



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023) SECTION Y N/A RESPON. PARTY SECTION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL N/A RESP PAR

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Y	N/A	RESPON.	CHAPTER 3	Y N/	A RESPON	FOR REFERENCE ONLY: THE FOLLOWING TABLE AND CODE SECTION HAVE BEEN REPRINTED FROM THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTION
		PARIY	GREEN BUILDING SECTION 301 GENERAL		PARTY	1605.1 (H)(4) AND SECTION 1605.3 (H)(4)(A).
			301.1 SCOPE. BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE.			STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES
			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			MANUFACTURED ON OR AFTER JANUARY 28, 2019
			SPECIFIED IN SECTION 101.7. 301.1.1 ADDITIONS AND ALTERATIONS. [HCD] THE MANDATORY PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS			PRODUCT CLASS MAXIMUM FLOW RATE (GPM) [spray force in ounce force (ozf)]
			WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION			PRODUCT CLASS 1 (≤ 5.0 OZF) 1.00 PRODUCT CLASS 2 (> 5.0 OZF AND ≤ 8.0 OZF) 1.20
			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			PRODUCT CLASS 3 (> 8.0 OZF) 1.28
			EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION. NOTE: REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPING AND REPAIRING			TITLE 20 SECTION 1605.3 (H)(4)(A): COMMERCIAL PRERINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 1, 2006, SHALL HAVE A MINIMUM SPRAY FORCE OF NOT LESS THAN 4.0
			OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.		3	4.303.2 SUBMETERS FOR MULTIFAMILY BUILDINGS AND DWELLING UNITS IN MIXED-USED
			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			RESIDENTIAL/COMMERCIAL BUILDINGS. SUBMETERS SHALL BE INSTALLED TO MEASURE WATER USAGE OF INDIVIDUAL RENTAL DWELLING UNITS IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.
			REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY OR FINAL PERMIT APPROVAL BY THE LOCAL BUILDING		OORC	4.303.3 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS
			NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.			APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE. NOTE:
			301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE			THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.
			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			FIXTURE TYPE FLOW RATE
			BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.			SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI LAVATORY FAUCETS (RESIDENTIAL) MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
			302.1 MIXED OCCUPANCY BUILDINGS. IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES			LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS 0.5 GPM @ 60 PSI KITCHEN FAUCETS 1.8 GPM @ 60 PSI
			APPLICABLE TO EACH SPECIFIC OCCUPANCY. EXCEPTIONS:			METERING FAUCETS 0.2 GAL/CYCLE WATER CLOSET 1.28 GAL/FLUSH
			 [HCD] ACCESSORY STRUCTURES AND ACCESSORY OCCUPANCIES SERVING RESIDENTIAL BUILDINGS SHALL COMPLY WITH CHAPTER 4 AND APPENDIX A4, AS APPLICABLE. [HCD] FOR PURPOSES OF CALGREEN LIVE/WORK UNITS, COMPLYING WITH SECTION 419 OF 			URINALS 0.125 GAL/FLUSH
			THE CALIFORNIA BUILDING CODE, SHALL NOT BE CONSIDERED MIXED OCCUPANCIES. LIVE/WORK UNITS SHALL COMPLY WITH CHAPTER 4 AND APPENDIX A4, AS APPLICABLE.		O OR C	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
			DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:			DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT. NOTES:
			HCD DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT BSC CALIFORNIA BUILDING STANDARDS COMMISSION DSA-SS DIVISION OF THE STATE ARCHITECT. STRUCTURAL SAFETY			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/
			OSHPD OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT LR LOW INSE			DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE
			AA ADDITIONS AND ALTERATIONS N NEW			EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE
			CHAPTER 4 RESIDENTIAL MANDATORY MEASURES			 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
			SECTION 4.102 DEFINITIONS			OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.
			THE FOLLOWING TERMS ARE DEFINED IN CHAPTER 2 (AND ARE INCLUDED HERE FOR REFERENCE) FRENCH DRAIN. A TRENCH, HOLE OR OTHER DEPRESSED AREA LOOSELY FILLED WITH ROCK, GRAVEL,		O OR C	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
			FRAGMENTS OF BRICK OR SIMILAR PERVIOUS MATERIAL USED TO COLLECT OR CHANNEL DRAINAGE OR RUNOFF WATER.			AND DEMOLITION WASTE MANAGEMENT ORDINANCE. EXCEPTIONS:
			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 ALSO USED FOR			 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
			PERIMETER AND INLET CONTROLS. 4.106 SITE DEVELOPMENT			ARE NOT LOCATED REASONABLY CLOSE TO THE JOBSITE. 3. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN ISOLATED LODSITES ARE LOCATED IN AREAS REVOID THE HAUL BOUNDARIES OF THE
X		O OR C	4.106.1 GENERAL. PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND AD ACEMENT ADEAS. DRESEDVATION OF SUCRES MANAGEMENT OF STORM WATER			DIVERSION FACILITY.
		O OR C	DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION. 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. PROJECTS WHICH			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
			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 DUBING CONSTRUCTION IN ORDER TO MANAGE STORM WATER DRAINAGE DUBING			EXAMINATION BY THE ENFORCING AGENCY. 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
			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.			 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
			 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, 			MATERIAL COLLECTED WILL BE TAKEN. 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE CENERATED.
			GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY. 3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.			5. SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.
			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 DISTURDS ONE ACRE OF MORE OF SOIL			4.408.3 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE
			(WEBSITE: HTTPS://WWW.WATERBOARDS.CA.GOV/WATER_ISSUES/PROGRAMS/STORMWATER/ CONSTRUCTION.HTML)			WITH SECTION 4.408.1. NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION AND
X		O OR C	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			4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. PROJECTS THAT GENERATE A TOTAL
			TO, THE FOLLOWING: 1. SWALES			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
			 WATER COLLECTION AND DISPOSAL SYSTEMS FRENCH DRAINS WATER RETENTION GARDENS 			4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION AND DEMOLITON WASTE DISPOSED OF IN LANDFILLS,
			5. OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE.			MINIMUM 65% CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1
			DIVISION 4.2 ENERGY EFFICIENCY		JOORC	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
			 4.201 GENERAL 4.201.1 SCOPE. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY STANDARDS. 			NOTES: 1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (RESIDENTIAL)" LOCATED AT WWW.HCD.CA.GOV/CALGREEN.HTML MAY BE USED TO ASSIST IN
			DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION			DOCUMENTING COMPLIANCE WITH THIS SECTION. 2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C & D) PROCESSORS CAN BE LOCATED AT THE CALLEORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CAL RECYCLE)
		O OR C	4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE			4.410 BUILDING MAINTENANCE AND OPERATION
			SECTIONS 4.303.1.1, 4.303.1.2, 4.303.1.3, AND 4.303.4.4. NOTE: ALL NONCOMPLIANT PLUMBING FIXTURES IN ANY RESIDENTIAL REAL PROPERTY SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS		J O OR C	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:
			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 PLUMPING FIXTURE			 DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
			TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.			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 FOUIPMENT
			EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.			 B. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS. C. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS. D. LANDSCAPE IRRIGATION SYSTEMS.
			AVERAGE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.			E. WATER REUSE SYSTEMS. 3. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FUDITED DEDUCTOR DECOMPOSITION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS
			4.303.1.2 URINALS. THE EFFECTIVE FLUSH VOLUME OF WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.			 10 FORTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS. 4. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
			4.303.1.3 SHOWERHEADS. 4.303.1.3.1 SINGLE SHOWERHEAD. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 18 GALLONS PER MINISTER AT 80 PSL SHOWERHEADS SHALL BE CERTIFIED TO THE			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.
			PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.			 INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF
			4.303.1.3.2 MOLTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE			DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION. 8. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO CALLY KING, BAINTING, GRADING ABOUIND THE BUILDING, ETC.
			AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ONLY ALLOW ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.			 INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE. A COPY OF ALL SPECIAL INSPECTIONS VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE
			4.303.1.4 FAUCETS. 4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY			OK THIS CODE. 11. INFORMATION FROM THE DEPARTMENT OF FORESTRY AND FIRE PROTECTION ON MAINTENANCE OF DEFENSIBLE SPACE AROUND RESIDENTIAL STRUCTURES.
			FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.			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
			4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS. THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR			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
			4.303.1.4.3 METERING FAUCETS. METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS			CARDBOARD, GLASS, PLASTICS, ORGANIC WASTER, AND METALS, OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.
			SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE. 4.303.1.4.4 KITCHEN FAUCETS. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED			RESOURCES CODE SECTION 4649.82 (A)(2)(A) ET SEQ. ARE NOTE REQUIRED TO COMPLY WITH THE ORGANIC WASTE PORTION OF THIS SECTION.
			1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI			
			NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.			
			4.303.1.4.5 PRE-RINSE SPRAY VALVES. WHEN INSTALLED, SHALL MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, ITTLE 20 (APPLIANCE EEROLENCY DECUMATIONS) SECTIONS 40054 (INVESTIGATIONS FOR A CODE OF REGULATIONS)			
			(H)(4)(A), AND SECTION 1607(D)(7) AND SHALL BE EQUIPPED WITH AN INTEGRAL AUTOMATIC SHUTOFF.			
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4.501.1 SCOPE THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUALITY OF AIR CONTAMINANTS THA**T ARE ODOROUS**, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS THE FOLLOWING TERMS ARE DEFINED IN CHAPTER 2 (AND ARE INCLUDED HERE FOR REFERENCE) AGRIFIBER PRODUCTS. AGRIFIBER PRODUCTS INCLUDE WHEATBOARD, STRAWBOARD, PANEL SUBSTRATES AND DOOR CORES, NOT INCLUDING FURNITURE, FIXTURES AND EQUIPMENT (FF&E) NOT CONSIDERED BASE BUILDING ELEMENTS COMPOSITE WOOD PRODUCTS. COMPOSITE WOOD PRODUCTS INCLUDE HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD. "COMPOSITE WOOD PRODUCTS" DOES NOT INCLUDE HARDBOARD STRUCTURAL PLYWOOD STRUCTURAL PANELS STRUCTURAL COMPOSITE

LUMBER, ORIENTED STRAND BOARD, GLUED LAMINATED TIMBER, PREFABRICATED WOOD I-JOISTS OR FINGER-JOINTED LUMBER, ALL AS SPECIFIED IN CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 17, SECTION 93120.1. DIRECT-VENT APPLIANCE, A FUEL-BURNING APPLIANCE WITH A SEALED COMBUSTION SYSTEM THAT DRAWS ALL AIR FOR COMBUSTION FROM THE OUTSIDE ATMOSPHERE AND DISCHARGES ALL FLUE GASES TO THE OUTSIDE ATMOSPHERE. MAXIMUM INCREMENTAL REACTIVITY (MIR), THE MAXIMUM CHANGE IN WEIGHT OF OZONE FORMED BY ADDING A COMPOUND TO THE "BASE REACTIVE ORGANIC GAS (ROG) MIXTURE" PER WEIGHT OF COMPOUND ADDED. EXPRESSED TO HUNDREDTHS OF A GRAM (G O³/G ROC).

NOTE: MIR VALUES FOR INDIVIDUAL COMPOUNDS AND HYDROCARBON SOLVENTS ARE SPECIFIED IN CCR, TITLE 17, SECTIONS 94700 AND 94701. MOISTURE CONTENT, THE WEIGHT OF THE WATER IN WOOD EXPRESSED IN PERCENTAGE OF THE WEIGHT OF THE OVEN-DRY WOOD.

PRODUCT-WEIGHTED MIR (PWMIR) THE SUM OF ALL WEIGHTED-MIR FOR ALL INGREDIENTS IN A PRODUCT SUBJECT TO THIS ARTICLE. THE PWMIR IS THE TOTAL PRODUCT REACTIVITY EXPRESSED T HUNDREDTHS OF A GRAM OF OZONE FORMED PER GRAM OF PRODUCT (EXCLUDING CONTAINER ANI ACKAGING) NOTE: PWMIR IS CALCULATED ACCORDING TO EQUATIONS FOUND IN CCR. TITLE 17. SECTION 94521 (A REACTIVE ORGANIC COMPOUND (ROC). ANY COMPOUND THAT HAS THE POTENTIAL, ONCE EMITTED, TO CONTRIBUTE TO OZONE FORMATION IN THE TROPOSPHERE. VOC. A VOLATILE ORGANIC COMPOUND (VOC) BROADLY DEFINED AS A CHEMICAL COMPOUND BASED ON CARBON CHAINS OR RINGS WITH VAPOR PRESSURES GREATER THAN 0.1 MILLIMETERS OF

MERCURY AT ROOM TEMPERATURE. THESE COMPOUNDS TYPICALLY CONTAIN HYDROGEN AND MAY CONTAIN OXYGEN, NITROGEN AND OTHER ELEMENTS. SEE CCR TITLE 17, SECTION 94508(A). 4.503 FIREPLACES 4.503.1 GENERAL. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMAN ABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET TOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

4.504 POLLUTANT CONTROL A 🔽 🗖 O OR C 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION TE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT O OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, ASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE IE AMOUNT OF WATER, DUST OR DEBRIS WHICH MAY ENTER THE SYSTEM. 🛛 🗖 O OR C 🚽 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. FINISH MATERIALS SHALL COMPLY WITH THIS 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 MANAGEMENT DISTRICT RULES 1. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE PERCHLOROETHYLENE AND TRICLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW. 2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR

CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF *CALIFORNIA CODE OF REGULATIONS*, TITLE 17, COMMENCING WITH SECTION 94507. 4.504.2.2 PAINTS AND COATINGS. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL UMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, ANE THE 2007 CALIFORNIA AIR RESOURCES BOARD. SUGGES MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

4,504.2.3 AEROSOL PAINTS AND COATINGS. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49. 4.504.2.4 VERIFICATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING: MANUFACTURER'S PRODUCT SPECIFICATION.
 FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

