# **151 S MYERS ST - UNIT G DECK ADDITION**



# 4.02 ATTACHMENT 2

151 S MYERS STREET

OCEANSIDE, CA

	PROJECT INFORMATION		PROJECT DIRECTORY	
	ASSESSORS PARCEL NUMBER: ADDRESS:	150-073-1900 151 S MYERS STREET OCEANSIDE, CA. 92054	OWNER:	NEEL PUJARA 151 S MYERS STREET OCEANSIDE, CA. 92054 T: 760-815-2818
	YEAR BUILT: TYPE OF CONSTRUCTION: OCCUPANCY: USE: FIRE SPRINKLERS: FIRE ALARM: STORIES: UNIT TOTAL: (UNIT G ONLY INCLUDES SUNROOM W/ PROPOSED DECKS) FLOOR AREA: EXISTING SUNROOM FLOOR AREA:	1971 V-B R-2 APARTMENT BUILDING NO 3 12 <u>(1</u> ) +/- 386 S.F.	ARCHITECT:	npujara@gmail.com KIRK MOELLER ARCHITECTS, INC. CONTACT: KIRK MOELLER 2888 LOKER AVENUE EAST, SUITE 220 CARLSBAD, CA. 92010 T: 760-803-8006 kirk@kmarchitectsinc.com
D-5 YES YES				
	SCOPE OF WORK			
	PROPOSED DECK ADDITIONS LOCATED AT THE THIRD LEVEL SUNROOM ( APARTMENT BUILDING. THE PROPOSED DECKS WITH GUARDRAILS HAVE REQUIRE A BUILDING PERMIT. NO ADDITIONAL WORK IS PROPOSED TO THE EXISTING APARTMENT BUIL GARAGES AND STREET PARKING WILL REMAIN. NO STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, OR GRADING W	OF UNIT G OF THE EXISTING AND ALL PROVIDED PRIVATE		

# -Attachment 4-

BLDG23-2172



	SPECIFIC WRITTE
SHEET INDEX	
ARCHITECTURAL         A0.1       COVER SHEET         A0.2       GENERAL NOTES         A0.3       CAL GREEN NOTES         A1.1       SITE PLAN         A2.1       EXISTING SECOND FLOOR PLAN         A2.2       EXISTING THIRD FLOOR PLAN	* 517 *
<ul> <li>A2.3 ENLARGED FLOOR PLANS</li> <li>A2.4 EXISTING ROOF PLAN</li> <li>A3.1 ELEVATIONS</li> <li>AD 1 DETAILS</li> </ul>	
AD.1     DETAILS       TITLE 24       T24-1       T1TLE 24       T24-2       T1TLE 24	
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	Sheet Numb



