# 2019 CALIFORNIA GREEN BUILDING CODE -MANDATORY MEASURES-

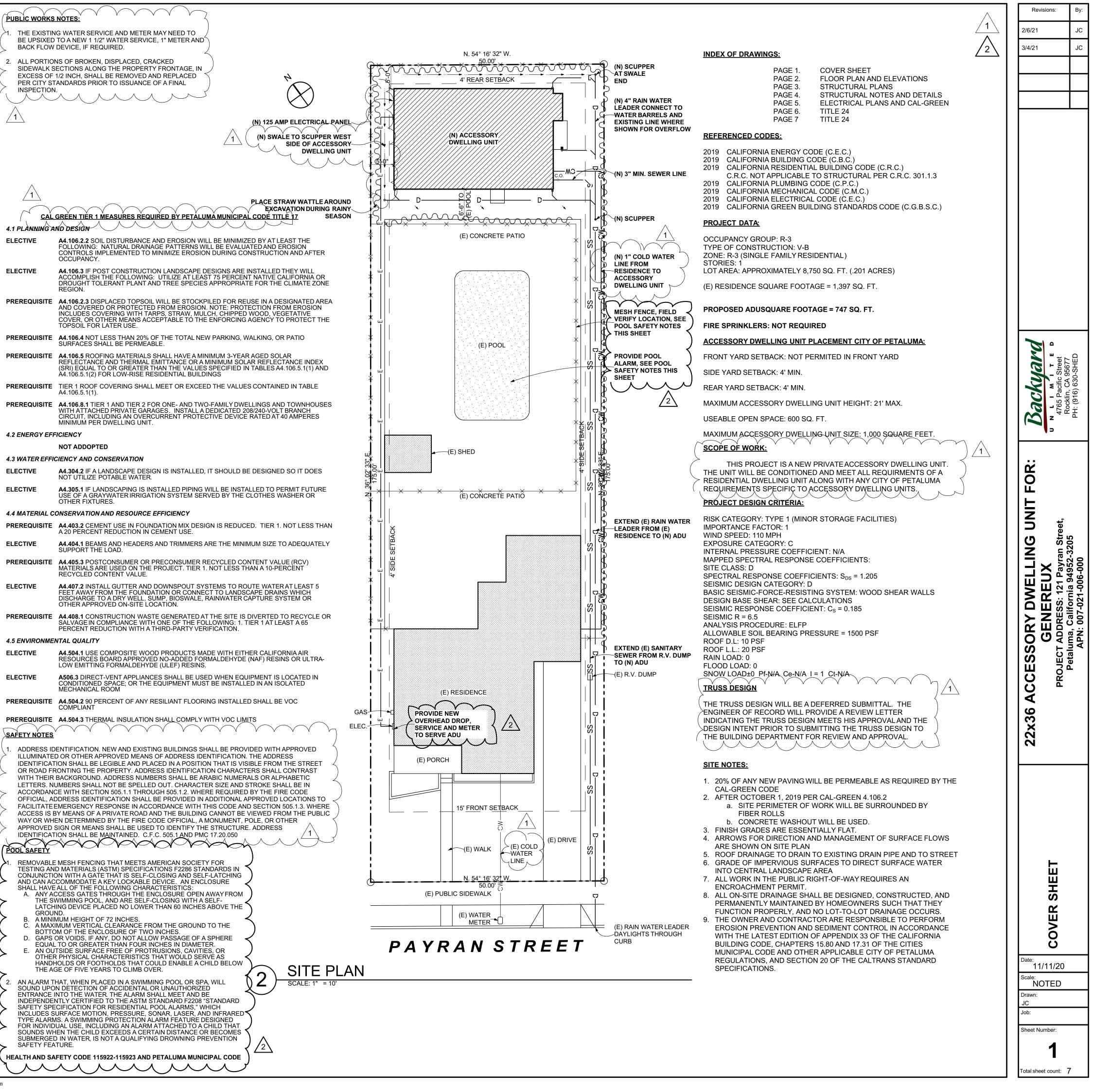
## 4.1 SITE DEVELOPMENT

- 1. PROJECT DISTURBS LESS THAN ONE ACRE OF SOIL AND IS NOT PART OF A LARGER DEVELOPMENT WHICH DISTURBS MORE THAN ONE ACRE OF SOIL. SEE EROSION AND DUST CONTROL NOTES FOR INFORMATION REGARDING SITE RUNOFF DURING CONSTRUCTION. RUNOFF WILL BE CONTROLLED PER LOCAL STORM WATER ORDINANCES WHERE THEY EXIST. C.G.C. 4.106.2
- 2. SITE HAS BEEN PLANNED TO PREVENT THE ENTRANCE OF STORM WATER INTO THE BUILDING PER C.G.C. 4.106.3
- 4.2 ENERGY EFFICIENCY
- 1. PROJECT AT MINIMUM COMPLIES WITH CALIFORNIA ENERGY STANDARDS. C.G.C. 4.201.1
- 4.3 WATER EFFICIENCY AND CONSERVATION
- 1. PLUMBING FIXTURES SHALL MEET THE FOLLOWING FLOW RATES PER C.G.C. 4.303:
  - A. 2.0 GALLONS MAXIMUM PER MINUTE FOR NEW SINGLE SHOWER HEADS AT 80 PSI
  - B. 2.0 GALLONS MAXIMUM PER MINUTE COMBINED FLOW RATE FOR NEW MULTIPLE SHOWER HEADS AND/OR OTHER OUTLETS CONTROLLED BY ONE VALVE AT 80 PSI
  - C. 1.2 GALLONS MAXIMUM PER MINUTE FOR NEW LAVATORY FAUCETS AT 60 PSI AND 0.8 GALLONS PER MINUTE MINIMUM AT 20 PSI
  - D. 1.8 GALLONS MAXIMUM PER MINUTE FOR NEW KITCHEN FAUCETS (EXCEPT FOR TEMPORARY FLOW RATES UP TO 2.2 GPM MAX @ 60 PSI)
- 1.28 GALLONS MAXIMUM PER FLUSH FOR NEW TOILETS C.G.C. 4.303 RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) WHICHEVER IS MORE STRINGENT. C.G.C. 4.304.1 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS, OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE **ELECTIVE** ENFORCING AGENCY. C.G.C. 4.406.1 2. A MINIMUM OF 65% OF THE NON-HAZARDOUS CONSTRUCTION WASTE GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE PER C.G.C. 4.408.1 3. A CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL THAT AT MINIMUM ELECTIVE IDENTIFIES THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE. B. SPECIFIES IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE OR BULK MIXED C. IDENTIFIES THE DIVERSION FACILITY WHERE THE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN. D. IDENTIFIES CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF THE CONSTRUCTION AND DEMOLITION WASTE GENERATED SPECIFIES THAT THE AMOUNT OF THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BOTH. C.G.C. 4.408.2 4. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISK, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING BY THE CONTRACTOR. 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 EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
  - ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS. LANDSCAPE IRRIGATION SYSTEMS. WATER REUSE SYSTEMS.
     C. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
  - D. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
     E. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60% AND WHAT METHODS ON OCCUPANT MAX USE TO MAINTAIN THE DELATIVE HUMIDITY I EVEL IN THAT BANGE
  - MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE. F. INFORMATION ABOUT WATER CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
  - G. INSTRUCTION FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
  - H. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
  - I. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
  - J. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE. C.G.C. 4.410.1
- 4.5 ENVIRONMENTAL QUALITY

C.G.C. 4.507.2

- ANY INSTALLED GAS FIREPLACES SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. THEY SHALL ALSO COMPLY WITH ALL LOCAL ORDINANCES. C.G.C. 4.503.1
- 2. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE, AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST, AND DEBRIS WHICH MAY ENTER THE SYSTEM. C.G.C. 4.504.1
- ADHESIVES, SEALANTS, CAULKS AND OTHER TOXIC COMPOUNDS SHALL MEET VOC LIMITS OF C.G.C. TABLE 4.504.1 OR TABLE 4.504.2. C.G.C. 4.504.2.1
   PAINTS, STAINS AND OTHER COATINGS SHALL BE COMPLIANT WITH VOC LIMITS OF C.G.C. TABLE 4.504.3. C.G.C. 4.504.2.2
- 5. AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCT-WEIGHTED MIR LIMITS FOR ROC AND OTHER TOXIC COMPOUNDS IN COMPLIANCE
- WITH CALIFORNIA CODE OF REGULATIONS, TITLE 17. C.G.C. 4.504.2.3 ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:
- A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM
- B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH "STANDARD PRACTICE FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMCAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS" VERSION 1.1, FEBRUARY 2010
- C. NSF/ANSI 140 AT THE GOLD LEVEL
- D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD C.G.C. 4.504.3.
- 7. ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL
- PROGRAM. C.G.C. 4.504.3.1
  8. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF C.G.C. TABLE 4.504.1. C.G.C. 4.504.3.2
- WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING.
  - A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH "STANDARD PRACTICE FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMCAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS" VERSION 1.1, FEBRUARY 2010, CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS HIGH PERFORMANCE PRODUCTS DATABASE.
  - B. PRODUCTS CERTIFIED UNDER UL GREENGAURD GOLD
  - C. CERTIFCATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE FLOORSCORE PROGRAM.
  - D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD PRACTICE FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMCAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS" VERSION 1.1, FEBRUARY 2010 C.G.C. 4.504.4
- 10. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF TH BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS SHOWN IN C.G.C. TABLE 4.504.5. C.G.C. 4.504.5
- 11. A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:
  - A. A 4-INCH THICK BASE OF 1/2" OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
  - B. OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.C. A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.
- C.G.C. 4.505.2.1
   12. 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:
  - A. 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 C.G.C. 101.8. B. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
  - C. 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.
    C.G.C. 4.505.3
- 13. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND COMPLY WITH THE FOLLOWING:
  - A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
  - B. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL. HUMITIDY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT, AND MAY BE A SEPARATE COMPONENT TO THE EXHASUT FAN (IT IS NOT REQUIRED TO BE INTEGRAL/BUILT IN).
    C.G.C. 4.506.1
- 14. HEATING AND AIR CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED, AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS: A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J-2016, ASHRAE HANDBOOKS OR OTHER EQUIVALENT
  - DESIGN SOFTWARE OR METHODS. B. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1-MANUAL D 2016, ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR
  - C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3- MANUAL S 2014.

1 COVER SHEET : Plotted on 3/4/2021 at 5:53 PM by Jeron. File Path: C:\Users\Jeron\Documents\Current Archicad Projects\2020\Backyard Unlimited\Genereux - Petaluma 9-12-20\Genereux - Petaluma 11-11-20.pln



## **FLOOR PLAN NOTES**

1. ALL GLAZING SHALL MEET THE REQUIREMENTS OF C.R.C. 308. SAFETY GLAZING SHALL BE PROVIDED IN ALL OF THE FOLLOWING LOCATIONS:

GLAZING IN DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION EXCEPT GLAZING PANELS THROUGH WITH A 3 INCH DIAMETER SHPERE IS UNABLE TO PASS AND DECORATIVE GLAZING.

