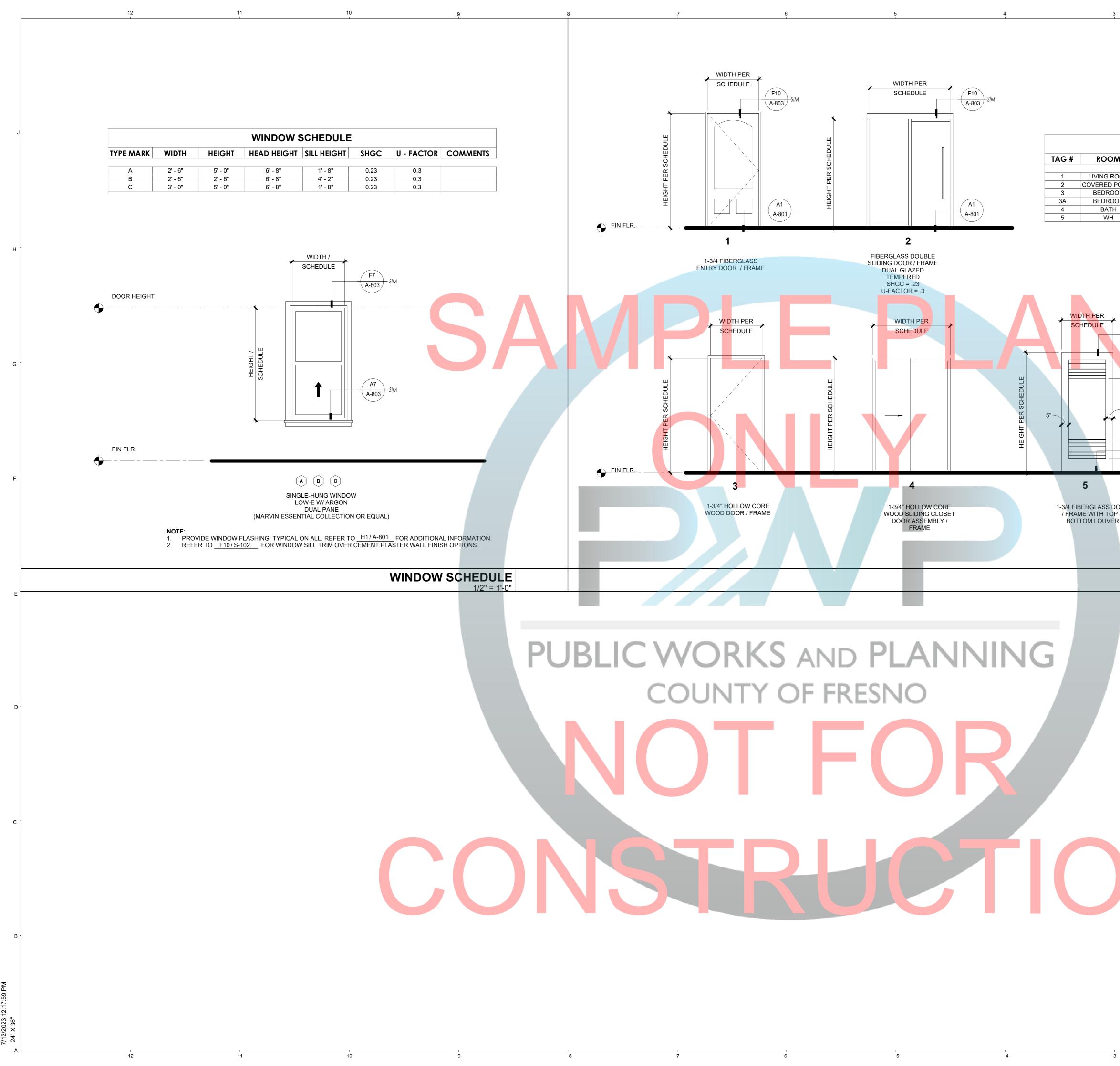
	VATION RETNOTES	500
1.	"HARDIE PLANK" LAP SIDING OVER 2 LAYER GRADE "D" BUILDING PAPER WITH PERIMETER WEEP SCREED. REFER TO <u>A-803</u> FOR ADDITIONAL INFORMATION.	
	OPTIONAL FINISH: 7/8" STUCCO FINISH OVER 2 LAYERS OF GRADE "D" PAPER INSTALLED OVER PLYWOOD SHEATHING (AS REQUIRED PER STRUCTURAL DRAWING). INSTALL METAL	\cap
	LATH OVER PLYWOOD SHEATHING PER R703.7.1. PROVIDE PERIMETER WEEP SCREED. REFER TO	
2.	25 YEAR ASPHALT COMPOSITION ROOFING WITH MINIMUM CLASS "C" RATING OVER 30# FELT OVER PLYWOOD	
	SHEATHING. REFER TO <u>A8/A-201</u> FOR ADDITIONAL INFORMATION.	
3.	OPTION ROOF: GA. 24 STANDING SEAMLESS METAL ROOF. PERIMETER WEEP SCREED . REFER TO _A4/A-803 ,	
4.	<u>F4/A-803</u> , <u>A9/A-802</u> FOR ADDITIONAL INFORMATION.	AC(DW
4.	OVER CEMENT PLASTER FINISH AND VENEER STONE. REFER TO STRUCTURAL DRAWINGS AND <u>A6/A-802</u> FOR ADDITIONAL INFORMATION.	
5. 6.	ENGINEERED ROOF TRUSS AND PLYWOOD SHEATHING. CONCRETE PATIO/LANDING. SLOPED AT 2% MAXIMUM AWAY	
7.	FRO THE BUILDING. <u>R-21</u> MINIMUM FIBERGLASS BATTS WALL INSULATION.	
	TYPICAL ON ALL EXTERIOR WALL.	PWP23
8.	R-38 MINIMUM FIBERGLASS BATT INSULATION. TYPICAL ON ATTIC.	DEP
9.	<u>R-13</u> MINIMUM BATT INSULATION. TYPICAL AT FRAME CAVITY OF ROOF.	WOI
10.	11" X 24" CONCRETE BACK SPLASH. PROVIDE ONE PER DOWNSPOUT. POSITION TO DRAIN AWAY FROM THE BUILDING.	- 88
 11.	CONCRETE FOOTING / FOUNDATION. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	1
 12.	DUAL GLAZED WINDOW. REFER TO <u>A2/A-201</u> FOR ADDITIONAL INFORMATION.	6
13.	DOOR. SEE SEE <u>A2/A-201</u> FOR ADDITIONAL INFORMATION.	8
14.	SERVICE PANEL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.	10
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500 SQ. FT. MODEL (513 SQ.FT.) **PTION** #1 CESSORY VELLING UNIT 23-003 PARTMENT OF PUBLIC ORKS AND PLANNING PITAL PROJECTS ISION ulare St., Ste. 720, Fresno, CA. 93721 (559) 262-4212 Fax: (559) 262-4879 SIGNATURE STATE RENEWAL DATE 06/30/2025 JULY 12, 2023 SE DRAWINGS AND SPECIFICATIONS THE PROPERTY AND COPYRIGHT OF HE ARCHITECT AND SHALL NOT BE JSED ON ANY OTHER PROJECT OR CATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

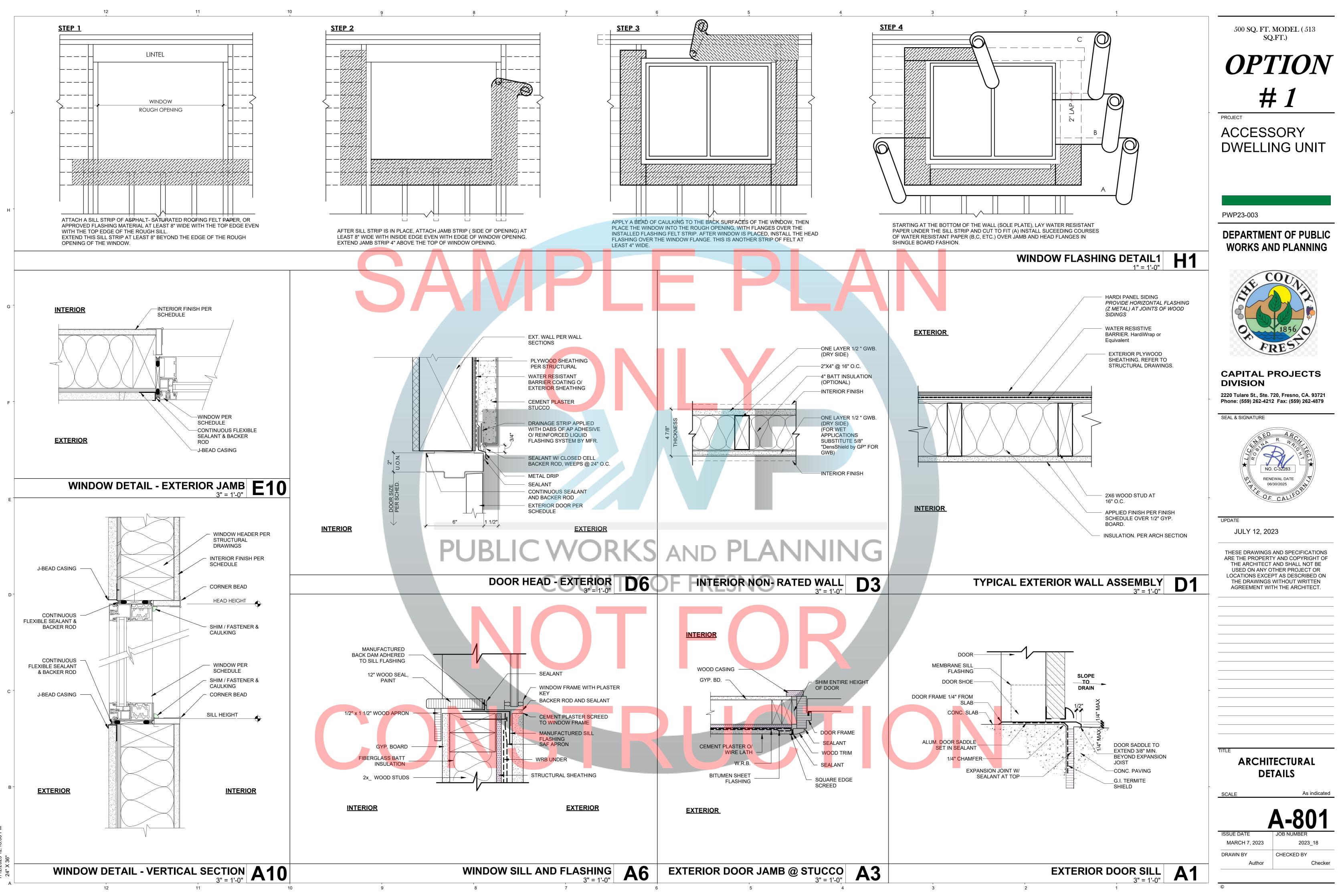
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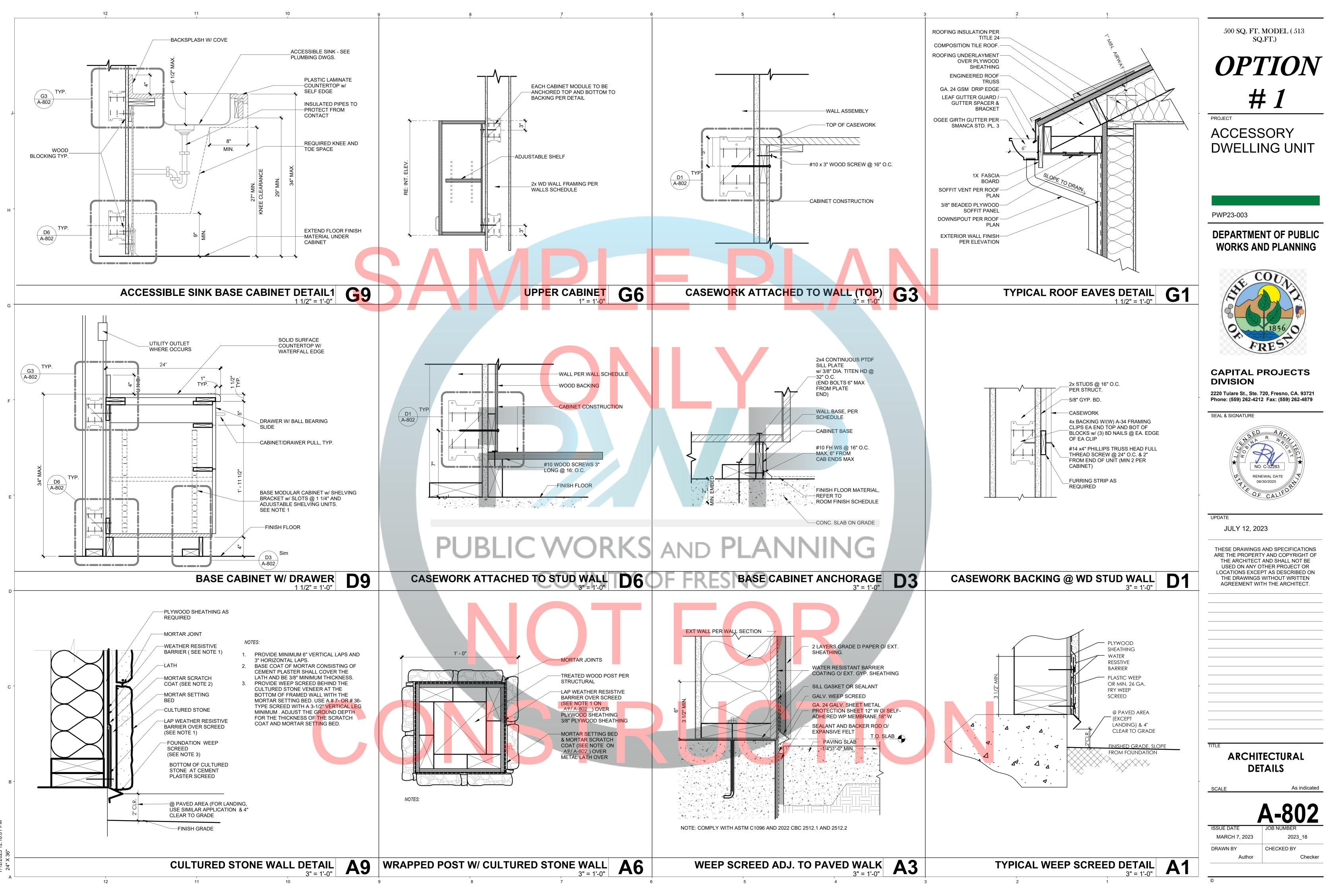
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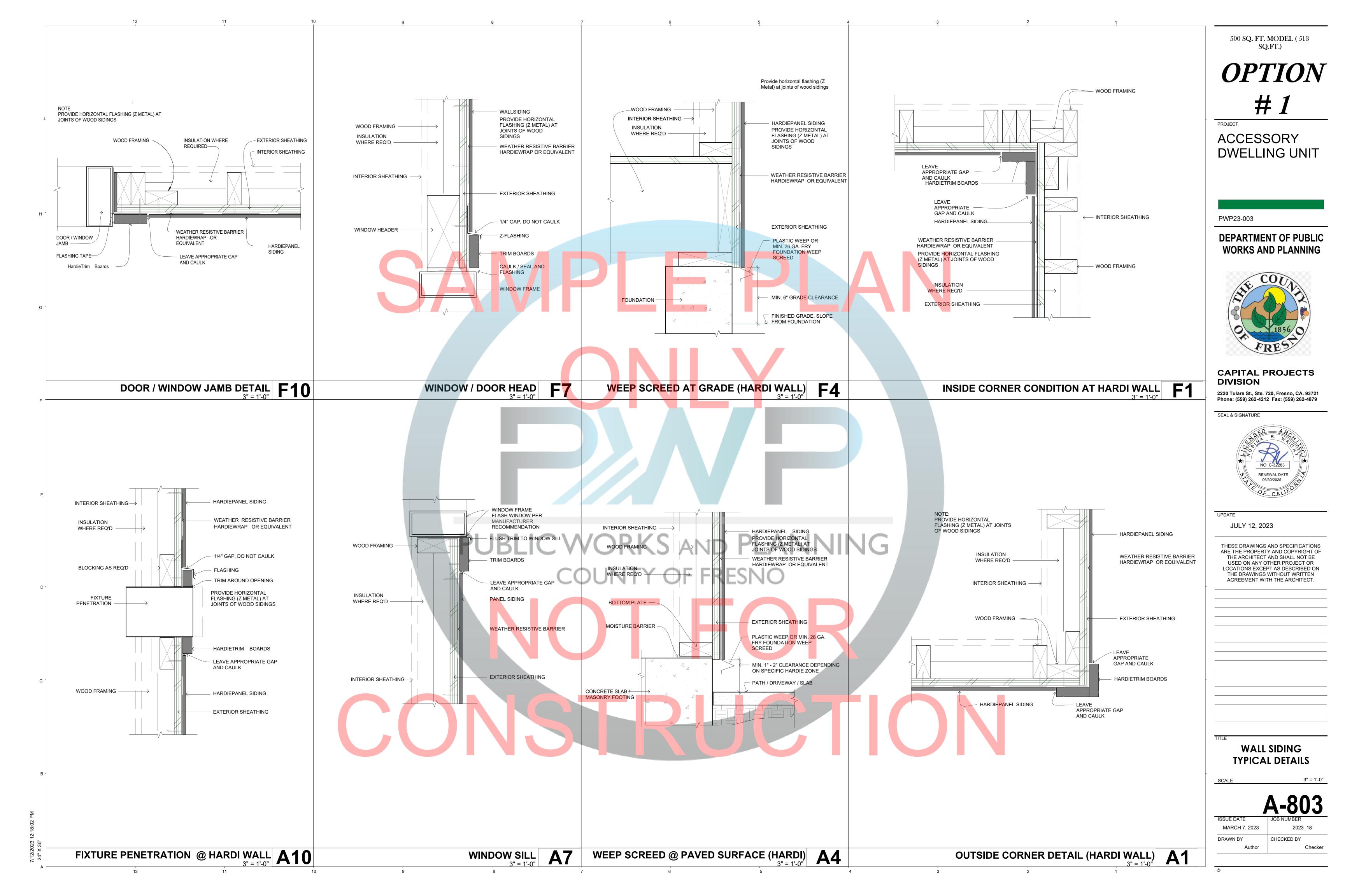