CIFICATIONS		
ON CALIFORNIA BUILDING STANDARDS D AND ADOPTED BY THE CITY. THESE ARE	9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:	ROOF COVERING MATERIALS AND APPLICATION
DING CODE (CBC) AND DO NOT SUPERSEDE VED PLANS. THE CODE SECTIONS LISTED ODE (CBC).	A. INSTALL FIREBLOCKING IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10 FOOT (3048 MM) INTERVALS BOTH VERTICAL AND HORIZONTAL. EXCEPTION: FIRE BLOCKS MAY BE OMITTED AT FLOOR AND CEILING LEVELS WHEN APPROVED SMOKE-ACTUATED FIRE DAMPERS ARE INSTALLED AT THESE LEVELS.	1. THE FOLLOWING DEFINITIONS ARE APPLICABLE: BUILT-UP ROOF COVER FELT CEMENTED TOGETHER AND SURFACED WITH CAP SHEET, MINERAL A SIMILAR SURFACING MATERIAL. CLASS A ROOF COVERING IS ANY CLASS A ASBESTOS CEMENT SHINGLES OR SHEETS, EXPOSED CONCRETE SLAB R
NG AND DRAINIAGE.	B. INSTALL FIREBLOCKING AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES, SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, AND COVE CEILINGS.	ROOF COVERING, SLATE SHINGLES OR CONCRETE OR CLAY ROOF TILES. CLASS B ROOFING ASSEMBLY. CLASS C ROOF COVERING IS ANY CLASS C ARE TAPERED OR NON-TAPERED PIECES OF APPROVED DURABLE WOOD
WITH CBC, CHAPTERS 16 AND 17.	C. INSTALL FIREBLOCKING IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALLS UNDER THE STAIRS ARE UNFINISHED.	RESAWN OR SEMI SPLIT IN 15, 18 OR 24 INCH LENGTHS; TAPER SPLIT IN 24 OR 24 INCH LENGTHS AND TAPER SAWN IN 24-INCH LENGTHS OR LONGER PIECES OF APPROVED DURABLE WOOD, SAWED BOTH SIDES, OF RANDOM TO 14 INCHES AND IN LENGTHS OF 16 INCHES 18 INCHES OR 24 INCHES
) A DEPTH OF AT LEAST 12" BELOW THE	D. INSTALL FIREBLOCKING IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS THAT AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.	2. ROOF COVERING MATERIALS MUST BE APPLIED IN AN APPROVED MANN MANUFACTURER'S INSTRUCTIONS AND CBC.
D SHAPE. FORMS SHALL BE SUFFICIENTLY EMOVED BEFORE OCCUPANCY.	E. INSTALL FIREBLOCKING AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY-BUILT CHIMNEYS.	A. METAL ROOFING EXPOSED TO THE WEATHER MUST BE CORROSION-RE RIBBED STEEL AND FLAT STEEL SHEETS MUST BE A MINIMUM OF NO. 30 G FERROUS SECTIONS OR SHAPES MUST BE A MINIMUM OF NO. 26 GALVAN
DURING THE CONCRETE POUR. HOLD DOWN REBAR AND EARTH.	2" (51 MM) NOMINAL LUMBER OR TWO THICKNESSES OF 1" (25 MM) NOMINAL LUMBER WITH BROKEN LAP JOINTS OR ONE THICKNESS OF 23/32" (18.3 MM) WOOD STRUCTURAL PANEL WITH JOINTS BACKED BY 23/32" (18.3 MM) WOOD STRUCTURAL PANEL OR ONE THICKNESS OF 3/4" (19.1 MM) TYPE 2M PARTICLEBOARD WITH JOINTS BACKED BY 3/1" (10.1 MM) TYPE 2 M DADTICLEBOARD FIDE BLOCKS MAY, ALSO DE OF CYDELIM BOARD	B. WOOD SHINGLES AND SHAKES MUST COMPLY WITH UBC STANDARD NC AND MUST BE INSTALLED PER TABLE NO. 15-B-2. ALL WOOD SHINGLES AN CLASS C ROOF COVERING RATING.
2 STRENGTH OF 2,500 PSTAT 28 DAYS OR 2 PARTS OF ¾" MAX. DIAMETER GRAVEL 7 R MINIMUM FOUNDATION REQUIREMENTS	CEMENT FIBER BOARD, BATTS OR BLANKETS OF MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY FIRE TESTED IN THE FORM AND MANNER FOR INTENDED USE TO DEMONSTRATE ITS ARIUNTY TO REMAIN IN PLACE AND TO RETARD THE	3. FLASHING REQUIREMENTS A. ROOF VALLEY FLASHING MUST BE OF NOT LESS THAN NO. 26 GALVANIZ
CK. SEE STRUCTURAL DRAWINGS AND DJECT.	SPREAD OF FIRE AND HOT GASES.	RESISTANT METAL EXTENDING 12 INCHES FROM THE CENTER LINE EACH WOOD SHINGLES AND 12 INCHES FROM THE CENTER LINE EACH WAY FOR SHINGLES, CLAY AND CONCRETE TILE AND WOOD SHAKES, SECTIONS OF
ETE OR MASONRY SLAB, WHICH IS IN RETE OR MASONRY FOUNDATIONS, SHALL BRANDED BY AN APPROVED AGENCY. DORS WITHOUT JOISTS ARE LOCATED	10. DRAFTSTOPPING SHALL BE PROVIDED AS FOLLOWS: IN MULIT-FAMILY DWELLINGS, WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE FAMILY DWELLING, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 3,000 SQUARE FEET 333 SQUARE METERS). DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. (DRAFT STOPPING NOT REQUIRED IN BUILDINGS EQUIPPED WITH A	OF NOT LESS THAN 4 INCHES. IN GENERAL, THE METAL VALLEY FLASHING UNDERLAYMENT DIRECTLY BELOW IT OF ONE LAYER OF TYPE 15 FELT RU VALLEY IN ADDITION TO THE REQUIRED UNDERLAYMENT. B. WHERE THE ROOF AND VERTICAL SURFACES JOIN, FLASHING AND COU
SER THAN 12" (305 MM) TO EXPOSED WITHIN THE PERIPHERY OF THE BUILDING S, JOISTS, AND SUBFLOOR SHALL BE E ABOVE UNDER-FLOOR AREA CLEARANCES	11. DRAFTSTOPPING MATERIALS SHALL NOT BE LESS THAN 1/2" (12.7 MM) GYPSUM BOARD, 3/8" (9.5 MM) WOOD STRUCTURAL PANEL, 3/8" (9.5 MM) TYPE 2-M PARTICLEBOARD OR OTHER APPROVED MATERIALS ADEQUATELY	PER THE ROOFING MANUFACTURER'S INSTRUCTIONS. 4. ROOF INSULATION MUST SERVE AS A RIGID BASE FOR APPLICATION OF THE REQUIREMENTS OF CBC FOR FIRE-RETARDANCY. INSULATION FOR B
ACCESSIBLE UNDER-FLOOR AREAS SHALL G UNOBSTRUCTED BY PIPES, DUCTS, AND HALL BE EFFECTIVELY SCREENED OR NTERFERE WITH THE ACCESSIBILITY TO	SUPPORTED. 12. MAINTAIN ONE-HOUR FIRE PROTECTION ON GARAGE SIDE OF WALLS AND CEILING COMMON TO THE DWELLING. ALL PENETRATIONS THROUGH THE GARAGE FIREWALL/LID (F.A.U./WATER HEATER, RETURN AIR	PER CBC. FOR OTHER ROOFING MATERIALS, INSULATION MUST BE COVER NAILING BASE.
152 MM) ABOVE THE ADJACENT FINISH	GRILLE, ETC.) SHALL BE OF APPROVED MATERIALS. THE F.A.U. PLATFORM SHALL BE PROTECTED WITH 5/8" TYPE "X" DRYWALL. PROVIDE A DUCT SYSTEM FOR THE RETURN AIR. DO NOT USE THE FRAMING UNDER THE PLATFORM AS A DUCT.	SAFETY NOTES
AND MUST BE BOLTED TO THE FOUNDATION TS EMBEDDED AT LEAST 7" (178 MM) INTO (CEED 6 FEET (1829 MM) ON CENTER. THERE	13. EVERY EXTERIOR WOOD STUD WALL AND MAIN CROSS-STUD PARTITION MUST BE BRACED AT EACH END AND AS NEEDED TO RESIST WIND AND SEISMIC FORCES. PROVIDE LATERAL SUPPORT FOR BEAMS, RAFTERS, AND JOISTS TO PREVENT ROTATION OR LATERAL DISPLACEMENT.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY. THE FOR INTENDED TO BE A COMPLETE LIST. BUT ARE ADDITIONAL SAFETY REQUIN OBSERVATION VISITS TO THE SITE BY THE ARCHITECT SHALL NOT INCLUD ITEMS.
OT OVER 12" (305 MM) OR LESS THAN SEVEN IMUM OF 2" X 2" X 3/16" (51 MM X 51 MM X	14. A CERTIFICATE OF CONFORMANCE FOR GLUED-LAMINATED WOOD MEMBERS ISSUED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION OR BY AN AGENCY APPROVED BY THE CITY OF SAN DIEGO MUST BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.	1. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINI INDICATE THE METHOD OF CONSTRUCTION. THE DESIGN, ADEQUACY & SA SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF
HANICAL MEANS OR BY OPENINGS INTO IET AREA OF NOT LESS THAN 1 SQUARE	15. FLOOR JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS MUST BE DOUBLED.	BEEN CONSIDERED BY THE ARCHITECT. THE CONTRACTOR IS IS RESPONS STRUCTURE PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF ALL WALLS AND ROOF & FLOUTHER DECESSION PRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION PRACING TO PRAC
DER FLOOR AREA. OPENINGS MUST BE RED WITH CORROSION RESISTANT WIRE	SHALL NOT EXCEED ONE FOURTH THE JOIST DEPTH. NOTCHES ON THE TOP OR BOTTOM OF THE JOISTS SHALL NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE	MATERIALS.
ECTIVELY SCREENED OR COVERED	SIMPLE SUPPORTED SPAN. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES (51 MM) OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE THIRD THE DEPTH OF THE JOIST.	2. AN ERECTION PLAN IS REQUIRED FOR MOST CONSTRUCTION PHASES. ALL CONSTRUCTION PHASES WHICH REQUIRE ERECTION PLANS ACCORD REGULATIONS. A CERTIFIED COPY OF SUCH ERECTION PLANS SHALL REM ALL TIMES.
VITH 8D COMMON NAILS SPACED 6" O.C. ED 14", SOLID 2X BLOCKING MAY BE USED.	17. PURLINS TO SUPPORT ROOF LOADS MAY BE SUPPORTED BY BRACES, WHICH ARE NOT LESS THAN 45 DEGREES FROM THE HORIZONTAL.	3. TEMPORARY LOADING DURING CONSTRUCTION SHALL NOT OVERLOAD RESPONSIBLE FOR NOTIFYING ALL TRADES OF SUCH DESIGN VALUES.
	18. RAFTER TIES MUST BE SPACED NOT MORE THAN 4 FEET (1219 MM) ON CENTER WHERE RAFTERS AND CEILING JOISTS ARE NOT PARALLEL.	4. THE CONTRACTOR SHALL PROVIDE ATTACHED VISIBLE PLATES INDICA SPACES AS REQUIRED BY APPLICABLE SAFETY REGULATIONS. THE OCCU
NER THAT WILL MINIMIZE DAMAGE TO THE DENT, THE DESIGN CRITERIA BELOW MAY	19. PROVIDE 1/2-INCH MINIMUM CLEARANCE BETWEEN TOP PLATE OF INTERIOR NONBEARING PARTITIONS AND BOTTOM CHORD OF TRUSSES, RAFTERS AND BEAMS. PROVIDE CONNECTION TO PERMIT VERTICAL MOVEMENT AND POSITIVE LATERAL RESTRAINT.	RESPONSIBLE FOR KEEPING THE ACTUAL LOAD BELOW THE ALLOWABLE I 5. CONTRACTOR SHALL DETERMINE IF A CALOSHA PERMIT IS REQUIRED. CONTRACTORS RESPONSIBILITY TO OBTAIN SUCH A PERMIT.
RE FEET, OTHERWISE SEE STRUCTURAL	20. DOUBLE TOP PLATES SHALL HAVE A MINIMUM 48-INCH (2438 MM) LAP SPLICE.	6. LACK OF HIGH GUARDRAIL AT BUILDING PARAPETS, FLOOR OPENINGS CURRENT LABOR CODE FOR AN OCCUPIED SPACE. THIS ARCHITECT RECO
BE 24" FOR EXTERIOR WALLS AND 18" FOR	RIDGE BOARDS, HIPS AND VALLEYS MUST BE DESIGNED AS BEARING MEMBERS.	ARE NOT USED THE OWNER SHALL ACCEPT FULL RESPONSIBILITY. IN ADD PROVIDE CLEARLY LEGIBLE SIGNS AT THESE LOCATIONS STATING "CAUTI
AR TOP AND BOTTOM.	22. NAILING SHALL COMPLY WITH CBC NAILING SCHEDULE. 23. DOOR, WINDOW, AND OPENING HEADERS SHALL BE MINIMUM BE 4X10 UNLESS NOTED OTHERWISE. SEE	7. ALL TEMPORARY FLOOR AND ROOF OPENINGS LACKING GUARDRAILS S AND DESIGNED TO RESIST CONSTRUCTION TRAFFIC LOADS.
DF COARSE AGGREGATE OR ON A S"X6", 10 GA. WIRE MESH OR #3 REBAR 24"	STRUCTURAL DRAWINGS. 24. STRAP ALL CORNERS, BAYS, POP-OUTS AND TURRETS WITH MST27.	8. CONTRACTOR SHALL VERIFY THAT ALL SKYLIGHTS ARE DESIGNED TO N THE UNIFORM BUILDING CODES.
TRUCTURES WITH #3 REBAR 24" O/C. 5. THE WITH MOISTURE TO 18" PRIOR TO PLACING	25. PROVIDE MINIMUM 2X8 WOOD STUDS WHERE PLUMBING SUPPLY AND WASTE LINES ARE SCHEDULED.	9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AL
	MATERIAL SPECIFICATIONS	EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXEC
HEATING CONTRACTOR SHALL UCTS, RETURN AIR, ETC.	1. MORTAR TO BE USED FOR CONSTRUCTION OF MASONRY WALLS, FOUNDATION WALLS AND RETAINING WALLS MUST HAVE A COMPRESSIVE STRENGTH OF 1,800 PSI MINIMUM. ONE POSSIBLE MIX CONTAINS THE FOLLOWING PROPORTIONS BY VOLUME: 1 PART PORTLAND CEMENT 3 PARTS SAND 1/4 PART HYDRATED LIME OR LIME PUTTY NOTE THAT THE USE OF PLASTIC CEMENT IS NOT PERMITTED.	10. MATERIALS USED IN THIS DESIGN MAY BE HAZARDOUS TO ONES HEAL SHALL ACCEPT ALL RESPONSIBILITY AND SHALL POST SUCH WARNING DU 11. THE CONTRACTOR, DURING CONSTRUCTION, AND THE OWNER, DURING RESPONSIBILITY FOR PROPER ROOF MAINTENANCE TO INSURE PROPER F
PPROVED INSPECTION AGENCY. E NO. 2 GRADE DOUGLAS FIR-LARCH OR RADE DOUGLAS FIR-LARCH OR BETTER.	2. GROUT MUST HAVE A COMPRESSIVE STRENGTH EQUAL TO 2,000 PSI MINIMUM. ONE POSSIBLE MIX CONTAINS THE FOLLOWING PROPORTIONS BY VOLUME: 1 PART PORTLAND CEMENT 3 PARTS SAND 1/10 PART HYDRATED LIME OR PUTTY 1 TO 2 PARTS PEA GRAVEL (3/8-INCH AGGREGATE) ADD WATER UNTIL POURING CONSISTENCY IS ACHIEVED WITHOUT SEGREGATION OF THE GROUT CONSTITUENTS. THE USE OF PLASTIC	
ER OF EQUIVALENT CROSS SECTION, WHEN EADER JOISTS MORE THAN 6 FEET LONG 5 UNLESS BEARING ON A BEAM, PARTITION,	CEMENT IS NOT PERMITTED. 3. MASONRY UNITS MUST BE TYPE "N" AND MUST COMPLY WITH ASTM STANDARD SPECIFICATION C90-95 FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS.	
AT HEADER BY FRAMING ANCHORS OR ON	4. REINFORCING STEEL USED IN CONCRETE STRUCTURES MUST BE DEFORMED AND MUST COMPLY WITH CBC 1901.2. REINFORCING STEEL USED IN MASONRY STRUCTURES MUST COMPLY WITH CBC.	
STUDS SHALL BE IN ACCORDANCE WITH OT BE SPACED MORE THAN 16" (406 MM) ON EED 8 FEET IN HEIGHT FOR EXTERIOR ERIOR NONLOAD-BEARING WALLS.	5. STRUCTURAL STEEL MUST COMPLY WITH UBC STANDARD NO. 22-1. STEEL USED AS STRUCTURAL SHAPES SUCH AS WIDE FLANGE SECTIONS, CHANNELS, PLATES AND ANGLES MAY COMPLY WITH ASTM STANDARD SPECIFICATION A36-94. PIPE COLUMNS MAY COMPLY WITH ASTM STANDARD SPECIFICATION A53.93A.	
HNOT EXCEEDING 25 PERCENT OF ITS	WEATHER PROTECTION	
FEXCEEDING 40 PERCENT OF THE STUD	1. ALL WOOD SIDING MUST BE PLACED OVER AN APPROVED, WEATHER-RESISTIVE BARRIER.	
	2. EVERY OPENING IN ANY EXTERIOR WALL MUST BE FLASHED WITH SHEET METAL OR WATERPROOF BUILDING PAPER.	
N DIAMETER THAN 40 PERCENT OF THE THE WIDTH OF THE STUD ARE PERMITTED IN MORE THAN TWO SUCH SUCCESSIVE ICATED AT THE SAME SECTION OF THE	<ol> <li>BASEMENT FOUNDATION WALLS BELOW FINISHED GRADE MUST BE DAMP PROOFED ON THE OUTSIDE.</li> <li>A WEEP SCREED MUST BE PROVIDED FOR ALL STUCCO EXTERIOR STUD WALLS AT OR BELOW THE FOUNDATION PLATE LINE.</li> </ol>	
NTAIN BORED HOLES NOT GREATER THAN		
THAN 5/8" BE NEARER THAN 5/8 INCH (16 MM) D AT THE SAME SECTION OF STUD AS A CUT		
CONCEALED SPACES AT 10 FEET (3048 MM) CTIVE BARRIER BETWEEN FLOORS, VIDE ATTIC SPACES, CONCEALED ROOF		