 MANUFACTURER'S PRODUCT SPECIFICATION. FIELD VERIFICATION OF ON-SITE PRODUCT CONT 	TAINER <mark>S.</mark>			O OR
TABLE 4.504.1 - ADHESIVE VOC LIMI	T ₁₂			
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)				
ARCHITECTURAL APPLICATIONS	VOC LIMIT			
INDOOR CARPET ADHESIVES	50			
CARPET PAD ADHESIVES	50	11		
OUTDOOR CARPET ADHESIVES	150		_	
WOOD FLOORING ADHESIVES	100			0 OR
RUBBER FLOOR ADHESIVES	60			
SUBFLOOR ADHESIVES	50			0 OR
CERAMIC TILE ADHESIVES	65			
VCT & ASPHALT TILE ADHESIVES	-50			
DRYWALL & PANEL ADHESIVES	50			
COVE BASE ADHESIVES	50			
MULTIPURPOSE CONSTRUCTION ADHESIVE	70			
STRUCTURAL GLAZING ADHESIVES	100			
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250			
OTHER ADHESIVES NOT LISTED	50	\boxtimes		0 OR
SPECIALTY APPLICATIONS				
PVC WELDING	510			
CPVC WELDING	490			0 OR
ABS WELDING	325			
PLASTIC CEMENT WELDING	250			
ADHESIVE PRIMER FOR PLASTIC	550			
CONTACT ADHESIVE	80			
SPECIAL PURPOSE CONTACT ADHESIVE	250			
STRUCTURAL WOOD MEMBER ADHESIVE	140			
TOP & TRIM ADHESIVE	250			
SUBSTRATE SPECIFIC APPLICATIO	NS			-
	30			
PLASTIC FOAMS	50			
	50			O OR
	30		-	0.010
FIBERGLASS	80			
1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES	TOGETHER. THE ADHESIVE WITH THE			0.08
HIGHEST VOC CONTENT SHALL BE ALLOWED.	,	F	-	0 OK
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO M THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DI	MEASURE THE VOC CONTENT SPECIFIED IN ISTRICT RULE 1168.			
TABLE 4.504.2 - SEALANT VOC LIMIT				
(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)				
SEALANTS	VOC LIMIT			
ARCHITECTURAL	250			O OR
MARINE DECK	760			
NONMEMBRANE ROOF	300			
ROADWAY	-250			
SINGLE-PLY ROOF MEMBRANE	450			
OTHER	420			
SEALANT PRIMERS				
ARCHITECTURAL				

ON. TY	TABLE 4.504.3 - VOC CONTENT LIMITS F	FOR
	GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMP	POUNDS
	NON-FLAT COATINGS	100
	NONFLAT-HIGH GLOSS COATINGS	150
	ALUMINUM ROOF COATINGS	400
	BASEMENT SPECIALTY COATINGS BITUMINOUS ROOF COATINGS	400 50
	BITUMINOUS ROOF PRIMERS	350
	CONCRETE CURING COMPOUNDS	350 350
_	CONCRETE/MASONRY SEALERS DRIVEWAY SEALERS	1 00 50
	DRY FOG COATINGS	150
	FIRE RESISTIVE COATINGS	350
	FLOOR COATINGS FORM-RELEASE COMPOUNDS	100 250
	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
	INDUSTRIAL MAINTENANCE COATINGS	250
	LOW SOLIDS COATINGS1 MAGNESITE CEMENT COATINGS	450
_	MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS	100
	MULTICOLOR COATINGS	250
	PRIMERS, SEALERS, & UNDERCOATERS	420
	REACTIVE PENETRATING SEALERS RECYCLED COATINGS	250
2	ROOF COATINGS	50
	SHELLACS	200
	OPAQUE	730
	SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS	100
	STONE CONSOLIDANTS	450
	TRAFFIC MARKING COATINGS	100
-	TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	420
	WOOD COATINGS	275
	ZINC-RICH PRIMERS	350 340
	1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXI 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMIT	EMPT COMPOUNDS
	COLUMNS IN THE TABLE. 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY	THE CALIFORNIA AIR RESOURCE
	IS AVAILABLE FROM THE AIR RESOURCES BOARD.	RE, FEB. 1, 2008. MORE INFORMA
	TABLE 4.504.5 - FORMALDEHYDE LIMIT	S ₁
	PRODUCT	CURRENT LIMIT
	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE	CURRENT LIMIT 0.05 0.05
	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENISITY EIEEPPOARD	CURRENT LIMIT 0.05 0.09 0.11
	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2	CURRENT LIMIT 0.05 0.09 0.11 0.13
	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION FOR COMPOSITE WOOD AS TESTED	CURRENT LIMIT
	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS	CURRENT LIMIT
c	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS 4.504.3 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING	CURRENT LIMIT
² C	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS 4.504.3 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEAD TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMIST USING ENVIRONMENTAL CHAMBERS "VERSION 1.2 JANUARY 2017.(J	CURRENT LIMIT
ő	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS 4.504.3 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEAD TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISS USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (IC CALIFORNIA SPECIFICATION 01350)	CURRENT LIMIT
. C	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS 4.504.3 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEAL TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISS USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (IC CALIFORNIA SPECIFICATION 01350) SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR TESTING LABS.	CURRENT LIMIT
	PRODUCT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD MEDIUM DENSITY FIBERBOARD THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY AR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS 4.504.3 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEAL TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISS USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (IC CALIFORNIA SPECIFICATION 01350) SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR TESTING LABS. HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQU 4.504.3.1 CARPET CUSHION. ALL CARPET CUSHION INSTALLED IN MEET THE REDUIDEMENTS OF THE CALIFORNIA DEPARTMENT OF	CURRENT LIMIT
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CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE ACI 302.2R-06. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENC A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL

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4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING: 1. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE. 2. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET (610 MM) TO 4 FEET (1219 MM) FROM THE GRADE STAMPED END OF EACH PIECE VERIFIED. 3. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING

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





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	DOOF	RSC	HE	DUL	E:							1	DV	VF		IN (G
		H HEIGHT	THICI	< MATE	ERIAL /D TG	FINISH PT H	TYPE G BF BP	PC SC H	RE FRAI	ME PT	DETAIL OR COMMENT						
	A 3'-0 B 3'-0 C 5'-0	" 6'-8" " 6'-8" " 6'-8"	•	•						• • •	4 1 3			U			
	D 3'-0 E	" 6'-8"								•	2	(TA	D	U-()0	1)
	MATEF PL = PLASTIC WD = WOOD	RIAL LAMINAT	E SC = HC =	CORE SOLID CO HOLLOW	RE CORE	1. SEE 2. SEE	DETAIL D/A.5	DETAIL OR					F		ΔΝ	1	
	TG = TEMPER TYF HG = HINGED	RED GLAS	S HM =	HOLLOW FINISH	METAL	3. SEE 4. SEE	DETAIL F/A.5 DETAIL G/A.5	5					•				
	BF = BI FOLD BP = BI PASS PC = POCKET	DOOR DOOR DOOR	WD =	FRAME = WOOD PAINTED													
	EGRE	SS,	EX	ITS	, &	STA	IRWA	Y NC	DTES	•							
	1. THE MEAN EGRESS T EGRESS D	IS OF EGF RAVEL FF OOR WIT	RESS SH ROM ALL HOUT RE	ALL PROV PORTIONS	IDE A C S OF TH TRAVEL	ONTINUOU: E DWELLIN L THROUGH	S AND UNOBS G TO THE EX A GARAGE. T	TRUCTED PATERIOR OF T	ATH OF VERTI HE DWELLING ED EGRESS D	— CAL ANE 3 AT THE OOR SH/	HORIZONTAL REQUIRED ALL OPEN						
	2. AT LEAST 3. PROVIDE 4. THE ENTR	ONE DOC MINIMUM	JBLIC W R SHAL 32" WIDE OOR MUS	AY OR TO L BE 36" W E DOORS T ST OPEN O	A YARL IDE BY O ALL I	80" HIGH. (F INTERIOR A LANDING N	CCESSIBLE R CCESSIBLE R MORE THA	OOMS. (R 31	IC WAY. (R 31 [,] 1.2) N THE THRES	1.1) HOLD.E	XCEPTION:						
	PROVIDIN THRESHO (R 311.3.1)	G THE DO LD. STOR	OR DOE M AND S	S NOT SW CREEN DC	ING OVI DORS A	ER THE LAN RE PERMIT	IDING. LANDIN TED TO SWING	NG SHALL BE G OVER ALL I	ENOT MORE T EXTERIOR ST	HAN 7.75 AIRS AN	5" BELOW THE D LANDINGS.						
	 A LANDING A LANDING STAIRWAY A. 7.75" M 	G SHALL E Y DETAILS AXIMUM F	E PROV	IDED AT TI	HE TOP	AND BOTT	OM OF STAIR	WAYS. (R 311	.7.6)					RE	EVISIONS		
	B. MINIMU C. MINIMU D. HANDR	JM 6'-8" HE JM 36" CLE AILS 34" T	ADROO AR WID O 38" HI	M CLEARA TH. (R 311. GH ABOVE	NCE. (R 7.1) E TREAD	R 311.7.2) D NOSING (F	311.7.8.1)					NO.	DESCRI	PTION			DATE
	E. HANDG DIMEN F. MAXIM 8. ALL INTER	SION HAVI UM 4" CLE NOR AND	NG A SM AR SPACE EXTERIC	HANDRAIL 100TH SUI CING OPEI OR STAIRW	SHALL RFACE NING BE /AYS SH	NOT BE LES WITH NO SI ETWEEN RA HALL BE ILL	HARP CORNEF ILS. (R 312.1.3 UMINATED. (F	* AND NO MO RS. (R 311.7.8 3) R 303.7)	3.5)	RUSS- S	ECTIONAL						
	9. FOR GLAS THE LOAD THICKNES	S HANDR	AILS ANI IED IN C GLASS	D GUARDS HAPTER 16 SHALL BE	, THE P. 6 OF CB 1/4 INCI	ANELS AND BC. A SAFET H. (CBC 240	THEIR SUPPO Y FACTOR OF 7)	ORT SYSTEM	I SHALL BE DE L BE USED. T	ESIGNED HE MININ	TO WITHSTANE)					
	10. PROVIDE CLEAR HE 12. ENCLOSE PROTECT	IGHT, 20" D ACCESS ED ON TH	CLEAR V SIBLE SP E ENCLO	NIDTH, 5.7 ACE UNDE SED SIDE	SF MIN SF MIN R STAII	NIMUM AREA R SHALL HA	A (5.0 SF AT G VE WALLS, UI PSUM BOARD	RADE LEVEL NDER-STAIR . (R302.7)) & 44" MAXIM SURFACE AN	DANY S	MINIMOM - 24 ILL. (R 310.2.1) OFFITS						
	FL	00	R K	EYI	NO	TES	:										
	 SHOWER INSTALLA ADDITION WATER C 	OR TUB: E TION. FIX ⁻ AL INFORI LOSET: BI	3RAND A FURE MU MATION. RAND AN	ND MODE JST MEET	L NUMB FLOW F	ER SHALL E RATE REQU ER SHALL B	BE PROVIDED IREMENTS OF	TO OWNER THE CGBSC	FOR APPROVA	AL PRIOF BING PLA AL PRIOF	R TO IN FOR R TO			CITY	USE ONI	_Y	
	INSTALLA ADDITION 3. BATH LAV INSTALLA	AL INFORI AL INFORI ATORY: E	I URE MU MATION. RAND A TURE MU	ND MODEL	LOW F NUMB	RATE REQU ER SHALL E RATE REQU	IREMENTS OF BE SUBMITTED IREMENTS OF	THE CGBSC D TO OWNER THE CGBSC	C. SEE PLUME FOR APPROV C. SEE PLUME	BING PLA /AL PRIC BING PLA	IN FOR R TO IN FOR						
	4. KITCHEN INSTALLA ADDITION	SINK: BRATION FINT	NATION.	MODEL N JST MEET	UMBER FLOW F	R SHALL BE RATE REQU	SUBMITTED T		OR APPROVAL		TO IN FOR						
	 WATER H INSTALLA INFORMATION WASHER TO INSTALLA 	FION. MOI FION. STACKED	UNIT: B	ECTED MU		MODEL NUI	REQUIREMEN	NTS. SEE PLI		R FOR AF	PROVAL PRIOR						
	7. ELECTRIC INSTALLA	TION. RANGE: TION. VEI	BRAND I RIFY MO	NAME AND DEL'S DIM			SHALL BE SUE	BMITTED TO (N AND COOR	OWNER FOR A RDINATE WITH		AL PRIOR TO T						
	 REFRIGEF INSTALLA CONTRAC HIGH WAL 	RATOR: BI FION. VEI TOR'S SH	RAND NA RIFY MO OP DRAV	AME AND M DEL'S DIM WINGS. SI BRAND ANI	IODEL I ENSION EE PLUI D MODE	NUMBER SH N PRIOR TO MBING PLAI EL NUMBER	IALL BE SUBM INSTALLATION NS FOR ADDIT SHALL BE SU	AITTED TO ON N AND COOR TIONAL INFOI IBMITTED TO	WNER FOR AF DINATE WITH RMATION. OWNER FOR	PROVAL CABINE	. PRIOR TO T /AL PRIOR TO						
	INSTALLA INFORMA 10. GROUND APPROVA	TION. MO TION. MOUNTED L PRIOR T	DEL SEL CONDE O INSTA	ECTED MU INSING UN ILLATION.	IST MEE IT. BRAI MODEL	ET TITLE 24 ND AND MC - SELECTED	REQUIREMEN	NTS. SEE ME SHALL BE S TITLE 24 REC	CHANICAL PL UBMITTED TC QUIREMENTS.	ANS FOR OWNER SEE ME	R ADDITIONAL FOR ECHANICAL						
	PLANS FO 11. ATTIC ACC TO THAT C INFORMA	R ADDITIC CESS: 22"> OF THE CE FION.	ONAL INF (30" ATT EILING AI	ORMATION	N. 5 W/ 30" BE INST	' HEADROO TALLED ON	M SHALL BE W THE ACCESS	VEATHER-ST PANEL. SEE	RIPPED AND I DETAIL C/A.5	NSULAT	ED EQUIVALENT DITIONAL	-					
	 BASE CAE AND INST. OVERHEA PRIOR TO 	ALLATION D CABINE BUILDING	OF CAB T OVER AND IN	DNTRACTO INET. BASE: CAE STALLATIC	R SHAL BINET C DN OF C	CONTRACTO	R SHALL SUB	igs for owi	NERS APPRO	VAL PRIC	DR TO BUILDING						
	 OVERHEA APPROVA CONCRET FOUNDAT 	d Cabine L Prior T E Landin Ion Plan	i over o build G: 3-1/2" For Ad	REFRIGER ING AND II CONCRET DITIONAL I	ATOR NSTALL E LAND NFORM	CABINET CO ATION OF CO DING W/ BRC 1ATION.	UNTRACTOR S CABINET. DOM FINISH A	SHALL SUBM	III SHOP DRAN	WINGS F JILDING.	OR OWNERS	FI		R F	οί γν	J (\	МІТН
ŀ	WALL	LE	GEI	ND:								' F	POR	CH	OP		N)
	SYMBOL	E 2	XTERIO X6 D.F.#	R WALL:	T 16" O	DI D.C. W/R-21 I	ESCRIPTION	FION. EXTER	RIOR FINISH P	ER EXTE	RIOR		- •		-	2	-
			DETIONS DTHERW NTERIOF X4 D.F.#	, SEE BUIL ISE. R WALL: 2 STUDS A	UING E. ד 16" מ	LEVATIONS	DR FINISH 1/2	" GYPSUM BO	YPSUM BOARI	UNLES	S NOTED						
		- L	INLESS I	NOTED OT	HERWI	SE.						JOB# : DATE:	TADU-001 2-Jun-23	SH	EET NO.	Δ -	1
I												BRANK					