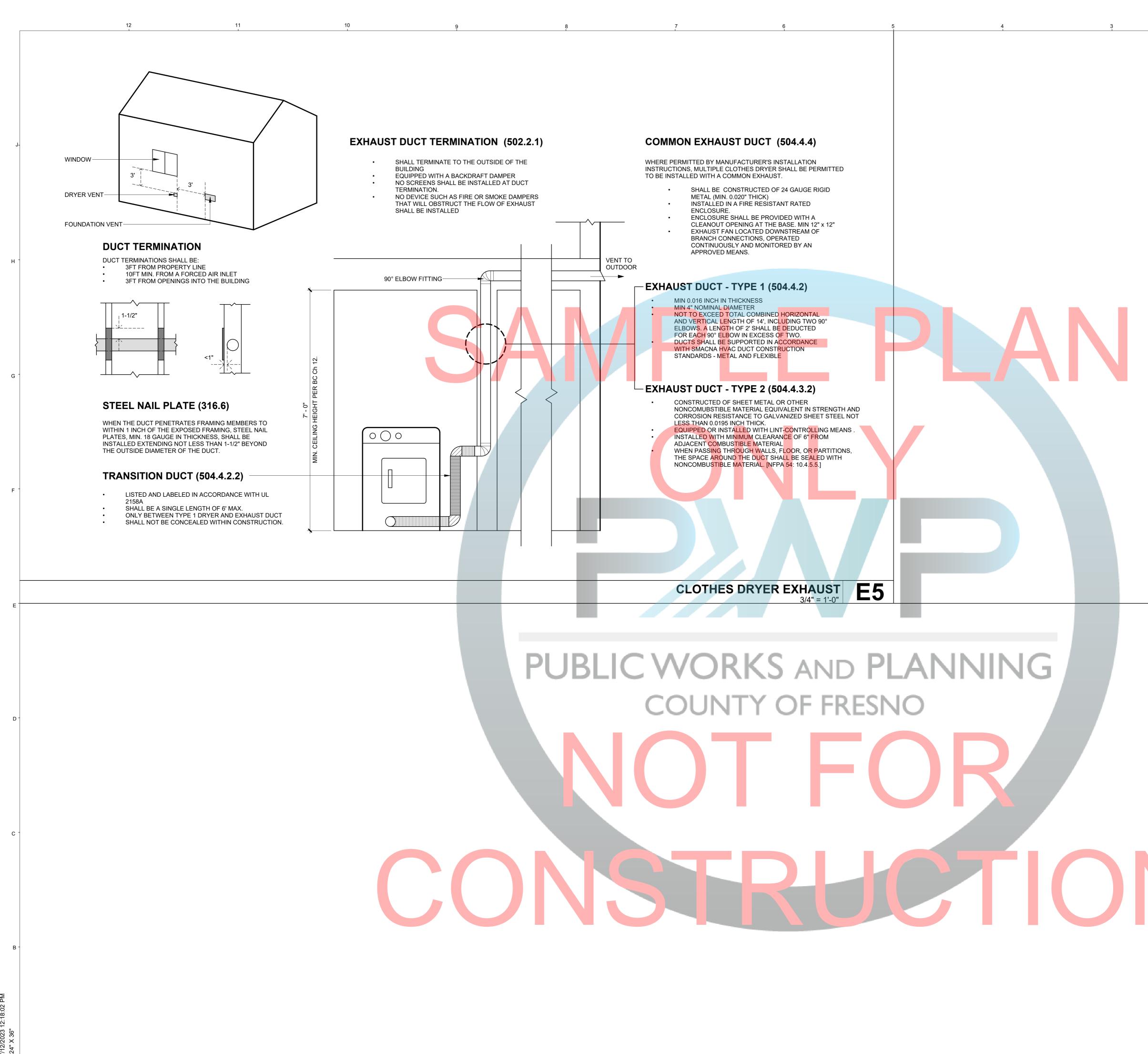


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A-801				DIVISION 2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879
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				★ NO. C-32283
			DOOR SCHEDULE 3/8" = 1'-0"	OF RENEWAL DATE 06/30/2025 OF CALLEOR
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Y N/A RESPO	Chapter 3 – Additions and Alterations	Y N/A RESPON. PARTY	4.106.4.2 New multifa When parking is provid	ed, parking spaces fo
	GREEN BUILDING SECTION 301 GENERAL		whole number. A parki space shall count as a	ng space served by el
J_	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.		applicable minimum pa 22511.2 for further det 4.106.4.2.1Multifamily less than 20 sleeping	ails. • development projec
	CC 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		The number of dwelling to this section. 1.EV Capable. Ten (10	y units, sleeping units)) percent of the total (
	alteration. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.		parking facilities, shall Electrical load calculati including any on-site d required EV spaces at	ons shall demonstrate stribution transformer
	E-015,l8; Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.		The service panel or su for future EV charging Exceptions:	
Н -	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.		1.When EV chargers (I capable spaces. 2.When EV chargers (I	
	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.		spaces, the number of chargers installed.	
	SECTION 302 MIXED OCCUPANCY BUILDINGS		a.Construction docume EV charging.	ents are int <mark>end</mark> ed to de
	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.		b.There is no requirem ch <mark>arg</mark> ers are installed t	
G -	 Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For purposes of <i>CAL</i>Green, live/work units, complying with Section 419 of the <i>California Building Code</i>, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as 		2.EV Ready . Twenty-fi Level 2 EV charging re dwelling unit when more	ceptacles. For multifa e than one parking sp
	applicable.		4.106.4.2.2 Multifamil more sleeping units of	y development proje or guest rooms.
	DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:		to this section.	
	HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural SafetyOSHPDOffice of Statewide Health Planning and DevelopmentLRLow Rise		1.EV Capable. Ten (10 parking facilities, shall Electrical load calculati including any on-site d required EV spaces at	be electric vehicle cha ons shall demonstrate stribution transformer
F	HR High Rise AA Additions and Alterations N New		The service panel or su for future EV charging	
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES		Exception: When EV c spaces required by Se number equal to the nu	ction 4.106.4.2.2, Item
	SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)		Notes: a.Construction docume b.There is no requirem chargers are installed t	ent for EV spaces to b
	 FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water. WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are 		2.EV Ready. Twenty-fi Level 2 EV charging re dwelling unit when more	ve (25) percent of the ceptacles. For multifa
E -	 also used for perimeter and inlet controls. 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through 		3.EV Chargers. Five (Where common use pa	5) percent of the total
	evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.		and shall be available	or use by all residents
	 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. 		automatic load manage each space served by sufficient capacity to de ALMS. The branch circ of not less than 30 am	ement system (ALMS) the ALMS. The electri eliver at least 3.3 kW s uit shall have a minim
	 Retention basins of sufficient size shall be utilized to retain storm water on the site. 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. Compliance with a lawfully enacted storm water management ordinance. 		required EV capable s 4.106.4.2.2.1 Electric Electric vehicle chargin	vehicle charging sta
D -	Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)		Exception: Electric veh shall not be required to requirements.	
	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		4.106.4.2.2.1.1 Locati EVCS shall comply wit	
	water include, but are not limited to, the following: 1. Swales		1.The charging space California Building Cod	
	 Water collection and disposal systems French drains Water retention gardens 		2.The charging space 2, to the building.	shall be located on an
	 Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage path. 		Exception: Electric veh Code, Chapter 11B, ar	
c	4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.		4.106.4.2.2.1.2 Electri The charging spaces s 1.The minimum length	hall be designed to co
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are		2.The minimum width o	
	 not feasible based upon one or more of the following conditions: 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. 		3.One in every 25 char aisle. A 5-foot (1524 m 12 feet (3658 mm). a.Surface slope for this	m) wide min <mark>imu</mark> m aisl
	2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.		slope) in any direction. 4.106.4.2.2.1.3 Access	
B -	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 accommodate a dedicated 208/240-volt 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 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		In addition to the require comply with the access spaces and EVCS in m 1109A.	ements in Sections 4. sibility provisions for E
	and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed		4.106.4.2.3 EV space 1.Single EV space required circuit. The raceway shoriginate at the main set	uired. Install a listed ra all not be less than tra ervice or subpanel and
	 in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the <i>California Electrical Code</i>. 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent 		proximity to the locatio raceway termination po have a 40-ampere min installed, or space(s) re	pint, receptacle or cha imum dedicated brand
24" X 36"	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".		Exception: A raceway i in close proximity to the accordance with the Ca	e location or the propo
A	12 11 10	1	9	

2022 CALIFORNIA GREEN BUILDING STANDARDS

IDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

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tels and motels and new residential parking facilities. for new multifamily dwellings, hotels and motels shall meet the 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest electric vehicle supply equipment or designed as a future EV charging automobile parking space only for the purpose of complying with any ments established by a local jurisdiction. See Vehicle Code Section ects with less than 20 dwelling units; and hotels and motels with ms. is or guest rooms shall be based on all buildings on a project site subject al number of parking spaces on a building site, provided for all types of harging spaces (EV spaces) capable of supporting future Level 2 EVSE. ate that the electrical panel service capacity and electrical system,		PARTY	2.Multiple EV spaces required. Construction documents a location of installed or future EV spaces, receptacles or E provide information on amperage of installed or future reschematics and electrical load calculations. Plan design a circuit. Required raceways and related components that inaccessible or in concealed areas and spaces shall be in Exception: A raceway is not required if a minimum 40-aminstalled in close proximity to the location or the proposed construction in accordance with the California Electrical C 4.106.4.2.4 Identification. The service panel or subpanel circuit directory shall identified for future EV charging purposes as "EV CAPABLE" in ac 4.106.4.2.5 Electric Vehicle Ready Space Signage . Electric vehicle ready spaces shall be identified by signator Traffic Operations Policy Directive 13-01 (Zero Emission successor(s).	EV chargers. Construction documents shall also ceptacles or EVSE, raceway method(s), wiring shall be based upon a 40-ampere minimum branch are planned to be installed underground, enclosed, nstalled at the time of original construction. npere 208/240-volt dedicated EV branch circuit is d location of the EV space at the time of original Code. tify the overcurrent protective device space(s) reserved cordance with the California Electrical Code. ge or pavement markings, in compliance with Caltrans	N/A	RESPON. PARTY
er(s), have sufficient capacity to simultaneously charge all EVs at all nperes. tory shall identify the overcurrent protective device space(s) reserved NPABLE" in accordance with the California Electrical Code.		3	4.106.4.3 Electric vehicle charging for additions and a multifamily buildings. WheC n new parking facilities are added, or electrical system or altered and the work requires a building permit, ten (10 or altered shall be electric vehicle charging spaces (EV structure) Notes:	stems or lighting of existing parking facilities are added 0) percent of the total number of parking spaces added spaces) capable of supporting future Level 2 EVSE.		
nstalled in a number equal to or greater than the required number of EV			 Construction documents are intended to demonstrate t EV charging. There is no requirement for EV spaces to be constructed 			
nstalled in a number less than the required number of EV capable required may be reduced by a number equal to the number of EV			DIVISION 4.2 ENERGY EFFICIE 4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy	efficiency standards in this code, the California		
demonstrate the project's capability and capacity for facilitating future be constructed or available until receptacles for EV charging or EV			Energy Commission will continue to adopt mandatory standard statements of the second statement of the			
ne total number of parking spaces shall be equipped with low power family parking facilities, no more than one receptacle is required per space is provided for use by a single dwelling unit.			4.303INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES and urinals) and fittings (faucets and showerheads) shall 4.303.1.3, and 4.303.4.4.			
d by parking lifts. jects with 20 or more dwelling units, hotels and motels with 20 or is or guest rooms shall be based on all buildings on a project site subject	t		Note: All noncompliant plumbing fixtures in any residenti conserving plumbing fixtures. Plumbing fixture replaceme completion, certificate of occupancy, or final permit Code Section 1101.1, et seq., for the definition of a nonc affected and other important enactment dates.	ent is required prior to issuance of a certificate of final approval by the local building department. See Civil		
I number of parking spaces on a building site, provided for all types of harging spaces (EV spaces) capable of supporting future Level 2 EVSE te that the electrical panel service capacity and electrical system, er(s), have sufficient capacity to simultaneously charge all EVs at all			 4.303.1.1 Water Closets. The effective flush volume of flush. Tank-type water closets shall be certified to the perspecification for Tank-type Toilets. Note: The effective flush volume of dual flush toilets is d 	erformance criteria of the U.S. EPA WaterSense		
tory shall identify the overcurrent protective device space(s) reserved			reduced flushes and one full flush. 4.303.1.2 Urinals. The effective flush volume of wall mo	ounted urinals shall not exceed 0.125 gallons per		
APABLE" in accordance with the California Electrical Code. SE) are installed in a number greater than five (5) percent of parking em 3, the number of EV capable spaces required may be reduced by a 's installed over the five (5) percent required.			flush.The effective flush volume of all other urinals shall r 4.303.1.3 Showerheads. 4.303.1.3.1 Single Showerhead. Showerheads shall ha per minute at 80 psi. Showerheads shall be certified to t	ave a maximum flow rate of not more than 1.8 gallons		
tions of future EV spaces. be constructed or available until receptacles for EV charging or EV the total number of parking spaces shall be equipped with low power family parking facilities, no more than one receptacle is required per			 4.303.1.3.2 Multiple showerheads serving one shower showerhead, the combined flow rate of all the showerhead valve shall not exceed 1.8 gallons per minute at 80 psi, o one shower outlet to be in operation at a time. 	r. When a shower is served by more than one ads and/or other shower outlets controlled by a single		
space is provided for use by a single dwelling unit. d by parking lifts.			Note: A hand-held shower shall be considered a shower 4.303.1.4 Faucets.	rhead.		
al number of parking spaces shall be equipped with Level 2 EVSE. t least one EV charger shall be located in the common use parking area hts or guests.			4.303.1.4.1 Residential Lavatory Faucets. The maxim exceed 1.2 gallons per minute at 60 psi. The minimum fl than 0.8 gallons per minute at 20 psi.			
ptacles or Level 2 EVSE are installed beyond the minimum required, an S) may be used to reduce the maximum required electrical capacity to trical system and any on-site distribution transformers shall have / simultaneously to each EV charging station (EVCS) served by the imum capacity of 40 amperes, and installed EVSE shall have a capacity of be used to reduce the minimum required electrical capacity to the	D		 4.303.1.4.2 Lavatory Faucets in Common and Public faucets installed in common and public use areas (outsid shall not exceed 0.5 gallons per minute at 60 psi. 4.303.1.4.3 Metering Faucets. Metering faucets when i than 0.2 gallons per cycle. 	le of dwellings or sleeping units) in residential buildings installed in residential buildings shall not deliver more		
tations (EVCS). by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1. is serving public accommodations, public housing, motels and hotels ction. See California Building Code, Chapter 11B, for applicable		Y	 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of minute at 60 psi. Kitchen faucets may temporarily increasexceed 2.2 gallons per minute at 60 psi, and must defaul 60 psi. Note: Where complying faucets are unavailable, aerator 	ase the flow above the maximum rate, but not to It to a maximum flow rate of 1.8 gallons per minute at		
following options: accent to an accessible parking space meeting the requirements of the allow use of the EV charger from the accessible parking space.			 4.303.1.4.5 Pre-rinse spray valves. When installed, shall meet the requirements in the Califo Efficiency Regulations), Sections 1605.1 (h)(4) Tab (7) and shall be equipped with an integral automatic shut FOR REFERENCE ONLY: The following table and code 	ornia Code of Regulations, Title 20 (Appliance ole H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d) toff.		
an accessible route, as defined in the California Building Code, Chapter as designed and constructed in compliance with the California Building mply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.2.1.2, Item 3.			of Regulations, Title 20 (Appliance Efficiency Regulations (A). Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse s shall have a minimum spray force of not less than 4.0 ou	pray values manufactured on or after January 1, 2006,		
stations (EVCS) dimensions. comply with the following:			4.303.2 Submeters for multifamily buildings and dwe buildings. Submeters shall be installed to measure water usage the <i>California Plumbing Code</i> .	Iling units in mixed-used residential/commercial ge of individual rental dwelling units in accordance with		
hall be 18 feet (5486 mm). all be 9 feet (2743 mm). t less than one, shall also have an 8-foot (2438 mm) wide minimum			4.303.3 Standards for plumbing fixtures and fittings. accordance with the California Plumbing Code, and shall 1701.1 of the California Plumbing Code.			
isle shall be permitted provided the minimum width of the EV space is						
aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent			TABLE - MAXIMUM FIXTURE WATER USE FIXTURE TYPE	FLOW RATE		
4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall EV chargers in the California Building Code, Chapter 11B. EV ready ents shall comply with California Building Code, Chapter 11A, Section			SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @		
raceway capable of accommodating a 208/240-volt dedicated branch			LAVATORY FAUCETS (RESIDENTIAL)	20PSI 0.5 GPM @ 60 PSI		
trade size 1 (nominal 1-inch inside diameter). The raceway shall nd shall terminate into a listed cabinet, box or enclosure in close cation of the EV space. Construction documents shall identify the harger location, as applicable. The service panel and/ or subpanel shall nch circuit, including branch circuit overcurrent protective device stallation of a branch circuit overcurrent protective device.			KITCHEN FAUCETS METERING FAUCETS WATER CLOSET URINALS	1.8 GPM @ 60 PSI 0.2 GAL/CYCLE 1.28 GAL/FLUSH 0.125 GAL/FLUSH		
inimum 40-ampere 208/240-volt dedicated EV branch circuit is installed posed location of the EV space, at the time of original construction in ode.						

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4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

NOTES:

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

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

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

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

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

ordinance.

Exceptions:1. Excavated soil and land-clearing debris.

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

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

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

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

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

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

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

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

Notes:

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

4.410 BUILDING MAINTENANCE AND OPERATION

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

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.

2. Operation and maintenance instructions for the following:

a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.

- b. Roof and yard drainage, including gutters and downspouts.
- c. Space conditioning systems, including condensers and air filters.
- d. Landscape irrigation systems.e. Water reuse systems.

4

3

3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.

4. Public transportation and/or carpool options available in the area.

5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.

6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.

8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.

9. Information about state solar energy and incentive programs available.10. A copy of all special inspections verifications required by the enforcing agency or this code.

11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.

12. Information and/or drawings identifying the location of grab bar reinforcements.

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

#1 PROJECT ACCESSORY

DWELLING UNIT

500 SQ. FT. MODEL (513 SQ.FT.)

OPTION

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 12, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON

THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

GREEN BUILDING MANDATORY MEASURES 1

SCALE 12" = 1'-0"

GBC-1ISSUE DATEJOB NUMBERMARCH 7, 20232023_18DRAWN BYCHECKED BYRWRW

			DDE	RESIDENTIAI	MANDATO	ORY MEASURES, SHEET 2
SPON. ARTY		N/A RESPON. PARTY	CONT.		Y N/A RESPON. PARTY	Adhesives, sealant and caulks used on the project shall meet the
	SECTION 4.501 GENERAL		TABLE 4.504.1 - ADHESIVE VOC LI	VIT 1,2		TABLE 4.504.3 - VOC CONTENT LIMITS FOR
	4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous,					ARCHITECTURAL COATINGS 2,3
	irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.		SPECIALTY APPLICATIONS PVC WELDING	510		SPECIALTY COATINGS (CONT.) VOC LIMIT
	SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS		CPVC WELDING	490		STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 340
	The following terms are defined in Chapter 2 (and are included here for reference)		ABS WELDING	325		SWIMMING POOL COATINGS 340 TRAFFIC MARKING COATINGS 100
	AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.		PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC	250 550		TUB & TILE REFINISH COATINGS 420
	COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and		CONTACT ADHESIVE	80		WATERPROOFING MEMBRANES 250
	medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger isinted lumber, all as apacified in California Cade of regulations (CCP), title 17, Section 03120.1		SPECIAL PURPOSE CONTACT ADHESIVE	250		WOOD COATINGS275WOOD PRESERVATIVES350
	finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1. DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for		STRUCTURAL WOOD MEMBER ADHESIV			ZINC-RICH PRIMERS 340
	combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere. MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a		TOP & TRIM ADHESIVE	250		1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
i i	compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O ³ /g ROC).		SUBSTRATE SPECIFIC APPLICATION METAL TO METAL	30		2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS
	Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.		PLASTIC FOAMS	50		ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY
	MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry		POROUS MATERIAL (EXCEPT WOOD)	50		THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE
	wood.		WOOD	30		INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.
	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of		FIBERGLASS	80		
	product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).		1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR			TABLE 4.504.5 - FORMALDEHYDE LIMITS 1
	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to		TOGETHER, THE ADHESIVE WITH THE HIGHEST VO ALLOWED.			MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION
	ozone formation in the troposphere.		2. FOR ADDITIONAL INFORMATION REGARDING M THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE			the PRODUCT CURRENT LIMIT
	VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds		QUALITY MANAGEMENT DISTRICT RULE 1168.			HARDWOOD PLYWOOD VENEER CORE 0.05
	typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).		TABLE 4.504.2 - SEALANT VOC LIMIT			HARDWOOD PLYWOOD COMPOSITE CORE 0.05
	4.503 FIREPLACES		(Less Water and Less Exempt Compounds in C	rams per Liter)		PARTICLE BOARD 0.09 MEDIUM DENSITY FIBERBOARD 0.11
	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		SEALANTS	VOC LIMIT		THIN MEDIUM DENSITY FIBERBOARD 2 0.13
į	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.		ARCHITECTURAL	250		1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL
	4.504 POLLUTANT CONTROL		MARINE DECK NONMEMBRANE ROOF	300		MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF.
	4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final		ROADWAY	25 <mark>0</mark>		CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
	startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing		SINGLE-PLY ROOF MEMBRANE	450		2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM
	agency to reduce the amount of water, dust or debris which may enter the system.		OTHER	420		THICKNESS OF 5/16" (8 MM).
	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.					DIVISION 4.5 ENVIRONMENTAL QUALITY (CONT.)
	4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality		ARCHITECTURAL NON-POROUS	250		4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Orgonal Standard Method for the Testing and Evaluation of Volatile Standard Method for the Testing and Evaluation of Volatile Standard Method for the Testing and Evaluation of Volatile Standard Method for the Testing and Evaluation of Volatile Standard Method for the Testing and Evaluation of Volatile
	management district rules apply:		POROUS	775		Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 testing method for California Specification 01350)
	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		MODIFIED BITUMINOUS	500		See California Department of Public Health's website for certification programs and testing labs.
	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		MARINE DECK	760		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.
	compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and tricloroethylene), except for aerosol products, as specified in Subsection 2 below.		OTHER	750		4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirement
	 Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in 		Adhesives, sealant and caulks used on the pro TABLE 4.504.3 - VOC CONTENT LIM			California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Or Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017
	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,		COATINGS 2,3			testing method for California Specification 01350)
	including prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i> , Title commencing with section 94507.		GRAMS OF VOC PER LITER OF COATING, I COMPOUNDS	ESS WATER & LESS EXEMPT		See California Department of Public Health's website for certification programs and testing labs.
	4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of		COATING CATEGORY	VOC LIMIT		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.
	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		FLAT COATINGS	50		4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.
	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		NON-FLAT COATINGS	100		4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor receiving resilient flooring shall meet the requirements of the California Department of Public Health, "S Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Us
	Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.		NONFLAT-HIGH GLOSS COATINGS	150		Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Us Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specific
	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR		ALUMINUM ROOF COATINGS	400		
	Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of <i>California Code of</i>		BASEMENT SPECIALTY COATINGS	400	INITY (See California Department of Public Health's website for certification programs and testing labs.
	Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the BayArea AirQuality Management District additionally comply with the percent VOC by weight of product limits		BITUMINOUS ROOF COATINGS	50		hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.
	of Regulation 8, Rule 49.		BITUMINOUS ROOF PRIMERS	350		4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fib
	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:		CONCRETE CURING COMPOUNDS	350		composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et al. 1997) and the data analisis of the data and
	1. Manufacturer's product specification.		CONCRETE/MASONRY SEALERS	100		or before the dates specified in those sections, as shown in Table 4.504.5
	2. Field verification of on-site product containers.		DRIVEWAY SEALERS	50		4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested enforcing agency. Documentation shall include at least one of the following:
			DRY FOG COATINGS	150		1. Product certifications and specifications.
			FAUX FINISHING COATINGS	350		 Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 02120, et ang.)
	TABLE 4.504.1 - ADHESIVE VOC LIMIT 1,2 (Less Water and Less Exempt Compounds in Grams per Liter)		FLOOR COATINGS	100		 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wead Association, the Australian AS/NZS 2260, European 636 3S standards, and Canadian CSA
	(Less Water and Less Exempt Compounds in Grams per Liter) ARCHITECTURAL APPLICATIONS VOC LIMIT		FORM-RELEASE COMPOUNDS	250		Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
	INDOOR CARPET ADHESIVES 50		GRAPHIC ARTS COATINGS (SIGN PAINTS)	500		 Other methods acceptable to the enforcing agency. 4.505 INTERIOR MOISTURE CONTROL
	CARPET PAD ADHESIVES 50		HIGH TEMPERATURE COATINGS	420		4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards C
	OUTDOOR CARPET ADHESIVES 150		LOW SOLIDS COATINGS	120		4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retained
	WOOD FLOORING ADHESIVES100RUBBER FLOOR ADHESIVES60		MAGNESITE CEMENT COATINGS	450		California Residential Code, Chapter 5, shall also comply with this section.
	SUBFLOOR ADHESIVES 50		MASTIC TEXTURE COATINGS	100		4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the fo
	CERAMIC TILE ADHESIVES 65			500		1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided w a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding,
	VCT & ASPHALT TILE ADHESIVES 50		MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS	250 420		shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
	DRYWALL & PANEL ADHESIVES 50 COVE BASE ADHESIVES 50		PRIMERS, SEALERS, & UNDERCOATERS	100		 Other equivalent methods approved by the enforcing agency. A slab design specified by a licensed design professional.
	COVE BASE ADHESIVES50MULTIPURPOSE CONSTRUCTION ADHESIVE70		REACTIVE PENETRATING SEALERS	350		4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of v
	STRUCTURAL GLAZING ADHESIVES 100		RECYCLED COATINGS	250		damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members percent moisture content. Moisture content shall be verified in compliance with the following:
	SINGLE-PLY ROOF MEMBRANE ADHESIVES 250		ROOF COATINGS RUST PREVENTATIVE COATINGS	250		1. Moisture content shall be determined with either a probe-type or contact-type moisture meter.Equiv
	OTHER ADHESIVES NOT LISTED 50		RUST PREVENTATIVE COATINGS SHELLACS	200		moisture verification methods may be approved by the enforcing agency and shall satisfy requirement found in Section 101.8 of this code.
			CLEAR	730		2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade sta each piece verified.
			OPAQUE	550		 At least three random moisture readings shall be performed on wall and floor framing with document acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor frammatication.
			SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100		Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed t
		L I Í			i	enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' dryin

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(January 2023)

Y N/A RESPON. PARTY 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 less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.

b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.