GLAZING IN WALLS, ENCLOSURES, OR FENCES FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION. THIS SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE GLAZING.

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANELADJACENT TO A DOOR WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACE AND WHERE THE GLAZING IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION OR WHERE THE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF AN IN-SWINGING DOOR.

GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED A HAZARDOUS LOCATION.

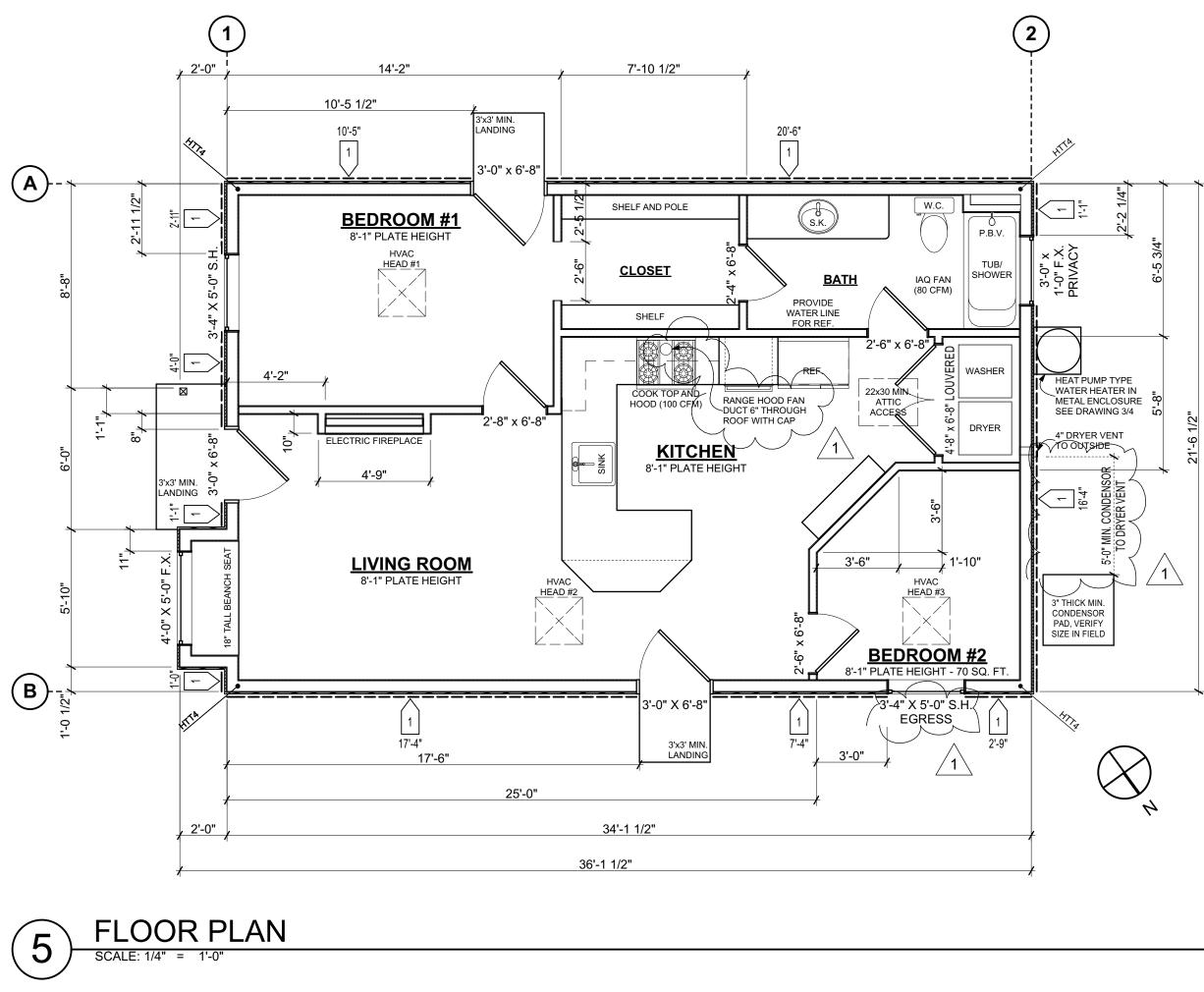
- 2. CAULK ALL DOORS, WINDOWS, JOINTS AND AREAS REQUIRED TO PROVIDE A WEATHERPROOF SEAL.
- 3. DRYWALL NAILING SHALL BE IN ACCORDANCE WITH C.B.C. REQUIREMENTS FOR THE TYPES AND THICKNESSES BEING USED UNLESS OTHERWISE NOTED.
- 4. NO WATER CLOSET OR BIDET SHALL BE SET CLOSER THAN 15 INCHES FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION OR CLOSER THAN 30" CENTER TO CENTER TO A SMILAR FIXTURE. THE CLEAR SPACE IN FRONT OF A WATER CLOSET, LAVATORY, OR BIDET SHALL BE NOT LESS THAN 24 INCHES. C.P.C. 402.5
- 5. BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR. C.R.C. 307.2

6. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH C.R.C. 312.2.1-312.2.2

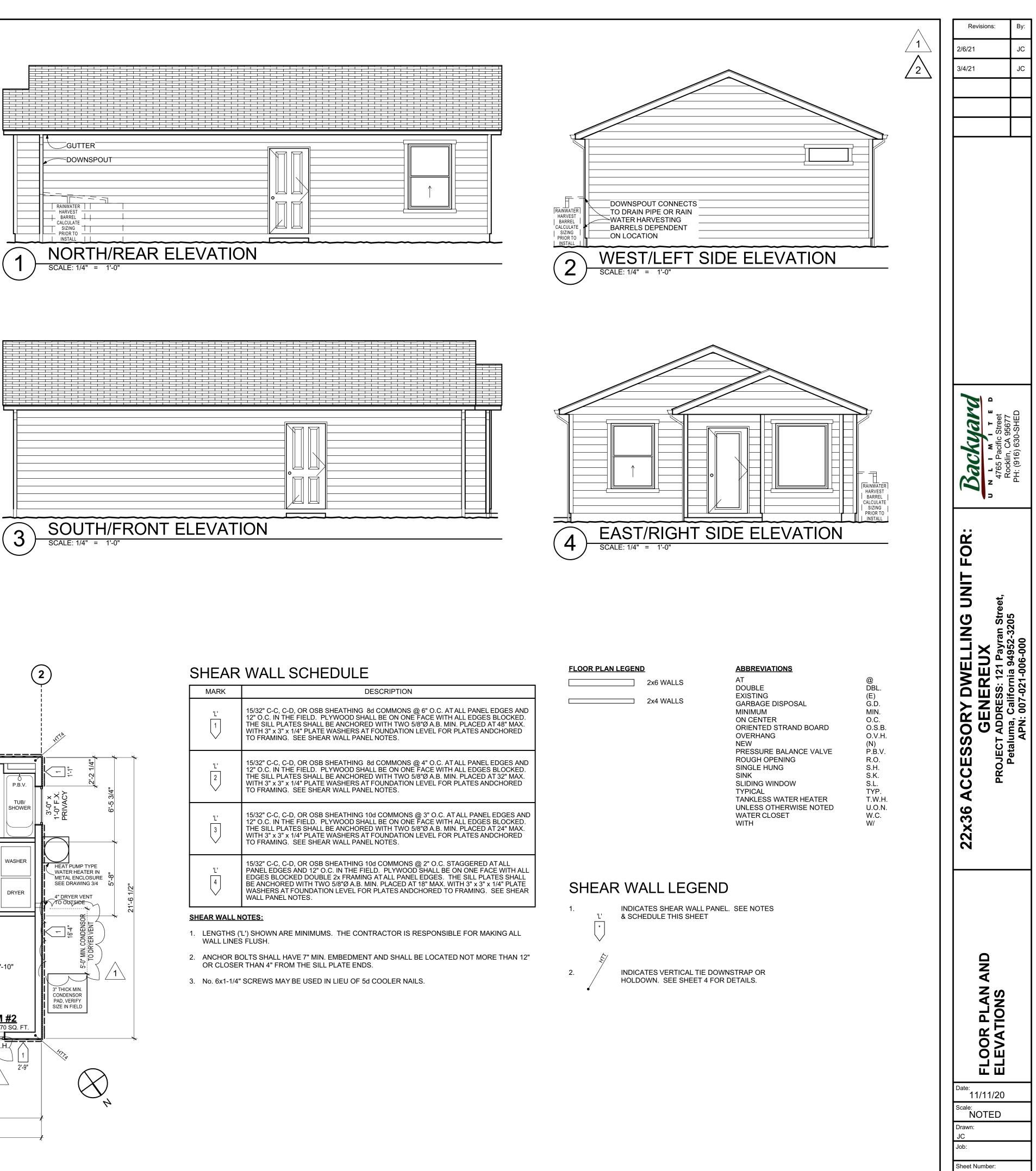
EGRESS WINDOW IN BEDROOM TO PROVIDE 5.7 SQUARE FEET OF CLEAR OPENING AND A MINIMUM CLEAR NET OPENING HEIGHT OF 24" AND WIDTH OF 20" PER C.R.C. 310.2.1 