### BLDG23-2172 DEFINITION RING IS TWO OR MORE LAYERS OF HABITABLE SPACE (ROOM) IS SPACE IN A STRUCTURE FOR LIVING, SLEEPING, EATING, OR COOKING. AGGREGATE, SMOOTH COATING OR BATHROOMS, TOILET COMPARTMENTS, CLOSETS, HALLS, STORAGE OR UTILITY SPACE, AND SIMILAR AREAS A ROOFING ASSEMBLY, ARE NOT CONSIDERED HABITABLE SPACE. OOF, SHEET FERROUS OR COPPER **ROOM DIMENSIONS** CLASS B ROOF COVERING IS ANY ROOFING ASSEMBLY. WOOD SHAKES OF RANDOM WIDTHS RANGING FROM FLOOR AREA: DWELLING UNITS SHALL HAVE AT LEAST ONE ROOM WHICH SHALL HAVE NOT LESS THAN 120 S. OUS DIMENSIONS: HAND SPLIT AND OF FLOOR AREA. OTHER HABITABLE ROOMS EXCEPT KITCHENS SHALL HAVE AN AREA OF NOT LESS THAN 70 4 INCH LENGTHS; STRAIGHT PLIT IN 18 S.F. WIDTH: HABITABLE ROOMS OTHER THAN A KITCHEN SHALL BE NOT LESS THAN 7 FEET IN ANY DIMENSION IRK MOELLER ARCHITECTS. IN R. WOOD SHINGLES ARE TAPERED CEILING HEIGHTS: HABITABLE SPACE SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6" MEASURED TO 2888 LOKER AVE. FAST. STE 220 M WIDTHS RANGING FROM 3 INCHES THE BOTTOM OF THE FINISHED CEILING. KITCHENS, HALLS, BATHROOMS AND TOILET COMPARTMENTS MAY CARLSBAD, CA 92010 HAVE A FINISHED CEILING HEIGHT OF NOT LESS THAN 7'. KIRK@KMARCHITECTSINC.COM 760-814-8128 NER IN ACCORDANCE WITH LIGHT AND VENTILATION GENERAL: FOR THE PURPOSE OF DETERMINING THE LIGHT AND VENTILATION REQUIRED BY THIS SECTION, ESISTANT. CORRUGATED STEEL, ALL IDEAS, DESIGNS AND ANY ROOM MAY BE CONSIDERED AS A PORTION OF AN ADJOINING ROOM WHEN ½ OF THE AREA OF THE DIRECTION INDICATED WITHIN GALVANIZED SHEET GAUGE. OTHER COMMON WALL IS OPEN AND UNOBSTRUCTED AND PROVIDES AN OPENING OF NOT LESS THAN 1/10 THE THESE DRAWINGS ARE TH IIZED SHEET GAUGE. FLOOR AREA OF THE INTERIOR ROOM OR 25 S.F., WHICHEVER IS GREATER. PROPERTY OF KIRK MOELLE ARCHITECTS, INC. AND ARE INTENDED TO BE ASSOCIATED DS. 15-4 AND 15-3, RESPECTIVELY, NATURAL LIGHT: ALL HABITABLE ROOMS SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR WITH THIS SPECIFIC PROJEC ND SHAKES MUST HAVE A MINIMUM GLAZED OPENINGS WITH AN AREA NOT LESS THAN 1/10 THE FLOOR AREA OF SUCH ROOMS WITH A MINIMUM ONLY AND SHALL NO OTHERWISE BE USED FOR AN OF 10 S.F PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF NATURAL VENTILATION: HABITABLE ROOMS: NATURAL VENTILATION BY MEANS OF OPENABLE EXTERIOR KIRK MOFULER ARCHITECTS. THERE SHALL BE NO CHANGE OPENINGS WITH AN AREA NOT LESS THAN 1/20 THE FLOOR AREA OF THE ROOM WITH A MINIMUM OF 5 S.F. OR DEVIATIONS FROM THESE ZED SHEET GAUGE CORROSION OTHER ROOMS: BATHROOMS, WATER CLOSET COMPARTMENTS, LAUNDRY ROOMS AND SIMILAR ROOMS DRAWINGS OR ACCOMPANYING WAY FOR ASPHALT, METAL AND (EXCEPT LAUNDRY ROOMS) SHALL BE PROVIDED WITH NATURAL VENTILATION BY MEANS OF OPENABLE SPECIFICATIONS WITHOUT THE R ASPHALT-CEMENT SHINGLES, SLATE EXTERIOR OPENINGS WITH AN AREA NOT LESS THAN 1/20 THE FLOOR AREA OF THE ROOM WITH A MINIMUM WRITTEN CONSENT OF THE ARCHITECT. FLASHING SHALL HAVE AN END LAP OPENABLE AREA OF 11/2 S.F. MUST HAVE A 36-INCH-WIDE INNING THE FULL LENGTH OF THE MECHANICAL VENTILATION (IN LIEU OF REQUIRED EXTERIOR OPENINGS FOR NATURAL VENTILATION): HABITABLE ROOMS: A MECHANICAL VENTILATING SYSTEM CAPABLE OF PROVIDING TWO AIR CHANGES PER HOUR MAY BE PROVIDED. 1/5 OF THE AIR SUPPLY SHALL BE TAKEN FROM THE OUTSIDE. OTHER ROOMS: IN INTERFLASHING MUST BE PROVIDED BATHROOMS CONTAINING A BATHTUB OR SHOWER OR COMBINATION THEREOF, LAUNDRY ROOMS, AND GED ARCA SIMILAR ROOMS, A MECHANICAL VENTILATION SYSTEM CONNECTED DIRECTLY TO THE OUTSIDE CAPABLE OF PROVIDING 5 AIR CHANGES PER HOUR MAY BE PROVIDED. THE POINT OF DISCHARGE OF EXHAUST AIR SHALL KIRK M. A ROOF COVERING AND MUST MEET BE AT LEAST 3 FEET FROM ANY OPENING INTO THE BUILDING. BUILT-UP ROOFS MUST BE APPLIED RED WITH A SUITABLE AND SECURE ATTIC: ATTIC AREAS SHALL BE VENTILATED WITH OPENINGS HAVING NET AREA OF NOT LESS THAN 1 SQUARE FOOT PER 150 S.F. OF ATTIC AREA. THE OPENINGS SHALL BE COVERED WITH 1/2" (MAX) GALVANIZED WIRE MESH TH CBC. SANITATION TOILET FACILITIES: NEW WATER CLOSETS SHALL HAVE A MAXIMUM FLUSH CAPACITY OF 1.28 GALLONS, AND SHALL BE LOCATED IN A CLEAR SPACE NOT LESS THAN 30 " WIDE. THERE SHALL BE A CLEAR SPACE IN FRONT OLLOWING REQUIREMENTS ARE NOT Ζ OF THE WATER CLOSET OF NOT LESS THAN 24". REMENTS FOR THE CONTRACTOR. 0 DE INSPECTION OF THE FOLLOWING SHOWER AREAS: SHOWERS SHALL HAVE FLOORS AND WALLS FINISHED WITH SMOOTH, HARD, NON-ABSORBENT SURFACES SUCH AS PORTLAND CEMENT, CERAMIC TILE, OR OTHER APPROVED MATERIAL TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE DRAIN INLET. MATERIALS USED IN WALLS, OTHER THAN IISHED STRUCTURE AND DO NOT STRUCTURAL ELEMENTS, SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. (CBC AFETY OF ERECTION BRACING, 1210.2.2 SHOWERS SHALL HAVE A MINIMUM AREA OF 1,024 SQUARE INCHES (NET), AND SHALL BE CAPABLE OF F THE CONTRACTOR, AND HAS NOT ENCOMPASSING A 30" CIRCLE. WHERE WALL TILE IS INSTALLED IN TUB AND SHOWER COMPARTMENTS, ONLY SIBLE FOR THE STABILITY OF THE FIBER-CEMENT, FIBER-MAT REINFORCED CEMENTITIOUS BACKER UNITS, GLASS MAT GYPSUM BACKERS OR OR SHEATHING. HE SHALL PROVIDE FIBER-REINFORCED GYPSUM BACKERS SHALL BE USED. ATION OF THE AFORE-MENTIONED GLAZING FOR SHOWER AND BATHTUB ENCLOSURES: BATHTUB ENCLOSURES SHALL BE FULLY TEMPERED 1/8" THICK GLASS OR 1/4" LAMINATED SAFETY GLASS. HINGED SHOWER DOORS SHALL OPEN OUTWARD. CONTRACTOR SHALL DETERMINE ING TO ALL APPLICABLE SAFETY IAIN ON THE CONSTRUCTION SITE AT EMERGENCY ESCAPES C Ш EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE WINDOW OR EXTERIOR DOOR EMERGENCY D DESIGN VALUES. CONTRACTOR IS EGRESS: APPROVED FOR EMERGENCY ESCAPE. THESE EMERGENCY ESCAPE DOORS OR WINDOWS MUST PROVIDE A FULL CLEAR OPENING AND SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF SPECIA TOOLS. ALL EGRESS WINDOWS SHALL HAVE A NET OPENING OF 5.7 S.F (821 SQUARE INCHES)WITH A MINIMUM TING THE DESIGN LOADS IN ALL NET CLEAR HEIGHT OF 24" AND WIDTH OF 20". THE FINISH SILL HEIGHT OF EGRESS WINDOWS SHALL NOT BE C JPANT OF THE BUILDING SHALL BE MORE THAN 44" ABOVE THE FLOOR. IMITS . IF SO, IT SHALL BE THE SMOKE DETECTORS SMOKE DETECTORS ARE REQUIRED FOR NEW CONSTRUCTION OF SLEEPING ROOMS AND CORRIDORS OR & ROOF OPENINGS DOES NOT MEET AREAS GENERAL: GIVING ACCESS TO SLEEPING ROOMS. OMMENDS THE USE IF GUARDRAILS LOCATION: THE REQUIRED SMOKE DETECTOR(S) SHALL BE MOUNTED ON THE WALL OF THE SLEEPING ROOM DITION, THE CONTRACTOR SHALL AND AT A POINT CENTRALLY LOCATED ON THE WALL OR CEILING OF THE CORRIDOR OR AREA GIVING ACCESS TION: NO GUARDRAIL". TO THE SLEEPING ROOM, AND ON EACH LEVEL OF THE DWELLING UNIT. DETECTORS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, WITH NO PART OF THE DETECTOR SHALL BE ADEQUATELY COVERED MORE THAN 12" FROM THE FINISHED SURFACE OF THE CEILING. LOCATION: THE REQUIRED SMOKE DETECTOR(S) SHALL BE MOUNTED ON THE WALL OF THE SLEEPING ROOM, S AND AT A POINT CENTRALLY LOCATED ON THE WALL OR CEILING OF THE CORRIDOR OR AREA GIVING ACCESS WITHSTAND THE LOADS SPECIFIED IN TO THE SLEEPING ROOM, AND ON EACH LEVEL OF THE DWELLING UNIT. DETECTORS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, WITH NO PART OF THE DETECTOR S Ś MORE THAN 12" FROM THE FINISHED SURFACE OF THE CEILING. $\mathbf{O}$ LL EXISTING UTILITIES WHETHER POWER: REQUIRED SMOKE DETECTORS INSTALLED IN THE AREAS OF NEW CONSTRUCTION OR OF THE NTRACTOR SHALL BEAR ALL ഗ ADDITION SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND SHALL BE EQUIPPED CUTION OF THIS WORK. Ш SIDE WITH A BATTERY BACKUP. DETECTORS MAY BE BATTERY OPERATED WHEN INSTALLED IN BUILDINGS WHICH R UNDERGO ALTERATIONS, REPAIRS, OR ADDITIONS. Ш LTH. THE CONTRACTOR AND OWNER ADDITIONS: WHEN THE VALUATION OF ADDITIONS. ALTERATIONS. OR REPAIRS TO RESIDENTIAL OCCUPANCIES JRING PROJECT OCCUPANCY. EXCEEDS \$1000, SMOKE DETECTORS SHALL BE INSTALLED IN ALL AREAS AS NOTED ABOVE. (CRC 314.2.2) Σ $\succ$ IG OCCUPANCY, SHALL ASSUME ALL Σ Z EXIT DOORS ROOF DRAINAGE. J 5 PROVIDE AT LEAST ONE EXIT DOOR WITH A LOCK OR LATCH THAT IS OPENABLE FROM THE INSIDE WITHOUT USING A KEY (NO DOUBLE CYLINDER KEY DEADBOLTS) AND WITHOUT SPECIAL KNOWLEDGE (NO COMBINATION LOCKS). THE LOCK OR LATCH MUST BE WITHIN 48" OF THE FINISH FLOOR. HALLWAYS MUST BE C **L** AT LEAST 36" WIDE. S Ο **—** MISCELLANEOUS 11-2-20 DOORS IN ALL DWELLINGS SHALL HAVE A MINIMUM WIDTH OF 32". Project: 151 S MYERS ST - UNIT ( WATER HEATER LOCATION: NO WATER HEATER WHICH DEPENDS ON THE COMBUSTION OF A FUEL FOR HEAT SHALL BE INSTALLED IN ANY ROOM USED OR DESIGNATED FOR SLEEPING PURPOSES, A BATHROOM, A CLOTHES CLOSET, OR IN ANY CONFINED SPACE OPENING INTO A BATHROOM OR SLEEPING ROOM. Revisions: ALL WATER HEATERS SHALL BE ANCHORED TO RESIST HORIZONTAL DISPLACEMENT. WATER HEATER CITY COMMENTS #1 - 01-26-2 ANCHORAGE: STRAPPING SHALL BE AT POINTS WITHIN THE UPPER 1/3 AND LOWER 1/3 OF THE TANK'S CITY COMMENTS #2 - 08-20-VERTICAL DIMENSIONS. THE LOWER STRAP SHALL BE A MINIMUM OF 4" ABOVE THE CONTROLS. FURNISH AND INSTALL MINIMUM OF 3/4" X 24 GAUGE STRAPS WITH 1/4"X3" LAG BOLTS ATTACHED DIRECTLY TO THE FRAMING (CALIFORNIA PLUMBING CODE 507.2). SEPARATION OF PRIVATE GARAGES: EVERY WALL AND CEILING SEPARATING A DWELLING FROM A GARAGE SHALL BE PROTECTED ON THE GARAGE SIDE WITH MATERIALS APPROVED FOR ONE-HOUR FIRE-RESISTIVE CONSTRUCTION, AND A SELF-CLOSING, TIGHT FITTING, SOLID WOOD DOOR A MINIMUM 1 3/8" THICK, OR A LISTED FIRE RESISTIVE ASSEMBLY WITH A RATING OF NOT LESS THAN 20 MINUTES. UNDER NO CIRCUMSTANCES SHALL A PRIVATE GARAGE HAVE ANY OPENINGS INTO A ROOM USED FOR SLEEPING PURPOSES. AIR DUCTS PASSING THROUGH THE OCCUPANCY SEPARATION WALL, FLOOR, OR CEILING SHALL BE NOT LESS THAN 0.019" THICKNESS STEEL (NO. 26 GAUGE GALVANIZED SHEET). **GENERAL** SEPARATION OF PRIVATE CARPORTS: AN OCCUPANCY SEPARATION NEED NOT BE PROVIDED BETWEEN A DWELLING AND A CARPORT HAVING NO ENCLOSED USES ABOVE, PROVIDED THE CARPORT IS ENTIRELY OPEN NOTES ON TWO OR MORE SIDES. ATTIC AREAS 30 INCHES (762 MM) OR HIGHER MUST BE ACCESSIBLE BY AN OPENING NOT LESS ATTIC ACCESS: THAN 22 INCHES BY 30 INCHES (559 MM BY 762 MM). THE OPENING SHALL BE LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. WITH A FURNACE IN THE ATTIC, THE OPENING MUST NOT BE LESS THAN 30" X 30" (22" X 30" IF THE LARGEST PIECE OF EQUIPMENT CAN BE ACCOMMODATED). eet Number

