GENERAL NOTES:

1. GENERAL CONDITIONS OF THE CONTRACT (AIA DOCUMENT A-201) SHALL APPLY TO THIS

2. ALL WORK SHALL COMPLY WITH STATE AND LOCAL BUILDING CODES, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY STANDARDS, AND THE BEST TRADE PRACTICES.

3. THE GENERAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND TESTS AS SPECIFIED OR REQUIRED BY THE BUILDING DEPARTMENT AND SHALL PAY ALL COSTS AND FEES FOR SAME. THE CONTRACTOR SHALL SECURE ALL BUILDING PERMITS AND UPON COMPLETION OF THE PROJECT (PRIOR TO FINAL PAYMENT) DELIVER TO THE OWNER A CERTIFICATE OF OCCUPANCY OR USE FROM THE BUILDING DEPARTMENT.

4. ALL PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY STATE LICENSED CONTRACTORS. CONTRACTORS SHALL SUBMIT ALL REQUIRED PERMITS, CERTIFICATES, AND SIGN-OFFS TO OWNER AND ARCHITECT FOR THEIR RECORDS.

5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS. BE FAMILIAR WITH THE EXISTING CONDITIONS. AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMISSION OF CONSTRUCTION PROPOSAL AND BEFORE BEGINNING WORK. THE DRAWINGS REFLECT CONDITIONS REASONABLY INFERRED FROM THE EXISTING VISIBLE CONDITIONS BUT CANNOT BE GUARANTEED BY THE ARCHITECT. DRAWINGS MAY BE SCALED FOR ESTIMATING PURPOSES AND FOR GENERAL REFERENCE ONLY. FOR ALL OTHER DIMENSIONS OR LOCATIONS CONSULT THE ARCHITECT OR REFER TO DIMENSIONS ON DRAWINGS. VERIFY ALL DIMENSIONS IN THE FIELD.

6. THE GENERAL CONTRACTOR SHALL LAY OUT ALL WORK AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS FOR TRADES SUCH AS ELECTRICAL, PLUMBING, ETC.

7. THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO THE PREMISES

8. THE CONSTRUCTION MANAGER SHALL MAKE THE PREMISES SECURE FROM THE ELEMENTS AND TRESPASS ON A DAILY BASIS.

9. THE GENERAL CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE FREE AND CLEAR OF OCCUPANCY BY OWNER. ALL MATERIALS AND DEBRIS RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY CARE SHALL BE TAKEN DURING CONSTRUCTION THAT NO DEBRIS OR MATERIALS ARE

10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW CONDITIONS AND MATERIALS ON THE SITE. ANY DAMAGE CAUSED BY OR DURING THE EXECUTION OF THE WORK IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

11. NO CUTTING OR DAMAGE TO BUILDING STRUCTURAL COMPONENTS WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.

12. ALL UTILITIES SHALL BE CONNECTED TO PROVIDE GAS, ELECTRIC, AND WATER TO ALL EQUIPMENT WHETHER SAID EQUIPMENT IS IN CONTRACT OR NOT. EQUIPMENT SHALL BE GUARANTEED TO FUNCTION PROPERLY UPON COMPLETION.

13. MANUFACTURER'S STANDARD SPECIFICATIONS AND MATERIALS APPROVED FOR PROJECT USE ARE HEREBY MADE PART OF THESE NOTES WITH SAME FORCE AND EFFECT AS IF WRITTEN OUT IN FULL HEREIN. ALL APPLIANCES, FIXTURES, EQUIPMENT, HARDWARE, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND

14. WRITTEN WORDS TAKE PRECEDENCE OVER DRAWN LINES. LARGE-SCALE DETAILS AND PLANS TAKE PRECEDENCE OVER SMALLER DETAILS AND PLANS. SHOULD A CONFLICT ARRIVE BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE REQUIREMENTS DEEMED MOST STRINGENT SHALL BE USED.

ACCEPTABLE CONSTRUCTION, INSTALLATION, OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ARCHITECT SHALL BE INCLUDED IN THE WORK AS IF IT WERE SPECIFIED OR INDICATED ON THE DRAWINGS

16. ALL ARCHITECTURAL DRAWINGS AND CONSTRUCTION NOTES ARE COMPLIMENTARY WHAT IS INDICATED AND CALLED FOR BY ONE SHALL BE BINDING AS THOUGH CALLED FOR

17. NO DEVIATION FROM THE DRAWINGS OR SPECIFICATIONS OR INTENT OF SAME SHALL BE MADE WITHOUT THE ARCHITECT'S WRITTEN AUTHORIZATION.

18. ALL DIMENSIONS ARE TO FACE OF FINISH STUD OR CENTERLINE OF STRUCTURE UNLESS OTHERWISE NOTED.

UNINHABITABLE ATTICS WITH LIMITED STORAGE..20PSF 19. FLOOR LIVE LOADS: SLEEPING AREAS... ...40PSF ALL OTHER AREAS.