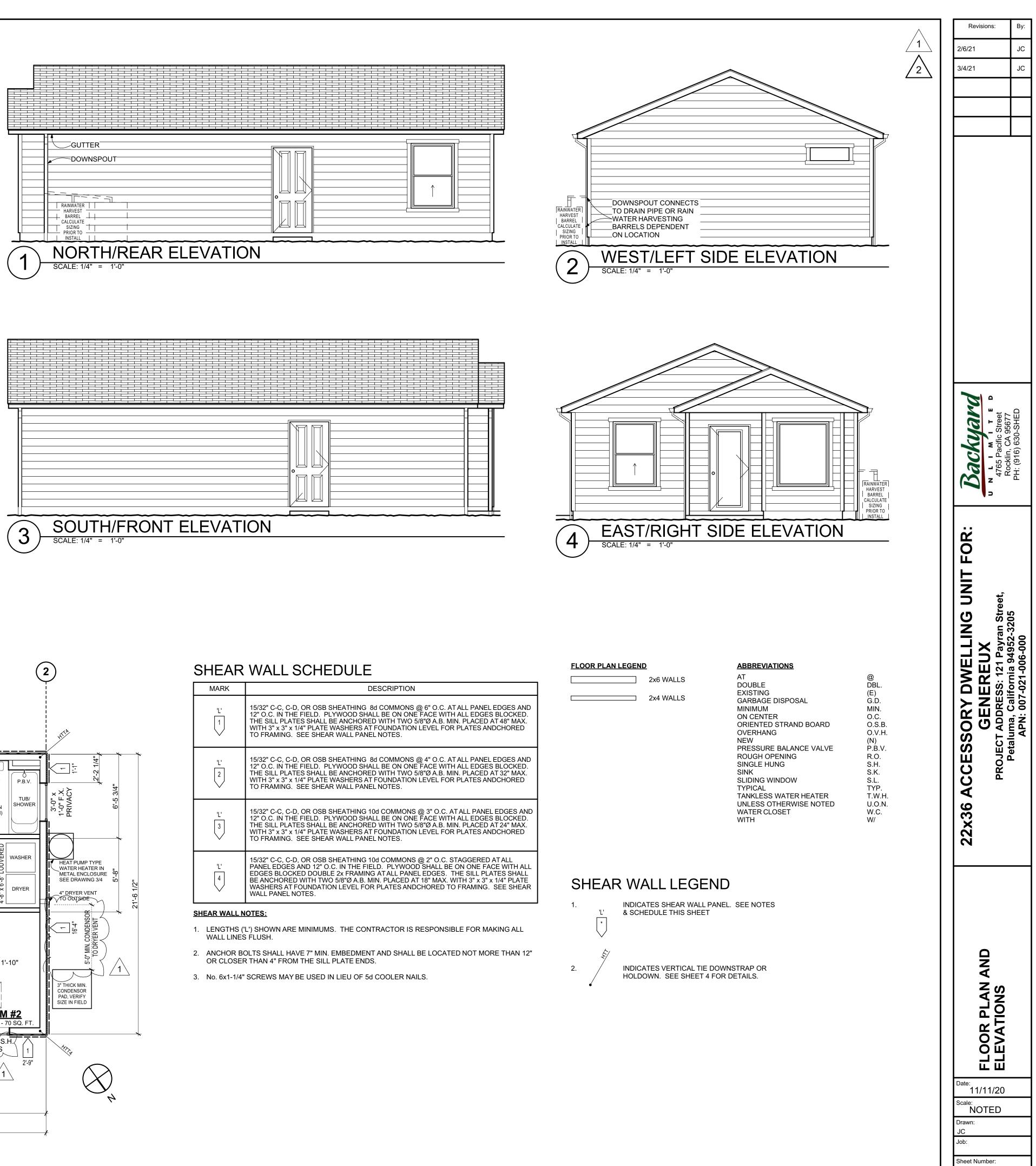
PLUMBING NOTES

- 1. ALL PLUMBING FOR THIS PROJECT IS NEW
- 2. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING VALVE TYPE THAT PROVIDE SCALD AND THERMAL SHOCK PROTECTION FOR THE RATED FLOW RATE OF THE INSTALLED SHOWERHEAD. THESE VALVES SHALL BE INSTALLED AT THE POINT OF USE AND IN ACCORDANCE WITH ASSE 1016, OR ASME A112.1016/CSA B125.16 OR ASME A112.18.1/CSA B125.1. HANDLE POSITION STOPS SHALL BE PROVIDED ON SUCH VALVES AND SHALL BE ADJUSTED PER THE MANUFACTURER'S INSTRUCTIONS TO DELIVER A MAXIMUM MIXED WATER SETTING OF 120°F (49°C). C.P.C. 408.3
- 3. CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED ON THE SIDEWALL OF SHOWER COMPARTMENTS OR OTHERWISE ARRANGED SO THAT THE SHOWERHEAD DOES NOT DICHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT SO THAT THE BATHER CAN ADJUST THE VALVES BEFORE STEPPING INTO THE SHOWER SPRAY. C.P.C. 408.9
- 4. WATER HEATERS INSTALLED ON THIS PROJECT SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM DISTANCE OF 4 IN. SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING. C.P.C. 507.2 THIS APPLIES TO ALL NEW AND EXISTING WATER HEATERS PER THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 19211(a)
- 5. WHERE A WATER HEATER IS INSTALLED PIPING SHALL BE INSULATED AS REQUIRED IN. C.E.C. 150(J) 2
- 6. POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS OTHER THAN WATER HEATER DRAINS, BOILER DRAINS, AND CLOTHES WASHER CONNECTIONS, SHALL BE PROTECTED BY A NON REMOVABLE HOSE-BIB-TYPE BACKFLOW PREVENTER, A NON REMOVABLE HOSE BIB TYPE VACUUM BREAKER, OR BY AN ATMOSPHERIC VACUUM BREAKER INSTALLED NOT LESS THAN 6 IN. ABOVE THE HIGHEST POINT OF USAGE LOCATED ON THE DISCHARGE SIDE OF THE LAST VALVE. C.P.C. 603.5.7
- 7. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FEET FROM, OR NOT LESS THAN 3 FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE, OR VENT SHAFT, OR NOT LESS THAN 3 FEET FROM A LOT LINE, ALLEY AND STREET EXCEPTED. C.P.C. 906.2