FIRE AND LIFE SAFETY



### FIRE AND LIFE SAFETY (MISC. CONTINUED)

SAFETY GLAZING. APPROVED TEMPERED GLASS SHALL BE USED IN THE FO

1. GLAZING IN INGRESS AND EGRESS DOORS.

2. GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAU GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPAF EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE STANDING SURFACE A 3. GLAZING WITHIN 24" OF EITHER VERTICAL EDGE OF A CLOSED DOOR WHE THE WALKING SURFACE.

4. GLAZING THAT MEETS ALL OF THE FOLLOWING CRITERIA: A. INDIVIDUAL F
 EDGE < 18" ABOVE THE FLOOR. C. TOP EDGE > 36" ABOVE THE FLOOR. D. W

GLASS. 5. GLAZING IN GUARDRAILS. 6. GLAZING IN STAIR ENCLOSURES AND LANDI AND TOP OF STAIRWAYS WHERE THE BOTTOM EDGE OF THE GLAZING IS W

SURFACE. ALL RESIDENTIAL STAIRWAYS WITH MORE THAN THREE RISERS SHALL CON

1. STAIRWAYS SHALL BE A MINIMUM OF 36" WIDE.

 THE MAXIMUM RISE IS 7 1/2", AND THE MINIMUM RUN IS 10". MAXIMUM DEV
 STAIRWAYS SHALL HAVE HANDRAILS ON ONE SIDE. OPEN STAIRWAYS SH SIDES.

4. OPEN STAIR RAILINGS SHALL HAVE INTERMEDIATE RAILS WITH OPENINGS PASS THROUGH THE OPENING.
5. HANDRAILS SHALL BE MOUNTED BETWEEN 34" AND 38" ABOVE THE TREAT BE BETWEEN 1 1/2" AND 2" IN CROSS SECTION DIMENSION. THE MUST BE 11/2 THE WALL.

6. HANDRAILS TO BE DESIGNED TO ACCOMMODATE A SINGLE CONCENTRAT ANY DIRECTION AT ANY POINT ALONG THE TOP. INTERMEDIATE RAILS, BAL BE DESIGNED TO ACCOMMODATE A SINGLE CONCENTRATED LOAD OF 50 LE AREA EQUAL TO 1 SQUARE FOOT.

GUARDRAILS: ALL UNENCLOSED FLOOR AND ROOF OPENINGS, OPEN AND G LANDINGS, AND RAMPS, BALCONIES OR PORCHES MORE THAN 30" ABOVE ( MUST BE PROTECTED BY A MINIMUM 42" GUARDRAIL. OPENINGS IN GUARDI RAILS WITH OPENINGS SUCH THAT A 4" SPHERE CANNOT PASS THROUGH T GUARDRAILS TO BE DESIGNED TO ACCOMMODATE A SINGLE CONCENTRATI ANY DIRECTION AT ANY POINT ALONG THE TOP. INTERMEDIATE RAILS, BALI BE DESIGNED TO ACCOMMODATE A SINGLE CONCENTRATED LOAD OF 50 LE AREA EQUAL TO 1 SQUARE FOOT.