ROOF LIVE LOADS: 20 PSF FLOOD ZONE: X= OUTSIDE A KNOWN FLOOD HAZARD ZONE

NEW SECONDARY DWELLING

18743 COUNTY RD 97 WOODLAND, CA 95695 APN: 025-480-010-000

PROJECT SCOPE:

CONSTRUCT A NEW 1 BED 1 BATH SINGLE STORY SECONDARY DWELLING AT THE REAR YARD OF THE PROPERTY. NO WORK TO MAIN HOUSE

PROJECT INFORMATION: PROJECT DIRECTORY: CONSTRUCTION TYPE: V-B PROJECT DESIGNER: MJH DESIGN MANUEL J. HERNANDEZ **BUILDING EXISTING & UNSPRINKLERED** 1802 Egret Lane Hayward, CA 94545 SECONDARY DWELLING TO BE SPRINKLERED 510.600.7926 manuelh10@live.com **ZONING: A-N** WUI: NO STRUCTURAL ENGINEER: Imad Abu-Markhieh Civil & Structrual Engineering OCCUPANCY: R3 916.468.3768 markhieh@gmx.com YEAR BUILT: 1989 STORIES: 1 STORY **GENERAL CONTRACTOR:** Redwood ADU LLC 2635 57th Street, **EXISTING UNITS:** ' Sacramento, CA 95817 916.619.9585 PROPOSED UNITS: 2 max@redwoodadu.com CSLB LIC #1098046 PARCEL AREA: 21.76 ACRES (E) MAIN RESIDENCE: 2,088 SF **DRAWING INDEX:** PROPOSED SECONDARY UNIT: 1,200 SF

Sheet Name Sheet Number TITLE SHEET A0.2 EXISTING SITE PLAN PROPOSED SITE PLAN A0.4 SEPTIC SITE PLAN A2.0 LEVEL 1 PLANS A2.1 ROOF PLAN A2.3 FOUNDATION AND FRAMING PLAN A2.4 SHEAR WALL SCHEDULE MECH PLAN **EXTERIOR ELEVATIONS** A5.0 SECTIONS A6.0 SCHEDULES A9.0 DETAILS A9.1 DETAILS SD1 STRUCTURAL DETAILS SN STRUCTURAL NOTES T24 TITLE 24 TITLE 24

DEMOLITION NOTES:

. METHOD OF DEMOLITION REQUIRED TO COMPLETE THE WORK TO BE PER STANDARD INDUSTRY PRACTICES AND WITHIN LIMITATIONS OF GOVERNING REGULATIONS.

2. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE DESIGN INTENT ARE ENCOUNTERED, CONTRACTOR IS TO NOTIFY OWNER AND ARCHITECT PRIOR TO PROCEEDING.

3. VERIFY LOCATION OF REQUIRED STRUCTURAL FRAMING PRIOR TO REMOVAL. DO NOT REMOVE ANY ELEMENT THAT MIGHT RESULT IN A STRUCTURAL DEFICIENCY WITHOUT PROPER TEMPORARY SHORING.

4. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED. REINSTALLED OR INDICATED AS OWNERS PROPERTY, DEMOLITION MATERIALS SHALL BECOME CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM ON SITE. COMPLY WITH LOCAL REQUIREMENTS FOR OFF HAULING AND DISPOSAL

5. NOTIFY DESIGNER AND OWNER OF SUSPECTED HAZARDOUS MATERIAL. ANY HAZARDOUS MATERIAL SHALL BE REMOVED BY LICENSED HAZMAT CONTRACTOR.

6. PROVIDE TEMPORARY PROTECTION FOR ANY EXISTING TREES OR LANDSCAPING TO REMAIN.

7. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

8. THE EXISTING BUILDING SHALL BE PROTECTED DURING THE COURSE OF DEMOLITION. 9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL

10. ALL REQUIRED EXCAVATION SHALL BE CLEARED OF ALL CONCRETE AND ORGANIC MATERIALS PRIOR TO BACKFILLING. ALL EXCAVATION SHALL BE FILLED UNDER THE SUPERVISION OF A SOILS ENGINEER WHERE APPLICABLE OR TO ACCEPTED INDUSTRY

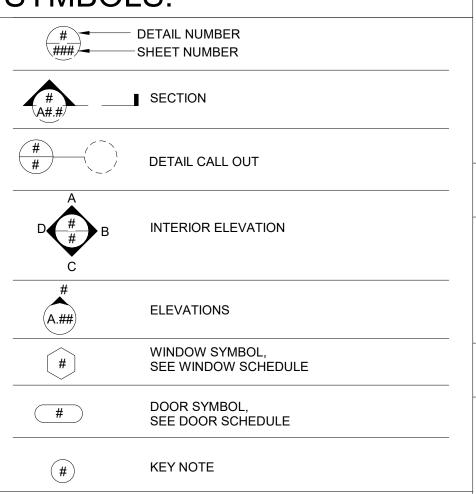
11. SAW CUT EXISTING CONCRETE TO BE DEMOLISHED WHERE EVER FEASIBLE.