2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

4.507 ENVIRONMENTAL COMFORT

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

- 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J 2011 (Residential
- Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems),
- ÁSHRAE handbooks or other equivalent design software or methods.
- 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S 2014 (Residential Equipment Selection), or other equivalent design software or methods.

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

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

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

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters,
- performance contractors, and home energy auditors. buildina
- 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 project they are inspecting for compliance with this code. the 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to homes in California according to the Home Energy Rating System (HERS). rate

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

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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.



500 SQ. FT. MODEL (513

SQ.FT.)

OPTION

DWELLING UNIT

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 12, 2023

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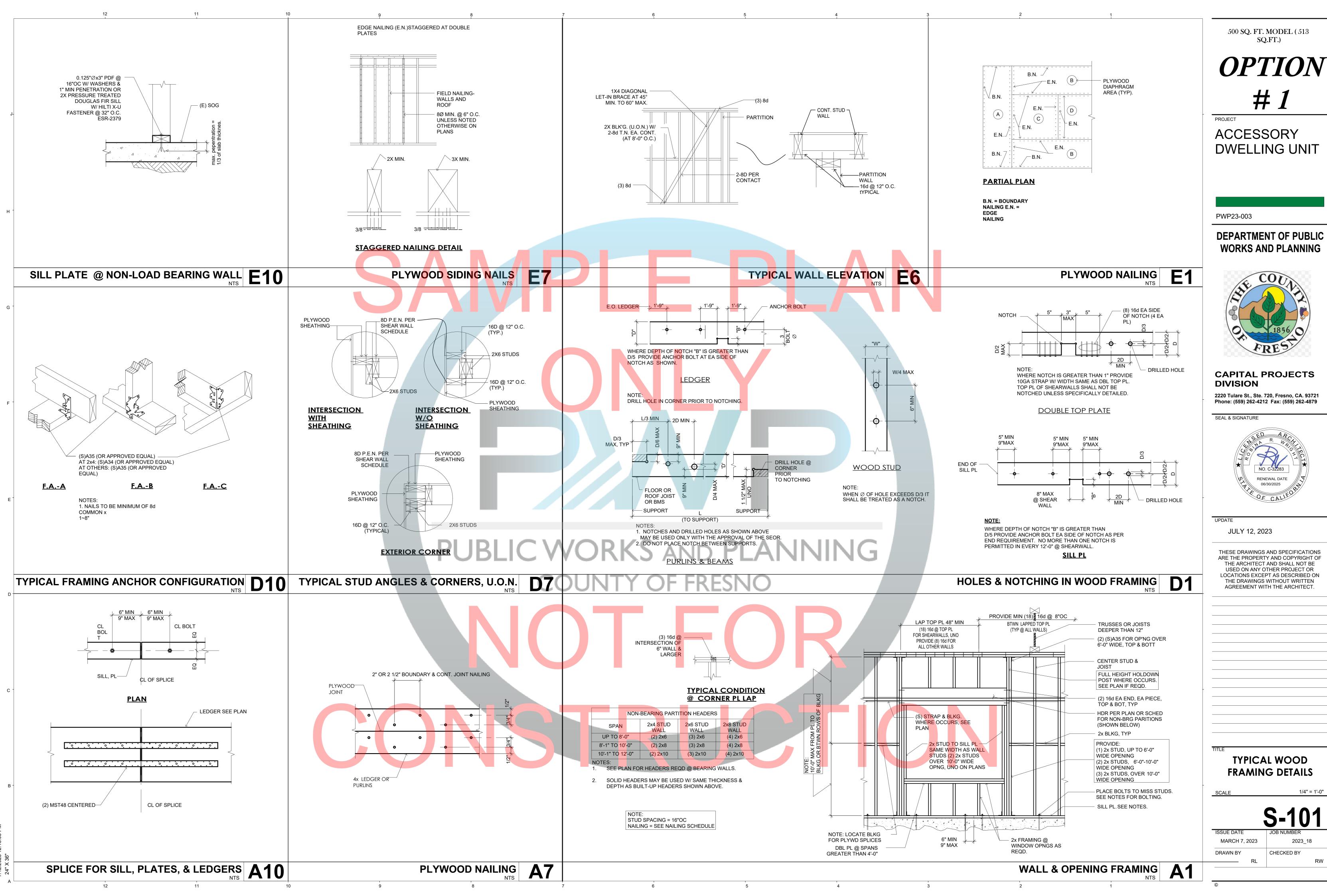
THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

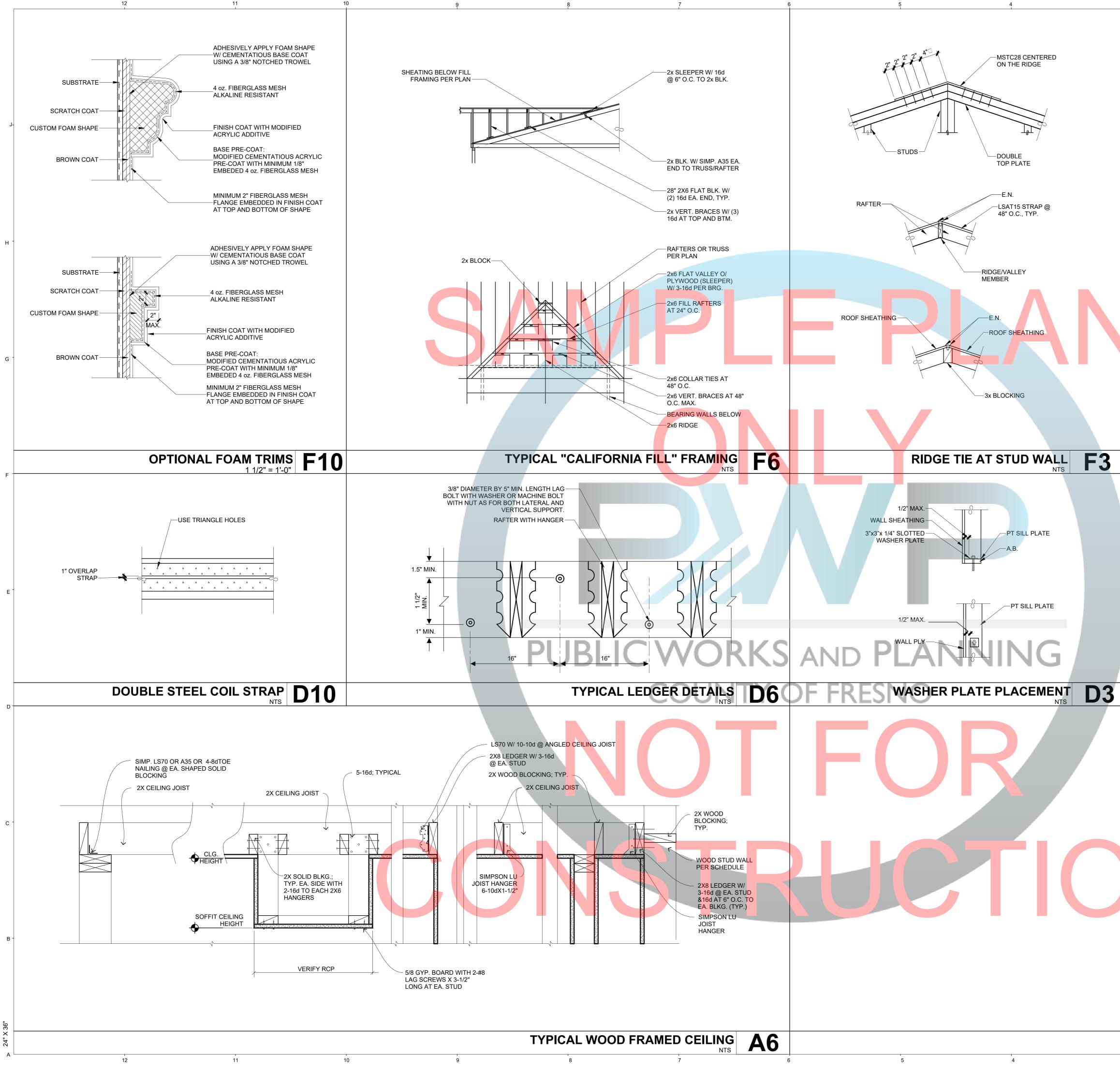
GREEN BUILDING MANDATORY **MEASURES 2**

12" = 1'-0" SCALE

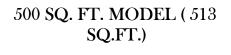
G	BC-2
ISSUE DATE	JOB NUMBER
MARCH 7, 2023	2023_18
DRAWN BY	CHECKED BY
RW	RW

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- 1. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS. 2. ALL WELDING OF STRUCTURAL STEEL MEMBERS SHALL BE DONE BY CURRENTLY
- CERTIFIED WELDERS AND DONE IN CONFORMANCE WITH THE A.I.S.C. AND A.W.S. SPECIFICATIONS. ALL WELDING SHALL BE ACCOMPLISHED USING THE SHIELD METAL ARC WELDING PROCESS (SMAW WITH E7-XX ELECTRODES OF THE SUBMERGED ARC WELDING PROCESS (SAW) WITH E7X-EXXX ELECTRODES OR THE FLUX-CORED ARC WELDING PROCESS (FCAW WITH E7IT-8 ELECTRODES . (E70T-4 ELECTRODES ALLOWED FOR SHOP WELDING ONLY) LOW HYDROGEN ELECTRODES SHALL BE USED AND KEPT DRY, AND PARENT METALS SHALL BE PREHEATED IN ACCORDANCE WITH AWS STANDARDS. NO WELDING PERMITTED ON
- MEMBERS SUPPORTING LOADS. 3. WHERE THE CONTRACTOR REQUESTS WELDING TO BE USED IN LIEU OF BOLTED CONNECTIONS SUCH WELDING SHALL BE DONE ONLY WITH THE ENGINEERS PRIOR APPROVAL.
- 4. HOLES PUNCHED OR DRILLED IN BEAMS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWING: HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN THE NOMINAL DIAMETER OF THE BOLT WHERE CONNECTION IS OF SHEAR TYPE, AND 3/16" LARGER WHERE CONNECTION IS OF BEARING TYPE ON CONCRETE OR MASONRY.
- ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL RECEIVE ONE SHOP COAT OF RED OXIDE OR ZINC CHROMATE OR APPROVED EQUAL BASE. 6. ALL STRUCTURAL & MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:
- A. WIDE FLANGE MEMBERS (W, S, AND HP SHAPES) ARE TO BE ASTM A992 (Fy=50ksi) IN ACCORDANCE WITH AISC.
- CHANNELS, ANGLES, TEES, AND MISCELLANEOUS AISC STEEL SHAPES ARE TO BE ASTM A36. Fy=36 KSI MIN. UNO HIGH STRENGTH BOLTS: ASTM A325N 1/2" TO 1" DIAMETER INCLUSIVE FY=92 KSI. 1 1/8"
- TO 1 1/2" DIAMETER INCLUSIVE FY=81 KSI
- ASTM A-307 BOLTS SHALL BE USED UNLESS OTHERWISE NOTED. STRUCTURAL PIPE SHALL CONFORM TO A.S.T.M. A-53 GRADE "B" Fy=35 KSI. MIN.
- STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE "C" Fy=50 KSI. ANCHOR BOLTS: ASTM A307 TYPICAL.
- HEADED STUDS: ASTM A108.
- WELDING ELECTRODES: E70XX
- ALL PLATES, MISC. SHAPES, AND STRUCTURAL SHAPES (AISC, etc.) USED AS PART OF A CONNECTION, DOUBLER PLATES, CONTINUITY PLATES, ETC. IN THESE PLANS SHALL BE MADE OF EQUAL MATERIAL (MATERIAL PROPERTIES, GRADE, YIELD STRENGTH, ETC.) AS THE MAIN STRUCTURAL MEMEBERS BEING CONNECTED. TYP.
- LIGHT GAUGE COLD-FORMED STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS OF THE AISI - GENERAL - 04 AND AISI - NAS - 01
- LIGHT GAUGE STRUCTURAL STEEL SHALL BE SHAPED AS SHOWN IN THE A.I.S.I. DESIGN MANUAL, UNLESS SPECIFICALLY OTHERWISE CALLED FOR. 9. ALL ENDS OF EXPOSED STRUCTURAL SHAPES AND TUBE STEEL MEMBERS SHALL HAVE 1/4"
- CAP PLATE WITH WELDS GRIND SMOOTH. 10. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL TEMPORARY SUPPORTS REQUIRED
- FOR ERECTION. IF ERECTION BRACING IS REQUIRED IT IS TO BE PREPARED BY A LICENSED ENGINEER. 11. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED
- EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES THE SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE AND THE AWS STRUCTURAL WELDING CODE. 12. GROUTING OF COLUMN BASE PLATES: BASE PLATES SHALL BE DRYPACKED OR GROUTED
- WITH 1 1/2" NON-SHRINK GROUT OR EQUAL. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS. ALL SURFACES SHALL BE PROPERLY CLEANED OF FOREIGN MATERIAL PRIOR TO THE GROUTING OPERATION.
- 13. FULL PENETRATION WELDED CONNECTIONS (100%) AT MOMENT FRAMES, BRACED FRAMES, AND ALL FULL PENETRATIONS FIELD WELDS SHALL HAVE ULTRASONIC TESTING FOR COMPLIANCE WITH AISC 13th EDITION ULTRASONIC TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY THAT HAS BEEN INSPECTED BY THE NATIONAL STANDARDS. TESTING INSPECTIONS SHALL BE QUALIFIED BY ASNT BUREAU OF RECOMMENDED PRACTICE SNT-TC-A1. PROVIDE PROPER SURFACE PREP. AND BACKUP PLATES AS REQUIRED PER AISC AND AWS.
- 14. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC. UNLESS WELDS ARE PERMITTED BY THE PROJECT ARCHITECT.
- 15. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER
- HIGH STRENGTH BOLTS WHERE INDICATED IN THE PLANS OR DETAILED SHALL CONFORM TO A.S.T.M. A325 OR A490, AND BE PROVIDED WITH HARDENED WASHERS CONFORMING TO A.S.T.M. F436. SLIP-CRITICAL TYPE BOLTS (A325-SC OR A490-SC) SHALL BE TWIST-OFF-TYPE TENSION-CONTROL BOLT ASSEMBLY, AT CONTRACTORS OPTION, THE COMBINATION OF HIGH STRENGTH BOLTS AND DIRECT TENSION LOAD INDICATING WASHERS CONFORMING TO ASTM F-959 ARE ACCEPTABLE SUBSTITUTIONS. CONTACT SURFACES SHALL BE CLEAN MILL SCALE OR CLASS A QUALIFIED COATINGS.
- ALL SHOP AND FIELD BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH ASTM A-307 USING UNFINISHED AMERICAN STANDARD REGULAR BOLTS, UNLESS OTHERWISE NOTED. WHERE STEEL MEMBERS BEAR IN CONCRETE OR MASONRY WALLS, OPENINGS SHALL BE DRY-PACKED AFTER STEEL IS IN PLACE.
- PROVIDE SHOP DRAWINGS INDICATING SIZES, SPACING AND LOCATION OF JOISTS GIRDERS, CONNECTIONS, BRIDGING, REINFORCING, ANCHORAGES, CAMBERS, AND LOADS. INDICATE WELDING CONNECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NEW WELD LENGTHS. INDICATE RECOMMENDED PROCEDURES FOR JOIST SEATS WITH UNSUFFICIENT BEARING.





ACCESSORY **DWELLING UNIT**

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 12, 2023

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TYPICAL STRUCTURAL DETAILS

SCALE

As indicated

	S-102
ISSUE DATE	JOB NUMBER
MARCH 7, 2023	2023_18
DRAWN BY	CHECKED BY
Author	Checker

GENERAL STUCTURAL STEEL NOTES A1 NTS

NOMINAL	DESCRIPTION ^{a,b} OF FASTENER	SPACING ^c (OF FASTENE
MATERIAL THICKNESS (inches)	AND LENGTH (inches)	EDGES (inches)	INTERMIE SUPPOF (inche
WOOD	STRUCTURAL PANELS SUBFLOOR, ROOF AND WALL AND PARTICLEBOARD WALL SHEATHING TO		FRAMING
UP TO 1/2	STAPLE 15 GA. 13/4 0.097 - 0.099 NAIL 21/4	4	8
01 10 1/2	STAPLE 16 GA. 13/4	3	6
	0.113 NAIL 2	3	6
19/32 AND 5/8	STAPLE 15 AND 16 GA. 2 0.097 - 0.99 NAIL 21/4	4	8
	STAPLE 14 GA. 2	4	8
23/32 AND 3/4	STAPLE 15 GA. 13/4	3	6
	0.097 - 0.099 NAIL 21/4	4	8
	STAPLE 16 GA. 2 STAPLE 14 GA. 21/4	4	8
I	0.113 NAIL 21/4	3	6
I	STAPLE 15 GA. 21/4	4	8
	0.097 - 0.099 NAIL 21/2	4	8
NOMINAL MATERIAL	DESCRIPTION ^{a,b} OF FASTENER	SPACING ^c C	
THICKNESS (inches)	AND LENGTH (inches)	EDGES (inches)	BODY PANE (inche
FLOOR	, UNDERLAYMENT; PLYWOOD-HARDBOARD-PARTICL	EBOARD ^f -FIBEF	R-CEMENT ^h
	FIBER-CEMENT		
	3D, CORROSION-RESISTANT, RING SHANK NAILS (FINISHED FLOORING OTHER THAN TILE)	3	6
	STAPLE 18 GA., 7/8 LONG, 1/4 CROWN (FINISHED FLOORING OTHER THAN TILE)	3	6
1/4 1 1/4 LONG	X .121 SHANK x .375 HEAD DIAMETER CORROSION-RE	SISTANŢ	8
(GALVANI	ZED OR STAINLESS STEEL) ROOFING NAILS (FOR TILE ,NO. 8 x .375 HEAD DIAMETER, RIBBED WAFER- HEAD	FINISH)	8
1 1/4 LONG	(FOR TILE FINISH)	BUREWg	0
	PLYWOOD	1	
1/4 AND 5/16	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099") SHANK DIAMETER	3	6
	STAPLE 18 GA., 7/8, 3/16 CROWN WIDTH	2	5
11/32, 3/8, 15/32, AND 1/2	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099") SHANK DIAMETER	6	8 ^e
19/32, 5/8, 23/32	1 1/2 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099") SHANK DIAMETER	6	8
AND 3/4	STAPLE 16 GA. 1 1/2	6	8
	HARDBOARD ^f		
	1 1/2 LONG RING- GROOVED UNDERLAYMENT NAIL	6	6
0.200	4D CEMENT-COATED SINKER NAIL STAPLE 18 GA., 7/8 LONG (PLASTIC COATED)	6	6
	PARTICLEBOARD	0	
1/4	4D RING-GROOVED UNDERLAYMENT NAIL STAPLE 18 GA., 7/8 LONG, 3/16 CROWN	3	6
3/8	6D RING-GROOVED UNDERLAYMENT NAIL	6	10
5/0	STAPLE 16 GA., 1 1/8 LONG, 3/8 CROWN	3	6
1/2, 5/8	6D RING-GROOVED UNDERLAYMENT NAIL STAPLE 16 GA., 1 5/8 LONG, 3/8 CROWN	6	10 6
			I
NOTED.	HALL HAVE A MINIMUM CROWN WIDTH OF 7/16-INCH O		
	WHERE SPANS ARE 48 INCHES OR GREATER. NAILS C NOT MORE THAN 12 INCHES ON CENTER AT INTERMI		
e. FOR 5-PLY F	S SHALL BE PLACE IN A FRID PATTERN THROUGHOUT PANELS, INTERMIDIATE NAILS SHALL BE SPACED NOT		
	D UNDERLAYMENT SHALL CONFORM TO CPA/ANSI A1		
WHERE THE	ALTERNATE ATTACHEMENTS FOR ROOF SHEATHING S E ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 M	PH. FASTENERS	3
SHALL BE IN	WOOD STRUCTURAL PANEL ROOF SHEATHING TO GA	DGES.	
h. FIBER-CEME C.	ENT UNDERLAYMENT SHALL CONFORM TO ASTM C 12	00 UK 15U 0330,	CATEGORY

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TABLE R702.3.5 MINIMUM THICKNESS AND APPLICATION OF GYPSUM BOARD AND **GYPSUM PANEL**

	_			
HICKNESS F GYPSUM BOARD OR GYPSUM PANEL PRODUCTS (inches)	APPLICATION	ORIENTATION OF GYPSUM BOARD OR GYPSUM PANEL PRODUCT TO FRAMING	MAXIMUM SPACING OF FRAMING MEMBERS (inches O.C.)	N
		APPLICATION W	ITHOUT AD	ΗE
0/0	CEILING d	PERPENDICULAR	16	
3/8	WALL	EITHER DIRECTION	16	
	CEILING	EITHER DIRECTION	16	
1/2	CEILING d	PERPENDICULAR	24	
1/2	WALL	EITHER DIRECTION	24	
	WALL	EITHER DIRECTION	16	
	CEILING	EITHER DIRECTION	16	
	CEILING	PERPENDICULAR	24	
5/8	TYPE X AT GARAGE BENEATH HABITABLE ROOMS	PERPENDICULAR	24	
	WALL	EITHER DIRECTION	24	
	WALL	EITHER DIRECTION	16	
		APPLICATION		SIV
	CEILING d	PERPENDICULAR	16	
3/8	WALL	EITHER DIRECTION	16	
	CEILING	EITHER DIRECTION	16	
1/2 OR 5/8	CEILING d	PERPENDICULAR	24	
	WALL	EITHER DIRECTION	24	
TMO 2/2	CEILING	PERPENDICULAR	16	
TWO 3/8 LAYERS	WALL	EITHER DIRECTION	24	
OR SI: 1 inch	a = 25.4 mm.			