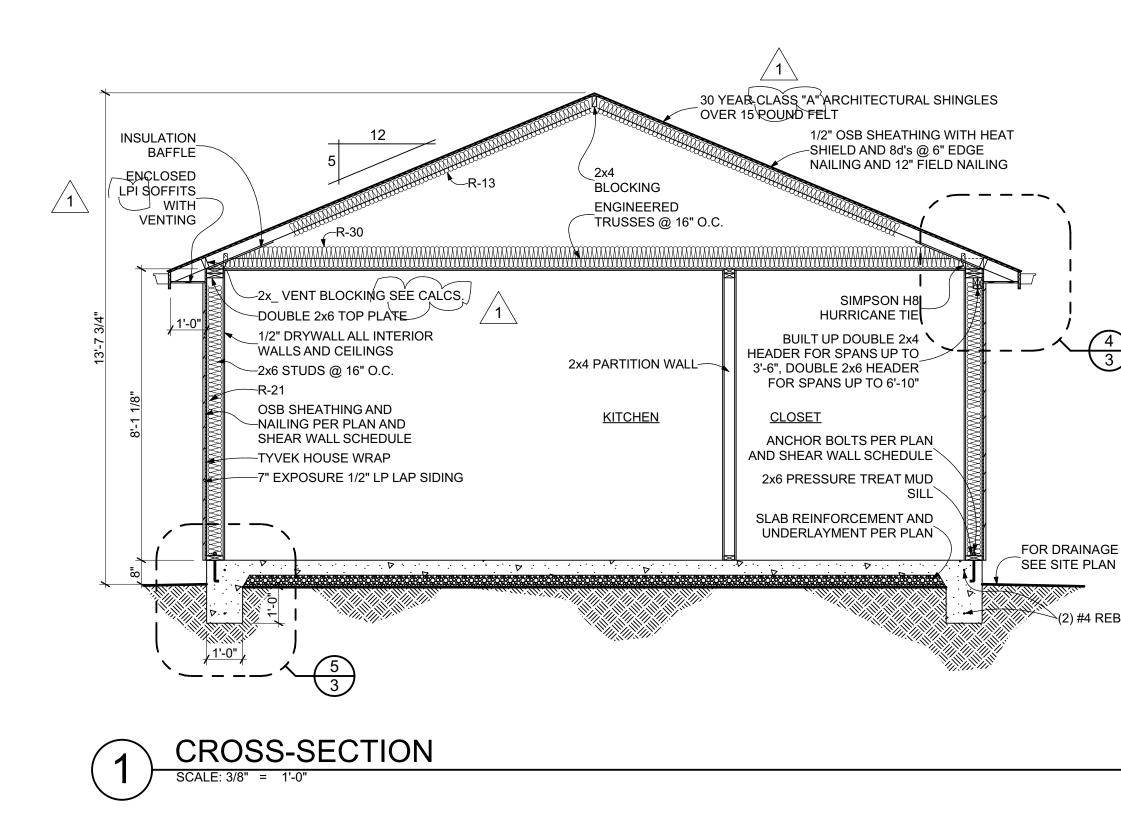




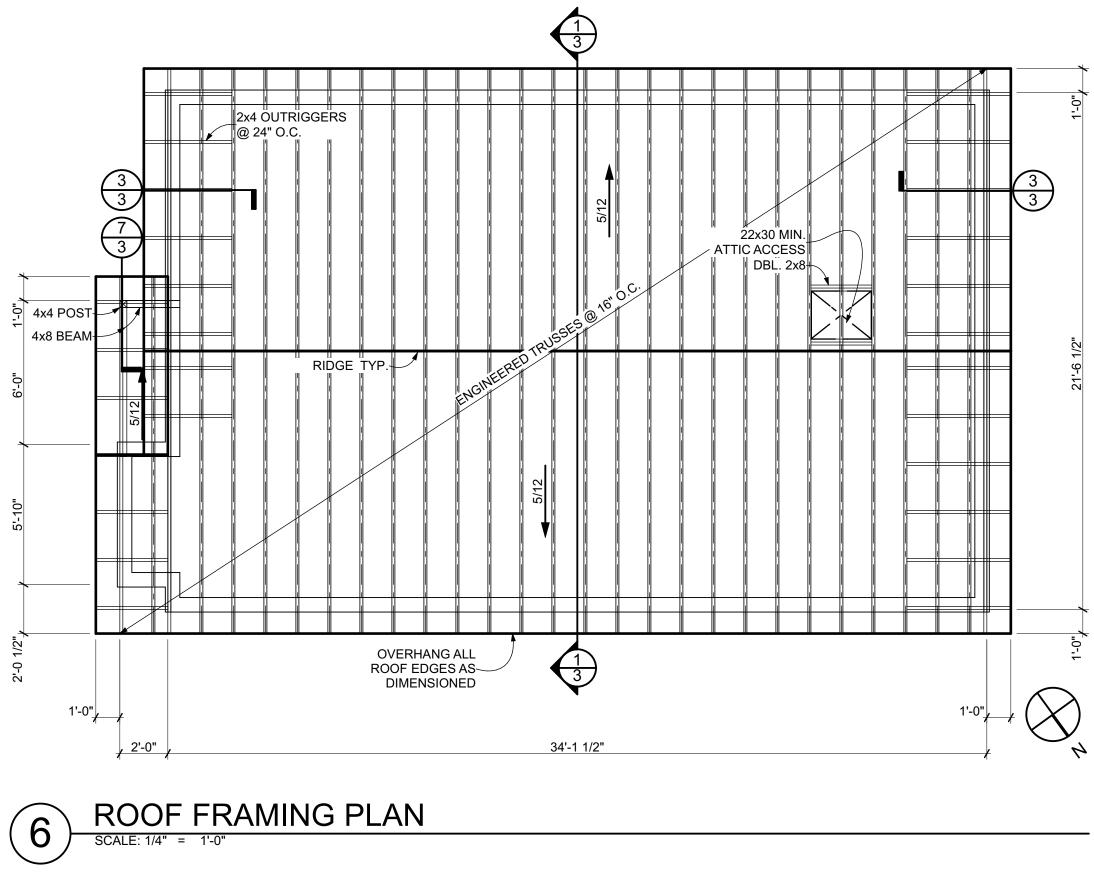


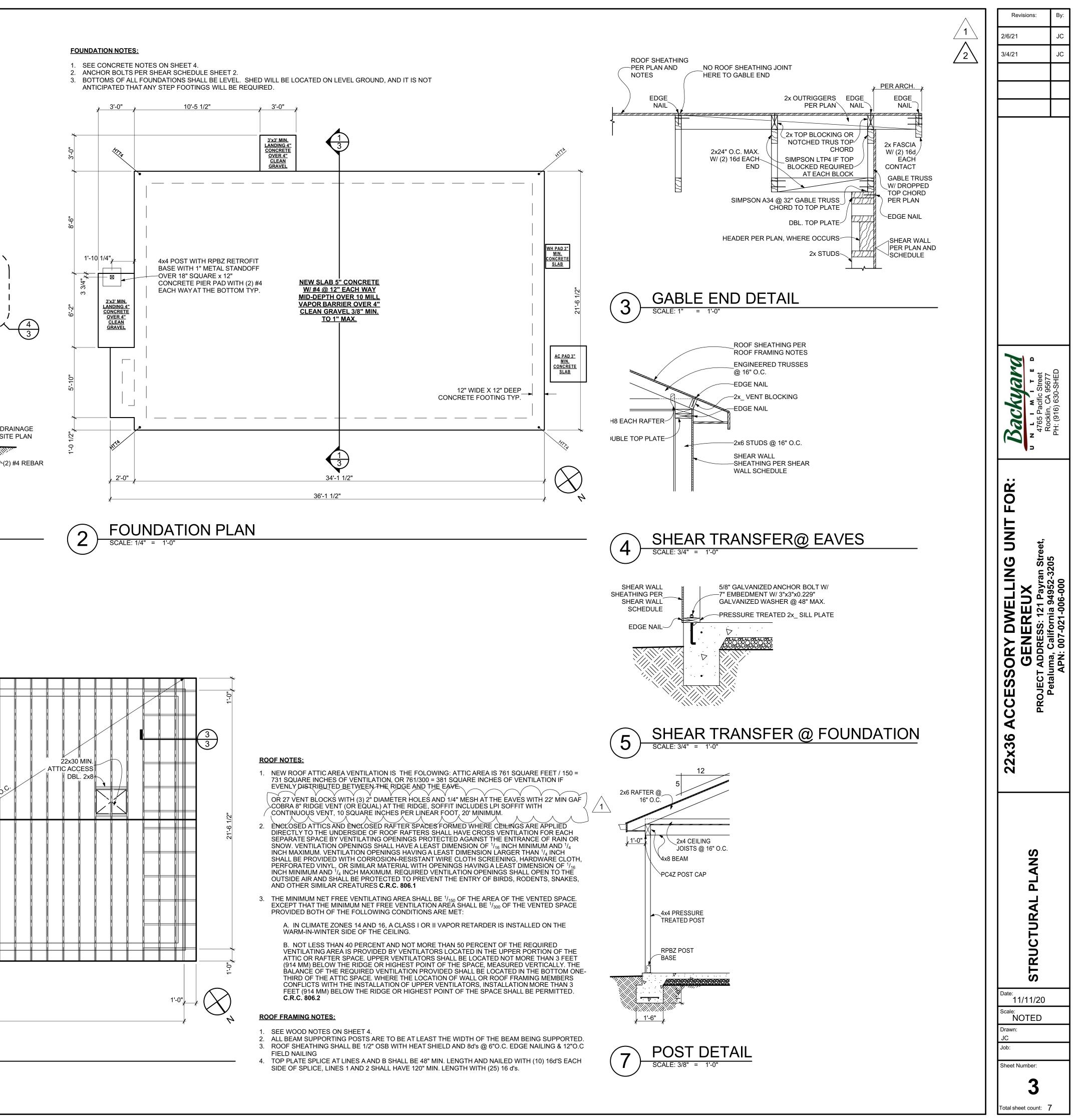
	MARK	DESCRIPTION
	-'-'	15/32" C-C, C-D, OR OSB SHEATHING 8d COMMONS @ 6" O.C. AT ALL PANEL EDG 12" O.C. IN THE FIELD. PLYWOOD SHALL BE ON ONE FACE WITH ALL EDGES BLC THE SILL PLATES SHALL BE ANCHORED WITH TWO 5/8"Ø A.B. MIN. PLACED AT 48 WITH 3" x 3" x 1/4" PLATE WASHERS AT FOUNDATION LEVEL FOR PLATES ANDCH TO FRAMING. SEE SHEAR WALL PANEL NOTES.
	'L' 2	15/32" C-C, C-D, OR OSB SHEATHING 8d COMMONS @ 4" O.C. AT ALL PANEL EDG 12" O.C. IN THE FIELD. PLYWOOD SHALL BE ON ONE FACE WITH ALL EDGES BLC THE SILL PLATES SHALL BE ANCHORED WITH TWO 5/8"Ø A.B. MIN. PLACED AT 32 WITH 3" x 3" x 1/4" PLATE WASHERS AT FOUNDATION LEVEL FOR PLATES ANDCH TO FRAMING. SEE SHEAR WALL PANEL NOTES.
	'L' 3	15/32" C-C, C-D, OR OSB SHEATHING 10d COMMONS @ 3" O.C. AT ALL PANEL EDG 12" O.C. IN THE FIELD. PLYWOOD SHALL BE ON ONE FACE WITH ALL EDGES BLC THE SILL PLATES SHALL BE ANCHORED WITH TWO 5/8"Ø A.B. MIN. PLACED AT 24 WITH 3" x 3" x 1/4" PLATE WASHERS AT FOUNDATION LEVEL FOR PLATES ANDCH TO FRAMING. SEE SHEAR WALL PANEL NOTES.
	'L' 4	15/32" C-C, C-D, OR OSB SHEATHING 10d COMMONS @ 2" O.C. STAGGERED AT A PANEL EDGES AND 12" O.C. IN THE FIELD. PLYWOOD SHALL BE ON ONE FACE V EDGES BLOCKED DOUBLE 2x FRAMING AT ALL PANEL EDGES. THE SILL PLATES BE ANCHORED WITH TWO 5/8"Ø A.B. MIN. PLACED AT 18" MAX. WITH 3" x 3" x 1/4" WASHERS AT FOUNDATION LEVEL FOR PLATES ANDCHORED TO FRAMING. SEE WALL PANEL NOTES.

Total sheet count: 7



3 STRUCTURAL PLANS : Plotted on 3/4/2021 at 5:53 PM by Jeron. File Path: C:\Users\Jeron\Documents\Current Archicad Projects\2020\Backyard Unlimited\Genereux - Petaluma 9-12-20\Genereux - Petaluma 11-11-20.pln







### WOOD NOTES:

1. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS: ALL LUMBER SPECIES, GRADED VISUALLY OR MECHANICALLY, SHALL COMPLY WITH THE NDS BY AF+PA, AND THE AMERICAN SOFTWOOD LUMBER STANDARD (PS-20-05) BY THE U.S. DEPARTMENT OF COMMERCE.

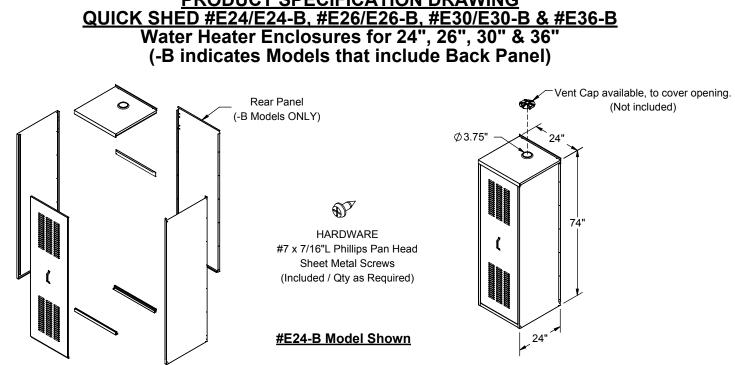
THE MINIMUM GRADE AND SPECIES FOR POSTS, BEAMS, HEADERS, AND OTHER PRIMARY STRUCTURAL MEMBERS SHALL BE DENSE SELECTED SOUTHERN PINE, U.O.N.

LUMBER USED FOR SECONDARY FRAMING SHALL BE #1 SOUTHERN PINE OR BETTER

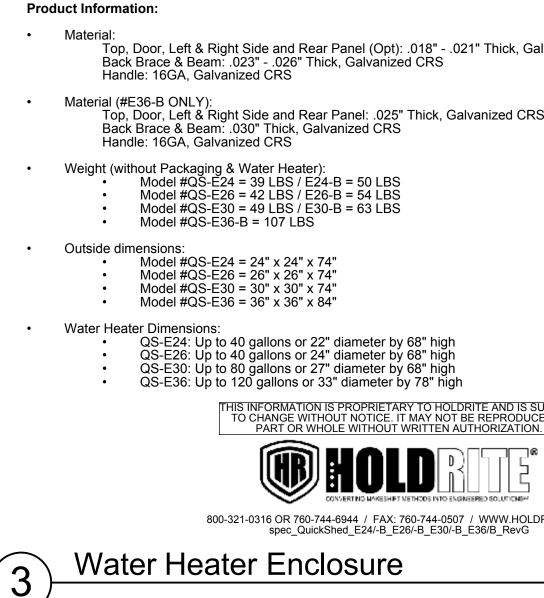
PLYWOOD - US PRODUCT STANDARD P.S. 2-10 FOR SOFT PLYWOOD STRUCTURAL 1 @ WALLS; CDX @ FLOORS AND ROOF U.O.N.

PRESSURE TREATED DOUGLAS FIR - AWPA (AMERICAN WOOD PRESERVERS' ASSOCIATION) U1.

- 2. ALL WOOD IN DIRECT CONTACT WITH EARTH OR CONCRETE SHALL BE PRESSURE TREATED.
- 3. BEARING/BRACE/SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL AND PARTITION INTERSECTION WITH (3) 16d's.
- 4. PROVIDE SOLID BLOCKING BETWEEN JOISTES AND RAFTERS AT ALL SUPPORTS.
- 5. LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORT U.O.N.
- 6. CONNECTOR HARDWARE MODEL NUMBERS ARE FOR SIMPSON STRON-TIE COMPANY. EQUIVALENT CONNECTORS WITH ICBO ACCEPTANCE MAY BE SUBSTITUTED.
- 7. FASTENERS FOR PRESERVATIVE TREATED & FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153



The HOLDRITE® QUICK SHED<sup>™</sup> Water Heater Enclosures are constructed of galvanized steel and provide protection for water heaters installed in outdoor locations. Anchor points at the rear of the enclosure allows for optional attachment to the adjacent building structure. Rear panel (-B version ONLY) provides a four-sided enclosure.