JURISDICTION PRIOR TO COMMENCING DEMOLITION.

12. OWNER TO RETAIN POSSESSION OF ALL DOORS, WINDOWS, BATHROOM MIRRORS, AND BATHROOM MEDICINE CABINET.

13. DEMOLITION PLAN IS A GRAPHIC REPRESENTATION OF SCOPE OF DEMOLITION BUT IS NOT INTENDED TO BE COMPREHENSIVE. CONTRACTOR TO REVIEW EXISTING CONDITIONS RELATIVE TO SCOPE OF NEW WORK ON ALL ARCHITECTURAL AND STRUCTURAL PLAN FOR ACTUAL DEMOLITION REQUIREMENTS, PRIOR TO FINALIZING BID. CONTACT DESIGNER IN THE EVENT OF ANY CONFLICTS OR DISCREPANCIES.

SYMBOLS:



CODE COMPLIANCE:

2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE 2022 CALIFORNIA FIRE CODE ALL YOLO COUNTY ORDINANCES

DEFFERED SUBMITTALS:

1. PV SYSTEM IS DEFERRED, CONTRACTOR TO PROVIDE PV PLANS TO CITY FOR REVIEW AND APPROVAL

2. FIRE SPRINKLER SYSTEM DESIGN & ENGINEERING SHALL BE SUBMITTED FOR APPROVALS PRIOR TO INSTALLATION

HERS FEATURE SUMMARY:

THE FOLLOWING IS A SUMMARY OF THE FEATURES THAT MUST BE FIELD-VERIFIED BY A CERTIFIED HERS RATER AS A CONDITION FOR MEETING THE MODELED ENERGY PERFORMANCE FOR THIS COMPUTER ANALYSIS. ADDITIONAL DETAIL IS PROVIDED IN THE BUILDING TABLES BELOW. REGISTERED

CF2RS AND CF3RS ARE REQUIRED TO BE COMPLETED IN THE HERS

QUALITY INSULATION INSTALLATION (QII)