FOR SI: 1 inch = 25.4 mm.

- FOR APPLICATION WITHOUT ADHESIVE, A PAIR OF NAILS SPACED BE PERMITTED TO BE USED WITH THE PAIR OF NAILS SPACED 12 IN SCREWS SHALL BE IN ACCORDANCE WITH SECTION R702.3.5.1. SC
- STRUCTURAL INSULATED PANELS SHALL PENETRATE THE WOOD WHERE COLD FORMED STEEL FRAMING IS USED WITH A CLINCHING NOT LESS THAN 5/8 INCH LONGER THAN THE GYPSUM BOARD OR
- WHERE THE COLD-FORMED STEEL FRAMING HAS A NAILING GROO OR BE 5D, 13 1/2 GAGE, 15/8 INCHES LONG, 15/64-INCH HEAD FOR 1 13 GAGE, 17/8 INCHES LONG, 15/64-INCH HEAD FOR 5/8-INCH GYPS THREE-EIGHTHS-INCH-THICK SINGLE-PLY GYPSUM BOARD OR GY
- WATER-BASED TEXTURED FINISH IS TO BE APPLIED, OR WHERE I APPLICATIONS TO RECIEVE A WATER-BASED TEXTURE MATERIAL PRODUCT SHALL BE APPLIED PERPENDICULAR TO FRAMING. WHE BOARD THICKNESS SHALL BE INCREASED FROM 3/8 INCH TO 1/2 IN FOR 24-INCH ON CENTER FRAMING OR 1/2-INCH SAG-RESISTANT (

TABLE R602.3(3) REQU STRUCTURAL PANEL WA **RESIST WIND**

MINIMU	JM NAIL	MINIMUM WOOD STRUCTURAL	MINIMUM NOMINAL PANEL	MAXII WA STL
SIZE	PENETRATION (inches)		THICKNESS (inches)	SPAC (inch
6d COMMON (2.0" x 0.113")	1.5	24/0	3/8	3/8
8d COMMON	1.75	24/16	7/16	7/1
(2.5" x 0.131")		24/10	1110	7/1

- FOR SI: 1 inch = 25.4 mm, 1 MILE PER HOUR = 0.447 m/s a. PANEL STRENGTH AXIS PARALLEL OR PERPENDICULAR TO SUPPORT ON CENTER SHALL BE APPLIED WITH PANEL STRENGTH AXIS PERPEN
- . TABLE I<mark>S BA</mark>SED ON WIND PRESSURES ACTING TOWARD AND AWAY F BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION
- . WOOD STRUCTURAL PANELS WITH SPAN RATINGS OF WALL-16 OR WA SPAN RATING. PLYWOOD SIDING RATED 16 O.C. OR 24 O.C. SHALL BE P AND PLYWOOD SIDING 16 O.C. SHALL BE USED WITH STUDS SPACED N

TABLE R602.3(4) ALLOWA PARTICLE BOARD WAL

THICKNESS	GRADE	STUD S
(inches)		WHEN SIDING IS NAILED TO STUDS
3/8	M-1 EXTERIOR GLUE	16
1/2	M-2 EXTERIOR GLUE	16
FOR SI: 1 inch	= 25.4 mm.	
a. WALL SHEATHI	NGNOT EXPOSED TO THE	WEATHER. IF THE PANELS ARE APPLIE

LESS THAN 3/8 INCH FROM PANEL EDGES.

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		DARD A	ND		ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS ^{a,b,c}	SPACING AND LOCATION
MUM CING F WING	M/ SP/ FAS	AXIMUM ACING OF STENERS	SIZE OF NAILS FOR APPLICATION	-	1	BLOCKING BETWEEN CEILING JOIST OR RAFTERS TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131 NAILS	TOE NAIL
BERS ches C.)	NAILS	a SCREWS	TO WOOD FRAMING⁰		2	CEILING JOIST TO TOP PLATE	4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131 NAILS	PER JOIST TOE NAIL
6	TESIVE	12	13 GAGE, 1 1/4" LONG, 19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED; OR 4d COOLER NAIL,	-	3	CEILING JOIST NOT ATTACHED TO PARALLERL RAFTERS, LAPS OVER PARTITION [SEE SECTION R802.31, R802.3.2 AND TABLE R802.5.1 (9)]	4-10d BOX (2 1/2" x 0.113") OR 3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	FACE NAIL
6	8	16 12	0.080" DIAMETER, 13/8" LONG, 7/32" HEAD. 13 GAGE, 13/8" LONG,		4	CEILING JOIST ATTACHE TO PARALLEL RAFTER (HEEL JOINT) [SEE SECTION R802.31 AND R802.3.2 AND TABLE R802.5.1 (9)]	TABLE R802.51 (9)	FACE NAIL
4	7	12	19/64" HEAD; 0.098" DIAMETER, 1 1/4" LONG, ANNULAR-RINGED; OR 5d COOLER NAIL, 0.086"		5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20ga. RIDGE STRAP TO RAFTER	4-10d BOX (3" x 0.128") OR 3-10d COMMON (3" x 0.148"); OR 4-3" x 0.131 NAILS	FACE NAIL EA. RAFTER
4	8	12	DIAMETER, 15/8" LONG, 15/64" HEAD; OR GYPSUM BOARD NAIL, 0.086" DIAMETER, 15/8" LONG, 9/32" HEAD.		6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX (3 1/2" x 0.135") OR 3-10d COMMON NAILS (3 1/2" x 0.148"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
6	8	16	13 GAGE, 15/8" LONG, 19/64" HEAD; 0.098" DIAMETER, 13/8"	-			4-16d BOX (3 1/2" x 0.135") OR 3-10d COMMON NAILS (3 1/2" x 0.148"); OR	TOE NAIL
4	7		LONG, ANNULAR-RINGED; OR 6d COOLER NAIL, 0.092" DIAMETER, 17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMETER, 17/8" LONG, 19/64" HEAD.		7	ROOF RAFTERS TO RIDGR, VALLET OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS 3-16d BOX (3 1/2" x 0.135") OR 3-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL
4	6	6	17/8" LONG 6d COATED NAILS OR EQUIVALENT DRYWALL SCREWS. SCREWS SHALL COMPLY WITH SECTION R702.3.5.1		8	STUD TO STUD (NOT AT BRACED WALL PANELS)	3-3 X 0.131 NAILS WALL 16d COMMON (3 1/2" x 0.162")	24" O.C. FACE NAIL
4	8	12	13 GAGE, 15/8" LONG, 19/64" HEAD; 0.098" DIAMETER, 13/8" LONG, ANNULAR-RINGED;		-		10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS 16d BOX (3 1/2" x 0.135"); OR	16" O.C. FACE NAIL
6	8	16	6d COOLER NAIL, 0.092" DIAMETER, 17/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIAMTER,		9	STUD TO STUD AND ABUTTING STUDS AR INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d BOX (3 1/2 X 0.135), OK 3" x 0.131" NAILS 16d COMMON (3 1/2" x 0.162")	12" O.C. FACE NAIL 16" O.C. FACE NAIL
ADHE	SIVE		17/8" LONG, 19/64" HEAD.		10	BUILT-IP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16d COMMON (3 1/2" x 0.162") 16d BOX (3" x 0.135")	16" O.C. EACH EDGE FACE NAIL 12" O.C. EACH EDGE
6	16	16	SAME AS ABOVE FOR 3/8" GYPSUM BOARD AND GYPSUM BOARD AND GYPSUM		11	CONTINOUSE HEADER TO STUD	5-8d BOX (2 1/2" x 0.113") OR 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"	FACE NAIL
6	16	24	PANEL PRODUCTS.		12	TOP PLATE TO TOP PLATE	16d COMMON (3 1/2" x 0.162") 10d BOX (3" x 0.128"); OR	16" O.C. FACE NAIL
6 4	16 12	16 16	SAME AS ABOVE FOR 1/2" AND 5/8" GYPSUM BOARD AND GYPSUM PANEL PRODUCTS, RESPECTIVELY			DOUBLE TOP PLATE SPLICE FOR SDCs A-D2 WITH SEISMIC BRACED WALL LINE SPACING <25'	3" x 0.131" NAILS 8-16d BOX (3 1/2" x 0.162") OR 12-16d BOX (3 1/2" x 0.135"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131 NAILS	12" O.C. FACE NAIL PER JOIST TOE NAIL
4	16	24			13	DOUBLE TOP PLATE SPLICE FOR SDCs D0, D1, D2, AND		FACE NIAL ON EACH SIDE OF END JOINT (MIN. 24" LAP
6	16	16	BASE PLY NAILED AS ABOVE FOR 1/2" GYPSUM BOARD AND GYPSUM PANEL PRODUCTS;		2	BRACED WALL LINE SPACING >25'	12-16d (3 1/2" x 0.135") 16d COMMON (3 1/2" x 0.162")	SPLICE LENGTH EACH SIDE OF END JOINT) 16" O.C. FACE NAIL
4	24	24	FACE PLY INSTALLED WITH ADHESIVE.		14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL
NCHES (ON CENTE	ER.	OR MORE THAN 2 1/2 INCHES APART SHALL		15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	3" EA. 16" O.C. FACE NAIL 2" EA. 16" O.C. FACE NAIL —4" EA. 16" O.C. FACE NAIL
STRICTU G DESIG GYSUM I VE FOR /2-INCH	IRAL PAN IN TO REC PANEL PF MED TO F GYSPUM	EL FACING NOT CIEVE NAILS BY RODUCT THICKN RECIEVE THE NA	BOARD OR GYPSUM PANEL PRODUCTS TO LESS THAN 7/16 INCH. TWO EDGES OF METAL, THE NAILS SHALL BE ESS AND SHALL HAVE RINGED SHANKS. ILS, THE NAILS SHALL HAVE BARBED SHANKS SUM PANEL PRODUCT; AND 6D, RODUCT.	F	16	TOP OR BOTTOM PLATE TO STUD	4-8d BOX (2 1/2" x 0.113") OR 3-16d BOX (3 1/2" x 0.135"); OR 4-8d COMMON (2 1/2" x 0.131"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131 NAILS 3-16d BOX (3 1/2" x 0.135") OR	
SUM PA WILL BE EITHER	NEL PRO REQUIR HAND OF	DUCT SHALL NO ED TO SUPPORT & SPRAY APPLIEI	T BE USE ON A CEILING WHERE A INSULATION ABOVE A CEILING. ON CEILING D, THE GYPSUM BOARD OR GYPSUM PANEL EXTURE MATERIAL, THE MINIMUM GYPSUM		Т		2-16d COMMON (3 1/2" x 0.162"); OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL
ICH FOR	16-INCH		MING, AND FROM 1/2 INCH TO 5/8 INCH		17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" x 0.128") OR 2-16d COMMON (3 1/2" x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL
۱LL	SHE		R WOOD USED TO	_	18	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES 1 3/4"	FACE NAIL
ST SPA	UD CING	PANEL NA SPACING EDGES (inches o.c.)		-	19	1" x6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" x 0.113") OR 2-8d COMMON (2 1/2" x 0.113"); OR 2-10d BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	FACE NAIL
3,	/8 16	16 16	12 140 115 110 12 170 140 135				3-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.113"); OR 3-10d BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	
I S. THRE	16 E-PLY PL R TO SUF		12 140 115 110		20	1" x 8" WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" x 8" 4-8d BOX (2 1/2" x 0.113") OR 3-8d COMMON (2 1/2" x 0.131"); OR	FACE NAIL
R602.10			CORDANCE WITH SECTION R301.2. LATERAL				3-10d BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16ga. 1 3/4" LONG	
PERMIT	T <mark>ED </mark> AS A		AN ALTERNATE TO PANELS WITH A 24/0 O PANELS WITH A 24/16 SPAN RATING. WALL-16 ENTER.					
		PANS FO	DR					
		NG (inches)]				
O STUDS	5	WHEN SIDING	G IS NAILED TO SHEATHING	-				

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LIED HORIZONTALLY, THE END JOINTS OF THE PANEL SHALL BE OFFSET SO THAT FOUR PANEL CORNERS WILL NOT MEET. ALL PANEL EDGES MUST BE SUPPORTED. LEAVE A 1/16-INCH GEP BETWEEN PANELS AND NAIL NOT

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	02.3 (1) FASTENI						00.00	
ND TYPE NERS ^{a,b,c}	SPACING AND LOCATION	ІТЕМ	DESCRIPTION OF BU ELEMENTS	UILDING	NUMBER AND OF FASTENE			NG AND ATION
3") OR (0.131"); OR	TOE NAIL				FLOOR			
; OR 3") OR		21	JOIST TO SILL, TOP PLATE OR GI	IRDER	4-8d BOX (2 1/2" x 0.113") OF 3-8d COMMON (2 1/2" x 0.13 3-10d BOX (3" x 0.128"); OR -3-3" x 0.131 NAILS	1"); OR T	oe nail	
(0.131"); OR ; OR	PER JOIST TOE NAIL	22	RIM JOIST, BAND JOIST OR BLOO PLATE (ROOF APPLICATIONS ALS	CKING TO SILL OR T SO)	8d BOX (2 1/2" x 0.131") OF ₈ d COMMON (2 1/2" x 0.131") 10d BOX (3" x 0.128"); OR -3" x 0.131" NAILS	OR	" O.C. TOE N " O.C. TOE N	
13") OR x 0.162"); OR ; OR	FACE NAIL	23	1" x 6" SUBFLOOR OR LESS TO E	ACH JOIST	3-8d BOX (2 1/2" x 0.113") OF 2-8d COMMON (2 1/2" x 0.13 3-10d BOX (3" x 0.128"); OR	1"); OR F	ACE NAIL	
		24	2" SUBFLOOR TO JOIST OR GIRD	DER	2 STAPLES, 1" CROWN, 16g: 3-16d BOX (3" x 0.135") OR 2-16d COMMON (3 1/2" x 0.16	E	BLIND AND FA	ACE NAIL
	FACE NAIL	25	2" PLANLKS (PLANK & BEAM - FL	OOR & ROOF)	3-16d BOX (3" x 0.135") OR 2-16d COMMON (3 1/2" x 0.10 3-16d COMMON (3 1/2" x 0.10	52")	AT EACH BEA	ARING FACE NAIL
OR 148"); OR	FACE NAIL EA. RAFTER	26	BAND OR RIM JOIST TO JOIST		4-10d BOX (3" x 0.128"); OR 4-3 x 0.131" NAILS; OR -4-3 x 14ga. STAPLES, 7/16" (ROWN	end nail	
35") OR (3 1/2" x 0.148"); OR ; OR	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS				20d COMMON (4" x 0.192")	F A	AND BOTTON	2" O.C. AT TOP // AND
35") OR (3 1/2" x 0.148"); OR	TOE NAIL	27	BUILT-UP GIRDERS AND BEAMS,	2" LUMBER LAYERS	3" x 0.131" NAILS	A		E NAIL AT TOP // STAGGERED ON DES
; OR 35") OR					AND 2-20d COMMON (4" x 0.192") 3-10d BOX (3" x 0.128"); OR	; OR A	FACE NAIL AT AT EACH SPL	
x 0.162"); OR ; OR	END NAIL	28	LEDGER STRIP SUPPORTING JO	ISTS OR RAFTERS	4-16d BOX (3 1/2" x 0.135") C 3-16d COMMON (3 1/2" x 0.16 4-10d BOX (3" x 0.128"); OR 4-3 x 0.131" NAILS	32"\· OP	AT EACH JOIS FACE NAIL	ST OR RAFTER,
		29	BRIDGING TO JOIST		2-10d (3" x 0.128")	E	EACH END, T	OE NAIL
0.162")	24" O.C. FACE NAIL 16" O.C. FACE NAIL						SPAC	ING OF
	10 U.C. FACE NAIL	ІТЕМ	DESCRIPTION OF BU	UILDING	NUMBER AND OF FASTENE		FAST	
;"); OR	12" O.C. FACE NAIL	┨┝───					(inches)	SUPPORTS (inches)
0.162")	16" O.C. FACE NAIL 16" O.C. EACH EDGE		NOOD STRUCTURAL PANELS, SUB EATHING TO FRAMING (SEE TABLE					ARD WALL
,	FACE NAIL 12" O.C. EACH EDGE FACE NAIL	30	3/8" - 1/2"		6d COMMON (2" x 0.113") N (SUBFLOOR, WALL) 8d COMMON (2 1/2" x 0.131	") NAIL (ROOF)	6"	12"
3") OR (0.131"); OR	TOE NAIL	31	10/32" - 1"		8d COMMON NAIL (2 1/2" x 10d COMMON NAIL (3" x 0.1	,	6" 6"	12"
0.162")	16" O.C. FACE NAIL		1 1/8" - 1 1/4"		8d (2 1/2" x 0.131") NAIL (RC		0	12
DR	12" O.C. FACE NAIL							
62") OR 135"); OR "); OR	PER JOIST TOE NAIL	33	1/2" STRUCTURAL CELLULOSIC F		1 1/4" LONG		3"	6"
	FACE NIAL ON EACH SIDE OF END JOINT (MIN. 24" LAP	34	25/32" STRUCTURAL CELLULOSIC	C FIBERBOARD SHE	1 1/4" LONG 1 1/2" GALANIZED ROOFIN		3"	6"
0.162")	SPLICE LENGTH EACH SIDE OF END JOINT) 16" O.C. FACE NAIL	35	1/2" GYPSUM SHEATHING 5/8" GYPSUM SHEATHING		GALVANIZED 1 1/2" LONG, 1 1/4" SCREW 1 3/4" GALANIZED ROOFIN		7"	7"
"); OR	12" O.C. FACE NAIL			AL PANELS, COMBI	GALVANIZED 1 5/8" LONG, 1 5/8" SCREW NATION SUBFLOOR UNDER L	·	7" G	7"
"); OR 	3" EA. 16" O.C. FACE NAIL 2" EA. 16" O.C. FACE NAIL 4" EA. 16" O.C. FACE NAIL	37	3/4" AND LESS		6d DEFORMED (2" x 0.120") 8d COMMON (2 1/2" x 0.131	") NAIL	6"	12"
35 [°]); OR (0.131"); OR ; OR	TOE NAIL	38	7/8" - 1" 1 1/8" - 1 1/4"		8d COMMON (2 1/2" x 0.131 8d DEFORMED (2 1/2" x 0.13 10d COMMON (3" x 0.148")	20") NAIL NAIL; OR	6" 6"	12"
35") OR x 0.162"); OR	END NAIL		 : 1 inch = 25.4 mm, 1 FOOT = 304.8n AILS ARE SMOOTH-COMMON, BOX (,	,)a.	USED FOR F	L
; OR OR		CC (21 DI	ONNECTIONS SHALL HAVE MINIMUN Od COMMON NAIL), 90 KSI FOR SHA AMETERS OF 0.142 INCH OR LESS. FAPLES ARE 16 GAGE WIRE AND HA	M AVERAGE BENDIN NK DIAMETERS LAF	IG YIELD STRENGTHS AS SHO RGER THAN 0.142 INCH BUT NO	WNI: 80 KSI FOR SHA OT LARGER THAN 0.1	NK DIAMETE	ER OF 0.192 INCH
x 0.162"); OR	FACE NAIL	c. NA d. FC e. SF	AILS SHALL BE SPACED AT NOT MO DUR-FOOT BY 8-FOOT OR 4-FOOT B PACING OF FASTENERS NOT INCLU HERE THE ULTIMATE DESIGN WIND	ORE THAN 6 INCHES BY 9-FOOT PANELS IDED IN THIS TABLE	ON CENTER AT ALL SUPPOR SHALL BE APPLIED VERTICAL SHALL BE BASED ON TABLE	TS WHERE SPANS AR _Y. R602.3(2).		
3") OR (0.113"); OR ; OR	FACE NAIL	GABL NAILS DIST/ g. G` CC	LE END WALL FRAMING SHALL BE S S FOR ATTACHING PANEL ROOF SH ANCE FROM RIDGES, EAVES AND G YPSUM SHEATHING SHALL CONFOF DNFORM TO ASTM C 208.	SPACED 6 INCHES O HEATHING TO INTER GABLE END WALLS; RM TO ASTM C 1396	N CENTER. WHERE THE U;TIN MEDIATE SUPPORTS SHALL E AND 4 INCH ON CENTER TO G AND SHA BE INSTALLED IN A	IATE DESIGN WIND S BE SPACED 6 IMCHES ABLE END WALL FRA CCORDANCE WITH G	PEED IS GRE S ON CENTEF MING. A 253. FIBER	EATER THAN 130 MPH, R FOR MINIMUM 48-INCH RBOARD SHEATHING SHALL
3") O <mark>R</mark> (0.113"); OR ; OR I, 16ga. 1 3/4" LONG	FACE NAIL	BL SU TH SU	PACING OF FASTENERS ON FLOOR LOCKING AND AT ALL FLOOR PERIN JPPORTED BY FRAMING MEMBERS HE FRAMING MEMBERS NEED NOT I JPPORTED BY FRAMING MEMBERS HERE A RAFTER IS FASTENED TO A	AND REQUIRED BL AND REQUIRED BL BE PROVIDED EXCE OR SOLID BLOCKIN	CING OF FASTENERS ON ROC OCKING. BLOCKING OF ROOF EPT AS REQUIRED BY OTHER IG.	F SHETHING PANEL E OR FLOOR SHEATHI PROVISIONS OF THIS	EDGES APPL NG PANEL E S CODE. FLOO	IES TO PANEL EDGES DGES PERPENDICULAR TO OR PERIMETER SHALL BE
3") OR (0.113"); OR ; OR I, 16ga. 1 3/4" LONG		ON O	NE SIDE OF THE RAFTER AND TO A OPPOSITE SIDE OF THE RAFTER SH	NAILS FROM THE C	EILING JOIST TO TOP PLATE		,	
3") OR (0.131"); OR ; OR	FACE NAIL				(2) SINGLE TO NNECTION DE			
I, 16ga. 1 3/4" LONG			CONDITION		TOP - PLATE SPLICE		DETAILS	
			RUCTUR <mark>E IN</mark> SDC D0, D1A AND D2, WITH RACED WALL LINE SPACING	CORNERS A	ND INTERSECTING		OINTS IN A GHT WALL	
			GREATER THAN OR EQUAL TO 25 FEET	SPLICE PLATE SI	SIDE OF JOINT	SPLICE PLATE SIZ		M NAILS EACH E OF JOINT
		STRU	ICTURE IN SDC A-C; AND IN SDC	3" x 6" x 0.036"	(6) 8d BOX	3" x 12" x 0.036"	. (12	2) 8d BOX

2

FASTENING SCHEDULE

500 SQ. FT. MODEL (513

SQ.FT.)