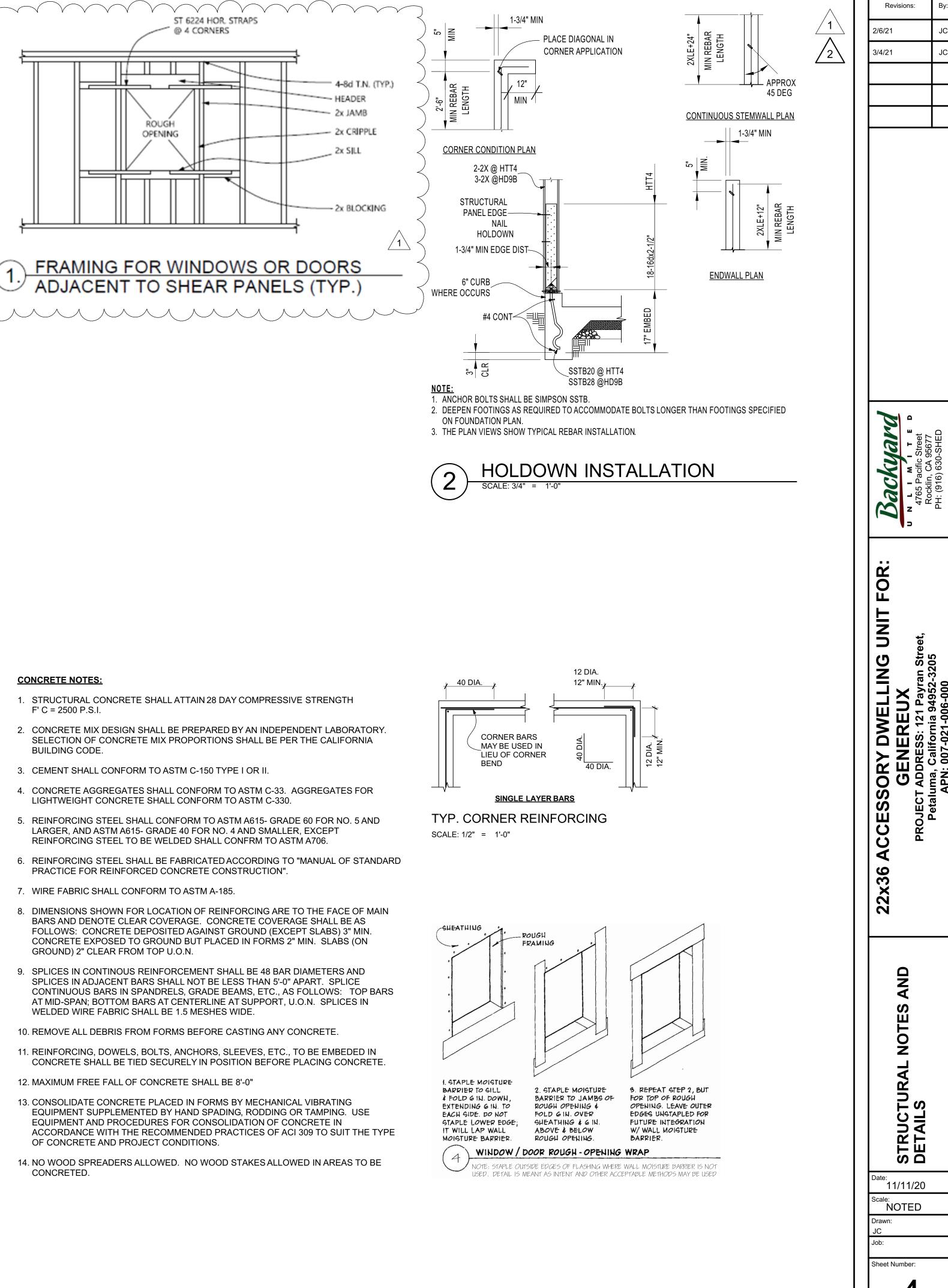
## NAILING NOTES:

ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS CONFORMING TO THE FOLLOWING MINIMUM SIZES

8d 0.131" DIAMETER X 2 1/2" 10d 0.148" DIAMETER X 3" 16d 0.162" DIAMETER X 3 1/2"

HOLES SHALL BE SUBDRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT NOTED BELOW OR ON PLANS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT. 8d NAILS FOR 1" MATERIAL AND 16d NAILS FOR 2" MATERIAL.

- 1. JOISTS TO SILL OR GIRDER, TOE NAIL (3) 8d
- 2. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL 16d @ 16" O.C.
- 3. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANEL (3) 16d PER 16"
- 4. TOP PLATE TO STUD, END NAIL (2) 16d
- 5. STUD TO SOLE PLATE (4) 8d, TOENAIL OR (2) 16d, END NAIL
- 6. DOUBLE STUDS, FACE NAIL 16d @ 24" O.C.
- 7. DOUBLE TOP PLATES, TYPICAL FACE NAIL 16d @ 16" O.C.
- 8. DOUBLE TOP PLATES, LAP SPLICE, U.N.O. (8) 16d
- 9. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL (3) - 8d
- 10. TOP PLATES, LAPS AND INTERSECTION, FACE NAIL (2)-16d
- 11. CONTINUOUS HEADER, TWO PIECES, TOENAIL 16d @ 16" O.C. ALONG EACH EDGE
- 12. RAFTER TO TOP PLATE, TOENAIL (3) 8d
- 13. BUILT UP CORNER STUDS 16d @ 24" O.C.



Total sheet count: 7

## PRODUCT SPECIFICATION DRAWING

Top, Door, Left & Right Side and Rear Panel (Opt): .018" - .021" Thick, Galvanized CRS Back Brace & Beam: .023" - .026" Thick, Galvanized CRS

Top, Door, Left & Right Side and Rear Panel: .025" Thick, Galvanized CRS

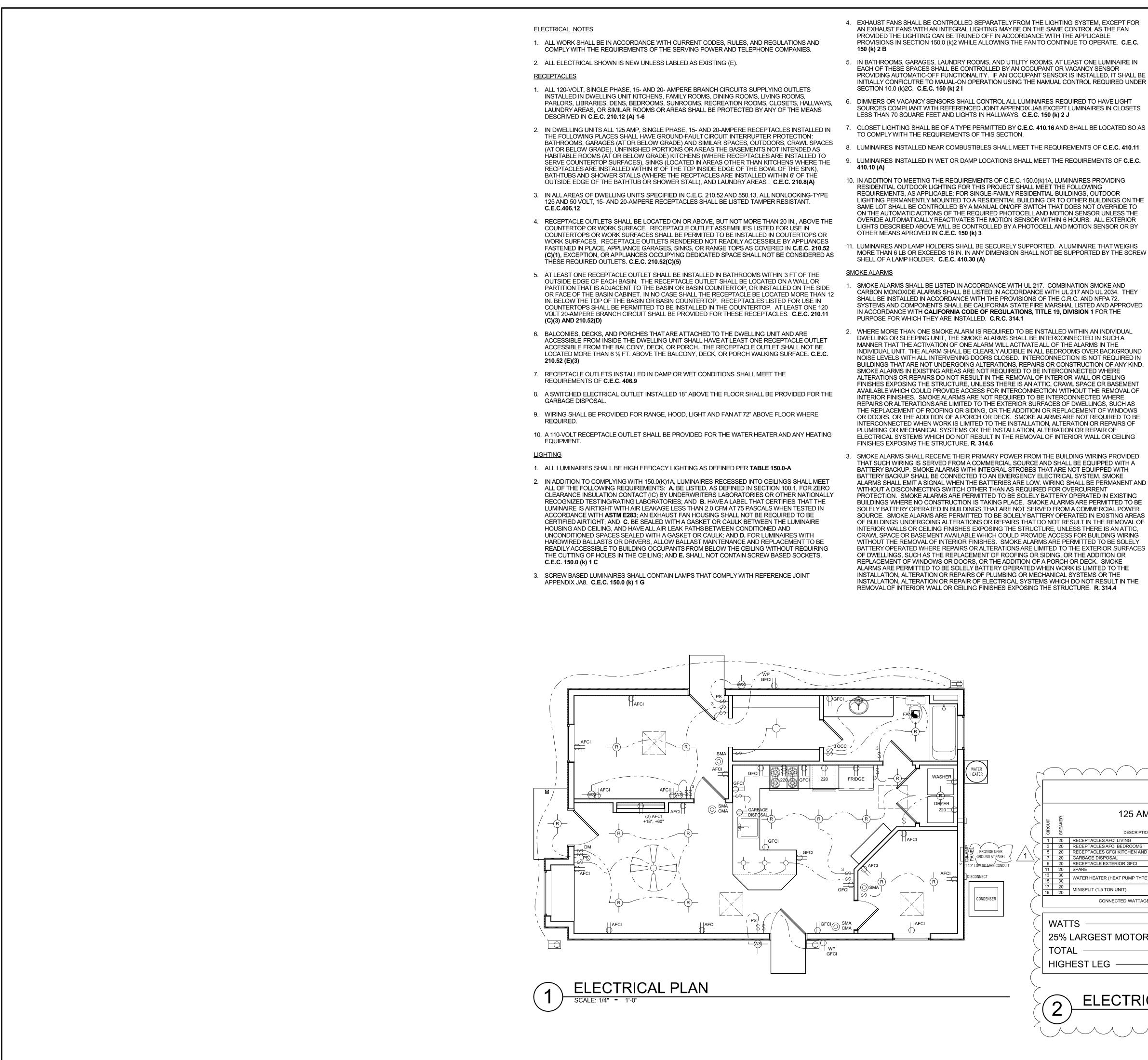
Model #QS-E26 = 42 LBS / E26-B = 54 LBS

### QS-E24: Up to 40 gallons or 22" diameter by 68" high QS-E26: Up to 40 gallons or 24" diameter by 68" high QS-E30: Up to 80 gallons or 27" diameter by 68" high

THIS INFORMATION IS PROPRIETARY TO HOLDRITE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. IT MAY NOT BE REPRODUCED IN

Product Submittal				
Job Name:				
Date:				
Part Number:	Qty:			
Architect / Ow ner:				
Contractor:				
Notes:				

800-321-0316 OR 760-744-6944 / FAX: 760-744-0507 / WWW.HOLDRITE.COM spec\_QuickShed\_E24/-B\_E26/-B\_E30/-B\_E36/B\_RevG



5 ELECTRICAL PLANS : Plotted on 3/4/2021 at 5:53 PM by Jeron. File Path: C:\Users\Jeron\Documents\Current Archicad Projects\2020\Backyard Unlimited\Genereux - Petaluma 9-12-20\Genereux - Petaluma 11-11-20.pln

- 4. EXHAUST FANS SHALL BE CONTROLLED SEPARATELY FROM THE LIGHTING SYSTEM, EXCEPT FOR AN EXHAUST FANS WITH AN INTEGRAL LIGHTING MAY BE ON THE SAME CONTROL AS THE FAN PROVISIONS IN SECTION 150.0 (k)2 WHILE ALLOWING THE FAN TO CONTINUE TO OPERATE. C.E.C.
- EACH OF THESE SPACES SHALL BE CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. IF AN OCCUPANT SENSOR IS INSTALLED, IT SHALL BE INITIALLY CONFICUTRE TO MAUAL-ON OPERATION USING THE NAMUAL CONTROL REQUIRED UNDER
- SOURCES COMPLIANT WITH REFERENCED JOINT APPENDIX JA8 EXCEPT LUMINAIRES IN CLOSETS