INDOOR AIR QUALITY VENTILATION

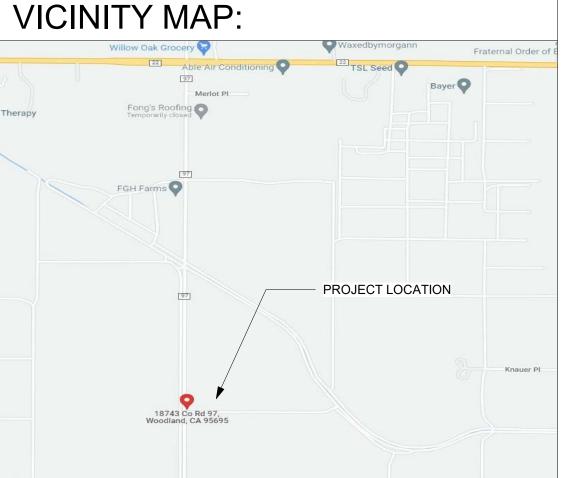
 KITCHEN RANGE HOOD MINIMUM AIRFLOW

VERIFIED REFRIGERANT CHARGE

FAN EFFICACY WATTS/CFM

 VERIFIED HEAT PUMP RATED HEATING CAPACITY DUCT LEAKAGE TESTING

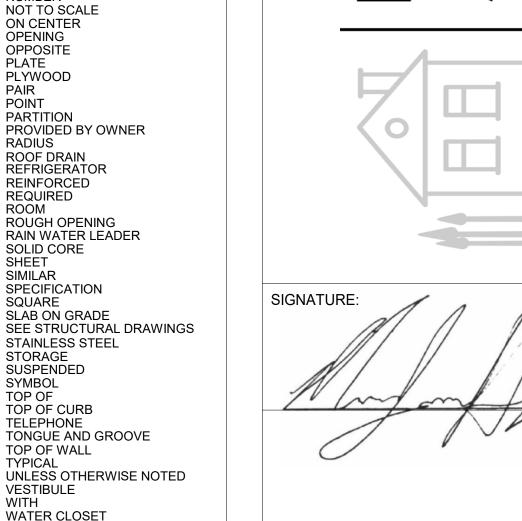
 DUCTS LOCATED ENTIRELY IN CONDITIONED SPACE CONFIRMED BY DUCT LEAKAGE TESTING



HOSE BIBB HOLLOW CORE HR. HGT HWD INSUL HOUR CENTERLINE HEIGHT POUND OR NUMBER HARDWOOD INSULATION **INTERIOR** KITCHEN **ADJUSTABLE AGGREGATE** LAMINATE LAV. MAX LAVATORY ALUMINUM MAXIMUM **APPROXIMATI** MECH ARCHITECTUR/ **MECHANICAI** MIN. M.O. N.I.C. NO. N.T.S. O.C. OPNG **ASPHALT** MINIMUM MASONRY OPENING **BITUMINOUS** NOT IN CONTRACT BUILDING NOT TO SCALE BLOCKING ON CENTER **CERAMIC** OPPOSITE PLATE CEILING CLOSET **PLYWOOD** CONCRETE POINT PART. P.B.O. CORRIDOR PROVIDED BY OWNER ROOF DRAIN REFRIGERATOR DIAMETER DIMENSION REINF REQ. RM. R.O. R.W.L. REINFORCED **REQUIRED** DOOR DRAWING **ROUGH OPENING EXPANSION JOINT** RAIN WATER LEADER S.C. SHT. SIM. SOLID CORE **ELEVATION ELECTRICAL** SIMILAR SPEC. SQ. S.O.G. S.S.D. **SPECIFICATION EXTERIOR** SQUARE **FLOOR DRAIN** SLAB ON GRADE SEE STRUCTURAL DRAWINGS **FLOOR** STAINLESS STEEL FLUORESCENT STORAGE **FACE OF CONCRETE** SUSP SYM. T.O. T.O.C. SUSPENDED FACE OF FINISH SYMBOL FACE OF STUDS FOOT OR FEET TOP OF CURB FOOTING TELEPHONE TEL. T.& G. **FURRING** TONGUE AND GROOVE GAUGE T.O.W. TYP. U.O.N. VEST. **GALVANIZED** TOP OF WALL

WOOD WITHOUT

ABBREVIATIONS:



S

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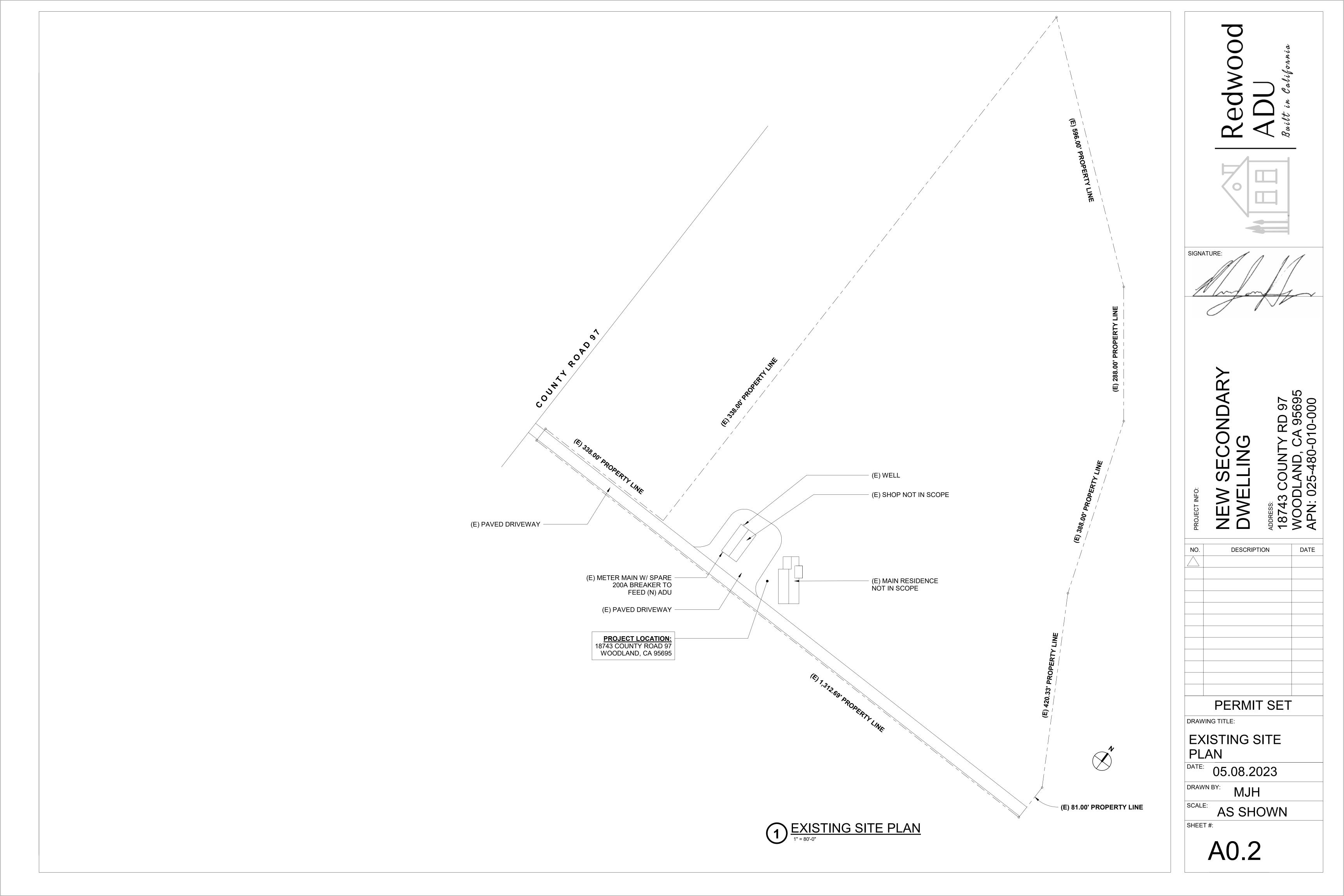
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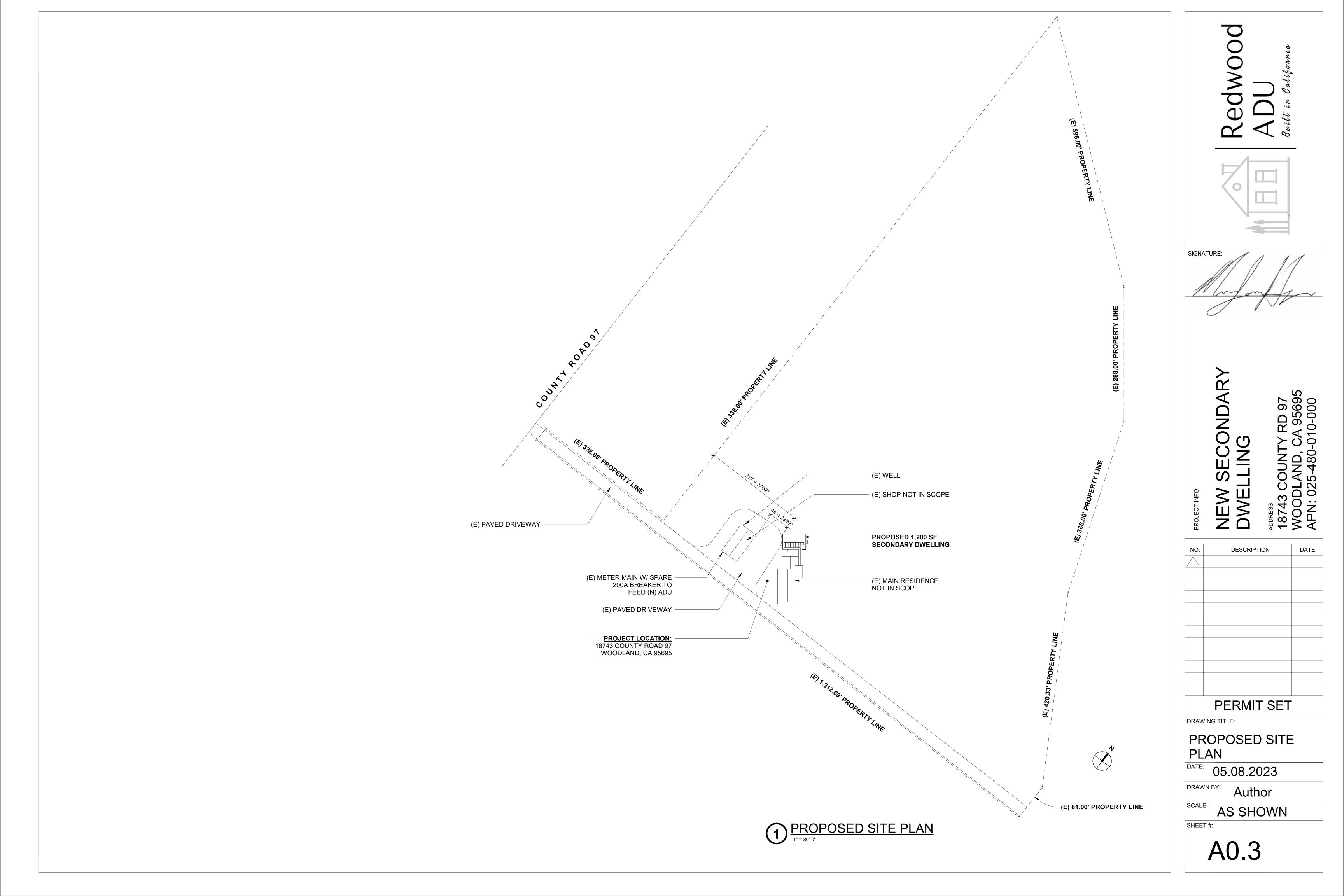