DRAWN BY: IRG





































E. HEADERS: ALL OPENINGS 4'-0"WIDE OR LESS IN BEARING WALLS SHALL BE PROVIDED WITH HEADERS CONSISTING OF EITHER TWO PIECES OF 2" FRAMING LUMBER PLACED ON EDGE AND SECURELY FASTENED TOGETHER OR 4" LUMBER OF EQUIVALENT CROSS SECTION. ALL OPENING MORE THAN 4'-0"WIDE SHALL BE PROVIDED WITH HEADERS OR LINTELS. EACH END OF A LINTEL OR HEADER SHALL HAVE A LENGTH OF BEARING OF NOT LESS THAN 1 1/2" FOR THE FULL WIDTH OF THE LINTEL. (SEE ROOF F. PIPES IN WALLS: STUD PARTITIONS CONTAINING PLUMBING, HEATING, OR OTHER PIPES SHALL BE SO FRAMED AND THE JOISTS UNDERNEATH SO SPACED AS TO GIVE PROPER CLEARANCE FOR THE PIPING. WHERE A PARTITION CONTAINING SUCH PIPING RUNS PARALLEL TO THE FLOOR JOISTS, THE JOISTS UNDERNEATH SUCH PARTITIONS SHALL BE DOUBLED AND SPACED TO PERMIT THE PASSAGE OF SUCH PIPES AND SHALL BE BRIDGED. WHERE PLUMBING, HEATING OR OTHER PIPES ARE PLACED IN OR PARTLY IN A PARTITION NECESSITATING THE CUTTING OF THE SOLES OR PLATES, A METAL TIE NOT LESS THAN 16 GALVANIZED GAUGE AND 1 1/2" WIDE SHALL BE FASTENED TO EACH PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH . BRIDGING: ALL STUD PARTITIONS OR WALLS WITH STUDS HAVING A HEIGHT TO AT LEAST THICKNESS RATIO EXCEEDING 50 SHALL HAVE BRIDGING NOT LESS THAN 2"IN THICKNESS AND OF THE SAME WIDTH AS THE STUDS FITTED SNUGLY AND NAILED THERE TO PROVIDE ADEQUATE LATERAL SUPPORT. H. CUTTING AND NOTCHING EXTERIOR WALLS AND BEARING PARTITIONS: ANY WOOD STUD MAY BE CUT OR NOTCH TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH THE STUD IS PERMITTED IN NONBEARING PARTITIONS SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF JOISTS, BEAMS, AND GIRDERS: USE LONGEST PRACTICABLE LENGTHS, PLACE WITH CROWN SIDE UP. WHERE MEMBERS CANTILEVER, PLACE CROWN SIDE DOWN. J. BORED HOLES: A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH MAY BE BORED IN ANY WOOD TUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE WIDTH OF THE STUD ARE PERMITTED IN NON BEARING

BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF THE STUD AS A CUT OR NOTC K. TEMPORARY WALL BRACING: FRAMER IS RESPONSIBLE FOR INSTALLING TEMPORARY WALL BRACING TO ADEQUATELY SUPPORT FRAMING DURING CONSTRUCTION. THIS BRACING TO REMAIN IN PLACE UNTIL STRUCTURAL INTEGRITY HAS BEEN // A. IN COMBUSTIBLE CONDUCTION, FIRE BLOCKING AND DRAFTSTOPPING SHALL BE INSTALLED TO CUT OFF ALL CONCEAL DRAFT OPENINGS(BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, BETWEI A TOP STORY AND ROOF OR ATTIC SPACE, AND SHALL SUBDIVIDE ATTIC SPACES, CONCEALED ROOF SPACES AND FLOOR CEILING ASSEMBLIES. THE INTEGRITY OF ALL FIRE BLOCKS AND DRAFT STOPS SHALL BE MAINTAINED. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR EXCEPTION: FIRE BLOCKS MAY BE OMITTED AT FLOOR AND CEILING LEVELS WHEN APPROVED SMOKE ACTUATED FIRE AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS DROP CEILINGS AND COVE CEILINGS. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALON AND IN LINE WITH THE RUN OF STAIRS IF THE WALLS UNDER THE STAIRS ARE UNFINISHED. AN OPENING AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILINGS AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS. 5. AT OPENING BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY BUILT CHIMNEYS

ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. JOIST FRAMING FROM OPPOSITE SIDES OF A BEAM, OR PARTITION SHALL BE LAPPED AT LEAST 5" OR THE OPPOSING ING ANCHORS: JOIST FRAMING INTO THE SIDE OF A WOOD GIRDER OR PARTITION SHALL BE SUPPORTED BY FRAMIN ANCHORS OR ON LEDGER STRIPS NOT LESS THAN 2 INCHES BY 2 INCHES. ING AROUND OPENINGS: TRIMMER AND HEADER JOISTS WHEN FRAMED AROUND OPENINGS SHALL BE DOUBLED, OR LUMBER OF EQUIVALENT CROSS SECTION, WHEN THE SPAN OF THE HEADER EXCEEDS 4'-0". THE ENDS OF THE HEADER JOIS MORE THAN 6'-0" LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR JOIST HANGERS UNLESS BEARING ON A BEAM, PARTITION OR WALL. TAIL JOISTS OVER 12'-0" LONG SHALL BE SUPPORTED AT HEADER BY FRAMING ANCHORS OR ON LEDGE SUPPORTING BEARING POSITIONS: BEARING PARTITIONS PERPENDICULAR TO JOIST SHALL NOT BE OFFSET FROM THE

A. PLYWOOD COMBINATION SUB FLOOR UNDERLAYMENT SHEATHING CONTINUOUS OVER TWO OR MORE SPANS SHALL BE A UM 5/8" THICK TONGUE AND GROOVE AND HA<mark>VE A PA</mark>NEL IDENTIFICA<mark>TION IN</mark>DEX A<mark>S REQUIRED FOR T</mark>HE FLOOR JOIST SPACING (SEE FLOOR FRAMING PLANS) AND SHALL BE UNDERLAYMENT GRADE, C-C (PLUGGED) AND ALL GRADES OF SANDED EXTERIOR TYPE PLYWOOD IN GROUP SPECIES OF 1, 2, OR 3. 3. GLUE FOR FLOOR SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION SPEC. AFG-01. C. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE AMERICAN PLYWOOD 16. ROOF AND CELLING FRAMING; A. FRAMING RAFTERS: SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER AT THE RIDGE. THERE SHALL BE A RIDGE BOARD AT LEAST 2" NOMINAL THICKNESS AT ALL RIDGES AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A SINGLE VALLEY OR HIP RAFTER NOT LESS THEN 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THEN THE CUT. END OF THE RAFTERS. SHALL BE NAILED TO ADJACENT CEILING JOISTS TO FORM A CONTINUOUS TIE BETWEEN EXTERIOR WALLS WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE NOT PARALLEL RAFTERS SHALL BE TIED TO 1"X4" (NOMINAL) MINIMUM SIZE CROSS TIES. RAFTER TIES SHALL BE SPACED NOT MORE THAN 4'-0" ON CENTER. 2. PURLINS: TO SUPPORT ROOF LOADS MAY BE INSTALLED TO REDUCE THE SPAN OF RAFTERS WITHIN ALLOW- ABLE LIMITS AND SHALL BE SUPPORTED BY STRUTS TO BEARING WALLS. THE MAXIMUM SPAN OF 2"X4" PURLINS SHALL BE 4-0". THE MAXIMUM SPAN OF THE 2"X6" PURLIN SHALL BE 6-0" BUT IN NO CASE SHALL THE PURLIN BE SMALLER THAN THE SUPPORTED RAFTER.

MINIMUM SLOPE OF THE STRUTS SHALL BE NOT LESS THAN 45 DEGREE'S FROM THE HORIZONTAL. BLOCKING: RAFTERS MORE THAN 8" IN DEPTH SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY OLID BLOCKING N<mark>OT LE</mark>SS THAN 2" IN THICKNES<mark>S AND THE F</mark>ULL DEPTH OF THE RAFTER UNLESS NAILED TO A HEADER, BAND OR RIM JOIST OR TO AN ADJOINING STUD AND AS REQUIRED BY SECTION 2320.12.8 A. MANUFACTURER SHALL SUPPLY TO THE DESIGNER AND THE BUILDING DEPARTMENT CALCULATIONS AND SHOP DRAWINGS F APPROVAL TO DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), AND SHEAR TRANSFER, PRIOR TO FABRICATION. ALI CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHEREI THE PROJECT IS TO BE BUILT. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER TO OBTAIN BUILDING DEPARTMENT PROVAL OF CALCULATIONS AND SHOP DRAWINGS PRIOR TO FABRICATIONS. JSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE FOR ALL LOADS IMPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS. C. ALL CONNECTORS SHALL BE ICC APPROVED AND OF ADEQUATE STRENGTH TO RESIST STRESSES DUE TO LOADING INVOLVED E. CROSS BRIDGING AND/OR BRACING SHALL BE PROVIDED AND DETAILED AS REQUIRED TO ADEQUATELY BRACE ALL TRUSSE TRUSSES STORED PRIOR TO ERECTION SHALL BE PROTECTED FROM THE WEATHER AND HANDLED WITH CARE TO AVOI DAMAGE. NOTIFY TRUSS MANUFACTURER IMMEDIATELY OF ANY DAMAGED TRUSSES. CONTRACTOR SHALL NOT ATTEMPTED MANUFACTURER SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE PRIOR TO FABRICATION OF TRUSSES. H THE GENERAL CONTRACTOR SHALL NOT PERMIT CUTTING, DRILLING, OR ANY OTHER DAMAGE TO TRUSSES

THE CONTRACTOR SHALL INSTALL TEMPORARY HORIZONTAL AND CROSS BRACING TO HOLD TRUSSES PLUMB AND IN SAF . THE GENERAL CONTRACTOR SHALL EXERCISE CARE TO PREVENT OVER STRESSING OF TRUSSES DUE TO CONCENTRATED 1"X4" OR 1"X6" SPACED: WITH 1"X6" SHIPLAP STARTER BOARD AT ALL EXPOSED EAVES (RESAWN FACE DOWN) SHALL BE STANDARD, 3 COMMON NO. 2, OR CONSTRUCTION COMMON GRADES AND SHALL BE SPACED NOT TO EXCEED 6" CLEAR NOR B. PLYWOOD SHEATHING IS TO BE CONTINUOUS OVER TWO OR MORE SPANS AND IS TO BE A MINIMUM 1/2" THICK AND HAVE PANEL IDENTIFICATION INDEX AS REQUIRED FOR RAFTER SPACING (SEE ROOF PLANS) ALL PLYWOOD SHALL BE STRUCTURAL I AND II STANDARD SHEATHING, AND C-C GRADES ONLY, WITH EDGES BLOCKED OR UNBLOCKED AS REQUIRED FOR SPAN. C. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE AMERICAN PLYWOOD

PERCENT OF THE REQUIRED VENTILATING. AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3'-0" ABOVE EAVE OR CORNICE VENTS, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. THE OPENING SHALL BE COVERED WITH CORROSION-RESISTANCI METAL MESH WITH MESH OPENINGS OF 1/4" IN DIMENSION. DO NOT BLOCK VENTS WITH INSULATION. 20. FIREBLOCK CONSTRUCTION; A. EXCEPT AS PROVIDED IN ITEM D ABOVE, FIRE BLOCKING SHALL CONSIST OF 2" NOMINAL LUMBER OR TWO THICKENS OF 1" NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 23/32" WOOD STRUCTURAL PANEL, WITH JOINTS BACKEE BY 23/32" WOOD STRUCTURAL PANEL, OR ONE THICKNESS OF 3/4" TYPE 2-M PARTICLE BOARD WITH JOINTS BACKED BY 3/4" FIREBOX MAY ALSO BE OF GYPSUM BOARD, GLASS FIBER, MINERAL FIBER OR OTHER APPROVED MATERIALS SECURELY WALLS HAVING PARALLEL OR STAGGERED STUDS FOR SOUND TRANSMISSION CONTROL SHALL HAVE FIRE BLOCKS OF MINERAL FIBER OR GLASS FIBER OTHER APPROVED NON RIGID MATERIAL. B. PROVIDE FIRE BLOCKING AT ALL CONCEALED **DRAFT OPENINGS** (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN

IFA	STENING SCH	IEDULE: PER CRC TA	ABLE R6	602.3(1):				
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING AND			1.	F FRA	
	BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER	ROOF 4-8d BOX (2 1/2" × 0.113"); OR 3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR	TOE	NAIL				
1	FRAMING BELOW BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATES, TO RAFTER OR TRUSS	3-3" × 0.131" NAILS 2-8d COMMON (2 1/2" × 0.131"); OR 2-3" × 0.131" NAILS	EACH END) TOE NAIL		5/-	eler	0
	FLAT BLOCKING TO TRUSS AND WEB FILLER	2-16d COMMON (3 1/2" × 0.162"); OR 3-3" × 0.131" NAILS 4-8d BOX (2 1/2" × 0.113"); OR	END	NAIL		* / <		\ * \
2	CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	PER JOIS	ST, TOE NAIL			BEES	85
3	PARALLEL RAFTER, LAPS OVER PARTITIONS [SEE SECTION R802.5.2 AND TABLE R802.5.2(1)]	/ 4-10d BOX (3" × 0.128"); OR 3-16d COMMON (3 1/2" × 0.162"); OR 4-3" × 0.131" NAILS	FACI	E NAIL		é		/ %/
4	PARALLEL RAFTER (HEEL JOINT) [SEE SECTION R802.5.2 AND TABLE R802.5.2(1)]	TABLE R802.5.2(1)	FAC	ENAIL		To		N
5	COLLAR TIE TO RAFTER, FACE NAIL	3-10d COMMON (3" × 0.148"); OR 4-3" × 0.131" NAILS 3-16d BOX (3 1/2" × 0.135"); OR	FACE NAIL E	EACH RAFTER		RA I	TED OCT	
6	PLATE	4-10d BOX (3" × 0.138"), OR 4-3" × 0.131" NAILS 4-16d BOX (3 1/2" × 0.135"); OR	TOE NAIL ON O EACH RAFTER	OPPOSITE SIDE OF OR TRUSS	_			
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2"	3-10d COMMON (3" × 0.148"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS 3.16d BOX (3.1/2" × 0.135"); OR	TOE	NAIL	PLA	NNING A	ND DEVEL	OPMENT
	RIDGE BEAM	2-16d COMMON (3 1/2" × 0.162"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	END	NAIL	-	FRESN 2600 FI	O CITY HA RESNO STF	LL EET
8	STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2"X0.162") 10d BOX (3"X0.128"); OR	24" O.C. I	FACE NAIL	 F	THII RESNO,	RD FLOOR CA. 93721-	-3600
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL	3"X0.131 NAILS 16d BOX (3 1/2"X0.135"); OR 3"X0.131 NAILS	12" O.C. I		-	559 darm.bu	9-621-8084 iilding®fresno.g	gov
10	HEADER WITH 1/2" SPACER)	16d COMMON (3 1/2"X0.162") 16 BOX (3 1/2"X0.135") 5-8d BOX (2 1/2" × 0 113"); OP	16" O.C. EAG	CH FACE NAIL	THES	C 20 E DRAWINGS, DESIGI EMENTS AND OTHER	23 CITY OF FRESNO NS SKETCHES, IDEAS, DOCU R INFORMATION CONTAINET	MENTS, PLANS, DTHEREIN ARE THE
11	CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2 × 0.113); OR 4-10d BOX (3" × 0.128") 4-10d BOX (3" × 0.128") 4-10d BOX (3 1/2"× 0.135"); OR	то	ENAIL	SOLE AN ARE DE CONE CONTAIL	D EXCLUSIVE PROPE LIVERED AND ACCEP ITION THAT NEITHEF VED THEREIN WILL B	RTY OF CITY OF FRESNO. PTED BY YOU IN TRUST AND R THESE DOCUMENTS OR THE E THEREIN WILL BE COPIED	CHESE DOCUMENTS ON THE EXPRESS IE INFORMATION REPRODUCED, OR
12	ADJACENT FULL-HEIGHT STUD TO END OF HEADER	3-100 COMMON (3 1/2" × 0.162"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS 16d COMMON (3 1/2" × 0.162")	EN 16" O.C. I	D NAIL			EPT AS SPECIFICALLY INST FRESNO.	NUCTED BY CITY OF
13	TOP PLATE TO TOP PLATE	10d BOX (3" × 0.128"); OR 3" × 0.131" NAILS 8-16d COMMON (3 1/2" × 0.162"); OR	12" O.C. I	FACE NAIL				
14	DOUBLE TOP PLATE SPLICE	12- 100 BOX (3 1/2" × 0.135"); OR 12-10d BOX (3" × 0.128"); OR 12-3" × 0.131" NAILS1 16d COMMON (3 1/2"X0.162")	JOINT (MINIMUM LENGTH EACH SI	24" LAP SPLICE IDE OF END JOINT) FACE NAIL			E220	KY
15	NOT AT BRACED WALL PANELS)	16d BOX (3 1/2" × 0.135"); OR 3" × 0.131" NAILS ROOF	12" O.C. I	FACE NAIL		DW	ELLIN	IG
16	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	3-16d BOX (3 1/2" × 0.135"); OR 2-16d COMMON (3 1/2" × 0.162"); OR 4-3" × 0.131" NAILS 4-8d BOX (2 1/2" × 0.113"): OR	16" O.C. I	FACE NAIL	-			
		3-16d BOX (3 1/2" × 0.135"); OR 4-8d COMMON (2 1/2" × 0.131"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS	TOE	NAIL		l	JINII	
17	TOP OR BOTTOM PLATE TO STUD	3-16d BOX (3 1/2" × 0.135"); OR 2-16d COMMON (3 1/2" × 0.162"); OR 3-10d BOX (3" × 0.128"); OR 2.2" × 0.121" NAIL	END) NAIL		ΤΑΙ	DU-0)
18	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10d BOX (3" × 0.128"); OR 2-16d COMMON (3 1/2" × 0.162"); OR 3-3" × 0.131" NAILS	FACI	ENAIL		DI	A NI -	
19	1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2 1/2" × 0.113"); OR 2-8d COMMON (2 1/2" × 0.131"); OR 2-10d BOX (3" × 0.128"); OR 2 STAPL ES 1 3/4"	FAC	E NAIL			- /~\ \	
20	1"X6" SHEATHING TO EACH BEARING	3-8d BOX (2 1/2" × 0.113"); OR 2-8d COMMON (2 1/2" × 0.131"); OR 2-10d BOX (3" × 0.128"); OR	FAC	ENAIL				
		3-8d BOX (2 1/2" × 0.113"); OR 3-8d COMMON (2 1/2" × 0.113"); OR 3-10d BOX (3" × 0.128"); OR						
21	1"X8" AND WIDER SHEATHING TO EACH BEARING	3 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG WIDER THAN 1" × 8" 4-8d BOX (2 1/2" × 0.113"); OR 3-8d COMMON (2 1/2" × 0.131"); OR	FAC	E NAIL				
		3-10d BOX (3" × 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG FLOOR			-			
22	JOIST TO SILL, TOP PLATE OR GIRDER	4-80 BOX (2 1/2" × 0.113); OR 3-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS	TOE	NAIL				
23	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8d BOX (2 1/2"X0.113") 8d COMMON (2 1/2"X0.131"); OR 10d BOX (3"X0.128"); OR 3"X0.131" NAU S	4" O.C. T 6" O.C. T	OE NAIL	-		251/1010110	
24	1"X6" SUBFLOOR OR LESS TO EACH JOIST	3-8d BOX (2 1/2" × 0.113"); OR 2-8d COMMON (2 1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 2 STAPLES 1" CROWN 16 CA 1 2/4" LONG	FAC	ENAIL	NO.	DESCRIPTIC		DATE
25	2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM -	3-16d BOX (3 1/2" × 0.135"); OR 2-16d COMMON (3 1/2" × 0.162") 3-16d BOX (3 1/2"X0.135") OR						
20	FLOOR & RÒOF) BAND OR RIM JOIST TO JOIST	2-16d COMMON (3 1/2"X0.162") 3-16d COMMON (3 1/2"X0.162"); OR 4-10d BOX (3"X0.128"); OR 4-3"X 0.131" NAILS: OR	AT EACH BEA	D NAIL				
		4-3"X14 GA. STAPLES, 7/16" CROWN 20d COMMON (4"X0.192"); OR	NAIL EACH LAYER O.C. AT TOP AND E	AS FOLLOWS: 32" BOTTOM AND				
28	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10d BOX (3"X0.128"); OR 3"X0.131" NAILS	24" O.C. FACE NAII BOTTOM STAGGEI SIDES	L AT TOP AND RED ON OPPOSITE				
		AND: 2-20d COMMON (4"X0.192"); OR 3-10d BOX (3"X0.128"); OR 3-3"X0.131" NAILS 4-16d BOX (3 1/2"X0.135"); OR	FACE NAIL AT END SPLICE	DS AND AT EACH	_			
29	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d COMMON (3 1/2"X0.162"); OR 4-10d BOX (3"x0.128"); OR 4-3"X0.131 NAILS 2-10d BOX (3" × 0.128"); OR	AT EACH JOIST OF	K RAFTER, FACE	-	011		
30	DISTUBUING OK BLUCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON (2 1/2" × 0.131"); OR 2-3" × 0.131" NAILS	EACH ENE	D, TOE NAIL	-			
W	BUILDING ELEMENTS	DOR, ROOF AND INTERIOR WALL SHEATHING TO FR	EDGES [®] (INCHES)	SUPPORTS ^{c,e} (INCHES)	-			
21	3/8"-1/2"	6D COMMON OR DEFORMED (2" × 0.113"× 0.266" HEAD); OR 2 3/8" × 0.113" × 0.266" HEAD NAIL (SUBFLOOR,	6	6 ^f				
	5/0 - 1/2	WALLJ 8D COMMON (2 1/2" × 0.131") NAIL (ROOF); OR RSRS-01 (2 3/8" × 0.113") NAIL (ROOF) ^b 8d COMMON (2-21/2" × 0.131") NAIL (SUBELOOR	6	6 ^f	-			
32	19/32"-3/4"	WALL) 8D COMMON (2 1/2" × 0.131") NAIL (ROOF); OR RSRS-01 (2 3/8" × 0.113") NAIL (ROOF) ^b	6	6 ^f				
33	7/8"- 1 1/4"	DEFORMED 2 3/8" × 0.113" × 0.266" HEAD (WALL OR SUBFLOOR) 10d COMMON (3"X0.148") NAIL; OR (2 1/2"x0.131"x0.281" HEAD)DEFORMED NAIL	6	12 12				
34	1/2" STRUCTURAL CELLULOSIC	OTHER WALL SHEATHING ⁹ 1 1/2" × 0.120" GALVANIZED ROOFING NAIL,7/16" HEAD DIAMETER; OR 1 1/4" LONG 16 GA STADLE WITH 7/16" OF 4"	3	6				
35	25/32" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 3/4" × 0.120" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER; OR	3	6		עוואיס דודי ר		
		1 1/4" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN 1 1/2" × 0.120" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR	-	-				
36	1/2" GYPSUM SHEATHING ^d	1 1/4"LONG 16 GA.; STAPLE GALVANIZED, 11/2" LONG; 7/16" OR 1" CROWN OR 1 1/4" SCREWS, TYPE W OR S 1 3/4" × 0.120" GALVANIZED ROOFING NAIL 7/16"	7	7	-	אוכ יח		۱
37	5/8" GYPSUM SHEATHING ^d	HEAD DIAMETER, OR 1 1/4" LONG 16 GA.; STAPLE GALVANIZED, 1 1/2" LONG; 7/16" OR 1"CROWN OR 1 1/4" SCREWS, TYPE W OR S AL PANELS, COMBINATION SUBELOOR UNDEDLAYM		7				
38	3/4" AND LESS	DEFORMED (2"× 0.113") OR DEFORMED (2"× 0.120") NAIL; OR 8d COMMON (2 1/2"× 0.131") NAIL 8d COMMON (2 1/2"× 0.131") NAIL	6	12				
39	7/8" - 1"	od Common (2 1/2" × 0.131") NAIL; OR DEFORMED (2" × 0.113"); OR DEFORMED (2 1/2" × 0.120") NAIL 10D COMMON (3" × 0.148") NAIL; OR	6	12	JOB# DATF:	: TADU-001 30-Mar-23	SHEET NO.	
+0	/ /// - / 4	DEFORMED (2" × 0.113");OR DEFORMED (21/2" × 0.120") NAIL	6	12	SCALE	AS NOTED	5	C

PLUMBING KEY NOTES

SANITARY SEWER MAIN LATERAL BRANCH MUST HAVE A MINIMUM SLOPE OF 2%. PROVIDE CLEAN OUTS AT INTERVALS NOT TO EXCEED 100 FT IN STRAIGHT RUNS AND HORIZONTAL CHANGE IN DIRECTIONS EXCEEDING 135° SANITARY SEWER CONNECTION TO CITY SERVICES PER LOT SPECIFIC BUILDING PERMIT APPLICATION MUST OBTAIL PUBLIC UTILITIES APPROVAL FOR ADU TO HAVE DIRECT CONNECTION TO CITY SERVICES. IF CONNECTING TO (E)UTILITIES THE (E)FIXTURE UNITS MUST BE ACCOUNTED FOR WHEN SIZING SYSTEMS AND VERIFY ADDITIONAL DÉMANDS WILL NOT AFFECT PRIMARY RESIDENCE NEGATIVELY. PROVIDE WITH LOT SPECIFIC BUILDING PERMIT APPLICATION. DOMESTIC WATER MAIN LATERAL BRANCH. DOMESTIC WATER CONNECTION TO (N)WATER METER AND CITY SERVICES. PER LOT SPECIFIC BUILDING PERMIT APPLICATION MUST OBTAIN PUBLIC UTILITIES APPROVAL FOR ADU TO HAVE DIRECT CONNECTION TO CITY SERVICES. IF CONNECTING TO (E)UTILITIES THE (E)FIXTURE UNITS MUST BE ACCOUNTED FOR WHEN SIZING SYSTEMS AND VERIFY ADDITIONAL DEMANDS WILL NOT AFFECT PRIMARY RESIDENCE NEGATIVELY. PROVIDE WITH LOT SPECIFIC BUILDING PERMIT APPLICATION. GAS LINE MAIN LATERAL BRANCH TIE INTO GAS METER. SEE SITE PLAN AND VERIFY WITH LOCAL UTILITY COMPANY FOR CONNECTION OF GAS UTILITY SERVICE. WATER CLOSET: WATER CLOSET COMPARTMENT MUST HAVE 30" WIDTH AND 24" CLEAR IN FRONT OF THE WATER CLOSET. LOW-FLOW WATER CLOSETS TO BE INSTALLED (MAXIMUM 1.28 GALLONS PER FLUSH). BRAND AND MODEL

NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. DOMESTIC WATER FOR WATER CLOSETS SHALL BE PROVIDED AND TIED INTO PASSIVE PURGE FIRE SPRINKLER SYSTEM. WHEN FIRE SPRINKLER SYSTEM IS REQUIRED FOR LOT SPECIFIC BUILDING PERMIT APPLICATIONS. SHOWER: TILE SHOWER O/FIBER CEMENT OR GLASS MAT GYPSUM BACKER. PROVIDE 22" MINIMUM TEMPERED GLASS ENCLOSURE (HINGED SHOWER DOORS SHALL OPEN OUTWARD). INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE AT THE SHOWERS THE MINIMUM INSIDE DIMENSION OF THE SHOWER SHALL BE 30" IN ANY ONE DIRECTION WITH A MINIMUM OF 1.024 SQUARE INCHES, ALL JB-SHOWER OPENINGS SHALL BE RODENT PROOF, WITH 1" CEMENT COVERING IN AN APPROVED MANNER. (SEE TUB W/SHOWER OPTION: METAL TUB W/TILE SHOWER O/FIBER CEMENT OR GLASS MAT GYPSUM BACKER PROVIDE 22

MINIMUM TEMPERED GLASS ENCLOSURE (HINGED SHOWER DOORS SHALL OPEN OUTWARD). INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE AT THE SHOWERS, ALL TUB-SHOVED OPENINGS SHALL BE RODENT PROOF. WITH 1" CEMENT COVERING IN AN APPROVED MANNER PROVID INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE AT THE SHOWERS AND TUB-SHOWER COMBINATION. CPC 420. BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNE FOR APPROVAL PRIOR TO INSTALLATION HOSE BIBB 3/4" W/NON-REMOVABLE TYPE BACK FLOW PREVENTION DEVICE.