- REQUIREMENTS, AS APPLICABLE: FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE CONTROLLED BY A MANUAL ON/OFF SWITCH THAT DOES NOT OVERRIDE TO ON THE AUTOMATIC ACTIONS OF THE REQUIRED PHOTOCELL AND MOTION SENSOR UNLESS THE OVERIDE AUTOMATICALLY REACTIVATES THE MOTION SENSOR WITHIN 6 HOURS. ALL EXTERIOR LIGHTS DESCRIBED ABOVE WILL BE CONTROLLED BY A PHOTOCELL AND MOTION SENSOR OR BY
- 11. LUMINAIRES AND LAMP HOLDERS SHALL BE SECURELY SUPPORTED. A LUMINAIRE THAT WEIGHS MORE THAN 6 LB OR EXCEEDS 16 IN. IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW

- SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND UL 2034. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE C.R.C. AND NFPA 72. SYSTEMS AND COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHAL LISTED AND APPROVED IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1 FOR THE
- . WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED. INTERCONNECTION IS NOT REQUIRED IN BUILDINGS THAT ARE NOT UNDERGOING ALTERATIONS. REPAIRS OR CONSTRUCTION OF ANY KIND. SMOKE ALARMS IN EXISTING AREAS ARE NOT REQUIRED TO BE INTERCONNECTED WHERE ALTERATIONS OR REPAIRS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING FINISHES EXPOSING THE STRUCTURE, UNLESS THERE IS AN ATTIC, CRAWL SPACE OR BASEMENT AVAILABLE WHICH COULD PROVIDE ACCESS FOR INTERCONNECTION WITHOUT THE REMOVAL OF INTERIOR FINISHES. SMOKE ALARMS ARE NOT REQUIRED TO BE INTERCONNECTED WHERE REPAIRS OR ALTERATIONS ARE LIMITED TO THE EXTERIOR SURFACES OF DWELLINGS, SUCH AS THE REPLACEMENT OF ROOFING OR SIDING, OR THE ADDITION OR REPLACEMENT OF WINDOWS OR DOORS, OR THE ADDITION OF A PORCH OR DECK. SMOKE ALARMS ARE NOT REQUIRED TO BE INTERCONNECTED WHEN WORK IS LIMITED TO THE INSTALLATION, ALTERATION OR REPAIRS OF PLUMBING OR MECHANICAL SYSTEMS OR THE INSTALLATION, ALTERATION OR REPAIR OF ELECTRICAL SYSTEMS WHICH DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING
- THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND PROTECTION. SMOKE ALARMS ARE PERMITTED TO BE SOLELY BATTERY OPERATED IN EXISTING BUILDINGS WHERE NO CONSTRUCTION IS TAKING PLACE. SMOKE ALARMS ARE PERMITTED TO BE SOLELY BATTERY OPERATED IN BUILDINGS THAT ARE NOT SERVED FROM A COMMERCIAL POWER SOURCE. SMOKE ALARMS ARE PERMITTED TO BE SOLELY BATTERY OPERATED IN EXISTING AREAS OF BUILDINGS UNDERGOING ALTERATIONS OR REPAIRS THAT DO NOT RESULT IN THE REMOVAL OF INTERIOR WALLS OR CEILING FINISHES EXPOSING THE STRUCTURE, UNLESS THERE IS AN ATTIC, CRAWL SPACE OR BASEMENT AVAILABLE WHICH COULD PROVIDE ACCESS FOR BUILDING WIRING WITHOUT THE REMOVAL OF INTERIOR FINISHES. SMOKE ALARMS ARE PERMITTED TO BE SOLELY BATTERY OPERATED WHERE REPAIRS OR ALTERATIONS ARE LIMITED TO THE EXTERIOR SURFACES OF DWELLINGS, SUCH AS THE REPLACEMENT OF ROOFING OR SIDING, OR THE ADDITION OR REPLACEMENT OF WINDOWS OR DOORS, OR THE ADDITION OF A PORCH OR DECK. SMOKE ALARMS ARE PERMITTED TO BE SOLELY BATTERY OPERATED WHEN WORK IS LIMITED TO TH INSTALLATION, ALTERATION OR REPAIRS OF PLUMBING OR MECHANICAL SYSTEMS OR THE INSTALLATION, ALTERATION OR REPAIR OF ELECTRICAL SYSTEMS WHICH DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING FINISHES EXPOSING THE STRUCTURE. R. 314.4

CARBON MONOXIDE ALARMS 1. CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 2034. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND UL 2034. CARBON MONOXIDE DETECTORS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF NFPA 720 AND UL 2075. COMBINATION SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS SHALL COMPLY WITH UL 2075 AND UL 268. CARBON MONOXIDE ALARMS AND CARBON MONOXIDE DETECTORS AS WELL AS COMBINATION ALARMS OR DETECTORS MAY BE USED IN LIEU OF ONE ANOTHER C.R.C 315 2. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. CARBON MONOXIDE ALARMS SHALL BE PERMITTED TO BE BATTERY OPERATED WHERE INSTALLED IN BUILDINGS WITHOUT COMMERCIAL POWER. CARBON MONOXIDE ALARMS INSTALLED IN ACCORDANCE WITH SECTION R315.2.2 SHALL BE PERMITTED TO BE BATTERY POWERED. CARBON MONOXIDE ALARMS IN GROUP R OCCUPANCIES SHALL BE PERMITTED TO RECEIVE THEIR PRIMARY POWER FROM OTHER POWER SOURCES RECOGNIZED FOR USE BY NFPA 720. ARBON MONOXIDE ALARMS IN GROUP R OCCUPANCIES SHALL BE PERMITTED TO BE BATTERY-POWERED OR PLUG-IN WITH A BATTERY BACKUP IN EXISTING BUILDINGS BUILT PRIOR TO JANUARY 1, 2011, UNDER ANY OF THE FOLLOWING CONDITIONS: NO CONSTRUCTION IS TAKING PLACE. REPAIRS OR ALTERATIONS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL AND CEILING FINISHES EXPOSING THE STRUCTURE IN AREAS/SPACES WHERE CARBON MONOXIDE ALARMS ARE REQUIRED. REPAIRS OR ALTERATIONS ARE LIMITED TO THE EXTERIOR SURFACES OF DWELLINGS. SUCH AS THE REPLACEMENT OF ROOFING OR SIDING, OR THE ADDITION OR REPLACEMENT OF WINDOWS OR DOORS, OR THE ADDITION OF A PORCH OR DECK. WORK IS LIMITED TO THE INSTALLATION, ALTERATION OR REPAIR OF PLUMBING, MECHANICAL OR ELECTRICAL SYSTEMS, WHICH DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING FINISHES EXPOSING THE STRUCTURE IN AREAS/SPACES WHERE CARBON MONOXIDE ALARMS ARE REQUIRED. C.R.C. 315.5 3. WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN A DWELLING UNIT OR WITHIN A SLEEPING UNIT IN GROUP R OCCUPANCIES, THE ALARMS SHALL BE INTERCONNECTED IN A MANNER THAT ACTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. INTERCONNECTION IS NOT REQUIRED IN EXISTING BUILDINGS BUILT PRIOR TO JANUARY 1, 2011, UNDER ANY OF THE FOLLOWING CONDITIONS: PHYSICAL INTERCONNECTION IS NOT REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM. NO CONSTRUCTION IS TAKING PLACE. REPAIRS OR ALTERATIONS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL AND CEILING FINISHES EXPOSING THE STRUCTURE IN AREAS/SPACES WHERE CARBON MONOXIDE ALARMS ARE REQUIRED. REPAIRS OR ALTERATIONS ARE LIMITED TO THE EXTERIOR SURFACES OF DWELLINGS. SUCH AS THE REPLACEMENT OF ROOFING OR SIDING. OR THE ADDITION OR REPLACEMENT OF WINDOWS OR DOORS, OR THE ADDITION OF A PORCH OR DECK. WORK IS LIMITED TO THE INSTALLATION, ALTERATION OR REPAIR OF PLUMBING, MECHANICAL, OR ELECTRICAL SYSTEMS, WHICH DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING FINISHES EXPOSING THE STRUCTURE IN AREAS/SPACES WHERE CARBON MONOXIDE ALARMS ARE REQUIRED. C.R.C. 315.7 ELECTRICAL LEGEND SWITCH DIMMER MANUAL ON OCCUPANT SENSOR MANUAL ON/MOTION SENSOR/PHOTO SENSOR FOR OUTDOOR LIGHTING **3 WAY SWITCH**  $\bigcirc$ TAMPER RESISTANT DUPLEX RECPETACLE ARC FAULT CIRCUIT INTERUPTER AFCI GROUND FAULT CIRCUIT INTERUPTER GFCI GROUND FAULT CIRCUIT INTERUPTER WITH ALL WEATHER USE COVER PER C.E.C.406.8 220 OUTLET FOR DRYER AND RANGE 220 TAMPER RESISTANT GFCI DUPLEX RECPETACLE  $=\bigcirc$ INSTALLED IN EAVES WITH ALL WEATHER USE COVER C.E.C.406.8 GENERAL LIGHTING PENDENT LIGHT RECESSED LIGHTING —( R )— WALL SCONCE UNDERCABINET LIGHTING -----SMOKE ALARM/CARBON MONOXIDE ALARM COMBINATION O SMA SMOKE ALARM ONLY EXHAUST FAN FAN 

125 AMP		1 PHASE		3 WIRE	(ER	ΤI
DESCRIPTION	LOAD VA.	1448	LOAD VA.	DESCRIPTION	BREAKER	N CIRCUIT
EDROOMS (ITCHEN AND BATH	1800 1080 480	2080 /// 1260	182 1000 360	LIGHTING BEDROOMS MICROWAVE WITH HOOD REFRIGERATOR	20 20 20	4 6 8
OR GFCI	900 2500	3000 2100 3160	2100 2100 660	RANGE ELECTRIC (220) DISHWASHER	40 40 20	10 12 14
NIT)	2500 1260 1260	3940 3760 3760 3760	1440 2500 2500	WASHER ELECTRIC DRYER (220)	20 30 30	16 18 20
26,490 IOTOR\LIGHTS 1,387.5						

Revisions: 2/6/21 3/4/21	By: JC JC
<b>8</b>	
<b>Backyard</b> U N L I M I T E D 4765 Pacific Street Bocklin CA 95677	PH: (916) 630-SHED
	H
22x36 ACCESSORY DWELLING UNIT FOR: GENEREUX PROJECT ADDRESS: 121 Payran Street,	Petaluma, California 94952-3205 APN: 007-021-006-000
Date: 11/11/20	
Drawn: JC Job: Sheet Number:	
5	7