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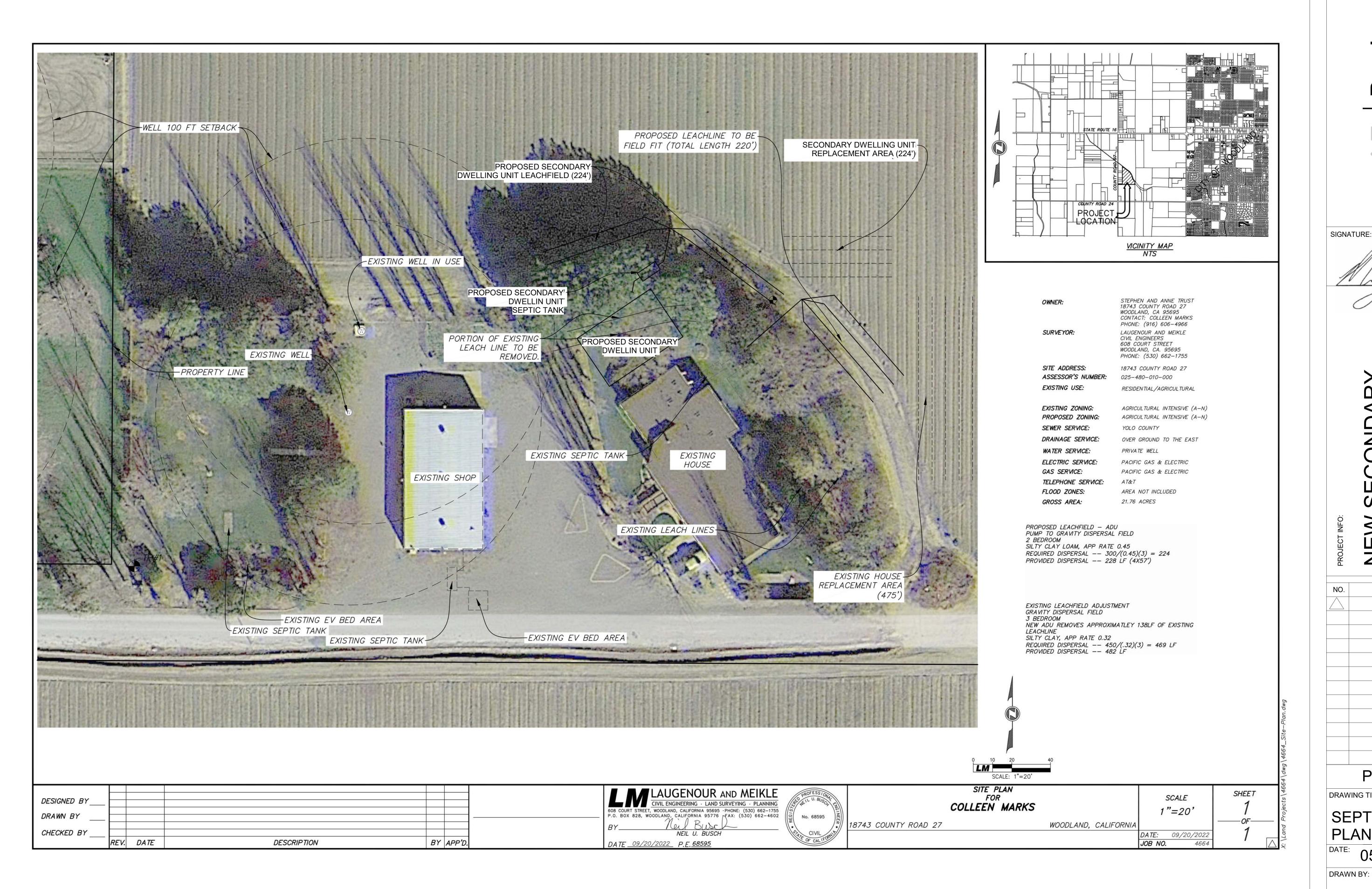
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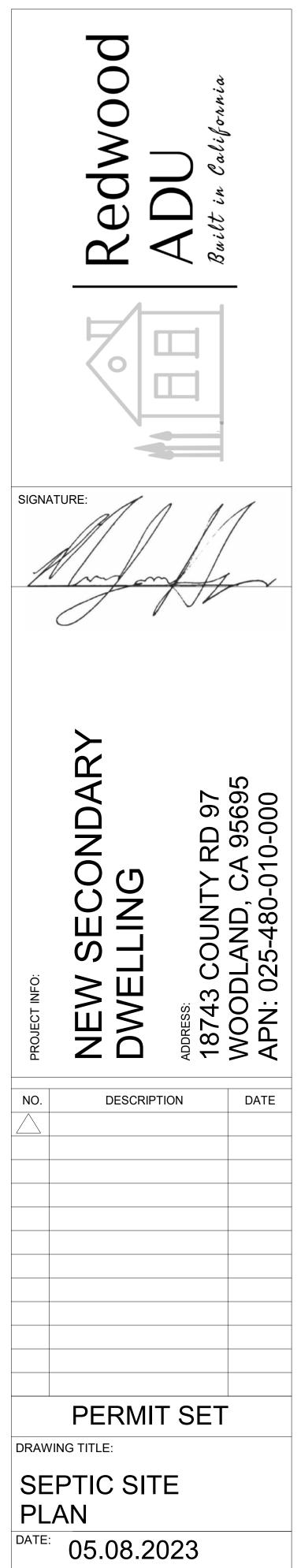
05.08.2023