OPTION

#1

DWELLING UNIT

DEPARTMENT OF PUBLIC

WORKS AND PLANNING

CAPITAL PROJECTS

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879

RENEWAL DATE

06/30/2025

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OF CAL

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DIVISION

SEAL & SIGNATURE

STATE

JULY 12, 2023

UPDATE

ACCESSORY

PROJECT

PWP23-003

(RESIDENTIAL) SCALE 12" = 1'-0"

(2[`]1/2" x 0.113")

NAILS

(18) 8d BOX

(2 1/2" x 0.113") NAILS

C

GALVANIZED STEEL

PLATE OR

EQUIVALENT

3" x 16" x 0.036"

GALVANIZED STEEL

PLATE OR

EQUIVALENT

(2 1/2" x 0.113")

NAILS

(9) 8d BOX

(2 1/2" x 0.113")

NAILS

	S-103
ISSUE DATE	JOB NUMBER
MARCH 7, 2023	2023_18
DRAWN BY	CHECKED BY
Author	Checker

FOR SI: 1 inch = 25.4 mm, 1 FOOT = 304.8 mm.

3

SPACING LESS THAN 25 FEET

D0, D1 AND D2 WITH BRACED WALL LINE GALVANIZED STEEL

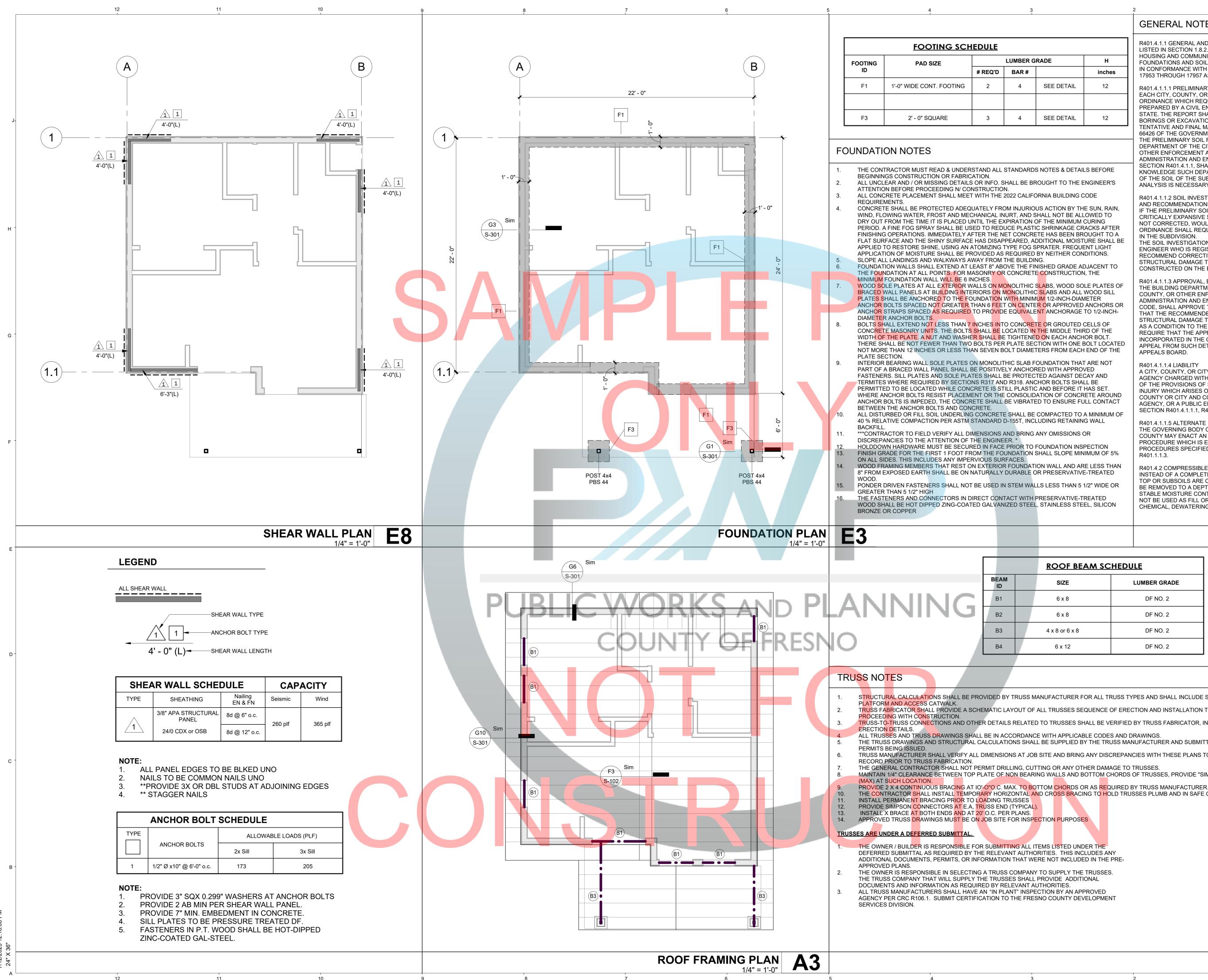
PLATE OR

EQUIVALENT

3" x 8" x 0.036"

GALVANIZED STEEL

PLATE OR EQUIVALENT



RG	RADE	Н
#		inches
	SEE DETAIL	12
	SEE DETAIL	12

GENERAL NOTES

R401.4.1.1 GENERAL AND WHERE REQUIRED FOR APPLICATIONS LISTED IN SECTION 1.8.2.1.1 REGULATED BY THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT FOUNDATIONS AND SOILS INVESTIGATIONS SHALL BE CONDUCTED IN CONFORMANCE WITH HEALTH AND SAFETY CODE SECTIONS 17953 THROUGH 17957 AS SUMMARIZED BELOW.

R401.4.1.1.1 PRELIMINARY SOIL REPORT EACH CITY, COUNTY, OR CITY AND COUNTY SHALL ENACT AN ORDINANCE WHICH REQUIRES A PRELIMINARY SOIL REPORT, PREPARED BY A CIVIL ENGINEER WHO IS REGISTERED BY THE STATE. THE REPORT SHALL BE BASED UPON ADEQUATE TEST BORINGS OR EXCAVATIONS, OF EVERY SUBDIVISION, WHERE A TENTATIVE AND FINAL MAP IS REQUIRED PURSUANT TO SECTION 66426 OF THE GOVERNMENT CODE. THE PRELIMINARY SOIL REPORT MAY BE WAIVED IF THE BUILDING

DEPARTMENT OF THE CITY, COUNTY OR CITY AND COUNTY, OR OTHER ENFORCEMENT AGENCY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE PROVISIONS OF SECTION R401.4.1.1, SHALL DETERMINE THAT, DUE TO THE KNOWLEDGE SUCH DEPARTMENT HAS AS TO THE SOIL QUALITIES OF THE SOIL OF THE SUBDIVISION OR LOT, NO PRELIMINARY ANALYSIS IS NECESSARY.

R401.4.1.1.2 SOIL INVESTIGATION BY LOT, NECESSITY, PREPARATION AND RECOMMENDATIONS IF THE PRELIMINARY SOIL REPORT INDICATES THE PRESENCE OF CRITICALLY EXPANSIVE SOILS OR OTHER SOIL PROBLEMS WHICH, IF NOT CORRECTED, WOULD LEAD TO STRUCTURAL DEFECTS, SUCH ORDINANCE SHALL REQUIRE A SOIL INVESTIGATION OF EACH LOT IN THE SUBDIVISION. THE SOIL INVESTIGATION SHALL BE PREPARED BY A CIVIL

ENGINEER WHO IS REGISTERED IN THIS STATE. IT SHALL RECOMMEND CORRECTIVE ACTION WHICH IS LIKELY TO PREVENT STRUCTURAL DAMAGE TO EACH DWELLING PROPOSED TO BE CONSTRUCTED ON THE EXPANSIVE SOIL.

R401.4.1.1.3 APPROVAL, BUILDING PERMIT CONDITIONS, APPEAL THE BUILDING DEPARTMENT OF EACH CITY, COUNTY OR CITY AND COUNTY, OR OTHER ENFORCEMENT AGENCY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE PROVISIONS OF THIS CODE, SHALL APPROVE THE SOIL INVESTIGATION IF IT DETERMINES THAT THE RECOMMENDED ACTION IS LIKELY TO PREVENT STRUCTURAL DAMAGE TO EACH DWELLING TO BE CONSTRUCTED. AS A CONDITION TO THE BUILDING PERMIT, THE ORDINANCE SHALL REQUIRE THAT THE APPROVED RECOMMENDED ACTION BE INCORPORATED IN THE CONSTRUCTION OF EACH DWELLING. APPEAL FROM SUCH DETERMINATION SHALL BE TO THE LOCAL APPEALS BOARD.

R401.4.1.1.4 LIABILITY

A CITY, COUNTY, OR CITY AND COUNTY OR OTHER ENFORCEMENT AGENCY CHARGED WITH THE ADMINISTRATION AND ENFORCEMENT OF THE PROVISIONS OF SECTION R401.4.1.1, IS NOT LIABLE FOR ANY INJURY WHICH ARISES OUT OF ANY ACT OR OMISSION OF THE CITY, COUNTY OR CITY AND COUNTY, OR OTHER ENFORCEMENT AGENCY, OR A PUBLIC EMPLOYEE OR ANY OTHER PERSON UNDER SECTION R401.4.1.1.1, R401.4.1.1.2 OR R401.4.1.1.3.

R401.4.1.1.5 ALTERNATE PROCEDURES THE GOVERNING BODY OF ANY CITY, COUNTY, OR CITY AND COUNTY MAY ENACT AN ORDINANCE PRESCRIBING AN ALTERNATE PROCEDURE WHICH IS EQUAL TO OR MORE RESTRICTIVE THAN THE PROCEDURES SPECIFIED IN SECTIONS R401.4.1.1.1, R401.4.1.1.2 AND R401.1.1.3.

R401.4.2 COMPRESSIBLE OR SHIFTING SOIL INSTEAD OF A COMPLETE GEOTECHNICAL EVALUATION, WHERE TOP OR SUBSOILS ARE COMPRESSIBLE OR SHIFTING, THEY SHALL BE REMOVED TO A DEPTH AND WIDTH SUFFICIENT TO ENSURE STABLE MOISTURE CONTENT IN EACH ACTIVE ZONE AND SHALL NOT BE USED AS FILL OR STABILIZED WITHIN EACH ACTIVE ZONE BY CHEMICAL, DEWATERING OR PRESATURATION.

	ROOF BEAM SO	CHEDULE
	SIZE	LUMBER GRADE
	6 x 8	DF NO. 2
Į	6 x 8	DF NO. 2
	4 x 8 or 6 x 8	DF NO. 2
	6 x 12	DF NO. 2

STRUCTURAL CALCULATIONS SHALL BE PROVIDED BY TRUSS MANUFACTURER FOR ALL TRUSS TYPES AND SHALL INCLUDE SUPPORT FOR MECHANICAL UNIT, TRUSS FABRICATOR SHALL PROVIDE A SCHEMATIC LAYOUT OF ALL TRUSSES SEQUENCE OF ERECTION AND INSTALLATION TO THE DESIGNER FOR REVIEW PRIOR TO TRUSS-TO-TRUSS CONNECTIONS AND OTHER DETAILS RELATED TO TRUSSES SHALL BE VERIFIED BY TRUSS FABRICATOR, INCLUDING BRACING, STRONG BACKS AND

THE TRUSS DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE SUPPLIED BY THE TRUSS MANUFACTURER AND SUBMITTED FOR APPROVAL PRIOR TO BUILDING TRUSS MANUFACTURER SHALL VERIFY ALL DIMENSIONS AT JOB SITE AND BRING ANY DISCREPANCIES WITH THESE PLANS TO THE ATTENTION OF THE ENGINEER OF

MAINTAIN 1/4" CLEARANCE BETWEEN TOP PLATE OF NON BEARING WALLS AND BOTTOM CHORDS OF TRUSSES, PROVIDE "SIMPSON" (OR EQ) ST TRUSS CLIP AT 48" O.C.

THE CONTRACTOR SHALL INSTALL TEMPORARY HORIZONTAL AND CROSS BRACING TO HOLD TRUSSES PLUMB AND IN SAFE CONDITION.



500 SQ. FT. MODEL (513 SQ.FT.)



ACCESSORY **DWELLING UNIT**

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879

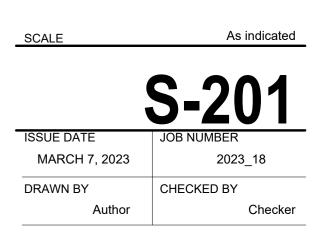


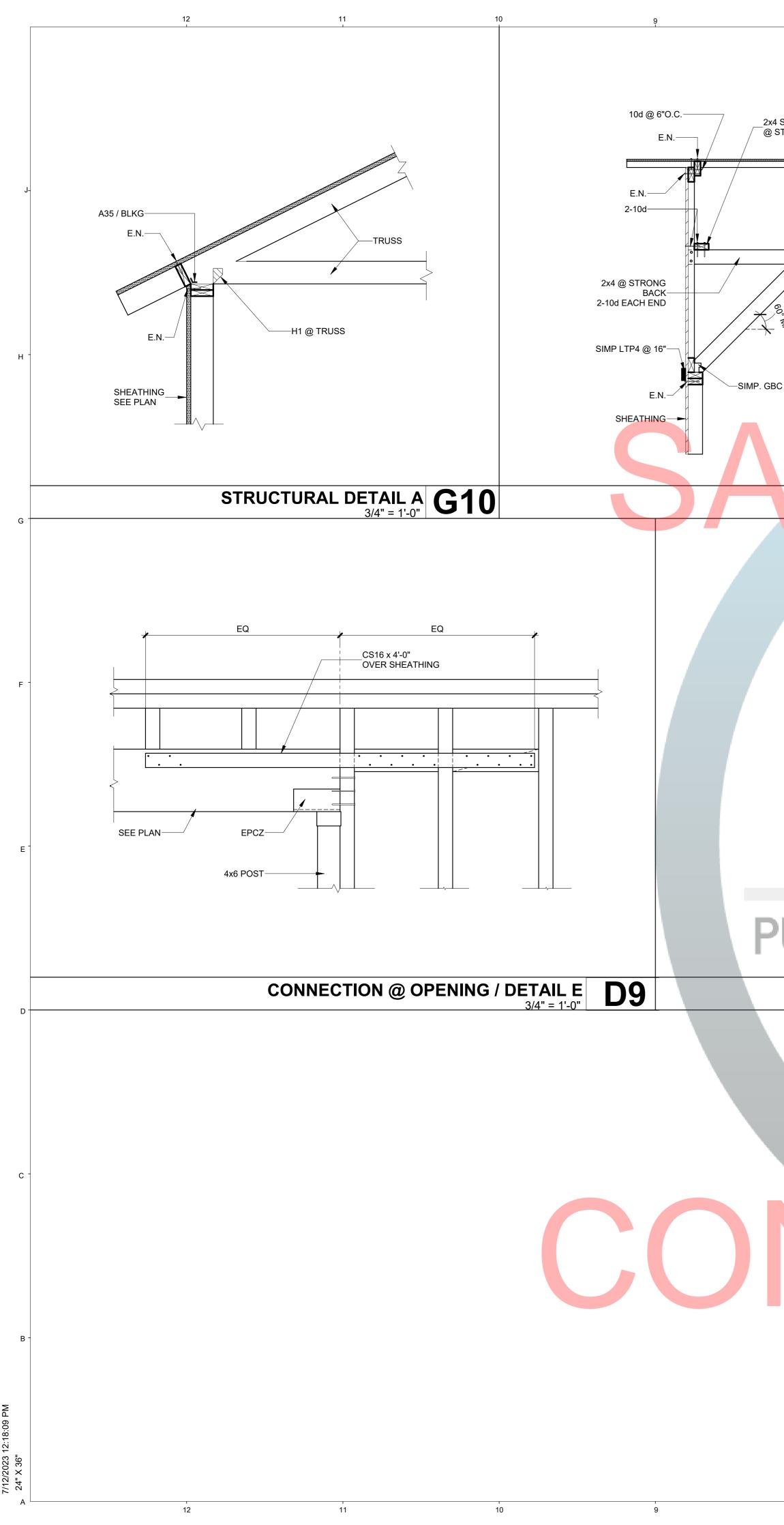
UPDATE

JULY 12, 2023

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STRUCTURAL PLANS



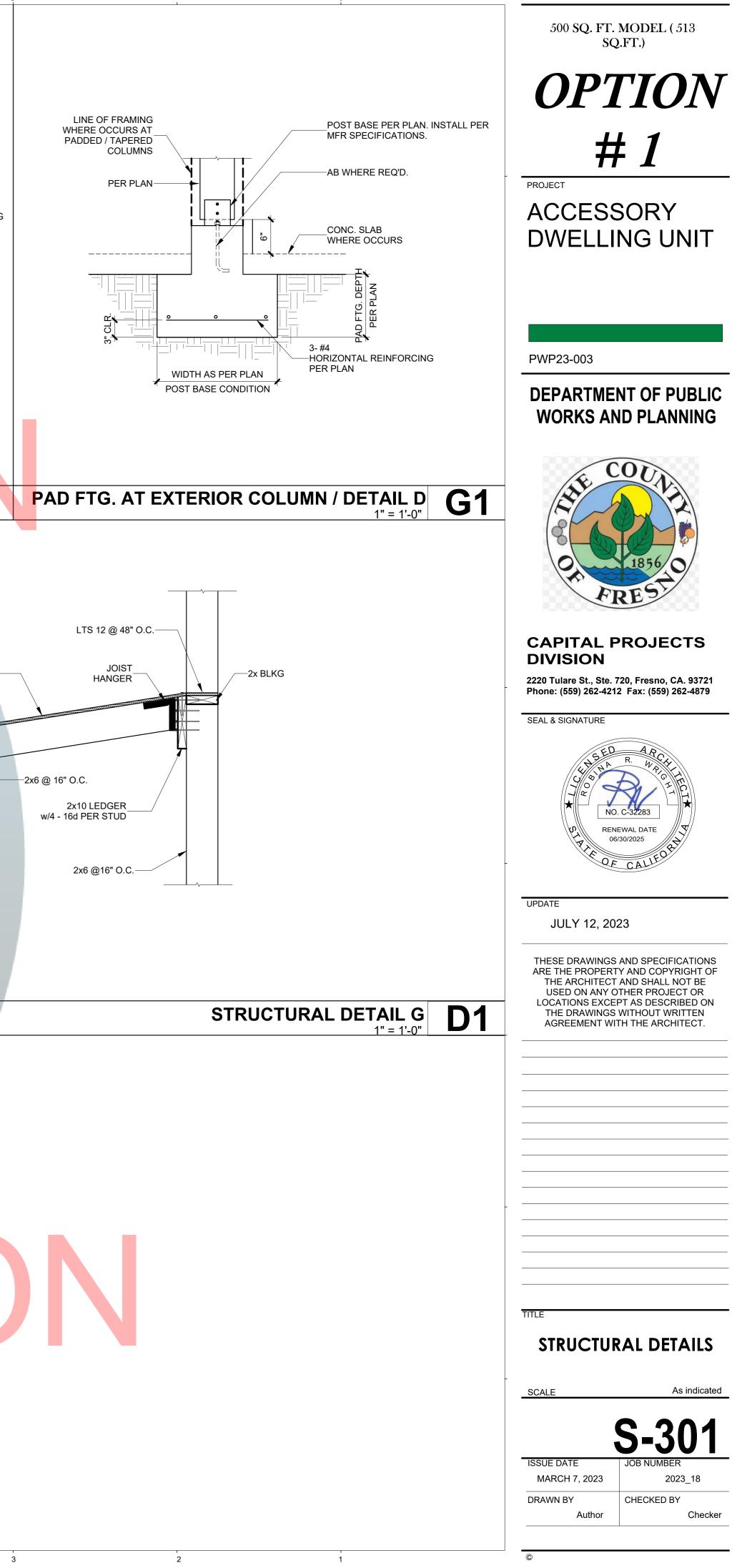


NOTE: 1. A MINIMUM 10-MIL VAPOR RETARDER CONFORMING TO ASTM E1745 CLASS A REQUIREMENTS WITH JOINTS LAPPED NOT LESS THAN 6 INCHES SHALL BE PLACED BETWEEN THE CONCRETE SLAB AND THE BASE COURSE OF THE PREPARED SUBGRADE WHERE THE BASE COURSE DOES NOT EXIST. [CRC R506.2.3]. FINGER JOINTED STUDS IN STRUCTURAL WALLS _2x4 STRONG BACK @ STUD OVER 6'-0" TALL (BEARING OR SHEAR) SHALL BE APPROVED AND SHEARWALL WHERE ARE NOT ALLOWED AT HOLDOWN LOCATIONS. OCCURS —Е.N. ANCHOR BOLT PER-SHEARWALL PLAN. REFER TO ANCHOR BOLT SCHEDULE FOR ADDITIONAL INFORMATION -PT SILL PLATE -3-10d CONC. SLAB & UNDERLAYMENT -PER PLAN POURED MONOLITHICALLY WITH FOOTING 2x4 STRONG BACK —@ BRACE OVER 6'-0" 2-10d / BRACE 8" MIN.-_____ 2x4 DIAGONAL BRACE @ 4'-0" O.C. CONC. SLAB WHERE OCCURS FELT EXPANSION JOINT HORIZONTAL REINFORCING #4 T & B U.N.O. FTG. WIDTH CONT. FOOTING @ PERIMETER / DETAIL C STRUCTURAL DETAIL B 3/4" = 1'-0" G6 1" = 1'-0" 1/2" CDX--EN ∕—2x BLKG -SEE PLAN ∕___PCZ ——4x4 POST PUBLIC WORKS AND PLAN JNNG