	RESCOM 3166 Suisun Bay Road West Sacramento, CA 95691 (916) 373-1383	CERTIFICATE OF COMPLIANCE Project Name: Genereux ADU Calculation Description: Title 24 Analysis	Calculation Date/Time: 2020-10-17T11:13:51-07:00 Input File Name: Backyard-Ultd-Genereux_ADU.ribd19x	CF1 (Pa
RESIDENTIAL COMMERCIAL ENE	(888) 372-2263	GENERAL INFORMATION		
		01 Project Name Genereux ADU		
Max Kellogg		02 Run Title Title 24 Analysis		
4765 Pacific Street Rocklin, CA 95677		03 Project Location 121 Payran Street		
		04 City Petaluma	05 Standards Version 2019	
October 17, 2020		06 Zip code 94952	07 Software Version CBECC-Res 2019.1.2	
Re: Genereux ADU		08 Climate Zone 2	09 Front Orientation (deg/ Cardinal) 210	
		10 Building Type Single family	11         Number of Dwelling Units         1	
	omplies with the following 2019 Title 24 requirements for the new work: Mandatory Measures as applicable to your project):	12 Project Scope NewConstruction	13 Number of Bedrooms 2	
(in addition to all the required	Manaalory Measures as applicable to your project).	14 Addition Cond. Floor Area (ft <sup>2</sup> )	15 Number of Stories 1	
Floor insulation -	None (Slab-on-grade)	16 Existing Cond. Floor Area (ft <sup>2</sup> ) <sup>n/a</sup>	17   Fenestration Average U-factor   0.34	
Wall insulation -	R-21 (in 2x6 framing)	18 Total Cond. Floor Area (ft <sup>2</sup> ) 747	19 Glazing Percentage (%) 12.90%	
Attic Insulation - Roof-deck Insulation -	R-30 above ceiling R-13 attached to underside of roof-deck between rafters	20 ADU Bedroom Count 0	21 ADU Conditioned Floor Area 0	
Radiant Barrier -	NO (do not install radiant barrier)	22 Is Natural Gas Available? Yes	alc FRISInc	
Cool Roof Required -	NO			
Window Values -	U-0.30, SHGC-0.23		ERS PROVIDER	
Exterior Wood Door - Water Heater -	U-0.20 Heat-pump type 50-gallon (based on Rheem XE50T10HD50U1)	01 Building Complies with Computer Performance		
HVAC (mini-split) -	14.0 SEER / 8.2 HSPF		ting and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS	provider.
Duct Insulation -	None (ductless)	03 This building incorporates one or more Special Features s	shown below	
IAQ Exhaust Fan Required Whole House Fan Required	YES (50 CFM min) NO			
PV Solar System -	1.86 kWdc (based on CFI defaults and 100% solar access) Solar designer responsible that installed system meets compliance			
HERS Field Verifications				
Duct Seal and Leakage -	<u>Required</u> NO			
Proper Refrigerant Charge -	YES			
SEER/EER Verification -				
Cooling Coil Air Flow (350 CF Cooling Fan Power (0.58 W/Cl				
IAQ Fan CFM -	YES			
Kitchen Hood (HVI listed) -	YES			
Quality Insulation Installation -		Registration Number: 220-P010194445A-000-000-000000-0000	Registration Date/Time: HERS Provider: 2020-10-27 13:51:52	Са
Heat Pump Heating Capacity - HSPF Verification -	YES NO	CA Building Energy Efficiency Standards - 2019 Residential Compliance	Report Version: 2019.1.108 Report Generated: 202	
Whole House Airflow -	NO NO	· ·	Schema Version: rev 20200101	
VCHP Verifications -	YES			
Please verify the above features regarding this analysis, please of	s before submitting to the building department. If you have any questions call (916) 373-1383.			
Sincerely,				
Melinda Wollny				
TITLE 24 -	CAD - LOAD CALCULATIONS - HVAC DESIGN			
ASHRAE STANDARD 62.	2, CEEC MF-1R measure 150(o)	CERTIFICATE OF COMPLIANCE		CF1F
Iocal Ventilation Rate Summ		Project Name: Genereux ADU	Calculation Date/Time: 2020-10-17T11:13:51-07:00	(Pa

Local Ventilation Rate Summary							
Bathroom Fan Flow	50 (cfm) min.	(# of Bathrooms) 80 CFM					
Kitchen Fan Flow 1	100 (cfm) min.	(# of Kitchens 1)100 CFM					
Use the Fan Flow rate f	Use the Fan Flow rate from this summary for selection of the local ventilation fan duct length						
design for the local ventilation system from Table 7.1							
Bathroom Duct size (in) = $5$ Maximum allowable Duct Length (ft) = $70$							
Kitchen Duct size (ir	Kitchen Duct size (in) = $6$ Maximum allowable Duct Length (ft) = $85$						

### Sound Rating and Continuous Operation

The whole building ventilation exhaust fan will operate continuously and is required to be rated for sound at a **maximum of 1 sone**. This exhaust fan can be controlled by a standard on/off switch but the **switch must be labeled** to inform the occupant that the exhaust fan is the whole building ventilation exhaust fan and is intended to operate continuously. The wording needs to make clear what the control is for and the importance of operating the system. This may be as simple as "Ventilation Control" or might include wording such as; "Operate when the house is in use" or "fan is on for indoor air quality" Majority of local exhaust fans (bathrooms & kitchen) will operate intermittently and are required to be rated at max. 3 sones.

### Table 7.1 Prescriptive Duct Sizing Requirements

	Table / 11 Fleedilptite Date bizing Requirements							
Duct Type		Fl	ex Duct		Smooth Duct			
Fan Rating*	50 80 100 125			50	80	100	125	
	Maximum Allowable Duct Length (ft)							
Diameter in.	Flex Duct				Smooth Duct			
4	70	3	Х	Х	105	35	5	Х
5	NL	70	35	20	NL	135	85	55
6	NL	NL	125	95	NL	NL	NL	145
7 and above	have no	length lim	itation. 3 in	nch is only a	allowed in s	mooth duc	t 50 cfm 5	ft. length

**7** and above have no length limitation, **3** inch is only allowed in smooth duct 50 cfm 5 ft. length This table assumes no elbows. Deduct 15 ft of allowable duct length for each turn, elbow or fitting \*cfm @ 0.25 in. w.g. NL = no limit on duct length this size.

X = not allowed, any duct of this size will exceed the rated pressure drop.

• •	Insulation below roof dea Variable capacity heat pu Northwest Energy Efficie
HERS	FEATURE SUMMARY
	ollowing is a summary of the summary of the second se
Buildi	ng-level Verifications:
•	Indoor air quality ventilat
•	Kitchen range hood
Coolir	ng System Verifications:
•	Verified Refrigerant Char
•	Airflow in habitable room
Heati	ng System Verifications:
•	Verified heat pump rated
•	Wall-mounted thermosta
•	Ductless indoor units loca
HVAC	<b>Distribution System Verifi</b>
•	None

CF1R-PRF-01E NCE Calculation Date/Time: 2020-10-17T11:13:51-07:00 Project Name: Genereux ADU (Page 3 of 9) Calculation Description: Title 24 Analysis Input File Name: Backyard-Ultd-Genereux\_ADU.ribd19x REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) ency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional g tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry ation rge oms (SC3.1.4.1.7) d heating capacity ed heating capacity stat in zones g<mark>rea</mark>ter than 150 ft2 (SC3.4.5) cated entirely in conditioned space (SC3.1.4.1.8) ifications: HERS PROVID Domestic Hot Water System Verifications: -- None --**BUILDING - FEATURES INFORMATION** 02 03 04 06 07 05 Number of Dwelling Number of Water Number of Ventilation Number of Bedrooms Number of Zones onditioned Floor Area (ft Cooling Systems Heating Systems Units 747 1 2 1 0 1

	01		
Project Name			
	Genereux ADU		
	ZONE INFORMATION		

01			
Zone Name			
ADU			

Registration Number: 220-P010194445A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance CF1R-PRF-01E (Page 1 of 9)

CERTIFICATE OF COMPLIANCE Project Name: Genereux ADU Calculation Description: Title 24 Analysis

ENERGY DESIGN R	ATING						
Standard Design							
	Proposed Desi	ign					
2: Total EDR includ	1: Efficiency EDR includes improvements to the building envelope 2: Total EDR includes efficiency and demand response measures 3: Building complies when efficiency and total compliance marging						
<ul> <li>Standard Design PV Capacity: 1.86 kWdc</li> <li>PV System resized to 1.86 kWdc (a factor of 1.862) to achie</li> </ul>							
Energy Use (kTDV/ft <sup>2</sup> -yr)							
	Space Heating						
	Space Cooling						
	IAQ Ventilation						
	Water Heating						
	Self Utilization Cred	it					
Co	ompliance Energy To	otal					
REQUIRED PV SYS	TEMS - SIMPLIFIED		_				
01	02	03					
DC System Size (kWdc)	Exception	Module Type					

HERS Provider: CalCERTS inc. Report Generated: 2020-10-17 11:14:16

**Registration Number:** 220-P010194445A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

NA

Standard

1.86

02	03	04	05	06	07
Zone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
Conditioned	Minisplit1	747	9	DHW Sys 1	N/A

Registration Date/Time: 2020-10-27 13:51:52 Report Version: 2019.1.108 Schema Version: rev 20200101

HERS Provider: CalCERTS inc. Report Generated: 2020-10-17 11:14:16

CERTIFICATE OF COMPLIANCE Project Name: Genereux ADU Calculation Description: Title 24 Analysis

OPAQUE SURFACES													
01	02	03	04		05			06		07			08
Name	Zone	Construction	Azimut	h	Orientat	ion	Gross	s Area (fi	: <sup>2</sup> )	Vindow and Area (ft2)		т	ʻilt (deg)
Front	ADU	R-21 Wall	210		Front			288		20			90
Left	ADU	R-21 Wall	300		Left			168		16			90
Back	ADU	R-21 Wall	30		Back			288		31.7			90
Right	ADU	R-21 Wall	120		Right			168		48.65			90
Attic	ADU	R-30 Roof Attic + R-13	n/a		n/a			747		n/a			n/a
ATTIC													
01	02	03	04		05			06		07			08
Name	Construction	Туре	Roof Rise (x	in 12)	Roof Reflec	tance	Roof	Emittan	ce	Radiant Bar	rier	С	ool Roof
Attic ADU	Attic RoofADL	Ventilated	7		0.1			0.85		No		No	
				- 6	$\sim$		$-\mathbf{r}$	76					]
FENESTRATION / GLAZIN				0.5			00		10		42	12	
01	02	03	R 04	P 05	R 06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimu	uth (ft)	Height (ft)	<sup>t</sup> Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Sourc e	Exterior Shading
1NLG1 Glass Block	window	Left	Left	300	)		1	16	0.57	Table 110.6-A	0.67	Table 110.6- B	Bug Screen
1NBG1	Window	Back	Back	30			1	15	0.3	NFRC	0.23	NFRC	Bug Screen
1NBG2	Window	Back	Back	30			1	16.7	0.3	NFRC	0.23	NFRC	Bug Screen
1NRG1	Window	Right	Right	120	)		1	16.65	0.3	NFRC	0.23	NFRC	Bug Screen
1NRG2 FD	Window	Right	Right	120	)		1	20	0.3	NFRC	0.23	NFRC	Bug Screen
1NRG3	Window	Right	Right	120	)		1	12	0.3	NFRC	0.23	NFRC	Bug Screen