	RESIDENTIAL GREEN BUILDING STANDARDS	
OLLOWING LOCATIONS:	THE CALIFORNIA BUILDING STANDARDS COMMISSION HAS ADOPTED THE GREEN BUILDING STANDARDS CODE AND MUST BE ENFORCED BY THE LOCAL BUILDING OFFICIAL. THE FOLLOWING MANDATORY REQUIREMENTS FOR RESIDENTIAL CONSTRUCTION MUST BE INCLUDED ON YOUR PLANS. CGC SECTION 101.3. THE STANDARDS APPLY TO NEWLY CONSTRUCTED RESIDENTIAL BUILDINGS. CGC SECTION 301.2.	BLDG23-2172
AND BATHTOBS. ARTMENTS WHERE THE BOTTOM AND DRAIN INLET. HEN THE GLAZING IS WITHIN 60" OF	1. STORM WATER DRAINAGE/RETENTION DURING CONSTRUCTION. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY ONE OF THE FOLLOWING: A. RETENTION BASINS. B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER APPROVED METHOD. CGC SECTION 4 106 2	
. PANE >9 SQUARE FEET. B. BOTTOM WALKING SURFACE WITHIN 36" OF INGS OR WITHIN 5' OF THE BOTTOM WITHIN 60" OF THE WALKING	2. GRADING AND PAVING. SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS (SWALES, WATER COLLECTION, FRENCH DRAINS, ETC.). CGC SECTION 4.106.3. EXCEPTION: ADDITIONS NOT ALTERING THE DRAINAGE PATH.	KIRK MOELLER ARCHITECTS, INC. 2888 LOKER AVE. EAST, STE 220
NFORM TO THIS SECTION.	3. INDOOR WATER USE. SHOW COMPLIANCE WITH THE FOLLOWING TABLE, PER CGC SECTION 4.303.1.           FIXTURE FLOW RATES           FIXTURE TYPE         MAXIMUM FLOW RATE           WATER CLOSETS         1.28 GALLONS/FLUSH	CARLSBAD, CA 92010 KIRK@KMARCHITECTSINC.COM 760-814-8128
EVIATION BETWEEN STEPS IS 3/8". HALL HAVE HANDRAILS ON BOTH GS SUCH THAT A 4" SPHERE CANNOT	SHOWERHEADS1.8 GPM @ 80 PSILAVATORY FAUCETS1.2 GPM @ 60 PSI1KITCHEN FAUCETS1.8 GPM @ 60 PSIMETERING FAUCETS0.25 GALLONS PER CYCLE1 LAVATORY FAUCETS SHALL NOT HAVE A FLOW RATE LESS THAN 0.8 GPM AT 20 PSI	ALL IDEAS, DESIGNS AND DIRECTION INDICATED WITHIN THESE DRAWINGS ARE THE PROPERTY OF KIRK MOELLER ARCHITECTS INC AND ARE
Ad Nosing. The hand grip shall ½" Between the handrail and	4. WHEN A SHOWER IS PROVIDED WITH MULTIPLE SHOWER HEADS, THE SUM OF FLOW TO ALL THE HEADS SHALL NOT EXCEED 1.8 GPM @ 80 PSI, OR THE SHOWER SHALL BE DESIGNED SO THAT ONLY ONE HEAD IS ON AT A TIME, CGC SECTION 4.303.1.3.2	INTENDED TO BE ASSOCIATED WITH THIS SPECIFIC PROJECT ONLY AND SHALL NOT OTHERWISE BE USED FOR ANY PURPOSE WHATSOFYER WITHOUT
TED LOAD OF 200 LBS. APPLIED IN LUSTERS AND PANEL FILLERS SHALL .BS., HORIZONTALLY APPLIED ON AN	5. LANDSCAPE IRRIGATION WATER USE SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS. CGC SECTION 4.304.1.	THE WRITTEN CONSENT OF THE KIRK MOELLER ARCHITECTS, INC. THERE SHALL BE NO CHANGES OR DEVIATIONS FROM THESE DRAWINGS OR ACCOMPANYING
GLAZED SIDES OF STAIRWAYS, GRADE OR THE FLOOR BELOW DRAILS SHALL HAVE INTERMEDIATE	<ol> <li>RECYCLING. A MINIMUM OF 65% OF CONSTRUCTION WASTE IS TO BE RECYCLED. CGC SECTION 4.408.1.</li> <li>RECYCLING. NOTE ON THE PLANS THAT THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN, PER CGC SECTION 4.408.2.</li> </ol>	WRITTEN CONSENT OF THE ARCHITECT.
THE OPENING. TED LOAD OF 200 LBS. APPLIED IN LUSTERS AND PANEL FILLERS SHALL RS. HORIZONTALLY APPLIED ON AN	8. OPERATION AND MAINTENANCE MANUAL. THE BUILDER IS TO PROVIDE AN OPERATION MANUAL (CONTAINING INFORMATION FOR MAINTAINING APPLIANCES, ETC.) FOR THE OWNER AT THE TIME OF FINAL INSPECTION. CGC SECTION 4.410.1.	ED ABO
	9. THE GAS FIREPLACE(S) SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. WOODSTOVE OR PELLET STOVES MUST BE US EPA PHASE II RATED APPLIANCES. CGC SECTION 4.503.1.	KIRK M. MOELLER No. C 33016
	10. POLLUTANT CONTROL. DORING CONSTRUCTION, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC SECTION 4.504.1.	RENEWAL DATE
	1ABLES 4.504.1, 4.504.2, 4.504.3 AND 4.504.5 FOR: ADHESIVES, PAINTS AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CGC SECTION 4.504.2.	
	SECTION 4.505.2.1. 13. INTERIOR MOISTURE CONTROL. THE MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% BEFORE IT IS ENCLOSED IN CONSTRUCTION. THE MOISTURE CONTENT NEEDS TO BE CERTIFIED BY ONE OF 3 METHODS SPECIFIED. BUILDING MATERIALS WITH VISIOLES SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN	Z
	CONSTRUCTION. THE MOISTURE CONTENT MUSIBLE SIGNS OF WATER DAMAGE SHOULD NOT BE USED IN CONSTRUCTION. THE MOISTURE CONTENT MUST BE DETERMINED BY THE CONTRACTOR BY ONE OF THE METHODS LISTED IN CGC SECTION 4.505.3.	
	14 INDOOR AIR QUALITY. BATHROOM FANS SHALL BE ENERGY STAR RATED, VENTED DIRECTLY TO THE OUTSIDE AND CONTROLLED BY A HUMIDISTAT. CGC 4.506.1. 15. PRIOR TO FINAL INSPECTION THE LICENSED CONTRACTOR, ARCHITECT OR ENGINEER IN RESPONSIBLE	
	CHARGE OF THE OVERALL CONSTRUCTION MUST PROVIDE TO THE BUILDING DEPARTMENT OFFICIAL WRITTEN VERIFICATION THAT ALL APPLICABLE PROVISIONS FROM THE GREEN BUILDING STANDARDS CODE HAVE BEEN IMPLEMENTED AS PART OF THE CONSTRUCTION. CGC 102.3.	AL
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		15 15 00
		Date:         11-2-2023           Project:         151 S MYERS ST - UNIT G
		File: A0.3 Revisions:
		CITY COMMENTS #1 - 01-26-24           CITY COMMENTS #2 - 08-20-24

Sheet Hue.
CALGREEN
NOTES















GENERAL NOTES		
<ol> <li>EMERGENCY ESCAPE AND RI SQUARE FEET. THE MINIMUN OPENINGS SHALL BE 5 SQUA</li> <li>EMERGENCY ESCAPE AND RI</li> </ol>	ESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 // NET CLEAR OPENING FOR EMERGENCY ESCAPE GRADE LEVEL .RE FEET. (CFC 1030.2) ESCUE OPENING SHALL HAVE THE BOTTOM OF THE CLEAR OPENING	BLDG23-2172
<ol> <li>NOT GREATER THAN 44 INCH</li> <li>EMERGENCY ESCAPE AND RI MINIMUM NET CLEAR OPENIN OPENING WIDTH DIMENSION THE RESULT OF NORMAL OPI</li> <li>PORTABLE FIRE EXTINGUISH SECTION 906.</li> <li>CONTRACTOR TO PROTECT A INCLUDING CARS AND TRUCK</li> <li>PENETRATIONS OF FIRE-RES REQUIRED IN CBC SECTION F</li> <li>WALL AND CEILING MATERIAN TABLE 803.11.</li> <li>ALL DIMENSIONS ARE TO THE FRAMING U.N.O.</li> <li>ALL WALL FINISHES TO BE LE</li> <li>EVERY DWELLING UNIT SHAL ROOM TEMPERATURE OF 68 FROM EXTERIOR WALLS IN AN</li> </ol>	IES MEASURED FROM THE FLOOR. (CFC 1030.3) ESCUE OPENINGS SHALL HAVE THE FOLLOWING DIMENSIONS: THE IG HEIGHT DIMENSION SHALL BE 24 INCHES. THE MIN NET CLEAR SHALL BE 20 INCHES. THE NET CLEAR OPENING DIMENSION SHALL BE ERATION OF THE OPENING. (CFC 1030.2) ERS WILL BE INSTALLED IN THE BUILDING IN ACCORDANCE WITH AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED KS. DISTIVE WALLS AND ROOF-CEILINGS SHALL BE PROTECTED AS R302.4. LS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN CBC E FACE OF CONCRETE FOUNDATION, GRIDLINE, OR FACE OF WALL EVEL 4 FINISH PER OWNER. L BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A DEGREES F AT A LOCATION 3 FEET ABOVE THE FLOOR AND 2 FEET LL HABITABLE ROOMS.	KIRK MOELLER ARCHITECTS, INE 2888 LOKER AVE. EAST, STE 220 CARLSBAD, CA 92010 KIRK@KMARCHITECTSINC.COM 760-814-8128 ALL IDEAS, DESIGNS AND DIRECTION INDICATED WITHIN THESE DRAWINGS ARE THE PROPERTY OF KIRK MOELLER ARCHITECTS, INC. AND ARE INTENDED TO BE ASSOCIATED WITH THIS SPECIFIC PROJECT ONLY AND SHALL NOT OTHERWISE BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE KIRK MOELLER ARCHITECTS, INC THERE SHALL BE NO CHANGES OR DEVIATIONS FROM THESE DRAWINGS OR ACCOMPANYING SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE KIRK MOELLER ARCHITECTS, INC
WALL LEGEND		
1	EXISTING EXTERIOR 2X4 WOOD FRAMED WALL WITH EXTERIOR FINISH TO REMAIN. PROTECT IN PLACE.	KIRK M. KOLLER * No.C.33016 2/28/25
2	EXISTING INTERIOR 2X4 WOOD FRAMED WALL TO REMAIN. PROTECT IN PLACE.	RENEWAL DATE
KEYNOTES         1       EXISTING WINDOWS TO REM         1       EXISTING DOORS TO REMAIN         2       EXISTING DOORS TO REMAIN         3       EXISTING SPIRAL STAIRCASE         4       NOT USED         5       42" HIGH GUARDRAIL, SEE DI         6       EXISTING BATHROOM FIXTUE         7       NOT USED         8       WATERPROOF DECK COATIN         9       WATERPROOF DECK COATIN         9       WATERPROOF DECK COATIN         9       WATERPROOF DECK COATIN	TAIN, SEE SHEET A2.3 FOR WINDOW WIDTH DIMENSIONS. ALL WINDOW N E TO REMAIN ETAIL $(4)$ RES TO REMAIN MG SYSTEM BY PL-1 DECK OR EQ. CLASS A, SLOPE TO FLOOR DRAIN TO	IST STATES ST - UNIT G DECK ADDITIO
		CITY COMMENTS #1 - 01-26-2 CITY COMMENTS #2 - 08-20-2