5

4

8



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			DETECTION SYST				.									
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	R315.1 C	ARBON	N MONOXIDE ALAF													
	R315.1.1 THE BUII			EW CON	STR	UCT	ION	REQI	JIRED CA	RBON M	IONOXI	DE	ALARM	S SHAI	L RECEIVE TH	EIR PRIMARY POWER
	-	-	WIRING IS SERVE	D FROM	A CC	MM	ERC	IAL S	OURCE A	ND SHA	LL BE E	EQU	IPPED \	WITH A	A BATTERY BAC	CK-UP.
				IERE MO	RE 1	THAN	N ON	IE CA	RBON MO	ONOXID	E ALARI	MIS	REQUI	IRED T	O BE INSTALLE	ED WITHIN THE DWEL
	UNIT'OR SLEEPIN			ALL BE II	NTEF	RCO	NNE	CTED		NNER TI	HAT AC	TIV	ATION C	of one	E ALARM SHALI	L ACTIVATE ALL OF T
			E. INDIVIDUAL UNI													
н			<u>REQUIREMENTS. (</u> CATIONS:	CARBON	MOI	NOX	IDE /	ALAR	MS REQU	JIRED B	Y SECT	ION	R315.1	AND F	R315.2 SHALL B	E INSTALLED IN THE
Н			EACH SEPARATE	DWELLI	NG U	NIT	SLEI	EPIN	G AREA. I	N THE I	MEDIA	ΛTE	VICINIT	Y OF 1	THE BEDROOM	(S).
	2, AT EVI	ERY LE	VEL OF A DWELLI	NG UNIT	INC	LUD	ING	BASE	EMENTS.							
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									•	#2 BAR	E CU F	OR	BONDI	NG AN	D GRO <mark>UN</mark> D	
	NFW	SERV								-	-			-	AND METAL	
		PAN								UNDER	GROUP		VAIER	PIPE.		
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	0.445										1					
F	SYMB.	TYPE	MAKE AND MOD	EL					MNTG.		VOLT			NOT	ES	FLOOR NOTES: 1. FOR ADAPTAE
	\ast	'D1'	AIRE DELUXE #F	P6285B					J-BOX	20W LED	120					DRAWINGS FO
	ο	'D2'	LITHONIA# WF6E	ELED-30	<-900	CRI-I	MW-	M6	REC.	11W LED	120		DIN	M, WET	FRATD,	2. ELECTRICAL
	00	'D3'	PROJECT SOUR		# 420	007			SURF.	60W	120					(INCLUDING C CONDITIONIN
			ITEM# 1362638							LED 11W						SHALL BE LOO
	<u> </u>	'D4'	C-LITE# C-DS4-6			_			SURF.	LED	120		DIN	M, WET	FRATD,	THE TOP OF 1 MEASURE FR
	ο	'D7'	DESIGNHOUSE# ITEM#100406008		3723	8			FLUSH	60W	120		C	DAMP F	RATD,	FINISH FLOOP
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E														N.T.S		
-																NAIRES SHALL HAVE
														2.		D LUMINAIRES SHALL SEE SECTION 150(K
														3.	SCREW-BASE	D LUMINAIRES SHAÌL
														4.	APPENDIX JA8	3. DWNLIGHT LUMINAIRI
															SHALL MEET A	ALL OF THE FOLLOWII
														4.1		IOT CONTAIN SCREW
																CFM AT 75 PASCALS
																FAN HOUSING WITH D AIRTIGHT; AND
D -	PANEL:	5QT-1	225 AMP BUS	MAIN:	200A	MCB		LOCATI	ON: EXTERIOR					4.3		LED WITH A GASKET
	500 SQ. FT. O PANEL		120/240V, 1 PH, 3 W 100% RATED NEU TRA	TRIP:	80% RA 42000	A	E	MOUNTI	NG: SURFACE RE: NEMA 3R							AND HAVE ALL AIR LE SEALED WITH A GASK
	NO.	POLE NOT		LOAD	A	T-AMPE B	C	LOAD	SERV		NOTES		POLE CKT		-	FIONS TO MAINTAIN A
	1 20 3 20		ELECTRIC WATER HEATER ESS SMALL APPLIANCE - RECEPTA		1900		2080	1080	LMING/DINNING RO BEDROOM 1 & HAL		AFCI/ES	1 S 1	20 2 20 4		CEILING; /	AND
	5 20 7 20	1 AF	CI LAUNDRY RECEPTACLE	1000	2000		1720	720	DISHWASHER KITCHEN RECEPTA	ACLES	AFCI AFCI	1	20 6 20 8	4.4		THE CLEARANCE AND CAL CODE SECTION 4
	9 20 11 20 13 20	1 1 AFCI/ 1	BATHROOM ESS LIGHTING EXTERIOR GFIRECEPTACLE	180 270 180	1380 2260	- -	870	10.75.55	REFRIGERATOR GARBAGE DISPOS/	AL	AFCI/ES AFCI	0 1	20 10 20 12 14	5.	BLANK ELECT	RICAL BOXES. THE N
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	31 33		"For Future 240V Use" - Heat Pun Heater Ready	np Space	0		0				6		32	6.1		ON TO SECTION 150.0
	35 37 50	2	Electric Cooktop Ready	4800 4800	4800		4800		For Future 240V Us Charging Station	e" - Electric Vehic	le		36	7.		TED LIGHTING VIA A F S SHALL BYPASS A DI
	39 41 30	2	Electric Clothes Dryer Ready	2880 2880	2880		2880		For Future Solar Ele	ectric"			40	.		IERE THAT DIMMER C
			TOTAL CONNECTED LOAD TOTAL CALCULATED LOAD	(VA) :	15220 15220	-	14610 14610	1	CALCULATED LC	DAD FOR PANE	L:			0	SECTION 150.0	
	NOTES:	4 (12) - 11 (17) - 11 (17)	TOTAL CALCULATED LOAD	and the second	126.8		121.8		29830 VA					8. 8.1		OFF CONTROLS. ROOMS, GARAGES, L
			T-INTERRUPTING BREAKER ENTIFIED AS SUITABLE TO BE SU	PPLIED BY THE	FUTURE	ESS.									AT LEAST	ONE INSTALLED LUN
	האורי	00115												8.2		SENSOR PROVIDING
в-			<u>DULE NOTES:</u> RVICES SUPPLYIN		LIN	GUN	NITS	SHA	LL BE PR) WITH	A			DOORS, C	ONTROLS THAT TUR
	S	URGE	PROTECTIVE DE	VICE (SF	PD).											PROVIDED.
			D SHALL BE AN IN						ERVICE E	EQUIPM	ENT OF	R S⊦	IALL	9.	CURRENT.	ISOR CONTROLS SH
	В 2.1.		ATED IMMEDIATE CEPTION: THE SP							E LOCA ⁻	TED IN	THF	Ē	10.	DIMMING CON	TROLS. LIGHTING IN
		SE	RVICE EQUIPMEN	IT AS RE	QUI	RED	IN (I	B) IF	LOCATE	D AT EA	CH NE>					S, DINING ROOMS, KI NALL-MOUNTED DIM
	3. T		TRIBUTION EQUI D SHALL BE A TY						JWARD T	HE LOA	D				MANUALLY AD	JUSTED UP AND DOV
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	TS, PLEASE REFER TO ARCHITECTURAL CH RANGE REQUIREMENTS.			
CONTROL	ACLE OUTLETS, SWITCHES, AND CONTROLS LS FOR HEATING AND VENTILATION AND AIR			
OCÁTED N	NDED TO BE USED BY THE OCCUPANTS NO MORE THAN 48 INCHES MEASURED FROM		ADU OPTION 1 513 SF	
	ILET BOX AND NOT LESS THAN 15 INCHES BOTTOM OF THE OUTLET BOX ABOVE THE		TOTAL: 1 513 SF	
			PROPOSED FLOOR PLAN	
E A COLOF				1
	R RENDERING INDEX (CRI) OF AT LEAST 90.	12. FO	1/4" = 1'-0" FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOU	NTED
K)1A FOR	THE REQUIREMENTS OF CALIFORNIA ENERGY CODE EXCEPTIONS.	ТО		NTED
K)1A FOR L CONTA	THE REQUIREMENTS OF CALIFORNIA ENERGY CODE EXCEPTIONS. IN LAMPS THAT COMPLY WITH REFERENCE JOINT	TO RE 12.1.	FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOU TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III: I. I. CONTROLLED BY A MANUAL ON AND OFF CONTROL SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND	NTED THE
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ELECTRICAL PLAN KEYNOTES

- NEW 225ABUSS-120/240V-1PH-3W-N3R MAIN SERVICE PANEL WITH 200A MAIN CIRCUIT BREAKER. MAIN ELECTRICAL POWER PANEL.
 POSSIBLE LOCATION OF FUTURE SOLAR PANEL INVERTER.
- 3. POSSIBLE LOCATION OF FUTURE EV CHARGING STATION. VERIFY EXACT LOCATION DURING INSTALLATION.
- 4. 240V-30A-2P-N3R DISCONNECT FOR CONDENSING UNIT.
- 5. ABOVE IN CABINET FOR HOOD EXHAUST.
- 6. SWITCH FOR HOOD FAN.
- 3 FT OF ALLOCATED SPACE RESERVED FOR FUTURE SYSTEM ISOLATION/TRANSFER EQUIPMENT. DEDICATED RACEWAY SHALL BE BEHIND CLEARANCE.
 INTERCONNECTION PATHWAY. REFER TO ARCHITECTURAL PLANS
- FOR SOLAR ZONE AREA. 9. LIGHT FIXTURE AND RECEPTACLE IN ATTIC. SEE BUILDING SECTIONS

ELECTRICAL LEGEND

- \$ SINGLE POLE SWITCH
- \$³ 3 WAY SWITCH
- \$^D DIMMER SWITCH
- \$⊧ FAN SPEED SWITCH
- \$^M MOTOR RATED SWITCH
- ϕ vacancy switch
- \$A ASTRONOMICAL SWITCH
- $\ensuremath{\$}_{\ensuremath{^{\scriptscriptstyle H}}}$ HUMIDITY SENSOR SWITCH
- Φ DUPLEX ABOVE COUNTER +48" TOP OF RECEPTACLE BOX
- DUPLEX GROUND FAULT CIRCUIT INTERRUPTER +15" BOTTOM OF RECEPTACLE BOX
- GFCI DUPLEX ABOVE COUNTER +48" TOP OF RECEPTACLE BOX
- ϕ_A RECEPTACLE 30A. 120/240V. NEMA 14-30R (CLOTHES DRYER TYPE) ϕ_B RECEPTACLE - 50A. 120/240V. NEMA 14-50R (DOMESTIC RANGE TYPE)
- △ COMMUNICATION DATA
- $\circledast \phi$ TV DATA AND DUPLEX + 60" (FIELD VERIFY HEIGHT
- SMOKE ALARM 'BRK', 7010B W/ BATTERY BACK-UP, HARD WIRED, MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7257-0087:140)
- © CARBON MONOXIDE/SMOKE ALARM 'BRK', SC910B W/ BATTERY BACK-UP, HARD WIRED, MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7256-0087:140)
- (HEARING IMPAIRED UNITS) SMOKE ALARM & STROBE COMBINATION 'BRK' 7010BSL, W/ BATTERY BACK-UP, HARD WIRED. MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7257-0087:159)
- (HEARING IMPAIRED UNITS) CARBON MONOXIDE ALARM 'BRK' CO5120BN, W/ BATTERY BACK-UP, HARD WIRED. MOUNT WITHIN 6 INCHES OF HIGH POINT OF CEILING. (CSFM 7256-0087:159)

CHIME BELL

- DOOR BELL
- ILLUMINATED ADDRESS SIGN
- EXHAUST FAN SPECS PER MECHANICAL PLANS

CALIFORNIA ELECTRICAL CODE NOTES

- 1. COORDINATE WITH UTILITY COMPANY PROVIDER PRIOR TO COMMENCING WORK. THE AVAILABLE FAULT CURRENT WILL BE PROVIDED BY THE UTILITY PROVIDER.
- 2. LIGHTING FIXTURES SPECIFIED CAN BE SUBSTITUTED WITH AN EQUIVALENT FIXTURE.
- IED
LICABLE3. UNLESS OTHERWISE NOTED; ELECTRICAL RECEPTACLE OUTLETS ON
BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION
SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES
MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX NOR
LESS THAN 15 INCHES (381 MM) MEASURED FROM THE BOTTOM OF THE
RECEPTACLE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR
WORKING PLATFORM.
 - 4. UNLESS OTHERWISE NOTED; CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, ALARMS OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED NO MORE THAN 48 INCHES (1219 MM) MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES (381 MM) MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.
- E ESS. AT A 5. REFER TO EQUIPMENT MANUFACTURER SPECS FOR ADDITIONAL OVER-CURRENT PROTECTIONS OTHER THAN THE BRANCH CIRCUIT BREAKER.
 - 6. ALL WIRING IN DWELLINGS TO BE NONMETALLIC SHEATHED CABLES (ROMEX).
 - A THREE-WIRE PLUS GROUND BRANCH CIRCUIT IS REQUIRED FOR ALL 240V CIRCUITS SERVING COOKING EQUIPMENT AND CLOTHES DRYER.
 PROVIDE WEATHER PROOF BOXES FOR ALL EXTERIOR SWITCHES AND CONTROLS.
- 9. ALL 120V-1PH-15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN KITCHENS, FAMILY, DINNING, LIVING, DENS, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR ROOMS SHALL HAVE A LISTED ARC-PROTECTION CIRCUIT BREAKER INSTALLED IN COMBINATION WITH OUTLET BRANCH CIRCUIT TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED AT THE FIRST BOX. SEE SECTION 210.12(A)(3) FOR WIRING METHODS.
- D ANNEL BY I0. RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6 FT FROM A RECEPTACLE OUTLET.
 - 11. WATER HEATER SHALL USE A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS.

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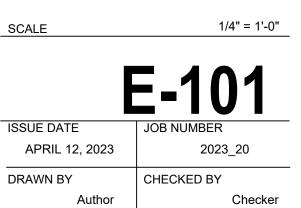


UPDATE

JULY 10, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

PROPOSED FLOOR PLAN



500 SQ. FT. W/ ADAPTABLE FEATURES

PLAN

#

ACCESSORY

DWELLING UNIT

PROJECT

Project Name: Option # 1 ADU Calculation Description: Title 24	RESIDENTIAL PERFORMANCE COMPLIANCE MET	THOD Calculation Date/Time: 2023-05-30T09:56:01+0 Input File Name: 4411_Prototypical ADU Design Analysis_V9.1 Unit 18.ribd22x		Project Name: Option # 1 ADU Calculation Description: Title 24 Ana	IDENTIAL PERFORMANCE COMPLIANCE METH
GENERAL INFORMATION 01 02	Project Name Option # 1 ADU Run Title Title 24 Analysis			ENERGY DESIGN RATINGS	Energy Design Ra Source Energy Efficiency ¹ ED
03 04 06	Project Location Option # 1 City Fresno County Zip code	05 Standards Version 07 Software Version		Standard Design	(EDR1) (EDR2efficience 34.6 41.7
08 10	Climate Zone 13 Building Type Single family	09 Front Orientation (deg/ Cardinal) 11 Number of Dwelling Units		North Facing	33.2 39.9
	Project Scope Newly Constructed	13 Number of Bedrooms 15 Number of Stories		East Facing	32.9 39.2
18 Total Cond	. Floor Area (ft ²) n/a . Floor Area (ft ²) 513 Bedroom Count n/a	17 Fenestration Average U-factor 19 Glazing Percentage (%)	100	South Facing West Facing	33 40.2 33.5 41.5
COMPLIANCE RESULTS	Bedroom Count In/a			¹ Efficiency EDR includes improvements	like a better building envelope and more efficient er
02 This building inco	s with Computer Performance proprates features that require field testing and/or ve proprates one or more Special Features shown below	rification by a certified HERS rater under the supervision of a	CEC-approved HERS provider.	² Total EDR includes efficiency and dema	and response measures such as photovoltaic (PV) system , efficiency and total compliance margins are greated
	CP 31	EERST		Standard Design PV Capacity: 2.0: Proposed PV Capacity Scaling: No	1 kWdc rth (2.01 kWdc) East (2.01 kWdc) South (2.01 kWdc)
Registration Number: 423-P01006 NOTICE: This document has been generate and cannot guarantee, the accuracy or con CA Building Energy Efficiency Stand	dards - 2022 Residential Compliance	Registration Date/Time: 05/30/2023 03:56 HE using information uploaded by third parties not affiliated with or related to Report Version: 2022.0.000 Re Schema Version: rev 20220901	IRS Provider: CHEERS CHEERS. Therefore, CHEERS is not responsible for, port Generated: 2023-05-29 21:26:55	Registration Number: 423-P010091386 NOTICE: This document has been generated by C and cannot guarantee, the accuracy or completer CA Building Energy Efficiency Standards	California Home Energy Efficiency Rating Services (CHEERS) us ness of the information contained in this document.
Project Name: Option # 1 ADU	RESIDENTIAL PERFORMANCE COMPLIANCE MET	Calculation Date/Time: 2023-05-30T09:56:01+0		Project Name: Option # 1 ADU	IDENTIAL PERFORMANCE COMPLIANCE METH
Calculation Description: Title 24	4 Analysis	Input File Name: 4411_Prototypical ADU Design Analysis_V9.1 Unit 18.ribd22x	is for Fresno County_Energy	Calculation Description: Title 24 Ana REQUIRED PV SYSTEMS	alysis
North Facing	Standard Design (kBtu/ft ² - yr) Proposi	ed Design (kBtu/ft ² - yr) Compliance Margin (kBtu/ft ² -	yr) Margin Percentage	01 02 DC System Size	
Gross EUI ¹	34.62	32.52 2.1	6.07	2.01 NA	Module Type Array Type Power Standard (14-17%) Fixed
Net EUI ² East Facing	13.42	11.33 2.09	15.57	REQUIRED SPECIAL FEATURES	
Gross EUI ¹	34.62	32.35 2.27	6.56	 Window overhangs and/or fins Variable capacity heat pump com 	installed as condition for meeting the modeled ener pliance option (verification details from VCHP Staff r
Net EUI ² South Facing	13.42	11.15 2.27	16.92		nce (NEEA) rated heat pump water heater; specific b
Gross EUI ¹ Net EUI ²	34.62	32.32 11.13 2.29	6.64		res that must be field-verified by a certified HERS Ra elow. Registered CF2Rs and CF3Rs are required to be
West Facing				 Kitchen range hood Verified Refrigerant Charge Airflow in habitable rooms (SC3.1 	
Gross EUI ¹ Net EUI ²	34.62	32.54 2.08 -11.34 2.08	6.01	 Verified heat pump rated heating Wall-mounted thermostat in zone Ductless indoor units located entities 	
	(not including PV) / Total <u>Building Area.</u> Icluding PV) / Total Building Area.			BUILDING - FEATURES INFORMATION 01	02 03
				Project Name Condit	tioned Floor Area (ft ²) Number of Dwelling Units N 513 1
CERTIFICATE OF COMPLIANCE - Project Name: Option # 1 ADU Calculation Description: Title 24	RESIDENTIAL PERFORMANCE COMPLIANCE MET	Calculation Date/Time: 2023-05-30T09:56:01+0 Input File Name: 4411_Prototypical ADU Design		CERTIFICATE OF COMPLIANCE - RESI Project Name: Option # 1 ADU Calculation Description: Title 24 Ana	IDENTIAL PERFORMANCE COMPLIANCE METH
SLAB FLOORS 01	02 03 04	Analysis_V9.1 Unit 18.ribd22x	07 08	WATER HEATING SYSTEMS 01 02	03 04
	one Area (ft ²) Perimeter	and Depth and Depth	Carpeted Fraction Heated	Name System Type	Distribution Type Water Heater Name No
Slab-on-Grade Living A	IN 1997 IN 199	0 0	80% No	DHW Sys 1 Domestic Hot Water (DHW)	Standard DHW Heater 1
01 Construction Name Su		14 05 06 07 Total Cavity Interior / Exterior Continuous U-factor	08 Assembly Layers	WATER HEATERS - NEEA HEAT PUMP 01 02	03 04
		R-value R-value	Inside Finish: Gypsum Board	Name # of Unit	Brand
		6 in. 0. C. R-21 None / None 0.068	Cavity / Frame: R-21 / 2x6 Exterior Finish: All Other Siding Inside Finish: Gypsum Board	DHW Heater 1 1 WATER HEATING - HERS VERIFICATION	40 Rheem
R-13 Wall Int	erior Walls Wood Framed Wall 2x4 @ 1	6 in. 0, C, R-13 None / None 0.092	Cavity / Frame: R-13 / 2x4 Other Side Finish: Gypsum Board Roofing: Light Roof (Asphalt Shingle)	01	02 03 nsulation Parallel Piping Com
Attic RoofLiving A Area_ADU A	ttic Roofs Wood Framed Ceiling 2x4 @ 2	4 in. O. C. R-0 None / 0 0.644	Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4	DHW Sys 1 - 1/1 Not F	Required Not Required
R-30 Roof Attic Ceil	ings (below Wood Framed 2x4 @ 2	4 in. O. C. R-30 None / None 0.032	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board	SPACE CONDITIONING SYSTEMS 01 02	03 04
BUILDING ENVELOPE - HERS VERIF		na 1		Name System Type	Heating Unit Name Heating Equipment Count Count
01 Quality Insulation Installation (Q		03 04 ng Envelope Air Leakage CFM50 N/A n/a	05 CFM50	HVAC System1 heating cooling	
Not Required	Not Required	N/A n/a	n/a		
Registration Number: 423-P01000 NOTICE: This document has been generate and cannot guarantee, the accuracy or con CA Building Energy Efficiency Stand	dards - 2022 Residential Compliance		RS Provider: CHEERS CHEERS. Therefore, CHEERS is not responsible for, port Generated: 2023-05-29 21:26:55	Registration Number: 423-P010091386 NOTICE: This document has been generated by C and cannot guarantee, the accuracy or complete CA Building Energy Efficiency Standards	A-000-000-0000000-0000 alifornia Home Energy Efficiency Rating Services (CHEERS) us ness of the Information contained in this document. - 2022 Residential Compliance
		Schema Version: rev 20220901			S