TANK LESS WATER HEATER, INSTALL PER MANUFACTURERS SPECIFICATIONS. PROVIDE MANUFACTURERS SPECIFICATIONS ON JOB SITE, SO THAT THE BUILDING INSPECTOR MAY VERIFY TANK LESS WATER HEATER LEARANCES. SEE TITLE 24 REQUIREMENTS AND MECHANICAL NOTES FOR ADDITION INFORMATION. BRAND AND ODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. INSTANTANEOUS WATER HEATERS WITH AN INPUT RATING OF 6.8KBTU/HR. (2 KW) OR GREATER NEED AN ISOLATION VALVE ON COLD WATER SUPPLY AND HOT WATER LEAVING WATER HEATER. EACH VALVE NEED<mark>S A HO</mark>SE BIB<mark>B OR OTHER FITTING ALLOWING FOR FLUSHING THE WATER HEATER WHEN THE</mark> VALVES ARE CLOSED A CONDENSATION DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOW NATURAL DRAINING WITHOUT PUMP ASSISTANCE. IBING VENTS SHALL TERMINATE 10' MINIMUM AWAY FROM A.C. UNIT OUTSIDE AIR INTAKES.

MINIMUM 2'-6" X 2'-6" WIDE AND 7'-0" TALL AREA MUST BE MAINTAINED FOR FUTURE INSTALLATION OF HEAT PUMP WATER HEATER. A PLUMBING PERMIT MUST BE OBTAINED AT TIME OF INSTALLATION OF HEAT PUMP WATER HEATER AND MUST BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS. RESIDENTIAL PLUMBING NOTES

WATER HAMMER ARRESTORS SHALL BE INSTALLED AT THE FOLLOWING QUICK ACTING SHUT-OFF VALVES (SOLENOID OPERA AUTOMATIC WASHER, HOT AND COLD WATER ICE MAKER DISHWASHE

FRONT AND REAR SPRINKLER OUTLET SHOWER AND TUB/ SHOWER COMBINATION SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE RESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING VALVES TY FHAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION FOR THE RATED FLOW RATE OF THE INSTALLED SHOWERHEAD. THESE VALVES SHALL BE INSTALLED AT THE POINT OF USE AND IN ACCORDING WITH ASSE 1016 OR SME A112.18.1/CSAB125.1. L PLUMBING CONVEYING OR DISPENSING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH AB 1953 FOR AD CONTENT LVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS OR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDING. AS LINE PRESSURE TESTING IS NOW 10 PS I FOR 15 MINUTES AND WELDED PIPING IS 60 PS I FOR 30 MINUTES.

PLASTIC AND COPPER PIPING RUN THROUGH FRAMING MEMBERS TO WITHIN ONE INCH OF THE EXPOSED FRAMING SHALL BE PROTECTED BY STEEL NAIL PLATES NOT LESS THAN 18 GAUGE. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED AS SPECIFIED IN CPC SECTION 609.11. IN ADDITION, PIPING VUST MEET THE REQUIREMENTS OF CALIFORNIA ENERGY CODE SECTION 150(J)(2)(A) I, II, & III. a) 3/4 INCH TO 1 INCH AND HOT WATER PIPING FROM HEATING SOURCE TO KITCHEN FIXTURES SHALL HAVE A MINIMUM OF 1 INCH THICKNESS INSULATION WALL OR R-VALUE OF 7.7. FIRE SPRINKLER NOTES

AT TIME OF LOT SPECIFIC BUILDING APPLICATION, IT WILL BE DETERMINED BY THE CITY OF FRESNO FIRE PREVENTION BUREAU IF FIRE SPRINKLER WILL BE REQUIRED FOR THE ACCESSORY DWELLING UNIT. IF REQUIRED, APPROVED FIRE SPRINKLER PLAN SHALL BE INCLUDE<mark>D IN PL</mark>ANS PRIOR TO PERMIT ISSUANCE. PLUMBING NOTES

WORK INCLUDED ALL WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH LABOR MATERIAL, TRANSPORTATION, EQUIPMENT, AND MISCELLANEOUS SERVICES ETC. REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIALLY SHOWN OR MENTIONED. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. THESE DRAWINGS ARE DIAGRAMMATIC AND HAVE BEEN PREPARED TO SUGGEST POSSIBLE SIZE, ROUTES, LOCATION

AND TERMINATION OF PLUMBING PIPING AND EQUIPMENT AS REQUIRED TO CONFORM TO APPLICABLE CODES, IT IS NOT THE INTENTION OF THE PLAN PREPARED TO LIMIT THE METHODOLOGY AND/OR MATERIALS UTILIZED BY THE PLUMBING CONTRACTOR WHEN ALTERNATE METHODOLOGY AND/OR MATERIALS COMPLY WITH ALL CODES AND ORDINANCES GOVERNING THIS JURISDICTION. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND ROUTING OF ALL WASTE, VENT, WATER, GAS, AND A/C CONDENSATE LINES AND COORDINATE WITH OWNER FOR SERVICES. THE OWNER SHALL COORDINATE ALL SERVICE CONNECTIONS FOR THE WORK WITH APPROPRIATE AGENCIES.

WNER TO DETERMINE WATER, SEWER, AND GAS SUPPLY LINE SIZES IN CONFORMANCE WITH CALIFORNIA PLUMBING CODE AND COORDINATE WITH PLUMBER AS TO ANY VARIATION AND/OR CONFLICT FROM DRAWING. ALL WORK MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT A. CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA ENERGY STANDARDS 2022 IT IS THE PLUMBING CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING BUT NOT LIMITED TO METER LOCATIONS, LATERAL LOCATIONS/DEPTH AND PROPOSED POINT OF CONNECTIONS. GENERAL NOTES

ALL FIXTURES ARE TO BE FURNISHED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE ON PLANS. AL FIXTURES TO BE INSTALLED COMPLETE IN ALL RESPECTS WITH TRIM, SEALS, ETC, AS REQUIRED TO MAKE JOB READY NO. FOR SERVICES AND USE. L FIXTURES TO BE WHITE (UNLESS OTHERWISE NOTED) PLUMBING CONTRACTOR SHALL SUBMIT FIXTURES SPECIFICATIONS FOR OWNERS APPROVAL. LL PIPING AND EQUIPMENT SHALL COMPLY WITH THE LATEST IAPMO STANDARDS AND ALL APPLICABLE BUILDING CODES, LOCAL OR OTHERWISE. ALL FIXTURES SHALL BE SECURELY ATTACHED TO SUPPORTING SURFACES AS SPECIFIED AND SHALL BE PLUMBED AND LEVELED. WALL HUNG FIXTURES SHALL BE SECURELY ATTACHED TO WOOD BLOCKING AIR CHAMBERS SHALL BE PROVIDED FOR FOR EACH FIXTURE AT HOT AND COLD WATER CONNECTIONS.

ALL PIPING SHALL BE PRESSURE TESTED TO THE APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND MINIMUM TANDARDS AS FOLLOWS: SANITARY PIPING: MIN. WATER PRESSURE 5 PSI FOR 15 MINUTES WATER PIPING: MIN. WATER PRESSURE 120 PSI FOR 15 MINUTES. CONNECTIONS BETWEEN COPPER OR BRASS PIPING AND FERROUS MATERIALS SHALL BE MADE WITH APPROVED DIELECTRIC COUPLINGS PLUMBING CONTRACTOR SHALL REVIEW ALL KITCHEN EQUIPMENT DRAWINGS AND MAKE ALL REQUIRED CONNECTION OF SERVICES TO EACH UNIT. CHECK EXISTING PLUMBING SYSTEM WITH REFERENCE TO NEW WORK TO BE DONE. IF CONNECTING NEW PLUMBIN

TO (E)PLUMBING MAIN BRANCHES THE (E)FIXTURE UNITS MUST BE ACCOUNTED FOR WHEN SIZING SYSTEMS AND

VERIFY ADDITIONAL DEMANDS WILL NOT AFFECT PRIMARY RESIDENCE NEGATIVELY. PROVIDE WITH BUILDING PERMIT APPLICATION. RE-ROUTE AND/OR REPLACE PORTIONS (INCLUDING SERVICE) AS NECESSARY FURNISH AND INSTALL ALL FIXTURES INDICATED, COMPLETE FOR NORMAL OPERATION. INSTALL ANY FIXTURES PROVIDED BY OWNER AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWN STREAM SID OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. SEPARATE PLUMBING PERMIT IS REQUIRED.

PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SEWAGE DISPOSAL SYSTEM. (R 306.3) KITCHEN SINKS, LAVATORIES, BATHTUBS, SHOWERS, BIDETS, LAUNDRY TUBS AND WASHING MACHINE OUTLETS SH BE PROVIDED WITH HOT AND COLD WATER AND CONNECTED TO AN APPROVED WATER SUPPLY. (R 306.4) EXCAVATING PERFORM NECESSARY EXCAVATIONS AND BACK FILLING FOR INSIDE AND OUTSIDE PLUMBING LINES AND ACCESSORIES. EXCAVATING SHALL BE TRUE TO LINE AND PITCH BACK FILL SHALL BE PLACED LAYERS NOT OVER 8' IN DEPTH. EACH LAYER PROPERLY MOISTENED, SOLIDITY IRON TAMPED, OR OTHERWISE COMPACTED PUDDLING

WITH WATER TO ACHIEVE COMPACTION WILL NOT BE PERMITTED. PLUMBING EXCAVATIONS ARE NOT TO BE MADE PARALLEL TO FOOTING BELOW ANGLE OR REPOSE (I.E. BELOW A LINE DRAWN 45° DOWN FROM EACH CORNER OF BOTTOM FOOTING.) NO PLUMBING LINES SHALL BE RUN IN BEARING FOOTING. DRAINAGE PIPE MATERIALS SHALL BE CAST IRON, GALVANIZED STEEL, PVC OR ABS SCHEDULE 40 DW PLASTIC PIPE, EXCEPT THAT NO GALVANIZED STEEL PIPE SHAL USED UNDERGROUND AND SHALL BE KEPT AT LEAST 6" ABOVE GROUND CHANGES IN DIRECTION OF DRAINAGE IPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED FITTINGS, AND SHALL BE OF THE ANGLES PRESENTED BY 1/16 BEND, 1/8 BEND, OR 1/6 BEND, OR OTHER APPROVED FITTINGS OF EQUIVALENT SWEEP. SANITARY AND POTABLE WATER PIPING SHALL NOT BE INSTALLED WITHIN THE SAME TRENCH EXCEPT WHEN ALLOWABLE BY THE GOVERNING AUTHORITY.

DRAINAGE PIPING SHALL BE CAST IRON, SCHEDULE 40 ABS DWV, OR SCHEDULE 40 PVC DWV. CLEAN OUTS ARE REQUIRED ON HORIZONTAL WASTE LINES OVER 5' FROM THE MAIN LINE AND ALL HORIZONTAL SINK AND URINAL WASTES REGARDLESS OF LENGTH. PER CPC WASTE PIPING SHALL BE PITCHED AT A MINIMUM OF 1/4" PER FOOT WHERE POSSIBLE, PIPING GREATER THAN 4 INCHES IN DIAMETER ONLY, MAY BE PITCHED AT A MINIMUM OF, 1/8" PER FOOT, AS REQUIRED, WITH THE APPROVAL OF THE ADMINISTRATIVE AUTHORITY.

VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.

PROVIDE CLEAN OUTS FOR WASTE LINES EXCEEDING 5'-0" FROM THE MAIN. CLEAN OUTS SHALL BE SIZED PER CPC ALL FLOOR, WALL OR GROUND CLEANOUTS SHALL BE INSTALLED IN A MANNER THAT PROVIDES SUFFICIENT SPACE FOR SERVICE AND IS COMPLETE COMPLIANCE WITH ALL GOVERNING CODES, INSTALLATION OF SOIL OR DRAIN PIPES IN FOOD HANDLING ESTABLISHMENTS WILL COMPLY WITH SECTION 318.0 CPC ALL FLOOR MOUNTED SANITARY CLEANOUTS SHALL HAVE SKID RESISTANT COVER PLATES, BUILDING DRAIN AND

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JOB# : TADU-001 DATE: 26-Sep-23 **P.**1 SCALE: AS NOTED DRAWN BY: IRG

SHEET NO.