# EXISTING THIRD FLOOR PLAN - UNIT G SUNROOM





GENERAL NOTES	
<ol> <li>EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPENING FOR EMERGENCY ESCAPE GRADE LEVEL OPENINGS SHALL BE 5 SQUARE FEET. (CFC 1030.2)</li> <li>EMERGENCY ESCAPE AND RESCUE OPENING SHALL HAVE THE BOTTOM OF THE CLEAR OPENING</li> </ol>	BLDG23-2172
<ul> <li>NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. (CFC 1030.3)</li> <li>EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE THE FOLLOWING DIMENSIONS: THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES. THE MIN NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES. THE NET CLEAR OPENING DIMENSION SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING. (CFC 1030.2)</li> <li>PORTABLE FIRE EXTINGUISHERS WILL BE INSTALLED IN THE BUILDING IN ACCORDANCE WITH SECTION 906.</li> <li>CONTRACTOR TO PROTECT AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED INCLUDING CARS AND TRUCKS.</li> <li>PENETRATIONS OF FIRE-RESISTIVE WALLS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION R302.4.</li> <li>WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN CBC TABLE 803.11.</li> <li>ALL DIMENSIONS ARE TO THE FACE OF CONCRETE FOUNDATION, GRIDLINE, OR FACE OF WALL FRAMING U.N.O.</li> <li>ALL WALL FINISHES TO BE LEVEL 4 FINISH PER OWNER.</li> <li>EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 68 DEGREES F AT A LOCATION 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS.</li> </ul>	KIRK MOELLER ARCHITECTS, INC. 2888 LOKER AVE. EAST, STE 220 CARLSBAD, CA 92010 KIRK@KMARCHITECTSINC.COM 760-814-8128 ALL IDEAS, DESIGNS AND DIRECTION INDICATED WITHIN THESE DRAWINGS ARE THE PROPERTY OF KIRK MOELLER ARCHITECTS, INC. AND ARE INTENDED TO BE ASSOCIATED WITH THIS SPECIFIC PROJECT ONLY AND SHALL NOT OTHERWISE BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE KIRK MOELLER ARCHITECTS, INC. THERE SHALL BE NO CHANGES OR DEVIATIONS FROM THESE DRAWINGS OR ACCOMPANYING SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE KIRTEN CONSENT OF THE
WALL LEGEND	
1       EXISTING EXTERIOR 2X4 WOOD FRAMED WALL WITH EXTERIOR FINISH TO REMAIN. PROTECT IN PLACE.         2       EXISTING INTERIOR 2X4 WOOD FRAMED WALL TO REMAIN. PROTECT IN PLACE.	* RENEWAL DATE FILE * OF CALIFORN
KEYNOTES <ul> <li>EXISTING WINDOWS TO REMAIN, SEE SHEET A2.3 FOR WINDOW WIDTH DIMENSIONS. ALL WINDOW</li> <li>EXISTING DOORS TO REMAIN</li> <li>EXISTING DOORS TO REMAIN</li> <li>EXISTING SPIRAL STARCASE TO REMAIN</li> <li>INOT USED</li> <li>EXISTING BATHROOM FLATURES TO REMAIN</li> <li>EXISTING BATHROOM FLATURES TO REMAIN</li> <li>EXISTING BATHROOM FLATURES TO REMAIN</li> <li>INOT USED</li> <li>EXISTING BATHROOM FLATURES TO REMAIN</li> <li>MATERPROOF DECK COATING SYSTEM BY PL-1 DECK OR ED. CLASS A, SLOPE TO FLOOR DRAIN TO GUTTER SYSTEM</li> </ul>	OLIDAR ADDITO 151 S MYERS ST - UNIT 151 S MYERS ST - UNIT 152 ST - UNIT 152 ST - UNIT 152 ST - UNIT 153 ST - UNIT 15
	Sheet Title: EXISTING THIRD







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![](_page_7_Picture_2.jpeg)

## **ROOF NOTES**

- 1. ALL ROOF MATERIALS TO BE CLASS A FIRE RATED AND TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 2. CONTRACTOR TO VERIFY AND COORDINATE WITH ALL SUBCONTRACTORS, ALL LOCATIONS AND
- SIZES OF ROOF OPENINGS.
- 3. FOR TYP. ROOF PENETRATIONS, SEE DETAIL (11) MECHANICAL AND PLUMBING DRAWINGS
- 4. VERIFY THAT ALL ROOF AREAS HAVE POSITIVE DRAINAGE OF AT LEAST 1/4" / FT. PRIOR TO ROOF INSTALLATION
- 5. CONTRACTOR TO VERIFY ALL ROOF DRAIN DEPRESSIONS W/ "S" DRAWINGS.
- 6. REFER TO "S" DRAWINGS FOR ROOF FRAMING PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN IBC SECTION 714.
- 7. PROVIDE O'HAGEN LOW PROFILE COMPOSITE SHINGLE VENTS AS REQUIRED.
- ALL DIMENSIONS ARE TO THE FACE OF STUD OR GRIDLINE U.N.O.
   PROVIDE METAL FLASHING AT ALL ROOF VALLEYS AS REQUIRED.
- ATTIC VENTILATION OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT METAL MESH WITH 1/16" MINIMUM TO 1/4" MAXIMUM OPENINGS. SECTION R806.1

## ROOF PLAN LEGEND

\_\_\_\_ EXTERIOR WALL BELOW ROOF

DOWNSPOUT LOCATION

NOTE: RIDGE DIMENSIONS TO TOP OF FINISH ROOFING MATERIAL. TYPICAL ALL. NOTE: SEE SHEET AD.1 FOR TYPICAL ROOF DETAILS

KEYNOTES

![](_page_7_Picture_19.jpeg)

![](_page_7_Picture_20.jpeg)

![](_page_8_Figure_0.jpeg)

# NORTH ELEVATION

![](_page_8_Picture_2.jpeg)

# WEST ELEVATION

![](_page_8_Figure_4.jpeg)

# EAST ELEVATION

![](_page_8_Figure_6.jpeg)

# **SOUTH ELEVATION**

SCALE: 1/8" = 1'-0"

	2888 LOKER AVE. EAST, STE 220 CARLSBAD, CA 92010
	KIRK@KMARCHITECTSINC.COM 760-814-8128
	ALL IDEAS, DESIGNS AND DIRECTION INDICATED WITHIN THESE DRAWINGS ARE THE
	PROPERTY OF KIRK MOELLER ARCHITECTS, INC. AND ARE
	WITH THIS SPECIFIC PROJECT ONLY AND SHALL NOT
	PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE
	THERE SHALL BE NO CHANGES OR DEVIATIONS FROM THESE
	SPECIFICATIONS WITHOUT THE WRITTEN CONSENT OF THE
	ARCHITECT.
	ENSED ARCHITES
	* Noc.C-33016 * 2/25/25
GENERAL NOTES	RENEWAL DATE
1. T.O.P. = TOP OF PARAPET ELEVATION.	CALIT
<ol> <li>F.F.E. = FINISH FLOOR ELEVATION.</li> <li>ALL NOTES ARE TYPICAL.</li> </ol>	
4. ALL PAINT COLOR CHANGES TO OCCUR AT INSIDE CORNERS U.N.O.	
<ol> <li>ALL PAINT FINISHES ARE TO BE FLAT UNLESS NOTED OTHERWISE.</li> <li>BUILDING HEIGHT HAS BEEN ESTABLISHED BASED ON THE NEW PAD ELEVATION ESTABLISHED FOR</li> </ol>	
THE OCEANSIDE MUNICIPLE CODE.	IF
7. ALL SEISMIC STRAPS AND EXPOSED STRUCTURAL HARDWARE TO BE COVERED WITH SELF ADHERED FLASHING PRIOR TO THE APPLICATION OF WATER-RESISTIVE BARRIER	
8. FOR WALLS NOT SHOWN ON THESE ELEVATIONS, CONTINUE THE ADJACENT WALL FINISHES WHERE OBSCURED	
COLOR/ MATERIAL LEGEND	
	U U
	⊢
	15
	N N
COLOR/ MATERIAL SCHEDULE NOTE: ALL REFERENCES ARE TYPICAL	ST ST
	15 15 00
	Date: 11-2-20
	Project: 151 S MYERS ST - UNIT
	Revisions:
	CITY COMMENTS #1 - 01-26
	CITY COMMENTS #2 - 08-20-
(4) EXISTING FINISHES TO REMAIN	
(5) PROPOSED DECK ADDITION	
6 EXISTING UNIT G SUNROOM AREA TO REMAIN	
(7)     EXISTING GARAGE DOORS TO REMAIN	
8 EXISTING GATES TO REMAIN	Sheet Title:
	ELEVATIONS
	Sheet Number:

BLDG23-2172

![](_page_9_Picture_0.jpeg)

![](_page_9_Figure_1.jpeg)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Pujara JADU

Project Name Pujara JADU
Run Title Title 24 Analysis

**Zip code** 92054

Fuel Type Natural gas

Addition Cond. Floor Area (ft<sup>2</sup>) 0

01 Building Complies with Computer Performance

03 Building does not incorporate Special Features

Existing Cond. Floor Area (ft<sup>2</sup>) <sup>386</sup>

Total Cond. Floor Area (ft<sup>2</sup>) <sup>386</sup>

ADU Bedroom Count 1

Project Location 151 S. Myers Street, Unit G1

Climate Zone 7

 Building Type
 Single family

 Project Scope
 Addition and/or Alteration

 City
 Oceanside
 05

 Žip code
 92054
 07

Calculation Description: Title 24 Analysis

GENERAL INFORMATION

01 02

03

04

06

08

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12 14

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22

COMPLIANCE RESULTS

Calculation Date/Time: 2023-10-20T10:50:44-07:00 Input File Name: 2310-22-0559 Pujara JADU.ribd22x

Standards Version 2022

Front Orientation (deg/ Cardinal) 325

Fenestration Average U-factor

Number of Dwelling Units

Number of Bedrooms

ADU Conditioned Floor Area 386

Number of Stories 1

Glazing Percentage (%) 79.02%

Occupancy U: No

Software Version EnergyPro 9.2

CF1R-PRF-01E (Page 1 of 9)

Calculation Description	n: Title 24 Analysis		Input File Name: 2310-22-0559 Pujara JADU.ribd22x			
ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0	14.42	0	14.42	0	0
Space Cooling	0	85.68	0	85.68	0	0
IAQ Ventilation	0	5.71	0	5.71	0	0
Water Heating	0	145.25	0	145.25	0	0
Self Utilization/Flexibility Credit						
Efficiency Compliance Total	0	251.06	0	251.06	0	0
Photovoltaics		0		0		
Battery				0		
Flexibility						
Indoor Lighting	0	13.92	0	13.92		
Appl. & Cooking	0	116.82	0	116.82		
Plug Loads	0	98.53	0	98.53		
Outdoor Lighting	0	2.29	0	2.29		
TOTAL COMPLIANCE	0	482.62	0	482.62		

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CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-10-20 10:50:57

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02 This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.