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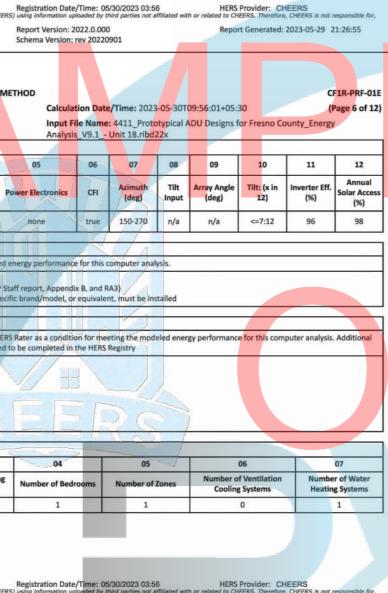
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	Calculation Date/Ti nput File Name: 44			01+05:30 esigns for Fresno County	CF1R-PRF-01 (Page 2 of 12 /_Energy
1	Analysis_V9.1 Uni	t 18.ribd	22x		
sign Ratings				Compliance Margins	
ncy ¹ EDR fficiency)	Total ² EDR (EDR2total)	So	(EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
1.7	35.9				
Proposed	Design	1			
9.9	34.8	11	1.4	1.8	1.1
9.2	34,4		1.7	2.5	1.5
0.2	35.1	1	1.6	1.5	0.8
1.5	35.8	1	1.1	0.2	0.1
RESULT ³	PASS	2			
cient equipme (PV) system an greater than o	200	nmetload	hour limits are r	not exceeded	
kWdc) West (2	.01 kWdc)	G			

Project Name: Option # Calculation Description	# 1 ADU	RMANCE COMPLIANCE METH	Calculation Date/Time	2023-05-30T09:56:01+05:30 Prototypical ADU Designs for 8.ribd22x		CF1R-PRF-01 (Page 3 of 12 nergy
NERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -γr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	2.26	9.97	3.61	27.51	-1.35	-17.54
Space Cooling	3.29	66.76	2.61	59.04	0.68	7.72
IAQ Ventilation	0.45	4.85	0.45	4.85	0	0
Water Heating	3.99	41.13	2,49	26.06	1.5	15.07
Self Utilization/Flexibility Credit				Q		0
North Facing Efficiency Compliance Total	9.99	122.71	9.16	117.46	0.83	5.25
Space Heating	2.26	9.97	3.39	25.45	-1.13	-15.48
Space Cooling	3.29	66.76	2.63	58.98	0.66	7.78
IAQ Ventilation	0.45	4.85	0.45	4.85	0	0
Water Heating	3.99	41.13	2.49	26.01	1.5	15.12
Self Utilization/Flexibility Credit		0000		o		0
East Facing Efficiency Compliance Total	9.99	122.71	8.96	115.29	1.03	7.42

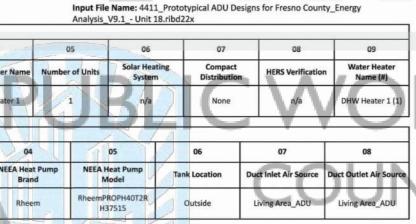
a not responsible for, 29 21:26:55	Registration Number: 4 MOTICE: This document has k and cannot guarantee, the ac CA Building Energy Effic	been generated by Californ curacy or completeness of	ia Home Energy Efficient the information contain	ncy Rating Services (ned in this document.	CHEERS) u R	Registration Dat using information u Report Version: ichema Version	ploaded by third p 2022.0.000	parties not affil	liated with or rela	ated to CHEERS.	ider: CHEERS Therefore, CHEERS nerated: 2023-0		Re Not and Ci
CF1R-PRF-01E (Page 6 of 12) ergy	CERTIFICATE OF COM Project Name: Option Calculation Description ZONE INFORMATION	#1 ADU	TIAL PERFORMAN			Calcula	ation Date/Ti ile Name: 44 is_V9.1 Uni	11_Prototy	ypical ADU D		resno County_	CF1R-PRF-01E (Page 7 of 12) Energy	CE Pro Ca FEI
Eff. Annual	Zone Name	Zone Typ	e HVAG	C System Name	Zon	ne Floor Area (f	t ²) Avg	Ceiling Hei	ight Wat	er Heating Sy	ystem 1	Status	
Solar Access (%)	Living Area_ADU	Condition	ed H	VAC System1		513	17	8		DHW Sys 1	La la	New	D
98	OPAQUE SURFACES			HH	13		211						
	01	02		3	04	4	05	1	06	07	7	08	
	Name	Zone	Const	ruction	Azim	with C	rientation	Gross A	Area (ft ²)	Window a Area		Tilt (deg)	3
	Front Wall W_	Living Area_ADU			0		Front	- 14 - i	176	68.		90	
	Rear Wall E_	Living Area_ADU			18		Back Left		152 192	31.		90	
	Right Wall S_	Living Area_ADU			27		Right	1 19	164	0		90	
lysis. Additional	Interior Wall	Living Area_ADU>>Living	g R-13	Wall	n/	a 75	n/a	72	2.72	0		n/a	lov
	Attic Roof	Area_ADU Living Area_ADU	B-30 B	oof Attic	n/		n/a	5	13	n/		n/a	
			1-30 M	and a			1/18	1	15	14	a	11/4	
	ATTIC 01	02		13	04		05		06	07	,	08	
	Name	Construction			10		f Reflectance	1 L L min	mittance	Radiant		Cool Roof	
	Attic Living Area_ADU	Attic RoofLiving Area_ADU	Vent	ilated	- 4		0.1	0.	.85	N	D I	No	
07 mber of Water	FENESTRATION / GLAZI	NC			-					-			
eating Systems		02 03	04	05	06	07 08	09	10	11	12	13	14	
1	Name T	ype Surface	Orientation	Azimuth		leight Mult.	Area	J-factor	U-factor	SHGC	SHGC Source	Exterior Shading	
					(ft)	(11)	(ft²)		Source			-	
	Door 2- 5068_ Wi	ndow Front Wall	W_ Front	0	5	6.67 1	33.35	0.3	NFRC	0.23	NFRC	Bug Screen	
not responsible for, 29 21:26:55	Registration Number: A NOTICE: This document has b and cannot guarantee, the ac CA Building Energy Effe	been generated by Californ curacy or completeness of	ia Home Energy Efficie the information contain	ncy Rating Services (ned in this document.	CHEERS) u R	legistration Dat using information of leport Version: ichema Version	ploaded by third p 2022.0.000	parties not affil	liated with or rela	ated to CHEERS.	ider: CHEERS Therefore, CHEER: nerated: 2023-0		Re NOTI and CA
CF1R-PRF-01E (Page 10 of 12) ergy 09 Water Heater Name (#) DHW Heater 1 (1) 08 Outlet Air Source ving Area_ADU 07 Drain Water Heat Recovery ot Required Thermostat Type Setback	CERTIFICATE OF COM Project Name: Option Calculation Description INAME INAME Heat Pump System 1 INAME Heat Pump System 1-hers-htpump VARIABLE CAPACITY HE 01 Name Heat Pump System 1-hers-htpump INDOOR AIR QUALITY (01 Dwelling Unit	# 1 ADU on: Title 24 Analysis 02 System Type VCHP-ductless Image: Not required Image: Not required Image: Not required Image: Not required	03 04 umber of Units Efficit 1 HSI 03 Airflow Target 0 CE OPTION - HERS 03 ied Airflow Target 0 CE OPTION - HERS 03 ied Airflow Target 03 Fan Efficacy	4 05 Heatin becy HSPF/ HSPF2/ COP PF 8.5 04 Verified EER/EE Not Required VERIFICATION 04 to Ductless in Conditi Space	06 18 Cap 47 18000	Calcul: Input I Analys	is V9.1Uni O8 Co Efficiency Type EFFICERSEER O0 Verified R Cha Verified R Cha O6 Air Filter Siz Samp; Press Drop Ratir Not require O0 IAQ Ref	11_Prototy it 18.ribd22 09 oling SEER / E SEER / SEER / E SEER / S	ypical ADU D 2x 10 1 EER / Zorr EER / Cont EER / Cont EER / Cont 07 Verified HSPF/HSP No 07 Leakage Leakage Leakage Leakage Includes Fa	Arflow per RA3.3 and SC3.3.3.4.1 Not required	ingle He	13 ERS Verification eat Pump System 1-hers-htpump 09 Verified Heating Cap 17 Yes 10 10 ous Indoor Fan not Running Continuously	CEI Pro Cal DO 1.1 Do Vir Con WW Add 14. City La RES I cei Rol Con Rol Add 400 City Fre
	Dweiling Unit	AITIOW (CPW)	(W/CFM)	AQ Fan Type		Recovery?	Effectiven		Indicator Dis		5 vernication	Status	
	SFam IAQVentRpt	30	0.35	Exhaust		No	n/a /	'n/a	No		Yes		
not responsible for, 29 21:26:55	Registration Number: . NOTICE: This document has b and cannot guarantee, the a CA Building Energy Effi	been generated by Californ curacy or completeness of	ia Home Energy Efficie the information contai	ncy Rating Services (ned in this document.	CHEERS) U	Registration Dat using Information C Report Version: Schema Version	ploaded by third p	parties not affi	lliated with or rel	ated to CHEERS	ider: CHEERS . <i>Therefore, CHEER</i> merated: 2023-0	S is not responsible for,	Re NoTi and CA
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Calculation Date/Time: 2023-05-30T09:56:01+05:30



04	05			06		07			
Compact Distribution	Compact Distrib	ution	Recirculation Control			hower Drain Water Hea Recovery			
Not Required	Not Required None			Not Required			Not Required		
		- /					_		
		1			- 1				
05	Ub		07	08		09			
Cooling Unit Name	Cooling Equipment Count	Fan		Distribution	Name	Required Thermostat Type			
Heat Pump System	1	,	n/a	n/a		Setback			
	Compact Distribution Not Required 05 Cooling Unit Name	Compact Distribution Not Required 05 05 Cooling Unit Name Cooling Equipment Count	Compact Distribution Not Required None 05 06 Cooling Unit Name Heat Pump System	Compact Distribution Compact Distribution Type Recircu Not Required None None 05 06 07 Cooling Unit Name Cooling Equipment Count Fan Name	Compact Distribution Compact Distribution Type Recirculation Control Not Required None Not Required 05 06 07 08 Cooling Unit Name Cooling Equipment Count Fan Name Distribution	Compact Distribution Compact Distribution Recirculation Control Show Not Required None Not Required Not Required <td>Compact Distribution Compact Distribution Type Recirculation Control Shower Drain Water Recovery Not Required None Not Required Not Required 05 06 07 08 09 Cooling Unit Name Cooling Equipment Count Fan Name Distribution Name Required Thermostat Type</td>	Compact Distribution Compact Distribution Type Recirculation Control Shower Drain Water Recovery Not Required None Not Required Not Required 05 06 07 08 09 Cooling Unit Name Cooling Equipment Count Fan Name Distribution Name Required Thermostat Type		

Registration Date/Time: 05/30/2023 03:56 HERS Provider: CHEERS HEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is no Report Version: 2022.0.000 Schema Version: rev 20220901 Report Generated: 2023-05-29

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CF1R-PRF-01E

West Facing Efficiency Compliance Total

9.99

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Option # 1 ADU Calculation Date/Time: 2023-05-30T09:56:01+05:30 (Page 4 of 12) Input File Name: 4411_Prototypical ADU Designs for Fresno County_Energy Analysis_V9.1_- Unit 18.ribd22x Calculation Description: Title 24 Analysis ENERGY USE SUMMARY Standard Design Source Standard Design TDV Energy Proposed Design Source Proposed Design TDV Energy Compliance Compliance Energy (EDR1) (kBtu/ft²-yr) (EDR2) (kTDV/ft²-yr) Energy (EDR1) (kBtu/ft²-yr) Energy (EDR1) (kBtu/ft²-yr) Margin (EDR2) Energy Use Space Heating 2.26 9.97 3.39 25.67 -1.13 Space Cooling 3.29 66.76 2.7 61.74 0.59 IAQ Ventilation 0.45 4.85 0.45 4.85 0 Water Heating 3.99 41.13 2.49 26.04 1.5 Self Utilization/Flexibility Credit 0 South Facing Efficiency Compliance Total 9.99 122.71 9.03 118.3 0.96 Space Heating 2.26 9.97 3.56 27.37 -1.3 -17.4 Space Cooling 3.29 66.76 2.8 63.64 0.49 IAQ Ventilation 0.45 4.85 0.45 4.85 0 Water Heating 3.99 41.13 2.49 26.06 1.5 Self Utilization/Flexibility Credit 0

122.71

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CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-05-29 21:26:55

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oject Name: (•	-05-30T09:56				Page 8 of 1
Iculation Des		e 24 Analys	is								typical ADU [Designs for I	Fresno Coun	ty_Energy	
NESTRATION /	GLAZING							Analysis		Unit 18.ribd2	:2X				
01	02	03		04	05	06	07	08	09	10	11	12	13		14
Name	Туре	Surfa	ce O	rientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Sou	irce Ext	erior Shadin
000r 1- 3068_	Window	Front Wa	llw_	Front	0	3	6.67	1	20.01	0.3	NFRC	0.23	NFRC		Bug Screen
Window C- 3050_	Window	Front Wa	11 W_	Front	0	3	5	1	15	0.3	NFRC	0.23	NFRC	1	Bug Screen
Window A- 2650_	Window	Left Wa	IN_	Left	90	N.		1	12.5	0.3	NFRC	0.23	NFRC	1	Bug Screen
Window A- 2650_2	Window	Left Wa	IN_	Left	90	1		1	12.5	0.3	NFRC	0.23	NFRC		Bug Screen
Window B- 2626_	Window	Left Wa	IN_	Left	90		-	1	6.25	0.3	NFRC	0.23	NFRC	1	Bug Screen
VERHANGS AND) FINS			-	13/7	1	2 1		<u> </u>	Ea					
01		02	03	04	05	0	16	07	08	09	10	11	12	13	14
				Overha	ng		V2/	1		eft Fin	2		Right	t Fin	
Windo	w	Depth	Dist Up	Left Exte	Right Extent		Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Тор Up	Dist R	Bot Up
Door 2-5	068_	8	1.35	8	8		0	0	0	0	0	0	0	0	0
Door 1-3	068_	6	1.16	6	- 6	- 1		0	0	0	0	0	0	0	0
Window C-	3050	6	1.16	6	6	1	0	0	0	0	0	0	0	0	0

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	CF1R-PRF-01
Project Name: Option # 1 ADU	Calculation Date/Time: 2023-05-30T09:56:01+05:30 (Page 12 of 12
Calculation Description: Title 24 Analysis	Input File Name: 4411_Prototypical ADU Designs for Fresno County_Energy Analysis V9.1 - Unit 18.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete	
Documentation Author Name: Viranchi Shah	Documentation Author Signature: Viranchi Shah
Company: www.gettitle24.com	Signature Date: 05/30/2023
Address: 14730 Beach Blvd., #133	CEA/ HERS Certification Identification (If applicable):
City/State/Zip: La Mirada, CA 90638	Phone: 714-888-4736
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	the building design identified on this Certificate of Compliance. If Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. ice are consistent with the information provided on other applicable compliance documents, worksheets.
calculations, plans and specifications submitted to the enforcement agency for approval with t	
calculations, plans and specifications submitted to the enforcement agency for approval with th Responsible Designer Name:	
calculations, plans and specifications submitted to the enforcement agency for approval with the Responsible Designer Name: Robina Wright	Is building permit application Responsible Designer Signature:
	Ils building permit application Responsible Designer Signature: Date Signed:

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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Services (CHEERS) document.	using information uploaded by third parties not affiliated will	th or related to CHEERS. Therefore, CHEERS is not responsible for
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	Schema Version: rev 20220901	