**Registration Number:** 220-P010194445A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Calculation Date/Time: 2020-10-17T11:13:51-07:00 Input File Name: Backyard-Ultd-Genereux\_ADU.ribd19x CF1R-PRF-01E (Page 2 of 9)

 $\wedge$ /2\

Energy De	sign Ratings	Compliance Margins					
Efficiency <sup>1</sup> (EDR)	Total <sup>2</sup> (EDR)	Efficiency <sup>1</sup> (EDR)	Total <sup>2</sup> (EDR)				
55.9	29.1						
55.4	28.6	0.5	0.5				
RESULT: <sup>3</sup>	COMPLIES	· · · ·					
e and more efficient equipment such as photovoltaic (PV) system ns are greater than or equal to ze							
is are greater triall of equal to ze							

33.82	24.25	9.57	28.3
4.22	9.53	-5.31	-125.8
3.59	3.59	0	0
34.16	36.34	-2.18	-6.4
n/a	0	0	n/a
75.79	73.71	2.08	2.7

04	05	06	07	08	09	10	11	12
Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
Fixed (roof mount)	none	true	150-270	n/a	n/a	<=7:12	96	100

Registration Date/Time: 2020-10-27 13:51:52 Report Version: 2019.1.108

Schema Version: rev 20200101

HERS Provider: CalCERTS inc. Report Generated: 2020-10-17 11:14:16

Calculation Date/Time: 2020-10-17T11:13:51-07:00
Input File Name: Backyard-Ultd-Genereux_ADU.ribd19x

### CF1R-PRF-01E (Page 4 of 9)

Registration Date/Time: 2020-10-27 13:51:52 Report Version: 2019.1.108 Schema Version: rev 20200101

HERS Provider:

CalCERTS inc. Report Generated: 2020-10-17 11:14:16

Revisions: 2/6/21	By: JC
3/4/21	JC
<i>u</i>	
Backyard N L M I T E D 4765 Pacific Street Rocklin, CA 95677	PH: (916) 630-SHED
<b>ackyar</b> <b>1 1 M 1 1</b> Rocklin. CA 95677	916) 63(
Rod Rod	PH: (9
2	
ÿ	
22x36 ACCESSORY DWELLING UNIT FOR: GENEREUX PROJECT ADDRESS: 121 Payran Street,	
UNIT t	
G U Stree	C 02
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CESSORY DWELLING UN GENEREUX PROJECT ADDRESS: 121 Payran Street,	Petaluma, Camorina 94992-3203 APN: 007-021-006-000
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7 TITLE 24 : Plotted on 3/4/2021 at 5:54 PM by Jeron. File Path: C:\Users\Jeron\Documents\Current Archicad Projects\2020\Backyard Unlimited\Genereux - Petaluma 9-12-20\Genereux - Petaluma 11-11-20.pln

CA Building Energy Efficiency Standards - 2019 Residential Compliance

**Registration Numbe** 

ation Date/Time: 2020-10-27 13:51:52 Report Version: 2019.1.108 Schema Version: rev 20200101

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HVAC - HEAT PUMPS												
01	02	<u> </u>	)3	04	05	06	07	08	09	10		11
Name	System Type	Number	r of Units		Heatir	lg	Cool	ing	Zonally	Compress	or un	RS Verification
Name	System Type	Number	of Offics	HSPF/COP	Cap 4	7 Cap 17	SEER	EER	Controlled	Туре		KS Vermication
Heat Pump System 1	VCHP		1	8.2	1200	0 7800	14	11.7	Not Zonal	Single Speed		at Pump System -hers-htpump
	•					FK		In				
HVAC HEAT PUMPS - I	HERS VERIFICATIO											
01	02		03	04	RS	P05 R	O V 06	DE	<b>R</b> 07	08		09
Name	Verified Airflow	Airflov	w Target	Verified	I EER	Verified SEER	Verified Refri Charge		/erified HSPF	SPF Verified Heating Cap 47		/erified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required		0	Not Req	uired	Not Required	Yes		No	Yes		Yes
VARIABLE CAPACITY H	IEAT PUMP COMP	IANCE OPTI	ON - HERS	VERIFICATION	N							
01		02	03		04	05	06	07	08	; (	09	10
Name	L	ertified w-Static IP System	Airflow Habita Room	ble in Co	less Units nditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	I Ducts	in Airflov oned RA3.3	v per and F	tified ntinuous an	Indoor Fan not Running Continuously
Heat Pump Sys	tem 1 No	t required	Requir	red Re	equired	Required	Not required	Not requ	ired Not req	uired Not re	equired	Not required

04

Cooling Unit

Heat Pump

System 1

Name

03

Heating Unit

Name

Heat Pump

System 1

05

Fan Name

CERTIFICATE OF COMPLIANCE Project Name: Genereux ADU Calculation Description: Title 24 Analysis

02

System Type

Heat pump heating cooling

SPACE CONDITIONING SYSTEMS

01

Name

Minisplit1

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07

Required

Туре

Setback

hermostat

06

Distribution

Name

08

Status

New

09

Verified

Existing

Condition

NA

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11

Cooling

Equipment

Count

10

Heating

Equipment

Count

1

Project Name: Genereux ADU IAQ (IND

Registration Number:

220-P010194445A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2019 Residential Compliance

SLAB FLOORS 01 Name Slab-on-Grade OPAQUE SURFACE CONSTRUCTIONS 01 **Construction Name** R-21 Wall Exterior Walls Attic RoofADU Ceilings (below R-30 Roof Attic + R-13

Registration Number:

**CERTIFICATE OF COMPLIANCE** Project Name: Genereux ADU Calculation Description: Title 24 Analysis

01

Name

1NDoor

OPAQUE DOORS

02

Zone

ADU

02

Surface Type

Attic Roofs

attic)

02

Side of Building

Front

04

Perimeter (ft)

110

04

Framing

2x6 @ 16 in. O. C.

2x4 @ 24 in. O. C.

2x4 @ 24 in. O. C.

03

Area (ft2)

747

03

Construction Type

Wood Framed Wall

Wood Framed

Ceiling

Wood Framed

Ceiling

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03

Area (ft<sup>2</sup>)

20

05

Edge Insul. R-value and Depth

None

06

Interior / Exterior

Continuous R-value

None / None

None / None

None / None

05

Total Cavity

R-value

R-21

R-13

R-30

CF1R-PRF-01E (Page 5 of 9)

07

Heated

No

04

U-factor

0.2

08

Assembly Layers

Inside Finish: Gypsum Board

Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco

Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood

Siding/sheathing/decking

Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 insul.

Over Ceiling Joists: R-20.9 insul.

Cavity / Frame: R-9.1 / 2x4

Inside Finish: Gypsum Board

06

**Carpeted Fraction** 

80%

07

U-factor

0.069

0.078

0.032

CERTIFICATE OF COMPLIANCE Project Name: Genereux ADU Calculation Description: Title 24 Analysis

BUILDING ENVELOPE															-				
	01	(- )			02					03	-		_	0					
Quality Insulat	ion Installation	(QII)	Quality Ir	nstallati	on of S	pray Foam Insul	ation		Building Er	nvelo	ope Air Leaka	ge		CFN	150				
Not	Required			١	Not Req	uired			No	ot Red	quired			n/	'a				
WATER HEATING SYS	TEMS																		
01		02		03			04				05			06	07				
Name	Syste	em Type	Dist	ributio	n Type	Wate	er Heate	r Nam	e (#)	Sol	lar Heating Sy	/stem	Com	pact Distribution	<b>HERS Verification</b>				
DHW Sys 1		c Hot Water DHW)	Stand	ard Dist Syster		n D	HW Hea	ter 1 (1	.)		n/a		None		None		None		n/a
WATER HEATERS																			
01	02	03		04	05	06	07		08		09	10		11	12				
Name	Heating Element Type	Tank T	ype	# Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input R or Pi	•	Tank Insulation R-value (Int/Ext)		itandby Loss or Recovery Eff.	1st Hr. R or Flow		NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition				
DHW Heater 1	Heat Pump	n/a	3	1	50	NEEA	n/a	a	n/a		n/a	80 g	al	Rheem\RheemXE5 0T10U1	Outside				
WATER HEATING - HE	RS VERIFICATIO	DN				•									•				
01	02			03		04			05		06	;		07	08				
Name	Pipe Inst	ulation	Paralle	el Pipin	g	Compact Distrik	oution	Comp	act Distribut Type	ion	<sup>1</sup> Recirculation Control		rculation Control Distribution		Shower Drain Water Heat Recovery				
DHW Sys 1 - 1/1	Not Red	quired	Not R	equired		Not Require	ed		None		Not Rec	quired		Not Required	Not Required				

Registration Number:
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CA Building Energy Efficiency Standards - 2019 Residential Compliance

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CERTIFICATE OF COMPLIANCE

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## CERTIFICATE OF COMPLIANCE Project Name: Genereux ADU Calculation Description: Title 24 Analysis

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

# Calculation Description: Title 24 Analysis

(INDOOR AIR QUALITY) FAN	IS				
01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness (%)	IAQ Recovery Effectiveness - SREIAQ Recovery Effectiveness - SRE
SFam IAQVentRpt	44	0.25	Default	0	n/a



Registration Date/Time: 2020-10-27 13:51:52 Report Version: 2019.1.108 Schema Version: rev 20200101

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1. I certify that this Certificate of Compliance documentation is accurate and complete. ocumentation Author Signature: ocumentation Author Name: Melinda Wollny Melinda Wollny ignature Date: ompany: ResCom Energy 2020-10-17 11:17:29 CEA/ HERS Certification Identification (If applicable): 3166 Suisun Bay Rd City/State/Zip: 916-373-1383 West Sacramento, CA 95691 RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Responsible Designer Name: onsible Designer Signature: Max Kellogg Max Kellogg Date Signed: Company: HERS 2020-10-27 13:51:52 EK Backyard Unlimited 4765 Pacific Street NA City/State/Zip: Rocklin, CA 95677 Phone: 916-260-2474

Registration Provider responsibility for the accuracy of the information.

Registration Number: 220-P010194445A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance CF1R-PRF-01E (Page 6 of 9) 2

Revisions 2/6/21 3/4/21 Backyard acific Street CA 95677 ) 630-°' 476 Roc H: ( . . R 0 Ц<u>Г</u> UNIT LING K ayran Stre 52-3205 CESSORY DWELL CESSORY DWELL GENEREUX ROJECT ADDRESS: 121 Payl Petaluma, California 94955 APN: 007-021-006-000 CCESS 4 22x36 Ň Ш Ē 11/11/20 NOTED Sheet Number: Total sheet count: 7

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