	CF1R-PRF-01E
Calculation Date/Time: 2023-10-20T10:50:44-07:00	(Page 4 of 9
Input File Name: 2310-22-0559 Pujara JADU.ribd22x	
	Calculation Date/Time: 2023-10-20T10:50:44-07:00 Input File Name: 2310-22-0559 Pujara JADU.ribd22x

OPAQUE SUR	FACES																	
01	02	2		03	04		05		06		07	08		09	)	:	10	11
Name	Zor	ne	Co	Construction		th O	Orientation		Gross Area (ft <sup>2</sup> )		Window and Door Area (ft2)	Tilt (de	eg)	Wall Exceptions		Sta	atus	Verified Existing Condition
(E) 325 Wa	II Convers	sion to Brd Fl	Defa	ult Wall Prio 1978-	r 325		Front		186.8		0	90		non	ne	Exi	sting	No
(E) 55 Wal	I Convers	sion to Brd Fl	Defa	ult Wall Prior 1978-	r 55		Left		190.6		107.1	90		non	ie	Exi	sting	No
(E) 145 Wa	II Convers	sion to Brd Fl	Defa	ult Wall Prior 1978-	r 145		Back	У	166		81	90		non	ie	Exi	sting	No
(E) 235 Wa	II Convers	sion to Brd Fl	Defa	ult Wall Prior 1978-	r 235		Right	1	190.6		116.9	90		non	ie	Exi	sting	No
Interior Floo	or JADU 3	sion to Brd Fl	Defa	ult Wall Prior 1978-1	r n/a		n/a		386		0	n/a				Exi	sting	No
								_	_	_								
OPAQUE SUR	FACES - CATH	EDRAL C	EILINGS						_	-								
01	02	C	)3	04	05	0	6	07		08	09	10	11		12	1	3	14
Name	Zone	Const	ruction	Azimuth	Orientatio	n Ar (ft	ea . <sup>2</sup> ) <i>A</i>	Skyligh Area (ft	nt Root <sup>,2</sup> ) in	f Rise ( n 12)	x Roof Reflectance	Roof Emittance	Coo Roo	ol s of s	Status	Veri Exis Cond	fied ting lition	Existing Construction
(E) Roof No Attic	Conversion to JADU 3rd Fl	Defau Prior :	lt Roof 1978 N	0	n/a	38	36	0		1	0.1	0.85	No	D E	xisting	N	lo	
FENESTRATIO	N / GLAZING	-																
01	02	0	3	04	05	06	07	08	09	1	0 11	12		13	1	4	15	16
Name	Туре	Surf	ace	Orientatio n	Azimuth	Width (ft)	Heigh t (ft)	Mult.	Area (ft <sup>2</sup> )	U-fa	ctor U-factor Source	SHGC	SHGC	C Source	Exte Shao	rior ding	Status	Verified Existing Condition
(E) Door	Window	(E) 55	Wall	Left	55			1	21.1	0.5	55 Table 110.6-A	0.67	т 11	able 0.6-B	Bug S	creen	Existin	g No

 

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	F COMPLIANC	CE - RESIDI	ENTIAL PERF	ORMAN	ICE C	OMPLIANO		HOD									CF1R-PRF-01E
Project Name:	Pujara JADU							Ca	lculatio	on Date	e/Time: 202	3-10-20T	10:50:44-0	7:00			(Page 7 of 9)
Calculation Des	scription: Title	e 24 Analy	sis					Inj	out File	Name	: 2310-22-0	559 Pujar	a JADU.rib	d22x			
WATER HEATING	i - HERS VERIFI	CATION															
01		02			03	3		04			05			06			07
Name		Pipe Insu	ulation	Parallel Piping				Compact Distribution			Compact Distribution Type Recircula			lation Contro	l Shov	Shower Drain Water He Recovery	
DHW Sys 1	- 1/1	Not Rec	luired	d Not Required				Not Required			None		Not	Required		Not	Required
PACE CONDITIC	ONING SYSTEM	s		_													
01	02	03		04		05	06	5	07		08	0	Э	10	11		12
Name	System Type	Heating Name	Unit Equi e Co	ating pment ount	Coc	oling Unit Name	Cool Equip Cou	ing ment Int	Fan Nar	ne	Distribution Name	Requ Therm Typ	ired Iostat De	Status	Verifie Existin Conditi	ed 1g ion	Existing HVAC System
New HVAC1	Heat pump heating cooling	Heat Pu System	mp 1	1	He Sy	at Pump /stem 1	1		n/a		n/a	Setb	ack	New	No		
IVAC - HEAT PU	MPS							>		-		_					
01	0	2	03	04		05	06	07		08	09	10	11	12			13
						Heatir	ng				Cooling						
Name	System	n Type	Number of Units	Efficie Typ	ency e	HSPF / HSPF2 / COP	Cap 47	Cap 17	Effi 1	ciency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compress I Type	sor H	HERS Verification	
Heat Pump System 1	Ductless H	MiniSplit P	1	HSP	F2	9	12000	7500	EER	2SEER2	18	13	Not Zonal	Single Speed	н	Heat Pump System 1-hers-htpump	
IVAC HEAT PUN	1PS - HERS VER	IFICATION															
01		02	03			04		05			06		07	0	8		09
Name	Verified	l Airflow	Airflow 1	arget	Ver	ified EER/EE	:R2	Verified SEER/SEER2		Verifie	d Refrigerant Charge	V HSP	Verified HSPF/HSPF2		Heating Verified Heating 47 Cap 17		ified Heating Cap 17
Heat Pump Syst 1-hers-htpum	em p Not Re	equired	0		Ν	lot Requirec	1	Not Requi	red		No		No	Ye	Yes		Yes

 

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 Schema Version: rev 20220901

### E OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Pujara JADU

Calculation Date/Time: 2023-10-20T10:50:44-07:00

CF1R-PRF-01E (Page 2 of 9)

Registration Number: 423-P010191241A-000-00000000-0000 Registration Date/Time: 10/21/2023 04:20
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CERTIFICATE ( Project Name	<b>OF COMPLI</b> : Pujara JAI	ANCE - RESIDE	NTIAL PER	FORMANC	E COMF	PLIANCE	E METH	OD C	alculat	ion Date/Tir	<b>ne:</b> 2023-10-	20T10:50:44-	07:00		CF1R-PRF-03 (Page 5 of
Calculation D	escription:	Title 24 Analys	sis					I	nput Fil	e Name: 23	10-22-0559 P	ujara JADU.ri	bd22x		
FENESTRATION	I / GLAZING											1			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Туре	Surface	Orientatio n	Azimuth	Width (ft)	Heigh t (ft)	Mult.	Area (ft <sup>2</sup> )	U-fact	or U-facto Source	shgc	SHGC Source	Exterior Shading	Status	Verified Existing Condition
(E) Window	Window	(E) 55 Wall	Left	55			1	66	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 2	Window	(E) 55 Wall	Left	55			1	20	0.55	Table 110.6-/	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 3	Window	(E) 145 Wall	Back	145			1	81	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Door 2	Window	(E) 235 Wall	Right	235			1	21.1	0.55	Table 110.6-4	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 4	Window	(E) 235 Wall	Right	nt 235			1	72.2	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 5	Window	(E) 235 Wall	Right	235	7		1	23.6	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
OPAQUE SURF	ACE CONSTR	UCTIONS					_	_	_						
01		02		03		_	04	_	-	05	06	07		08	
Constructio	n Name	Surface Ty	pe Co	onstruction <sup>-</sup>	Туре		Frami	ng		Total Cavity R-value	Interior / Ext Continuo R-value	us U-facto	or A	Assembly Lay	/ers
Default Wall P	rior 1978-	Exterior Wa	ills W	ood Framed	Wall	2x	4 @ 16 i	n. O. C.		R-0	None / No	ne 0.361	Inside Cavity / Exterio	Finish: Gypsı ' Frame: no iı r Finish: 3 Cc	um Board nsul. / 2x4 pat Stucco
Default Roof F N	Default Roof Prior 1978 N Cathedral Ceilings Ceiling		ed	2x4 @ 16 in. O. C.				R-11	None / No	ne 0.088	Roofing: Li R Sidin Cavity Inside	Roofing: Light Roof (Asphalt Sh Roof Deck: Wood Siding/sheathing/deckin Cavity / Frame: R-11 / 2x- Inside Finish: Gypsum Boa			

Registration Number: 423-P010191241A-000-000-000000-0000 Registration Date/Time: 10/21/2023 04:20 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document. Report Generated: 2023-10-20 10:50:57 Report Version: 2022.0.000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

CERTIFICATE OF CO	OMPLIANCE - RESIDE	ENTIAL PERFO	RMANCE COMPLIANCE	METHOD					CF1R-PRF-01E
Project Name: Puja	ara JADU			Calculat	ion Date/Time: 2023	8-10-20T	10:50:44-07	2:00	(Page 8 of 9)
Calculation Descri	otion: Title 24 Analy	sis		Input Fil	<b>e Name:</b> 2310-22-05	59 Pujar	a JADU.ribo	22x	
INDOOR AIR QUALIT	Y (IAQ) FANS								
01	02	03	04	05	06		07	08	09
Dwelling Unit	Airflow (CFM)	Fan Effica (W/CFN	ICY I) IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?		HERS Verifica	ition Status
SFam ADU IAQVentRpt	27	0.35	Exhaust	No	n/a / n/a		No	Yes	
HERS RATER VERIFIC	CATION OF EXISTING ( 'Y (IAQ) FANS - VERIFII	CONDITIONS	ED						
01	02		03	04	05			06	07
Name	Airflow	(CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/I Recovery	Energy ?	IAQ I Effectiver Recovery	Recovery ness - SREIAQ Effectiveness - SRE	IAQ Recovery Effectiveness - ASREIAQ Recovery Effectiveness - ASRE
Dwelling Unit 1/	/0 27		0.35	Exhaust	No			n/a	n/a
	<u> </u>				R	5	I	.,,	.,,u

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Pujara JADU Calculation Description: Title 24 Analysis

ENERGY USE INTENSITY							
	Standard De	esign (kB	tu/ft <sup>2</sup> - yr ) Pr	oposed Design (kBtu/ft <sup>2</sup> - yr	) Compliance Margin	(kBtu/ft <sup>2</sup> - yr )	Margin Percentage
Gross EUI <sup>1</sup>	l <sup>1</sup> 92.12			92.12	0		0
Net EUI <sup>2</sup>		92.12		92.12	0		0
Notes 1. Gross EUI is Energy Us 2. Net EUI is Energy Use	e Total (not including PV) / Total (including PV) / Total	Total Bui Building /	lding Area. Area.				
REQUIRED SPECIAL FEATUR	ES						
The following are features t	hat must be installed as co	ndition fo	or meeting the model	ed energy performance for th	nis computer analysis.		
NO SPECIAL FEATURE	S REQUIRED						
HERS FEATURE SUMMARY							
The following is a summary detail is provided in the buil	of the features that must b ding tables below. Register	e field-ve ed CF2Rs	erified by a certified H and CF3Rs are requi	IERS Rater as a condition for red to be completed in the HI	meeting the modeled ener ERS Registry	gy performance for this com	puter analysis. Additional
<ul> <li>Indoor air quality ver</li> <li>Kitchen range hood</li> <li>Verified heat pump ratio</li> </ul>	tilation ated heating capacity						
BUILDING - FEATURES INFO	RMATION						
01	02		03	04	05	06	07
Project Name	Conditioned Floor A	rea (ft <sup>2</sup> )	Number of Dwelli Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Pujara JADU	386		1	1	1	0	1
	,						
ZONE INFORMATION		-					
01	1 02 03 04 05 06 0				07		
Zone Name	Zone Type	HV/	AC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Status
Conversion to JADU 3rd Fl	Conversion to JADU 3rd Fl Conditioned New HVAC1			386	8.5	DHW Sys 1	Existing