MECHANICAL KEY NOTES : ELECTRIC RANGE: HOOD W/FAN W/MICROWAVE O/ELECTRIC RANGE W/OVEN. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROVIDE MANUFACTURER'S SPECIFICATIONS ON JOB SITE, SO THAT THE BUILDING INSPECTOR MAY VERIFY CLEARANCES. KITCHEN EXHAUST OUTLETS SHALL TERMINATE AT LEAST 2' ABOVE THE ROOF AND SHALI EXTEND AT LEAST 10' ABOVE THE ADJOINING GRADE LEVEL. HOOD SHALL BE VENTED TO THE EXTERIOR WITH A BACK DRAFT DAMPER HAVING A MINIMUM CFM RATING OF 100 CFM AND A SONE RATING NOT GREATER THAN 3-SONE. PROVIDE A MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS: • VERTICAL CLEARANCE OF 30" UNPROTECTED, OR 24" PROTECTED. • HORIZONTAL CLEARANCE 6" FROM EDGE OF BURNERS. • THE VERTICAL DISTANCE BETWEEN CANOPY-TYPE HOOD AND COOKING SURFACE SHALL NOT EXCEED 4". UPPER CABINETS SHALL BE A MINIMUM OF 18" ABOVE FINISH DECK OR THE HOOD IS TO BE INSTALLED PER MANUFACTURERS REQUIREMENTS WITH A CLEARANCE AS REQUIRED BY THE RANGE/COOKTOP MANUFACTURERS INSTALLATION INSTRUCTIONS, PROVIDE MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS PER CMC 906.1 AND 508.6. BRAND AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. S DRYER VENT WITH A BACK DRAFT DAMPER. AT EXTERIOR WALL. Ζ DRYER: VENT TO OUTSIDE AIR; 4" DIAMETER OR 3 1/2" X 4" RECTANGULAR VENT GOOD FOR A COMBINED \mathbf{O} HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 14'-0" W/ MAXIMUM 2 ELBOWS. OPTION: 5" DIAMETER OR 3 C 0 1/2"X6" RECTANGULAR VENT GOOD FOR A COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 38'-0" W/ MAXIMUM 2 ELBOWS. DEDUCT 6' FOR EACH ADDITIONAL ELBOW. BRAND AND MODEL NUMBER SHALL BE SUBMITTED 0 TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. WASHER STACKED UNIT: VENT TO OUTSIDE AIR; 4" DIAMETER OR 3 1/2" X 4" RECTANGULAR VENT GOOD FOR A 1 COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 14-0" W/MAXIMUM 2 ELBOWS. OPTION: 5" DIAMETER OR 3 1/2"X6" RECTANGULAR VENT GOOD FOR A COMBINED HORIZONTAL AND VERTICAL LENGTH NOT TO EXCEED 38'-0" W/ MAXIMUM 2 ELBOWS, DEDUCT 6' FOR EACH ADDITIONAL ELBOW, (SEE DETAIL X.X/X.X) BRAND NAME AND MODEL NUMBER SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. TED OCT PROVIDE LOUVERED DOOR WITH A MINIMUM OF TWO 100 SQUARE INCH FREE AREAS. ONE OPENING WITHIN 12 INCHES OF THE TOP OF ENCLOSURE AND THE OTHER WITHIN 12 INCHES OF THE BOTTOM OF THE ENCLOSURE. PROGRAMMABLE NIGHT SET-BACK THERMOSTAT/UNIT REMOTE SHALL NOT BE MOUNT MORE THAN 48" A.F.F. PER CRC SECTION R327.1.2. MECHANICAL NOTES : GENERAL NOTES: AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN PLANNING AND DEVELOPMENT SOURCES OF CONTAMINATION SUCH AS STACK, VENT, EXHAUST HOOD OR VEHICLE EXHAUST. DEPARTMENT AIR CONDITIONING EQUIPMENT DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED, PER 4. VANUFACTURERS INSTALLATION INSTRUCTIONS. INSTALLATION INSTRUCTIONS SHALL BE PROVIDED TO THE FIELD FRESNO CITY HALL 2600 FRESNO STREET VORK INCLUDED WORK AND MATERIAL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE INTENTION OF THESE THIRD FLOOR ANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS CONTRACTOR IS TO FL 5H LABOR MATERIAL, COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS 1 FRESNO, CA. 93721-3600 ANSPORTATION, EQUIPMENT, AND MISCELLANEOUS SERVICES ETC. REQUIRED TO VISH LABOR MATERIAL NYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE COMPLISH THIS RESULT. 559-621-8084 STALLATION IS TO BE INCLUDED, WHETHER SPECIALLY SHOWN OR MENTIONED. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES darm.building@fresno.gov THESE DRAWINGS ARE DIAGRAMMATIC REPRESENTATION OF WORK TO BE ACCOMPLISHED AND AS SUCH ARE NO INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING AND DUCK WORK. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT SO AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTION AND MAINTAIN C 2023 CITY OF FRESNO HEADROOM AND PASSAGEWAYS THESE DRAWINGS, DESIGNS SKETCHES, IDEAS, DOCUMENTS, PLANS, ARRANGEMENTS, AND OTHER INFORMATION CONTAINED THEREIN, ARE THE SOLE AND EXCLUSIVE PROPERTY OF CITY OF FRESNO. THESE DOCUMENTS ARE DELIVERED AND ACCEPTED BY YOU IN TRUST AND ON THE EXPRESS CONDITION THAT NEITHER THESE DOCUMENTS OR THE INFORMATION CONTAINED THEREIN WILL BE THEREIN WILL BE COPIED, REPRODUCED, OR DELIVERED TO OTHERS, EXCEPT AS SPECIFICALLY INSTRUCTED BY CITY OF FRESNO. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE USED AS A CONSTRUCTION GUIDELINE ONLY AND NOT THE TOTAL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE INTENTION OF ANY CONSTRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. VERIFY SCOPE OF WORK WITH CONTRACTOR WHO IS SUPERVISING THE JOB. THE CITY OF FRESNO WILL PROVIDE INTERPRETATION OF THE CONSTRUCTION DOCUMENTS, BUT THE SUPERVISION IS UNDER THE RESPONSIBILITY OF THE CONTRACTOR. SUBMITTALS: CONTRACTOR SHALL SUBMIT A COPY OF EQUIPMENT BROCHURES FOR EACH ITEM FURNISHED. DATA SHALL INCLUDE MANU<mark>FACTURES APPROVED</mark> INSTALLATION INSTRUCTIONS. SUBMITTALS SHALL BE COMPLETE AND **PROJECT**: SHALL BE BOUND, INDEXED, AND TABBED. TEST AND ADJUSTMENTS: CONTRACTOR SHALL TEST ALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS, SYSTEM SHALL BE FREE OF OBJECTIONABLE NOISE AND VIBRATION. SYSTEM SHALL BE BALANCED FOR EVEN ACCESSORY ISTRIBUTION OF HEATING AND COOLING. OPERATING INSTRUCTIONS: CONTRACTORS SHALL PROVIDE OWNER WITH 2 COPIES OF OPERATING AND M<mark>AINTE</mark>NANCE IN<mark>STRUC</mark>TIONS, MANU<mark>FACTURERS</mark> EXTEND WARRANTIES, AND CONTRACTORS WRITTEN WARRANT AL<mark>L BOUN</mark>D, INDEXED AND TABBED. MAINTENANCE INSTRUCTIONS SHALL INCLUDE MAINTENANCE WHICH IS REQUIRED TO KEEP FOUIPMENT OPERATING AT MAXIMUM EFFICIENCY. WARRANTY: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FROM DATE OF OF OWNERS SUBSTANTIAL USAGE OR OCCUPANCY, WHICH EVER IS **DWELLING** EARLIER. DAMAGE DUE TO VOLTAGE FLUCTUATION, FIRE, ACTS OF THE ELEMENTS, ACTS OF THE OWNER OR OTHE PARTIES, IMPROPER MAINTENANCE OR NEGLECT ARE SPECIFICALLY EXCLUDED FROM THE GUARANTEE. ALL REPAIRS SHALL BE PERFORMED DURING NORMAL WORKING HOURS AND SHALL BE MADE PROMPTLY AFTER NOTICE FAILURE, IF OWNER REQUEST THAT WORK BE PERFORMED ON OVERTIME, OWNER SHALL PAY THE DIFFERENCE UNIT BETWEEN REGULAR AND OVERTIME LABOR AT STANDARD BILLING RATES. ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJEC CALIFORNIA BUILDING CODE (**TADU-001**) CALIFORNIA PLUMBING CODE CALIFORNIA MECHANICAL CODE CALIFORNIA ELECTRICAL CODE NONRESIDENTIAL CEC ENERGY STANDARDS 2022 ECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT DUCTS, GRILLS, REGISTERS, CONTROLS. THERMOSTATS AND CONDENSATE LINES NECESSARY TO COMPLETE THE JOB, CONTRACTOR SHALL CHALK MARK PLAN 1 HIGH AND LOW VOLTAGE ELECTRICAL CONDUIT POINTS OF PENETRATION TO MATCH AIR CONDITIONING UNIT REQUIREMENTS ON THE SHEATHING, WHEN ELASHING IS INSTALLED ON SHEATHING BEFORE ROOFING IS STARTED CONTRACTOR SHALL ALSO MARK THE GAS AND CONDENSATE PIPING POINTS OF PENETRATION OF THE ROOF SHEATHING. CONTRACTOR SHALL START, TEST AND ADJUST ALL SY<mark>STEMS</mark> FOR THE PR<mark>OPER WORKING OF THE SYSTEMS TO THE</mark> SATISFACTION OF THE OWNER AND TENANT, CONTRACTOR SHALL BE RESPONSIBLE FOR THE INITIAL START UP FOR A PERIOD ONE YEAR FROM THE DATE OF ISSUANCE OF THE CERTIFICATE OF OCCUPANCY . EQUIPMENT AND MATERIALS ITIONING UNIT MOUNTING AT ALL FRAMES SHALL BE BOLTED OR LAG SCREWED TO STRUCTURAL MEMBER AIR CON AT EACH CORNER WITH MINIMUM 3/8"X3" PENETRATION INTO SOLID WOOD. A.C. UNIT SHALL BE BOLTED TO THE SUPPORT FRAME WITH 3/8" MINIMUM BOLTS AT EACH CORNER. ELECTRICAL VOLTAGE: AIR CONDITIONING CONTRACTOR SHALL CONFIRM ALL SYSTEM VOLTAGES BEFORE BIDDING AND ORDERING EQUIPMENT AND ALLOW FOR BUCK AND BOOST TRANSFORMERS ON EACH PHASE IF REQUIRED. BY OTHERS: PLUMBING CONTRACTOR: GAS, WATER AND CONDENSATE PIPING INCLUDING FINAL CONNECTIONS WITH ELECTRICAL CONTRACTOR: ALL POWER AND CONTROL. PROVIDE W/P OUTLET WITHIN 25' FROM EQUIPMENT AND QUICK DISCONNECT, NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON AIR CONDITIONING UNITS AND NO RIDGE ELECTRICAL CONNECTIONS SHALL BE MADE. CONDUIT, WIRING DISCONNECTS AND FINAL CONNECTIONS, UNLESS OTHERWISE NOTED ON MECHANICAL PLAN. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON AIR CONDITIONING UNITS AND NO RIDGE ELECTRICAL CONNECTIONS SHALL BE MADE. ALL AIR CONDITIONERS TO BE EQUIPPED WITH AN APPROVED CONDENSATE DRAIN. RUN IN AN APPROVED MANNER TO AN APPROVED LOCATION. ALL EQUIPMENT SHALL COMPLY WITH THE CALIFORNIA ENERGY COMMISSION STANDARD, AND SHALL BE CERTIFIED BY THE MANUFACTURER. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT. EQUIPMENT INDICATED ON THESE DRAWINGS ARE SHOWN IN APPROXIMATE LOCATIONS, THE CONTRACTOR SHALL REVISIONS FIELD VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT LOCATIONS. EXCAVATION, CUTTING, AND FITTING PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER AND EXCEED NOTCHING REQUIREMENTS SPECIFIED IN STRUCTURAL DRAWINGS. DESCRIPTION DATE MECHANICAL UNIT SCHEDULE: DESCRIPTION OCATION OUTDOOR HEAT PUMP IOUNTING /OLTS/PHASE/CYCL NOCE CITY USE ONLY MANUFACTUREF WNER CHOICE¹ **NER CHOICE** OWNER CHOICE MUST MEET MINIMUMS AND MAXIMUMS LISTED IN MECHANICAL UNIT SCHEDULE VERIFY ELECTRICAL LOADS DEMANDS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION DESCRIPTION INDOOR HIGH WALL NOUNTING WALL 1.5 MIN. OOLING SYSTEM TO 600 CFM MIN COLING RATED CAPACIT 18,000 BTU/HR 16.0 MIN **HEATING RAT** 18,000 BTU/HR CAPACITY(47° F) HEATING RATED CAPACITY(17° F) 10.800 BTU/HR 9.5 MIN. 208/230-1-60² 0.5^{2} OWNER CHOICE 1ANUFACTURE OWNER CHOICE¹ OWNER CHOICE MUST MEET MINIMUMS AND MAXIMUMS LISTED IN MECHANICAL UNIT SCHEDULE VERIFY ELECTRICAL LOADS DEMANDS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION. DRAWING TITLE MECHANICAL PLAN AND DETAILS JOB# : TADU-001 SHEET NO. DATE: 13-Jul-23 **M**.1 SCALE: AS NOTED

DRAWN BY: IRG

CRTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE MEMOD Calculation Date/Time: 2023-03:13115:29:42:07.00 (Page 1 of 12) Calculation Description: Title 24 Analysis Input File Name: TAOU-001 CONTEMPORARY. Input File Name: TAOU-001 CONTEMPORARY. (Page 1 of 12) Calculation Description: Title 24 Analysis Input File Name: TAOU-001 CONTEMPORARY. 0 Input File 24 Analysis Input File 74 Analysis Input File 74 Analysis Input File 74 Analysis Input File 74 Analysis 0 Input File 74 Analysis 0 Input File 74 Analysis Input File 74 Analysis Input File 74 Analysis Input File 74 Analysis 0 Input File 74 Analysis Input File 74 Analysis<	CERTIFICATE OF COMPLIANCE - RESIDENTIAL DEPROTRANCE COMPLIANCE METHOD Caluation Date/Time: 20:30:31:115:29:42.07:00 (Page 2 of 12) Takulation Description: Title 24 Analysis Character 20:30:31:31:52:94:20:30 Caluation Date/Time: 20:30:31:31:52:94:20:30 (Page 2 of 12) Tensor Title 24 Analysis Tensor Title 24 Analysis Compliance Margins Compliance Margins Compliance Margins Compliance Margins Compliance Margins (Date 20:00) Tensor Title 24 Analysis Compliance Margins Compliance Margins (Date 20:00) Compliance Margins Compliance Margins (Date 20:00) Compliance Margins Compliance Margins (Date 20:00) Compliance Margins (Date 20:00) (Date 20:00) Sandard Design Compliance Margins (Date 20:00) (Date 20:00)	CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Certification Data / Times 2023 (33 / 35 / 11 / 5 / 20 / 20 / 11 / 10 / 10 / 10 / 10 / 10	ICATE OF COMPLIAN t Name: TADU-001 C ation Description: The Y USE SUMMARY Energy Use Er pace Heating pace Cooling Q Ventilation /ater Heating Self zation/Flexibility Credit pace Gooling pace Cooling pace Cooling pace Heating pace Cooling Self zation/Flexibility Credit Self zation/Flexibility Credit Self Self zation/Flexibility Credit Self zation/Flexibility Credit Self Zation/Flexibilit
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DEDICATED WITHIN 3 F OF WATER HEATER 125V, 20 AMP ELECTRIC READY W/120/240V 3 CONDUCTOR BRANCH CIRCUIT 120/240V 20 AMP 1/2" C, 3-#12 1-#12 GND CU BOTH ENDS OF SHALL BE LABELED "SPARE" AND BE ELECTRICALLY ISOLATED. A RESERVE SINGLE POLE BREAKER

LABELED "FUTURE 240V USE"