AS SHOWN









Author

AS SHOWN

WALL LEGEND

EXTERIOR WALL: 2x6 STUD WALL SEE EXTERIOR ELEVATIONS FOR FINISHES

INTERIOR WALL: 2x4 W/ 1/2" GYPSUM WALL BOARD (UON)

FLOOR PLAN NOTES

- 1. INTERIOR WALL AND CEILING FINISHES SHALL NOT EXCEED FLAME SPREAD CLASSIFICATIONS DICTATED BY ALL APPLICABLE BUILDING CODES
- 2. GYPSUM BOARD AND CEILING SYSTEMS SHALL CONFORM TO ALL LOCAL GOVERNING BUILDING CODES AND ORDINANCES
- 3. GYPSUM BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY.
- 4. OUTSIDE RECEPTACLES SHALL BE WEATHER PROOF
- 5. ALL WINDOWS SHALL BE DUAL PANE
- 6. ALL NEW DOORS TO BE SOLID CORE SINGLE PANEL WOOD DOORS
- 7. ALL BEDROOMS AND HALL AREAS THAT ACCESS HABITABLE ROOMS SHALL HAVE SMOKE DETECTORS, HARD WIRED WITH BATTERY BACK UP
- 8. SMOKE DETECTORS ARE REQUIRED IN EACH ROOM USED FOR SLEEPING, CENTRALLY LOCATED IN THE WALL OR CEILING, IN CORRIDORS PROVIDING ACCESS TO EACH SEPARATE SLEEPING AREA, AT EACH FLOOR OR BASEMENT LEVEL AND IN CLOSE PROXIMITY TO THE STAIRWAY.
- 9. ALL GLASS AND GLAZING SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AS WELL AS THE US CONSUMER PRODUCT SAFETY COMMISSION, SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS.
- 10. BATHTUB, SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NON ABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR PER CRC R307.2
- 11. PROVIDE 30"x22" ATTIC ACCESS W/ SWITCH AND LIGHT AND RECP
- 12. THERE SHALL BE A MINIMUM 5% GRADE AWAY FROM ALL FOUNDATION WALLS. CRC R401.3
- SLEEPING ROOMS SHALL HAVE A WINDOW OR EXTERIOR DOOR FOR EMERGENCY ESCAPE. SECTION R310.
 A) WINDOWS MUST HAVE AN OPENABLE AREA OF AT LEAST 5.7 SQUARE FEET, WITH THE MINIMUM OPENABLE WIDTH 20" AND THE MINIMUM OPENABLE HEIGHT 24".
 - B) THE BOTTOM **OF THE CLEAR OPENING** SHALL NOT EXCEED 44" ABOVE THE FLOOR. DO NOT MEASURE TO THE WINDOW SILL. THIS GENERALLY APPLIES TO WINDOWS THAT HAVE A HEIGHT OF 3' OR LESS.
 - C) SUCH OPENINGS SHALL OPEN DIRECTLY INTO A PUBLIC WAY OR A COURT THAT OPENS TO A PUBLIC WAY (4-SIDED COURTS ARE PROHIBITED).
 - D) IF SUCH OPENINGS OCCUR AT A PATIO, THE PATIO MAY NOT BE ENCLOSED. APPENDIX H, SECTION AH103.2.
 - E) THE EMERGENCY DOOR OR WINDOW SHALL BE OPENABLE FROM THE INSIDE TO PROVIDE A FULL, CLEAR OPENING WITHOUT THE USE OF ANY KEYS OR TOOLS.
 - F) FOR EGRESS OPENINGS AT WINDOW WELLS OR AREA WELLS, REFER TO SECTION R310.2 OR R310.3 FOR REQUIREMENTS