500 SQ. FT. MODEL (513 SQ.FT.)

PWP23-003

-15.7

5.02

0

15.09

0

4.41

3.12

0

15.07

0

0.79

0.69

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 10, 2023

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

TITLE 24 ENERGY COMPLIANCE

TITI F

C

SCALE T24-1 ISSUE DATE JOB NUMBER 2023_18 MARCH 7, 2023 DRAWN BY CHECKED BY Author Checker

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1			1

Project Name	INTIAL MEASURES SU	Building Type	Single Family	RMS-1 Date	NOTE: Single-far	mily residential buildings subject to the respective section for more informati
Option # 1	ADU		Multi Family D Existing+ Addition/	Alteration 30-05-2023	(04/2022)	e respective section for more informati
Project Addres	ss Fresno County	California Energy Cli CA Climate Z		Addition # of Units	Building Envelop	pe: Air Leakage. Manufactured fene
INSULAT		Are	a		§ 110.6(a)1:	less when tested per NFRC-400
Contraction of the Contraction	ction Type	Cavity (ft ²)		Status	§ 110.6(a)5:	Labeling. Fenestration products Field fabricated exterior doors
10240700 1.1.1.5	lood Framed lood Framed		73	New	§ 110.6(b):	Tables 110.6-A, 110.6-B, or JA4 Air Leakage. All joints, penetrati
	nheated Slab-on-Grade		13 Perim = 86'	New	§ 110.7:	caulked, gasketed, or weather st Insulation Certification by Man
Roof W	lood Framed Attic	R 30 5	:13	New	§ 110.8(a):	Goods and Services (BHGS).
	2				§ 110.8(g):	Insulation Requirements for He Roofing Products Solar Reflect
					§ 110.8(i):	roofing material must meet the re on the CF1R.
FENERT	DATION	100	10.101		§ 110.8(j):	Radiant Barrier. When required Affairs.
FENEST		100 Glazing Perce				Roof Deck, Ceiling and Rafter average U-factor not exceeding U
Front (W)	33.4 0.300	0.23 8.0	none N/A	New	§ 150.0(a):	U-factor must not exceed 0.043. doors must have permanently at
Front (W) Front (W)	20.0 0.300 15.0 0.300	0.23 6.0 0.23 6.0	none N/A	New		prevent air leakage. Insulation m as specified in § 110.7, including
Left (N)	31.3 0.300	0.23 none	none N/A	New	§ 150.0(b):	Loose-fill Insulation. Loose fill i
					§ 150.0(c):	Wall Insulation. Minimum R-13 framing or have a U-factor of 0.0
					0.450.0(4)	Masonry walls must meet Tables
					§ 150.0(d):	Raised-floor Insulation. Minimu Slab Edge Insulation. Slab edg
					§ 150.0(f):	without facings, no greater than physical damage and UV light de
					§ 150.0(g)1:	Vapor Retarder. In climate zone vapor retarder. This requirement
					3 1000(9/1	§150.0(d). Vapor Retarder. In climate zone
	7:				§ 150.0(g)2:	all insulation in all exterior walls, Fenestration Products. Fenest
HVAC SY	STEMS				§ 150.0(q):	a maximum U-factor of 0.45; or a
Qty. He	ating Min. Eff	Cooling		nostat Status	Fireplaces, Deco § 110.5(e)	Pilot Light. Continuously burning
1 Elec	ctric Heat Pump 8.50 HSPF	Split Heat Pump	15.0 SEER Setback	New	§ 110.5(e) § 150.0(e)1:	Closable Doors. Masonry or fac
					§ 150.0(e)2:	Combustion Intake. Masonry of area and is equipped with a read
	STRIBUTION	• "	Du	1985-1985	§ 150.0(e)3:	Flue Damper. Masonry or factor
Location HVAC System		Cooling Ductless n/a		Value Status	Space Condition	ing, Water Heating, and Plumbing Certification. Heating, ventilatio
	Ducuess I WILL Fall	2000000 11/8	n/a	11017	§ 110.0-§ 110.3:	regulated appliances must be ce
14/4 7 7 7 7					§ 110.2(a):	HVAC Efficiency. Equipment mo Controls for Heat Pumps with
WATER I Qty. Ty	HEATING pe Gallo	ons Min. Eff	Distribution	Status	§ 110.2(b):	heaters must have controls that and in which the cut-on temperat
	at Pump 40	3.10	Standard	New		the cut-off temperature for comp Thermostats. All heating or cool
					§ 110.2(c):	setback thermostat. * Insulation. Unfired service wate
					§ 110.3(c)3:	surface heat loss rating.
EnergyPro 9.	1 by EnergySoft User Number: 3835		ID: _14411	Page 15 of 21	§ 110.3(c)6:	Isolation Valves. Instantaneous hose bibbs or other fittings on bo
					5/6/22	
§ 150.0(k)1G: § 150.0(k)1H:	Light Sources in Enclosed or Reces	sed Luminaires. Lamps a	lamps that comply with Reference Joint A and other separable light sources that are ents, must not be installed in enclosed or r	not compliant with the JA8	§ 150.0(s)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s
§ 150.0(k)1H:	Light Sources in Enclosed or Reces elevated temperature requirements, inc Light Sources in Drawers, Cabinets,	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required	§ 150.0(s)	2022 Single-Fan Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pare near the primary exit, and one cin
	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com power, emit no more than 150 lumens,	sed Luminaires. Lamps a cluding marking requireme , and Linen Closets. Ligh ntrolled by vacancy sensor	and other separable light sources that are ints, must not be installed in enclosed or r	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of	§ 150.0(s)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cin 225 amps; sufficient space must panelboard, with raceways install
§ 150.0(k)1H:	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com power, emit no more than 150 lumens, linen closet is closed.	sed Luminaires. Lamps a cluding marking requireme , and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or	§ 150.0(s) § 150.0(t)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit
§ 150.0(k)1H: § 150.0(k)1I:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co prward phase cut dimmers aust fans must be controlle	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. *	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A.		Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be compower, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must had on and off. *	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co orward phase cut dimmers aust fans must be controlle ave readily accessible wal	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. *	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A.		Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2A: § 150.0(k)2A: § 150.0(k)2B:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k).	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co prward phase cut dimmers aust fans must be controlle ave readily accessible wall pypass a dimmer, occupar	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A.	§ 150.0(t)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that si source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must panelboard, with raceways install Heat Pump Space Heater Read, unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2A:	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co prward phase cut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the me applicable requirements of § 110.9.	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned e dimmer or sensor is installed	§ 150.0(t)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that si source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V bra
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2A: § 150.0(k)2A: § 150.0(k)2B:	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co prward phase cut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar pontrols must comply with the s. An energy management	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned e dimmer or sensor is installed comply with dimming,	§ 150.0(t) § 150.0(u)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit the blank cover identified as "2400
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2D:	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A.	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co prward phase cut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar ontrols must comply with the s. An energy management it provides the functionality poms, garages, laundry roo	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and to ports, utility rooms and walk-in closets, at le	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2A: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2C:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathron must be controlled by an occupancy or opaque fronts or doors must have control	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co onward phase cut dimmers aust fans must be controlle ave readily accessible wall oypass a dimmer, occupar ontrols must comply with th as. An energy managemen it provides the functionality coms, garages, laundry roo vacancy sensor providing rols that turn the light off w	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and to pus, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed.	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with	§ 150.0(t) § 150.0(u)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked so "240V ready."
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2D:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not be to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathroor must be controlled by an occupancy or opaque fronts or doors must have contro Dimmers. Lighting in habitable spaces mounted dimming controls that allow th	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co onward phase cut dimmers aust fans must be controlle ave readily accessible wall bypass a dimmer, occupar ontrols must comply with th is. An energy managemen it provides the functionality booms, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and to ours, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with we readily accessible wall-	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathron must be controlled by an occupancy or opaque fronts or doors must have contro Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co onward phase cut dimmers aust fans must be controlle ave readily accessible wall bypass a dimmer, occupar controls must comply with th is. An energy managemen it provides the functionality coms, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining ie lighting to be manually a vith NEMA SSL 7A. ing of exhaust fans shall b	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and t pors, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside hen the drawer or door is closed. rooms, kitchens, and bedrooms) must have adjusted up and down. Forward phase cut per controlled independently from the fans.	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with re readily accessible wall- dimmers controlling LED light Lighting under cabinets or	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2E: § 150.0(k)2F: § 150.0(k)2K:	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathro must be controlled by an occupancy or opaque fronts or doors must have contr Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sim	sed Luminaires. Lamps a cluding marking requireme and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co onward phase cut dimmers aust fans must be controlle ave readily accessible wall oypass a dimmer, occupar ontrols must comply with th is. An energy managemen it provides the functionality coms, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a vith NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be co gle-family residential build	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and t purs, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside hen the drawer or door is closed. rooms, kitchens, and bedrooms) must have adjusted up and down. Forward phase cut we controlled independently from the fans. controlled separately from ceiling-installed li ings, outdoor lighting permanently mounted	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with re readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. ed to a residential building, or to	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathror must be controlled by an occupancy or opaque fronts or doors must have contr Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must have	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh htrolled by vacancy sensor and are equipped with co onward phase cut dimmers aust fans must be controlle ave readily accessible wall bypass a dimmer, occupar ontrols must comply with the s. An energy management it provides the functionality boms, garages, laundry row vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be co gle-family residential build ave a manual on/off switch	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting o used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and t pors, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must have adjusted up and down. Forward phase cut we controlled independently from the fans.	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with re readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. ed to a residential building, or to or automatic time switch	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2F: § 150.0(k)2F: § 150.0(k)2F: § 150.0(k)2F: § 150.0(k)2A:	Light Sources in Enclosed or Recess elevated temperature requirements, inc Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathror must be controlled by an occupancy or opaque fronts or doors must have contro Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must have control) or an astronomical time clock. A applicable requirements may be used to	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co orward phase cut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar ontrols must comply with the s. An energy management it provides the functionality coms, garages, laundry root vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be co gle-family residential build ave a manual on/off switch An energy management co o meet these requirements	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the the applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and to coms, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must have digusted up and down. Forward phase cut the controlled independently from the fans. controlled separately from ceiling-installed lin ings, outdoor lighting permanently mounted to and either a photocell and motion sensor pontrol system that provides the specified control set is provided.	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. be manually turned dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with ve readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. do to a residential building, or to or automatic time switch ontrol functionality and meets all	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1I: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2F: § 150.	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if in § 150.0(k)2A. Automatic Shutoff Controls. In bathro must be controlled by an occupancy or opaque fronts or doors must have contr Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply with shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must have control) or an astronomical time clock. A applicable requirements may be used to Internally illuminated address signs. watts of power. Residential Garages for Eight or Mor	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co provide the secut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall the provides the functionality ones, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be o gle-family residential build ave a manual on/off switch An energy management oc o meet these requirements Internally illuminated addr e Vehicles. Lighting for re	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and to oms, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must have adjusted up and down. Forward phase cut we controlled independently from the fans. controlled separately from ceiling-installed li ings, outdoor lighting permanently mounted on and either a photocell and motion sensor ontrol system that provides the specified c s. ess signs must either comply with § 140.8 sidential parking garages for eight or more	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. be manually turned dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with ve readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. d to a residential building, or to or automatic time switch ontrol functionality and meets all or consume no more than 5	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1H: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2F: § 150.	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathror must be controlled by an occupancy or opaque fronts or doors must have contr Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must have control) or an astronomical time clock. <i>A</i> applicable requirements may be used to Internally illuminated address signs. watts of power. Residential Garages for Eight or Mor applicable requirements for nonresident	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh ntrolled by vacancy sensor and are equipped with co provide the secut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall oppass a dimmer, occupar ontrols must comply with the security accessible wall the provides the functionality ones, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be o gle-family residential build ave a manual on/off switch An energy management oc o meet these requirements Internally illuminated addr e Vehicles. Lighting for re	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the ne applicable requirements of § 110.9. It control system (EMCS) may be used to or of the specified control per § 110.9 and to oms, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must have adjusted up and down. Forward phase cut we controlled independently from the fans. controlled separately from ceiling-installed li ings, outdoor lighting permanently mounted on and either a photocell and motion sensor ontrol system that provides the specified c s. ess signs must either comply with § 140.8 sidential parking garages for eight or more	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. be manually turned dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with ve readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. d to a residential building, or to or automatic time switch ontrol functionality and meets all or consume no more than 5	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1H: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2F: § 150.	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathror must be controlled by an occupancy or opaque fronts or doors must have contr Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must have control) or an astronomical time clock. <i>A</i> applicable requirements may be used to Internally illuminated address signs. watts of power. Residential Garages for Eight or Mor applicable requirements for nonresident S: Single-family Residences. Single-fami	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh htrolled by vacancy sensor and are equipped with co orward phase cut dimmers aust fans must be controlle ave readily accessible wall bypass a dimmer, occupar ontrols must comply with the s. An energy management it provides the functionality coms, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be c gle-family residential build ave a manual on/off switch An energy management co o meet these requirements Internally illuminated addr e Vehicles. Lighting for re tial garages in §§ 110.9, 1	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the the applicable requirements of § 110.9. It control system (EMCS) may be used to by of the specified control per § 110.9 and to puss, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must hav idjusted up and down. Forward phase cut the controlled independently from the fans. controlled separately from ceiling-installed li- ings, outdoor lighting permanently mounted and either a photocell and motion sensor partrol system that provides the specified cos ess signs must either comply with § 140.8 sidential parking garages for eight or more 30.0, 130.1, 130.4, 140.6, and 141.0.	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. be manually turned dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with re readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. d to a residential building, or to or automatic time switch ontrol functionality and meets all or consume no more than 5 e vehicles must comply with the	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked source 240V ready.
§ 150.0(k)1H: § 150.0(k)1H: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2F: § 150.	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathror must be controlled by an occupancy or opaque fronts or doors must have contro Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must have control) or an astronomical time clock. <i>A</i> applicable requirements may be used to Internally illuminated address signs. watts of power. Residential Garages for Eight or Mor applicable requirements for nonresident s: Single-family Residences. Single-fam application for a tentative subdivision m which do not have a photovoltaic system	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh htrolled by vacancy sensor and are equipped with co orward phase cut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar ontrols must comply with the s. An energy management it provides the functionality coms, garages, laundry root vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be co gle-family residential build ave a manual on/off switch An energy management co o meet these requirements Internally illuminated addr e Vehicles. Lighting for re tial garages in §§ 110.9, 1 ily residences located in st ap for the residences has m installed, must comply w	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the the applicable requirements of § 110.9. It control system (EMCS) may be used to by of the specified control per § 110.9 and to ports, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must hav idjusted up and down. Forward phase cut the controlled independently from the fans. controlled separately from ceiling-installed li ings, outdoor lighting permanently mounted and either a photocell and motion sensor ontrol system that provides the specified cost ess signs must either comply with § 140.8 sidential parking garages for eight or more 30.0, 130.1, 130.4, 140.6, and 141.0. ubdivisions with 10 or more single-family no been deemed complete and approved by <i>v</i> ith the requirements of § 110.10(b)-(e).	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. be manually turned dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with re readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. d to a residential building, or to or automatic time switch ontrol functionality and meets all or consume no more than 5 e vehicles must comply with the esidences and where the the enforcement agency,	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked so "240V branch circuit wiring installe"
§ 150.0(k)1H: § 150.0(k)1H: § 150.0(k)2A: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2B: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2C: § 150.0(k)2F: § 150.	Light Sources in Enclosed or Recess elevated temperature requirements, ind Light Sources in Drawers, Cabinets, to comply with Table 150.0-A or be com- power, emit no more than 150 lumens, linen closet is closed. Interior Switches and Controls. All for Interior Switches and Controls. Exha Accessible Controls. Lighting must ha on and off. * Multiple Controls. Controls must not b to comply with § 150.0(k). Mandatory Requirements. Lighting co Energy Management Control System occupancy, and control requirements if i in § 150.0(k)2A. Automatic Shutoff Controls. In bathro must be controlled by an occupancy or opaque fronts or doors must have contro Dimmers. Lighting in habitable spaces mounted dimming controls that allow th sources in these spaces must comply w Independent controls. Integrated light shelves, lighting in display cabinets, and Residential Outdoor Lighting. For sin other buildings on the same lot, must ha control) or an astronomical time clock. <i>A</i> applicable requirements may be used to Internally illuminated address signs. watts of power. Residential Garages for Eight or Mor applicable requirements for nonresident s: Single-family Residences. Single-fami application for a tentative subdivision m which do not have a photovoltaic syster Minimum Solar Zone Area. The solar i access, pathway, smoke ventilation, and	sed Luminaires. Lamps a cluding marking requirement and Linen Closets. Ligh htrolled by vacancy sensor and are equipped with co orward phase cut dimmers aust fans must be controlle ave readily accessible wall oppass a dimmer, occupar ontrols must comply with the s. An energy management it provides the functionality ooms, garages, laundry roo vacancy sensor providing rols that turn the light off w (e.g., living rooms, dining e lighting to be manually a with NEMA SSL 7A. ing of exhaust fans shall b switched outlets must be co gle-family residential build ave a manual on/off switch An energy management co o meet these requirements Internally illuminated addr e Vehicles. Lighting for re tial garages in §§ 110.9, 1 illy residences located in si ap for the residences has m installed, must comply w zone must have a minimu d spacing requirements as	and other separable light sources that are ents, must not be installed in enclosed or r t sources internal to drawers, cabinetry or s provided that they are rated to consume ntrols that automatically turn the lighting of used with LED light sources must comply d separately from lighting systems. * I-mounted controls that allow the lighting to at sensor, or vacancy sensor function if the the applicable requirements of § 110.9. It control system (EMCS) may be used to y of the specified control per § 110.9 and to oms, utility rooms and walk-in closets, at le automatic-off functionality. Lighting inside then the drawer or door is closed. rooms, kitchens, and bedrooms) must have idjusted up and down. Forward phase cut we controlled independently from the fans. controlled separately from ceiling-installed li- ings, outdoor lighting permanently mounte ess signs must either comply with § 140.8 sidential parking garages for eight or more 30.0, 130.1, 130.4, 140.6, and 141.0. ubdivisions with 10 or more single-family ro- been deemed complete and approved by vith the requirements of § 110.10(b)-(e). m total area as described below. The sola a specified in Title 24, Part 9 or other parts	ppendix JA8. * not compliant with the JA8 ecessed luminaires. linen closets are not required no more than 5 watts of ff when the drawer, cabinet or with NEMA SSL 7A. b be manually turned c dimmer or sensor is installed comply with dimming, he physical controls specified east one installed luminaire drawers and cabinets with re readily accessible wall- dimmers controlling LED light Lighting under cabinets or ghting. d to a residential building, or to or automatic time switch ontrol functionality and meets all or consume no more than 5 e vehicles must comply with the esidences and where the the enforcement agency, r zone must comply with of Title 24 or in any	§ 150.0(t) § 150.0(u) § 150.0(v)	Energy Storage System (ESS) I equipment with backed up capaci main service to a subpanel that s source collocated at a single pan near the primary exit, and one cir 225 amps; sufficient space must I panelboard, with raceways install Heat Pump Space Heater Read unobstructed 240V branch circuit identified as "240V ready;" and a permanently marked as "For Futu Electric Cooktop Ready. System 240V branch circuit wiring installe "240V ready;" and a reserved ma marked as "For Future 240V use. Electric Clothes Dryer Ready. O dedicated unobstructed 240V branch circuit breaker permanently marked so "240V branch circuit wiring installe"
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dential Mandatory Requirements Summary	
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s must comply with all applicable mandatory measures, regardless of the compliance approach

erior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or , or AAMA/WDMA/CSA 101/I.S.2/A440-2011. * doors must have a label meeting the requirements of § 10-111(a). ration products must use U-factors and solar heat gain coefficient (SHGC) values from doors. They must be caulked and/or weather-stripped. openings in the building envelope that are potential sources of air leakage must be sulation must be certified by the Department of Consumer Affairs, Bureau of Household loors. Heated slab floors must be insulated per the requirements of § 110.8(g). termal Emittance. The thermal emittance and aged solar reflectance values of the of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified iers must have an emittance of 0.05 or less and be certified to the Department of Consumer tion. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted g and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average terations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access tion using adhesive or mechanical fasteners. The attic access must be gasketed to d in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration d to placing insulation either above or below the roof deck or on top of a drywall ceiling. st meet the manufacturer's required density for the labeled R-value. 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood paque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. lation in raised wood framed floor or 0.037 maximum U-factor. ust meet all of the following: have a water absorption rate, for the insulation material alone ; have a water vapor permeance no greater than 2.0 perm per inch; be protected from and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g). , the earth floor of unvented crawl space must be covered with a Class I or Class II controlled ventilation crawl space for buildings complying with the exception to a Class I or Class II vapor retarder must be installed on the conditioned space side of , and unvented attics with air-permeable insulation. ng skylights, separating conditioned space from unconditioned space or outdoors must have average U-factor of all fenestration must not exceed 0.45. e not allowed for indoor and outdoor fireplaces. aces must have a closable metal or glass door covering the entire opening of the firebox. eplaces must have a combustion outside air intake, which is at least six square inches ir operable, and tight-fitting damper or combustion-air control device. s must have a flue damper with a readily accessible control. * itioning (HVAC) equipment, water heaters, showerheads, faucets, and all other anufacturer to the California Energy Commission. licable efficiency requirements in Table 110.2-A through Table 110.2-N.* ry Electric Resistance Heaters. Heat pumps with supplementary electric resistance mentary heater operation when the heating load can be met by the heat pump alone; ssion heating is higher than the cut-on temperature for supplementary heating, and is higher than the cut-off temperature for supplementary heating. controlled by a central energy management control system (EMCS) must have a

ge tanks and solar water-heating backup tanks must have adequate insulation, or tank s with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with ot water lines to allow for flushing the water heater when the valves are closed.

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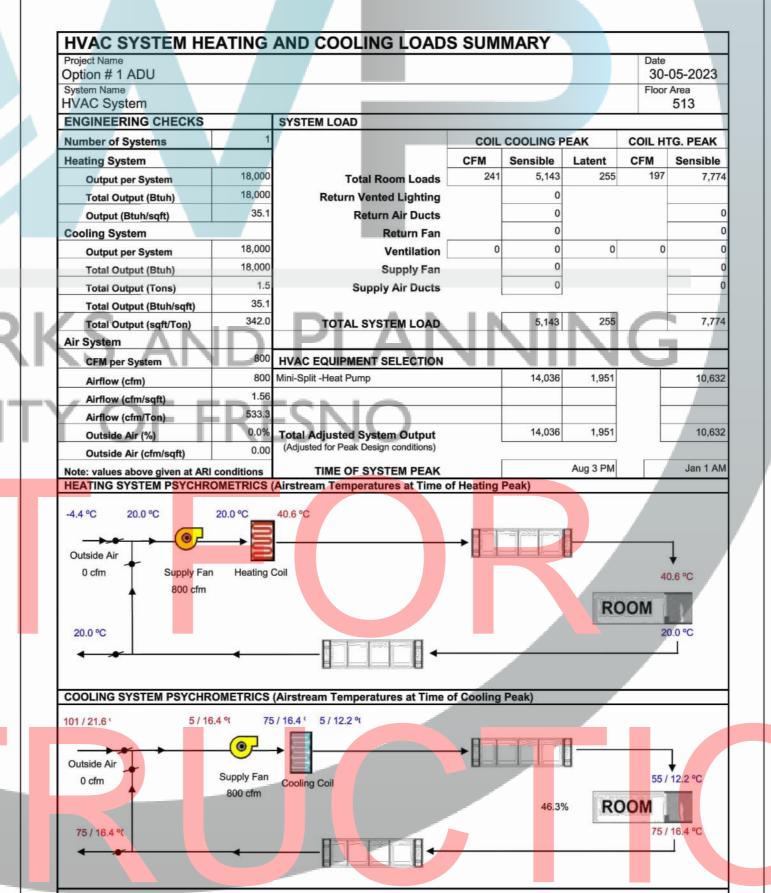
dential Mandatory Requirements Summary

Ingle-family residences must meet all of the following: Either ESS-ready interconnection is or more and four or more ESS supplied branch circuits, <u>or</u> a dedicated raceway from the ranch circuits in § 150.0(s); at least four branch circuits must be identified and have their ole to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit g a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of o allow future installation of a system isolation equipment/transfer switch within 3' of the main he panelboard and the switch location to allow the connection of backup power source. sing gas or propane furnaces to serve individual dwelling units must include: A dedicated ed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover n electrical service panel space to allow for the installation of a double pole circuit breaker

or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed f the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as service panel space to allow for the installation of a double pole circuit breaker permanently

locations with gas or propane plumbing to serve individual dwelling units must include: A ring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with a reserved main electrical service panel space to allow for the installation of a double pole ture 240V use."

§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliar (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); 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 clearance of at least five feet from the outlet of dryer.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified in manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterprinon-crushable casing or sleeve.
§ 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 or 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 Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAI 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 (C contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insu R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4 do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings n sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", If mastic or tape is used. Buil cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct to flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installe
	these spaces must not be compressed. *
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct constru connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber ad 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 mastics, sealants, 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 backdraft or automa dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accer manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft ver
§ 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 cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner con 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 a occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testin 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 MI or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 19 Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypace filter. *



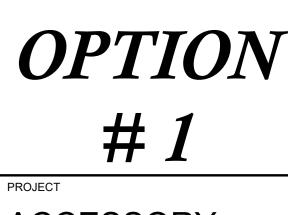


2022 Single-Family Residential Mandatory Requirements Summary

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 be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *	
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole- dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.	
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses . Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.	
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *	
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C 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 required by §150.0(o)1C.	
	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating,	
§ 150.0(o)2:	and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods	
	must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow	
	rates and sound requirements per §150.0(o)1G	
ool and Spa Sys	stems and Equipment:	
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *	
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.	
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.	
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.	
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.	
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *	
ighting:		
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*	
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§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and liner closets with an efficacy of at least 45 lumens per watt.	
150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*	
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtig and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.	
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.	
§ 150.0(k)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.	
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).	

5/6/22



500 SQ. FT. MODEL (513

SQ.FT.)

ACCESSORY DWELLING UNIT

PWP23-003

DEPARTMENT OF PUBLIC WORKS AND PLANNING



CAPITAL PROJECTS DIVISION

2220 Tulare St., Ste. 720, Fresno, CA. 93721 Phone: (559) 262-4212 Fax: (559) 262-4879



UPDATE

JULY 10, 2023

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TITLE 24 MANDATORY MEASURES

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 MARCH 7, 2023
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