A, A1

DESIGN CRITERIA							UFFR	Ec
OFING MATERIAL ILDING STORIES: OUND SNOW LOAD:	COMPOSITION SHINGLE	ARRAY # 1	ROOF TIL AZIMUT DC STC	T: SEE PV PLAN H: 150° TO 270° RATING: 2.31 kW		\sim	- 9 / 9 - 2	1
D SPEED: ARRAY WEIGHT POSURE CATEGORY:	94 MPH 291.0 LBS C							
CHEDULE O	SOLAR PH	OTOVOLTA		NENTS				
SOLAR COMPONENT TOVOLTAIC MODULES RO INVERTERS	MANUFAC Q.PEAK DUO BI ENPHASE IQ8	CTURER & MODEL LK ML-G10+385 OR EQU/ PLUS-72-2-US OR EQUA	QUAN IAL	ITITY 6 6				
COMBINER KING ATTACMENT	IRONRIDGE	N/A E FLASHVUE OR EQUAL DGE XR10 OR EQUAL	. (4) 14'-	I/A 8 0" FACH		2		%
ERAL REQUIREMENT: UTILITY SHALL BE NOTIFIE	D BEFORE ACTIVATION OF	PV SYSTEM.	(Ŧ)			Po		1.2.1
110.2 APPROVAL: ALL ELEC RECOGNIZED TESTING LAE ADMINISTRATION.	CTRICAL EQUIPMENT SHAL	LL BE LABELED, LISTED, BY THE UNITED STATES	OR CERTIFIED BY A NA	TIONALLY Y HEALTH		RA	TELOC	< . //
CONTRACTOR SHALL FIELD CONTRACTOR SHALL REVI CONSTRUCTION.	EW ALL MANUFACTURER	INSTALLATION DOCUME	ENTS PRIOR TO INITIATI				ED OC	
CONNECTIONS, ETC. AND A QUALIFIED PERSONNEL (C THE CONTRACTOR OR OW	ALL ASSOCIATED WIRING / EC 690.4(E)).	AND INTERCONNECTION	ROOF) FOR THE ALL RE					
NSPECTIONS, LADDERS M AND DESIGNED FOR ITS IN SMOKE ALARMS AND CARE	UST BE OSHA APPROVED, TENDED USE BON MONOXIDE ALARMS A	MINIMUM TYPE I WITH	A 250 LB RATING, IN GC	OD CONDITION		DE	PARTMEN	ELOPME NT
DWELLING AS PER THE 201 BEDROOM, AND AT LEAST RE <mark>TROFI</mark> TTED OUTSIDE EA	19 CRC. THESE SMOKE ALA ONE ON EACH FLOOR OF ACH BEDROOM AND AT LEA	ARMS ARE REQUIRED TO THE HOUSE. CARBON M AST ONE ON EACH FLOO	O BE IN ALL BEDROOMS MONOXIDE ALARMS ARE OR OF THE HOUSE. THE	S, OUTSIDE EACH REQUIRED TO BE ESE ALARMS MAY		FRESN 2600 F	NO CITY RESNO S	HALL STREET
BE SOLELY BATTERY OPEN WALL AND CEILING FINISH NTERCONNECTED. (CRC F	ES INSIDE THE PHOTOVOLT ES INSIDE THE HOME; OTH R314, R315)	IRED BED CBC SECTION	MUST BE HARD WIRED		╞		IRD FLOC	DR 21-3600
NSPECTED BY THE INSPEC CONTRACTOR SHALL VERI LAG SCREWS SHALL DEVICE	THAT THE AMININ ARE REQU TOR IN THE FIELD. FY THAT THE ROOF STRUCT TRATE A MINIMUM 2" INTO	CTURE WILL WITHSTAN	ID THE ADDITIONAL LOA			, 55 darm b	9-621-808	0000 84
MANUFACTURER RECOMM AN ACCESS POINT SHALL I MINDOWS OR DOORS ARF	IENDATIONS FOR FASTENI BE PROVIDED THAT DOES LOCATED AT STRONG PO	ERS INTO ENGINEERED NOT PLACE THE GROUI	STRUCTURAL MEMBER	RS. NINGS SUCH AS CATIONS WHERE				
THE ACCESS POINT DOES CRC R331.4.2) WHERE DC CONDUCTORS	NOT CONFLICT WITH OVER	RHEAD OBSTRUCTIONS	S SUCH AS TREE LIMBS,	WIRES, OR SIGNS.	THESE ARRANGE SOLE AND	DRAWINGS, DESIC MENTS, AND OTHE EXCLUSIVE PROF	GNS SKETCHES, IDEAS, ER INFORMATION CONT PERTY OF CITY OF FRES	DOCUMENTS, PLAN TAINED THEREIN, AR SNO. THESE DOCUM
SHALL NOT BE INSTALLED MODULES AND EQUIPMEN [®] PLUMBING AND MECHANIC	WITHIN 10" OF THE ROOF T. (CEC 690.31(E)(1)) CAL VENTS THROUGH THE	DECKING OR SHEATHIN	NG EXCEPT WHERE CON	/ERED BY THE PV	CONDI CONTAIN DELIVERE	TION THAT NEITHE ED THEREIN WILL I D TO OTHERS, EX	R THESE DOCUMENTS BE THEREIN WILL BE CO CEPT AS SPECIFICALLY FRESNO	OR THE INFORMATION OPIED, REPRODUCEI (INSTRUCTED BY CI
ALL FIELD-INSTALLED JUN	CTION, PULL, AND OUTLET			SOLAR E ACCESSIBLE	PROJE	CT:		
SOLAR P	PHOTOVOLT	AIC WIRING	G SCHEDU	LE		\mathbf{r}	FCC	
BOL GAUGE & TYPE GR	6 AWG BARE COPPER	DESIGN CURRENT(A) 10.0	CONDUIT SIZE & TYPE	QUANTITY 2	╢┍		LJJ	
10 AWG THWN 2 AWG	8 AWG THWN 8 AWG	10.0	3/4" EMT	3	-	DW	ELL	ING
THWN	THWN SI	100.0	1 1/2" EMT	3				
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SHALL BE PERMITTED B ALL EXTERIOR CONDUIT	Y SEPARATE COLOR-COD F, FITTINGS, AND BOXES S	ING, MARKING TAPE, TA HALL BE RAIN-TIGHT AN	AGGING OR OTHER APP ND APPROVED FOR USE	ROVED MEANS	1	TA		
WHERE CONDUCTORS / ENSURE PROPER PROT	ARE INSTALLED UNDERGR ECTION. YS AND FOURIEMENT STRAT	ROUND, SECTION 300.5 C			\		יייי	
ALL WE RALLIG RAGEWA	, STARE LOUIFIVIENT SHAL	L DE DONDED AND ELE	UNITED ALL TOURTINUOL		1			
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250.96) WHERE SIZES OF JUNC THEM ACCORDING TO A REMOVAL OF A UTILITY- CONNECTION BETWEEN CIRCUIT GROUNDED CO	TION BOXES, RACEWAYS, A PPLICABLE CODES. INTERACTIVE INVERTER C I THE GROUNDING ELECTF NDUCTOR	AND CONDUITS ARE NO DR OTHER EQUIPMENT S RODE CONDUCTOR AND	DT SPECIFIED, CONTRA SHALL NOT DISCONNEC D THE PV SOURCE AND/	CTOR SHALL SIZE CT THE BUILDING OR OUTPUT		P	LAN	1
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PHOTOVOLTAIC MODULE SPECIFICATION **MICROINVERTER SPECIFICATION** ENPHASE. Q.PEAK DUO BLK ML-G10+ 385-405 **ENDURING HIGH** PERFORMANCE 25 TOP BRAND PV MODULES SUROPE 2021 IQ8 and IQ8+ Microinverters Q CELLS Warranty st IQ8 Microinverters are the industry's first microgrid-forming, software defined **BREAKING THE 20% EFFICIENCY BARRIER** microinverters with split-phase power conversion capability to convert DC power to AC -Ul Q.ANTUM DUO Z Technology with zero gap cell layout power efficiently. The brain of the semiconductor-based microinverter is our proprietan application specific integrated circuit (ASIC) which enables the microinverter to operate in boosts module efficiency up to 20.9%. grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has superfast response times to changing loads and grid events, alleviating HOROUGH TESTING PROGRAMME IN THE INDUSTRY Q CELLS is the first solar module manufacturer to pass the most comprehenconstraints on battery sizing for home energy systems. sive quality programme in the industry: The new "Quality Controlled PV" of he independent certification institute TÜV Rheinland. NNOVATIVE ALL-WEATHER TECHNOLOGY Optimal yields, whatever the weather with excellent ow-light and temperature behavior. Part of the Enphase Energy System, IQ8 IO8 Series Microinverters red Long-term yield security with Anti LID Technology, Anti PID Series Microinverters integrate with the reliability standards with more than one echnology¹, Hot-Spot Protect and Traceable Quality Tra.Q™. IQ Battery, IQ Gateway, and the Enphase million cumulative hours of power-on testing, enabling an industry-leading App monitoring and analysis software. ited warranty o<mark>f up to</mark> 25 years. **EXTREME WEATHER RATING** High-tech aluminum alloy frame, certified for high snow (5400Pa) and wind loads (4000Pa). (4) A RELIABLE INVESTMENT Inclusive 25-year product warranty and 25-year linear performance warranty². IQ8 Series Microinverters are UL listed Connect PV modules quickly and easily APT test conditions according to IEC/TS 62804-1:2015, method (-1500V.96h) to IQ8 Series Microinverters using the as PV Rapid Shutdown Equipment and ² See data sheet on rear for further information. included Q-DCC-2 adapter cable with conform with various regulations, when plug-n-play MC4 connectors. nstalled according to manufacturer's THE IDEAL SOLUTION FOR: Rooftop arrays on residential buildings Only when installed with IQ System Controller 2, meets UL 1741 IQ8 and IQ8Plus support split-phase, 240V installations on © 2022 Enphase Energy. All rights reserved. Enphase, the Enphase logo, IQ8 Microinverter Engineered in Germany and other names are trademarks of Enphase Energy, Inc. Data subject to change. MECHANICAL SPECIFICATION IQ8 and IQ8+ Microinverters 74.0 in × 41.1 in × 1.26 in (including frame) 1879 mm × 1045 mm × 32 mm 108-60-2-US 48.5lbs (22.0kg) Commonly used module pairings¹ W 235 - 350 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology 60-cell / 120 half-cell Module compatibilit Back Cover Composite film Black anodized aluminu 6 × 22 monocrystalline Q.ANTUM solar half cells 16 - 48 perating range Junction Box 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in 4 Laber - 2 49.2' (1250 mm) (53-101mm × 32-60mm × 15-18mm), IP67, with bypass diodes Min. / Max. start voltage V 22/48 4 mm² Solar cable; (+) ≥49.2 in (1250 mm), (-) ≥49.2 in (1250 mm) Max. input DC voltage Stäubli MC4; IP68 Connector - 1.26" (32 mm) Max. continuous input DC current A 0.96° (24.5 m Max. input DC short-circuit current ELECTRICAL CHARACTERISTICS Max. module I_{so} POWER CLASS voltage class DC por 385 390 **MINIMUM PERF** Power at MPR 45.23 45.19 **Open Circuit Volta** Current at MPR 10.65 10.59 10.71 eak output power 36.88 Voltage at MPP 36.36 36.62 Max. continuous output poy ≥20.1 **MINIMUM PERFORMAN** (L-L) voltage / range² Power at MPP 296.3 8.95 42.76 42.69 42.72 Open Circuit Voltag 42.62 42.65 Current at MPP 8.46 Voltage at MPP 35.03 34.59 34.81 urement tolerances Pure +3%: Iw: Vox +5% at STC: 1000 W/m² 25+2°C. AM 1.5 according to IEC 60904-3 • ²800 W/m² NMOT spectrum AM 1. Q CELLS PERFORMANCE WARRANTY PERFORMANCE AT LOW IRRADIANCE Max. units per 20 A (L-L) branch circui At least 98% of nominal power during first year. Thereafter max, 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At Overvoltage class AC port east 86% of nominal power up to AC port backfeed current 25 years. ower factor setting All data within measurement tolerand es. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country. omparison to STC conditions (25°C, 1000 W/r EMPERATURE COEFFICIENTS a [%/K] +0.04 Temperature Coefficient of V_{oc} ature Coefficient of γ [%/K] -0.34 Nominal Module Operating Temperature NMOT 109±5.4 (43) mbient temper PROPERTIES FOR SYSTEM DESIGN 1000 (IEC) / 1000 (UL) PV module classification Maximum System Voltage V₅₁₈ Class DC Co Maximum Series Fuse Rating 20 Fire Rating based on ANSI/UL 6173 [A DC] [Ibs/ft²] 75 (3600 Pa) / 55 (2660 Pa) Permitted Module Temperature -40 °F up to +185 °F Dimension Max. Design Load, Push/Pull¹ [lbs/ft²] 113 (5400 Pa) /84 (4000 Pa) on Continuous Duty (-40°C up to +85°C) Max. Test Load, Push / Pull³ ³See Installation Manual QUALIFICATIONS AND CERTIFICATES PACKAGING INFORMATION Pollution degre Enclosure IEC 61215:2016, IEC 61730:2016, Horizontal 76.4in 43.3in 48.0in 1656lbs 24 24 32 packaging 1940mm 1100mm 1220mm 751kg pallets pallets modules J.S. Patent No. 9,893,215 (solar cells), Environ, cated GCPV Certification ongoing. Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instr Hanwha Q CELLS America Inc (2) Nominal voltage ran 30 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us branch in your area.

1885

DATE

RACKING RAIL AND ATTACHMENT SPECIFICATION

SPRINKLER FLOOR PLAN - GABLE/CRAFTSMAN STYLE **CONDITIONS OF FFD APPROVAL:** 1/4"=1'0"

[8'-0'']

NO FINAL WILL BE GRANTED UNLESS WORK IS IN COMPLETE CONFORMANCE WITH ALL APPLICABLE LAWS, CODES, ORDINANCES, STANDARDS AND POLICIES.

FFD WILL NOT FINAL ANY BUILDING WITHOUT APPROVED PLANS WHICH REFLECT THE ACTUAL SYSTEM INSTALLATION IF FIELD CHANGES BECOME NECESSARY, NEW ADDENDUM PLANS MUST BE SUBMITTED, REVIEWED AND APPROVED PRIOR TO FFD ISSUING A BUILDING FINAL. IT IS THE CONTRACTORS RESPONSIBILITY TO SUBMIT ADDENDUM PLANS AND OBTAIN APPROVAL FOR CHANGES PRIOR TO REQUESTING A FINAL INSPECTION (CFC 105.4.5)

A COMPLETE, FULL SIZED, PHYSICAL COPY OF ALL PLAN DOCUMENTS (INCL. CALCS, MANF. SHEETS, ETC. SHALL BE MAINTAINED ON SITE AT ALL TIMES.