 

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CERTIFICAT	E OF CO	MPLIANCE	E - RESID	ENTIAL	PERFORMAN		ANCE METH	IOD						CI	1R-PRF-01E
Project Na	<b>ne:</b> Pujar	a JADU						Calcu	lation Date	e <b>/Time:</b> 202	3-10-20T10	:50:44-07:0	0		Page 6 of 9)
Calculation	Descript	<b>ion:</b> Title	24 Analy	rsis				Input	File Name	: 2310-22-0	559 Pujara .	IADU.ribd22	x		
OPAQUE SU	RFACE CO	NSTRUCTIO	ONS												
	01		02		03		04		05		06	07		08	
Construc	tion Name	e S	Surface Ty	pe	Construction	Туре	Fram	ing	Total Car R-valu	uvity Je Interior / Exterior Continuous R-value		U-factor	Asse	sembly Layers	
Default 19	Wall Prior 78-1	I	nterior W	alls	Wood Frame	d Wall	2x4 @ 16	in. O. C.	R-0	Non	e / None	0.277	Inside Fini Cavity / Fra Other Side F	sh: Gypsum ime: no insu inish: Gypsu	Board II. / 2x4 m Board
BUILDING E	NVELOPE	- HERS VER	RIFICATIO	N											
	01				02			03			04			05	
Quality Ins	ulation In	stallation (	(QII) H	igh R-va	lue Spray Foam	Insulation	Building	Envelope Air	Leakage		CFM50			CFM50	
	Not Requi	red			Not Required			N/A			n/a			n/a	
WATER HEA	TING SYST	EMS			_										
01		02	03		04	05	06	0	7	08	09	10	) 1	1	12
Name	Syst	em Type	Distrib Typ	ution e	Water Heater Name	Number of Units	Solar Heat System	ing Com Distrik	pact oution V	HERS /erification	Water Heat Name (#)	ter Stat	us Exis	ified Ex sting dition	kisting Water Heating System
DHW Sys :	1 Dom Wate	estic Hot er (DHW)	Stanc	ard	DHW Heater 1	1	n/a	No	ne	n/a	DHW Heat 1 (1)	er Exist	ing N	10	
	IERS											1			1
01	02		03	04	05	06	07	08	09	10	11	12	13	14	15
Name	Heating Element Type	t Tan	k Type	# of Unit	Tank Vol. s (gal)	Heating Efficiency Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	Tank Location	Status	Verified Existing Condition
DHW Heater 1	Gas	Com	mercial orage	1	120	TE	0.8	Btu/Hr	80000	0	0.002500	n/a		Existing	No

Registration Number: 423-P010191241A-000-000-000000-00000 Registration Date/Time: 10/21/2023 04:20 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document. Report Version: 2022.0.000 Report Generated: 2023-10-20 10:50:57 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL	PERFORMANCE COMPLIANCE M
Project Name: Pujara JADU	

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD	CF1R-PRF-01E						
Project Name: Pujara JADU	Calculation Date/Time: 2023-10-20T10:50:44-07:00 (Page 9 of 9)						
Calculation Description: Title 24 Analysis	Input File Name: 2310-22-0559 Pujara JADU.ribd22x						
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT							
1. I certify that this Certificate of Compliance documentation is accurate and complete.							
Documentation Author Name: Kenneth Ponce	Documentation Author Signature: Kenneth Ponce						
Company: So Cal Title 24	Signature Date: 10/20/2023						
Address: 8659 Red Oak Street, Suite I	CEA/ HERS Certification Identification (If applicable):						
City/State/Zip: Rancho Cucamonga, CA 91730	Phone: 909-257-7547						
RESPONSIBLE PERSON'S DECLARATION STATEMENT							
<ol> <li>I certify the following under penalty of perjury, under the laws of the State of California:         <ol> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the</li> <li>I certify that the energy features and performance specifications identified on this Certificate of C</li> <li>The building design features or system design features identified on this Certificate of Compliance calculations, plans and specifications submitted to the enforcement agency for approval with this</li> </ol> </li> </ol>	e building design identified on this Certificate of Compliance. Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. Le are consistent with the information provided on other applicable compliance documents, worksheets, building permit application.						
Responsible Designer Name: Kirk Moeller	Responsible Designer Signature: Kírk Moeller						
Company: Kirk Moeller Architects, Inc.	Date Signed: 10/21/2023						
Address: 2888 Loker Avenue East, Suite 220	License:						
City/State/Zip: Carlsbad, CA 92010	Phone: (760) 803-8006						

Registration Number: 423-P010191241A-000-000-0000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (Ci and cannot guarantee, the accuracy or completeness of the information contained in this document. CA Building Energy Efficiency Standards - 2022 Residential Compliance

Calculation Date/Time: 2023-10-20T10:50:44-07:00 Input File Name: 2310-22-0559 Pujara JADU.ribd22x CF1R-PRF-01E (Page 3 of 9)

Registration Date/Time: 10/21/2023 04:20 HERS Provider: CHEERS (EERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, Report Version: 2022.0.000 Report Generated: 2023-10-20 10:50:57 Schema Version: rev 20220901

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	Southern California Title 24 SoCalTitle24.com 8659 Red Oak St. Stel Rancho Cucamonga, CA 91730 Phone: (909) 257-7547 Email: Rob@SoCalTitle24.com	
	Revisions Date 10/23/2023 Project Name: PUJARA JADU	
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### 2022 Single-Family Residential Mandatory Requirements Summary

ENERGY COMMISSION	
<u>NOTE:</u> Single-famil used. Review the re	y residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach espective section for more information.
(04/2022)	
§ 110.6(a)1:	: Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NERC-400, ASTM E283, or AAMA/WDMA/CSA 401/LS 2/A/40-2041 *
§ 110 6(a)5	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	<b>Tield fabricated exterior doors and fenestration</b> products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A. 110.6-B. or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.
§ 110.7:	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B.*
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
Fireplaces, Decora	tive Gas Appliances, and Gas Log:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *
Space Conditionin	g, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a
§ 110.2(c):	setback thermostat. *
§ 110.3(c)3:	Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
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5/6/22

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2022 Single-Family Residential Mandatory Requirements Summary

ENERGY COMMISSION	
§ 150.0(s)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, <u>or</u> a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u)	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

\*Exceptions may apply.

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5/6/22

5/6/22

ection with pilot lights that consume less than 150 Btu per hour ); and pool and
ing loads are calculated in accordance with the ASHRAE Handbook, s Volume; the SMACNA Residential Comfort System Installation ditions specified in § 150.0(h)2.
sing units must have a clearance of at least five feet from the outlet of any
must be equipped with liquid line filter driers if required, as specified by the
d Space Conditioning System Line Insulation. All domestic hot water fornia Plumbing Code. *
from damage, including that due to sunlight, moisture, equipment` exposed to weather must be water retardant and protected from UV light (no d refrigerant suction piping located outside the conditioned space must der. Pipe insulation buried below grade must be installed in a waterproof and
gas or propane water heaters to serve individual dwelling units must ure installation of a heat pump water heater, and meet electrical and designated space and the water heater location; and a condensate drain no
ms and collectors must be certified and rated by the Solar Rating and tion of Plumbing and Mechanical Officials, Research and Testing (IAPMO /e director.
g duct must comply with § 604.0 of the California Mechanical Code (CMC). If a to the customer, in writing, that the insulation meets this requirement.
hums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Portions of supply-air and return-air ducts and plenums must be insulated to as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) ner core of flexible ducts must be mechanically fastened. Openings must be neets the applicable UL requirements, or aerosol sealant that meets UL 723. used to seal openings greater than ¼", If mastic or tape is used. Building ad or constructed with materials other than sealed sheet metal, duct board or ilding cavities and support platforms may contain ducts; ducts installed in
t systems must comply with applicable requirements for duct construction, s and their components must not be sealed with cloth back rubber adhesive stic and draw bands.
ems must comply with applicable requirements for: pressure-sensitive tapes, construction.
n the conditioned space and outdoors must have backdraft or automatic
serving conditioned space must have either automatic or readily accessible, except combustion inlet and outlet air openings and elevator shaft vents.
a damage due tosunlight, moisture, equipment maintenance, and wind. service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic or painted with a water retardant and solar radiation-resistant coating.
ucts must have a non-porous layer or air barrier between the inner core and
iditioning systems use forced air duct systems to supply conditioned air to an ge tested, as confirmed through field verification and diagnostic testing, in
eding 10 feet and the supply side of ventilation systems must have MERV 13 nust have a two inch depth or can be one inch if sized per Equation 150.0-A. rements in §150.0(m)12. Filters must be accessible for regular service. Filter to close gaps around the inserted filters to and prevents air from bypassing the

### 2022 Single-Family Residential Mandatory Requirements Summary

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Reference Residential Appendix RA3.3. \*

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must § 150.0(m)13: be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with

Ventilation and Ir	idoor Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole- dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G
Pool and Spa Sys	stems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, o dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.
Lighting:	
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable
§ 110.9:	requirements of § 110.9. *
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and line closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. $^{\star}$
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).

5/6/22

![](_page_11_Picture_18.jpeg)

5/6/22

linen closet is closed.

on and off. \*

in § 150.0(k)2A.

§ 150.0(k)1G:

§ 150.0(k)1I:

§ 150.0(k)2A:

## 2022 Single-Family Residential Mandatory Requirements Summary

Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 § 150.0(k)1H: elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires. Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or § 150.0(k)2A: Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A. § 150.0(k)2B: Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed

§ 150.0(k)2B: to comply with § 150.0(k). § 150.0(k)2C: Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9. Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire § 150.0(k)2E: must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with sources in these spaces must comply with NEMA SSL 7A.
 sources in these spaces must comply with NEMA SSL 7A. § 150.0(k)2K: Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting. Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to

§ 150.0(k)3A: other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements. Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the § 110.10(a)1: application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e). Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 \$110.10(b)1A: square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. \* § 110.10(b)2: Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.

Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the § 110.10(b)3B: horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the

Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents. Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a § 110.10(c): pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system. Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be

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

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