IT IS THE CONTRACTOR'S OBLIGATION TO COMPLY WITH ALL FFD CONDITIONS OF APPROVAL & APPLICABLE LAWS, CODES, ORDINANCES AND ADOPTED REFERENCED STANDARDS PRIOR TO REQUESTING A FIRE FINAL.

SPRINKLER RCP PLAN - GABLE/CRAFTSMAN STYLE 1/4"=1'0"

WATER SUPPLY INFORMATION

[8'-0'']

()

-7'-0"----

STATIC: 40 PSI RESIDUAL: 25 PSI FLOW: 1350 GPM

* WATER SUPPLY INFO PROVIDED BY CITY OF FRESNO AS MINIMUM EXPECTED PRESSURE & FLOW. CONTRACTOR TO CONFIRM THE SITE SPECIFIC WATER SUPPLY MEETS OR EXCEEDS THE SUPPLY SHOWN ABOVE*

APPROVED FOR MIN 1 INCH PUBLIC WATER SERVICE AND METER IN COPPER PIPE

GENERAL NOTES

	SPRINKLER HEAD SCHEDULE AND LEGEND										
PROJECT	COMMENTS	THREAD SIZE	FINISH	TEMP.	K-FACTOR	SIN	MANUFACTURER	LOCATION	SYMBOL		
INSTALLATION OF A N 2 ACCORDANCE WITH :	FLAT CONCEALED PENDENT SPRINKLER NSF/ANSI/CAN 61 & 372	1/2"	WHITE	162°	3.7	SS8261	SENJU	GYP. BOARD/ ACOUST. TILES.	•		

* FRESNO FD APPROVED EQUIVALENT SPRINKLERS MAY BE USED

SPRINKLER FLOOR PLAN - CONTEMPORARY STYLE

SPRINKLER RCP PLAN - CONTEMPORARY STYLE

A.- THE SYSTEM IS A "STANDALONE SYSTEM WITH PASSIVE PURGE" - CPVC HANGERS SHALL BE IN ACCORDANCE WITH FRESNO FD POLICY #405.020 CPVC HANGER SPACING. C.- SPARE HEAD KITS AND WRENCHES SHALL BE INSTALLED INSIDE ALL NEW ADUS PER FRESNO FD FIRE INDUSTRY BULLETIN 2015-002. MINIMUM OF ONE (1) SPARE SPRINKLER HEAD FOR

EACH TYPE, TEMPERATURE RATING AND/OR ORIFICE SIZE.

SCOPE

W FIRE SPRINKLER SYSTEM IN NEW RESIDENTIAL ADU IN 22 NFPA 13D AND LOCAL AUTHORITY POLICIES.

NOTES

1 SPRINKLER OMMITTED PER 2022 NFPA 13D, SECTION 8.3.2

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

- 2 SPRINKLER OMITTED PER 2022 NFPA 13D, SECTION 8.3.3
- 3 STANDALONE SYSTEM RISER. SEE DETAIL 2/FP6.02
- PROVIDE MINIMUM 1/2" DRAIN CONNECTION WITH VALVE.
- PROVIDE ACCESS PANEL ON EXTERIOR OF BUILDING. SEE DETAIL 4/FP6.01. 1/2" NPT CAPPED CONNECTION PER NFPA 13D 7.8.3. PLUMBING CONTRACTOR TO MAKE THE FINAL
- CONNECTION TO W.C. CONTRACTOR TO PROVIDE A MINIMUM 2'-0" HORIZONTAL
- LEAD-IN AT THE TOP OF RISER. REFER DETAIL 2/FP6.02 FOR SIZE OF LEAD-IN PROVIDE SPARE HEAD CABINET IN CLOSET OR OTHER
- APPROVED LOCATION. SEE NOTE C ON THIS SHEET.
- 8 SPRINKLER OMMITTED PER 2022 NFPA 13D, SECTION 8.3.4 FP6.01

GENERAL NOTES

- THE FIRE PROTECTION SYSTEM IS ON A DEFFERED APPROVAL BASIS. THE SUCCESS C-16 LICENSED CONTRACTOR SHALL COORDINATE WITH MECHANICAL ENGINEER 8 ARCHITECT, DESIGN AND INSTALL FIRE SPRINKLER SYSTEM FOR ALL CONCEALED A UNCONCEALED AREAS OF THE BUILDINGS AS REQUIRED.
- CONTRACTOR SHALL INSTALL, ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYST PER REQUIREMENTS OF THE CURRENT NATIONAL FIRE PROTECTION ASSOCIATION CODE (NFPA), 2022 NFPA 13D, CALIFORNIA BUILDING CODE / CALIFORNIA FIRE COE (CBC/CFC) CHAPTER 9, CALIFORNIA MECHANICAL CODE (CMC) AND INSURANCES UNDER WRITER'S REQUIREMENTS.
- THE DESIGN COORDINATION AND APPROVALS OF ALL MAINS AND BRANCHES LINES SERVE SPRINKLERS SHALL BE DONE BY A LICENSED FIRE PROTECTION CONTRACTOR
- SUBMIT SHOP DRAWINGS FOR APPROVAL. SHOP DRAWINGS SHALL BE APPROVED THE CITY OF FRESNO PLAN CHECK DEPARTMENT PRIOR TO COMMENCING.
- LOCATION OF SPRINKLER HEADS SHALL BE DONE BY THE FIRE PROTECTION CONTRACTOR USING THE CRITERIA AS NOTED BELOW:
 - IN LOCATIONS WITH SUSPENDED CEILING, THE SPRINKLER HEADS SHALL B LOCATED IN THE CENTER OF THE INDIVIDUAL CEILING TILES. THE SPRINKLI HEADS PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE
- B. IN LOCATIONS WITH PLASTERED OR GYPSUM BOARD CEILINGS, THE SPR HEAD PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS I AS POSSIBLE.
- C. FOR LOCATIONS OF CEILING TILES, DIFFUSERS AND LIGHTS, SEE ARCHITECTURAL REFLECTED CEILING PLANS
- ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- NO HOLES SHALL BE DRILLED OR CUT IN OR THROUGH ANY STRUCTURAL ELEMENT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEE
- SLEEVE AND GROUT ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS UNLE PENETRATION IS FIRE RATED. WHEN PENETRATING A FIRE RATED FLOOR OR WALL SLEEVE WITH 1" MIN. ANNULAR SPACE AROUND PIPE O.D. FILL ANNULAR SPACE WI FIBERGLASS FILL TO 1" FROM END OF SLEEVE. ADD APPROVED FIRE PROOF SEALA FOR THE HOUR RATING OF THE FLOOR OR WALL PENETRATION IN THE REMAINING SPACE.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TEMPORARY AND PERMANENT PERMITS, INCLUDING LICENSES, CERTIFICATES, INSPECTIONS AND TE
- ALL PIPE PENETRATION THRU WALLS, RATED OR OTHERWISE SHALL BE COVERED A SPLIT ESCUTCHEON PLATE.
- 11. FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PR TO, DURING, OR AFTER CONSTRUCTION IS PERFORMED FOR THE PURPOSE OF ACHIEVING QUALITY CONTROL AND SHALL NOT BE CONSTRUED AS SUPERVISION CONSTRUCTION.
- PHASING: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERAL CONTRACTOR CONSTRUCTION SCHEDULE AND BASED UPON MINIMIZING DISRUP TO EXISTING OPERATION. PHASING SHALL BE APPROVED BY ARCHITECT PRIOR TO ONSTRUCTION OR DEMOLITION
- 13. ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACT WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. THI CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE RESULTING FROM THE WORK AT THE CONCLUSION OF THE DAY'S CONSTRUCTION. THE AREA OF THE SIT SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, THE GENERAL CONTRACTOR WILL PERFORM ALL NECESSARY CLEAN-UP WORK AND BACK CHAR THE SUB CONTRACTOR FOR THE EXPENSE THUS INCURRED.
- ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNI TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- FITTINGS FOR HOLE-CUT CONNECTIONS, SUCH AS VICTAULIC "HOOKER" OR EQUIVALENT, ARE NOT ACCEPTABLE AND SHALL NOT BE USED.
- ALL CONTROL VALVES AND DRAIN VALVES SHALL HAVE A SIGN AFFIXED FOR IDENTIFICATION.
- ALL ABOVE GROUND PIPING SHALL COMPLY WITH THE MATERIALS LISTED PER NFP. Ed. 2022 TABLE 5.2.2.
- 18. ALL FITTING MATERIALS SHALL COMPLY WITH THE MATERIALS LISTED PER NFPA 13D 2022 TABLE 5.2.5.
- 19. ALL TOILETS SHALL BE EQUIPPED WITH A PASSIVE PURGE.
- 20. OBTAIN PERMIT FROM THE FIRE PREVENTION DIVISION FOR THE INSTALLATION OF MODIFICATION OF FIRE SPRINKLER SYSTEM.
- . A COPY OF THE APPROVED PLAN SET SHALL BE ON SITE DURING ANY FIRE DEPARTMENT INSPECTION.
- 22. IT IS THE CONTRACTOR'S RESPONSABILITY TO MAKE WORK AVAILABLE FOR INSPECT
- 23. MATERIALS FOR THE BUILDING WATER PIPING AND BUILDING SUPPLY PIPING SHALL IN ACCORDANCE WITH THE APPLICABLE STANDARDS REFERENCED IN CALIFORNIA PLUMBING CODE, TABLE 604.1. GALVANIZED MALLEABLE IRON, GALVANIZED WROUG IRON OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR USE BOTH UNDERGROUND AND IN BUILDINGS.
- HYDRAULIC CALCULATIONS SHALL NOT BE REQUIRED PER FRESNO FIRE DEPARTM IF THE ACTUAL WATER SUPPLY IS GREATER OR EQUAL TO THE WATER SUPPLY DATA SHOWN ON THIS SHEET.

SHEET INDEX

FP4.01

FP6.02

FLOOR PLAN SECTION VIEWS DETAILS DETAILS

BUILI	DING D	ESIGN IN	FORMATION
BUILDIN	IG DESIGN INFO	RMATION:	
	-BUILDING OCC -CONSTRUCTI	UPANCY= R3 ON TYPE= TYPE V-E	3
	-BUILDING -BUILDIN	HEIGHT= SEE PLA NG AREA= 340 SF	NS
-	GOVERNING FIF	RE CODE= 2022 CFC	С
-CLASSIFIC	<u>NKLER DESIGN (</u> CATION OF OCC	<u>DRITERIA -</u> UPANCY= RESIDEN	ITIAL
	-DESIGN	DENSITY= 0.05 GPN	M/SQ.FT.
	-DEFLECTOR DI -HEAD S	STANCE = 2 IN. MAX SPACING = 14 FT. M	X AX
ABB	REVIAT	IONS	
ABBREVIA	TION DESCRIPT		
AFF	ABOVE FI	NISHING FLOOR	
BFV	BUTTERFI	LY VALVE	
FH	FIRE HYD	RANT	
(N) PIV	NEW POST IND	ICATOR VALVE	
POC PVC	POINT OF		
UG	UNDERGE		
PC	WATER SI PLUMBIN	ERVICE PIPING	
IN THE EVE	ENT ABBREVIATI	ONS NOT MENTIONE	ED HEREIN ARE USED,
REFER <mark>ENC</mark> ABBR EVIA T	E WILL BE MAD	E TO ANSI Y1.1, MILI [.] IER STANDARD INDU	TARY STANDARD JSTRY CONVENTIONS.
1.50			
LEG	END		
<u>SY</u>			
		NOTE CALLOUT	
	\checkmark	NODE USED IN CALC	CULATION
		SECTION CALLOUT	
	-		
[1	I 1'-0"]	CEILING HEIGHT	
	<u>X</u> X-X	-NUMBER ON TOP D	DENOTES PIPE DIAMETER (IN)
			ON DENOTES FIFE LENGTH (FI
2	• F	NEW PIPE	
2	· F?	EXISTING PIPE	
₩/₩	-//	DEMOLISHED PIPE/E	EQUIPMENT
	\otimes	RISER	
		CHECK VALVE	
	•	PENDENT SPRINKLE	ĒR
2		PIPE HANGER	
2		ELBOW FACING AW	AY FROM VIEWER
			VARD VIEWER
)			
		TEE FAUING AWAY H	
<u> </u>		TEE FACING TOWAR	RD VIEWER
MINIMU	M DISTANC	ES FOR ORDI	NARY AND
INTERM	EDIATE TE	MPERATURE I	RESIDENTIAL
SPRINK	LERS		
	+RO ORD	NIEDGE OF SOURCI NARY TEMPERATUR	RE INTERMEDIATE
	SPR	in.	I EIVIPERATURE SPRINKLE
SIDE OF	OPEN OR	36	10
FIREP	LACE		12
FRON	IT OF SSED	60	36
FIREP	LACE OR		
WOOD-B	SURNING DVF	42	12
KITCHEN	I RANGE	18	9
WALL	OVEN	18	9
		18	9
DU	CTS	18	9
UNINSULA WATEF	TED HOT PIPES	12	6
SIDE OF	CEILING-		10
OR WALL		24	
OR WALL-I HOT AIR D	MOUNTED	24	12
OR WALL-I HOT AIR D FRON WALL-M	MOUNTED IFFUSERS IT OF DUNTED	24 36	12

HEATER OR

FURNANCE

LIGHT FIXTURE

0 W-250 W

250 W-499 W

12

NOTES SPRINKLERS OMMITTED PER 2022 NFPA 13D, SECTION 8.3.5.

CONDITIONS OF FFD APPROVAL:

NO FINAL WILL BE GRANTED UNLESS WORK IS IN COMPLETE CONFORMANCE WITH ALL APPLICABLE LAWS, CODES, ORDINANCES, STANDARDS AND POLICIES.

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TABLE 1 - PIPE SIZE FOR RISER LEAD-IN. RISER AND COMMON SUPPLY PIPE PER LENGTH OF SUPPLY PIPE									
MAXIMUM LENGTH OF SUPPLY IN EQUIVALENT SCHEDULE 40 PIPE (SEE NOTES 2,3)	COLUMN A (IN.) (SEE NOTE 4)	COLUMN B (IN.) (SEE NOTE 5)							
150 FT	1-1/4"	1-1/4"							
350 FT	1-1/4"	1-1/2"							
600 FT	1-1/2"	2"							

NOTE:

THIS SITE PLAN IS SHOWN FOR REFERENCE ONLY. REFER TO SHEET T.1 FOR THIS SCOPE OF WORK