WATER CLOSET REQUIREMENTS

- 1. THE WATER CLOSET SHALL HAVE A CLEARANCE OF 30 INCHES WIDE (15 INCHES ON CENTER) AND 24 INCHES IN FRONT. (2019 CPC 402.5)
- 2. WHERE THE WATER CLOSET (OR OTHER PLUMBING FIXTURE) COMES INTO CONTACT WITH THE WALL OR FLOOR, THE JOINT SHALL BE CAULKED AND SEALED TO BE WATERTIGHT. (2019 CPC 402.2)
- TEMPERED GLAZING (2019 CBC 2406.4, 2403.1 AND CRC R308.1, R308.4)
 TEMPERED GLAZING SHALL BE INSTALLED IN THE LOCATIONS LISTED BELOW.
 TEMPERED GLAZING SHALL BE PERMANENTLY IDENTIFIED BY A
 MANUFACTURER MARKING THAT IS PERMANENTLY APPLIED AND CANNOT BE
 REMOVED WITHOUT BEING DESTROYED (E.G. SAND BLASTED, ACID ETCHED,
 CERAMIC FIRED, LASER ETCHED, OR EMBOSSED).
- 3. WITHIN A PORTION OF WALL ENCLOSING A TUB/SHOWER WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE STANDING SURFACE AND DRAIN INLET.
- 4. WITHIN 60 INCHES OF A TUB/SHOWER WHERE THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALING SURFACE.
- GLAZING ON THE HINGE-SIDE OF AN IN-SWINGING DOOR THAT IS INSTALLED PERPENDICULAR TO A DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE DOOR.

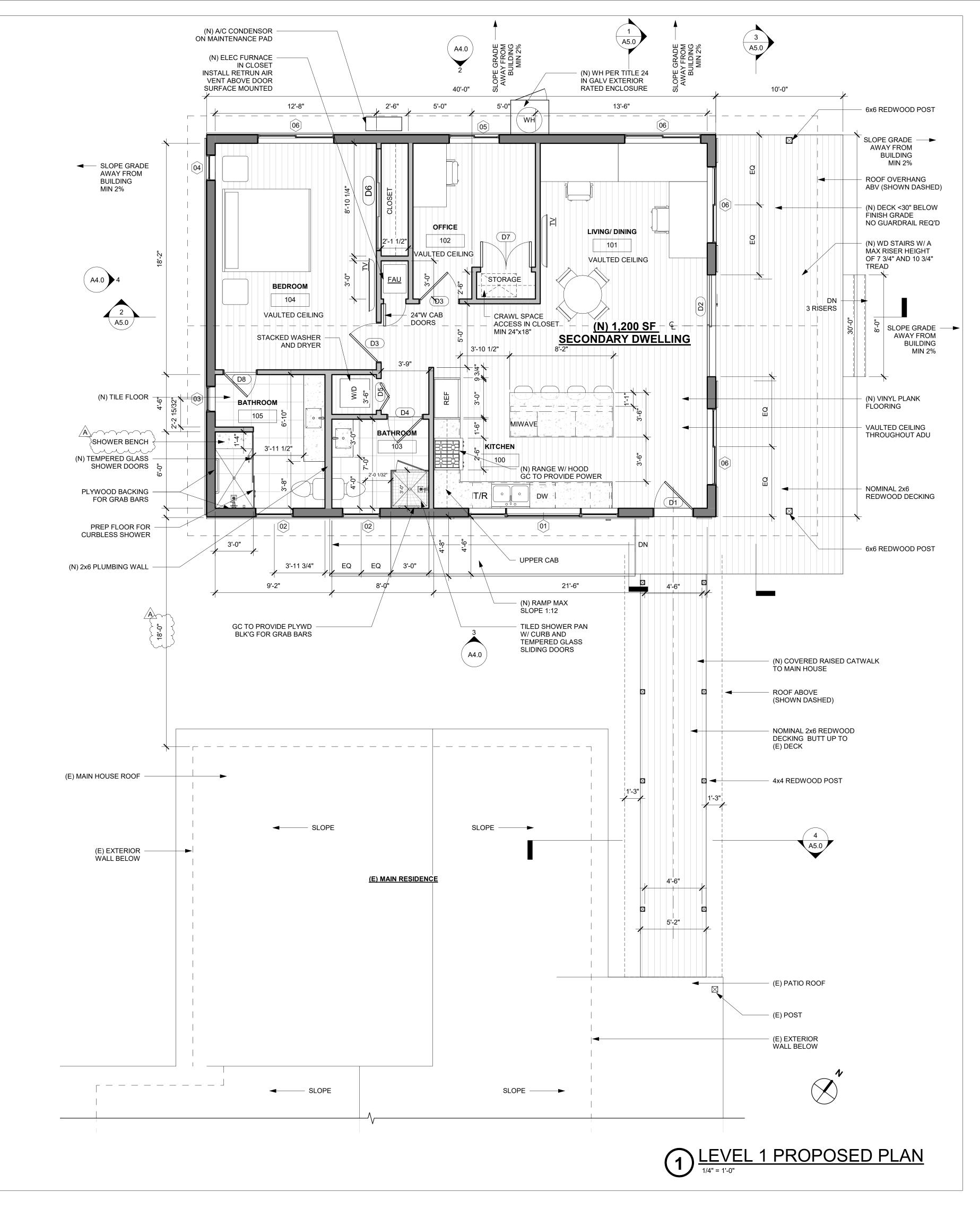
GREEN BUILDING NOTES

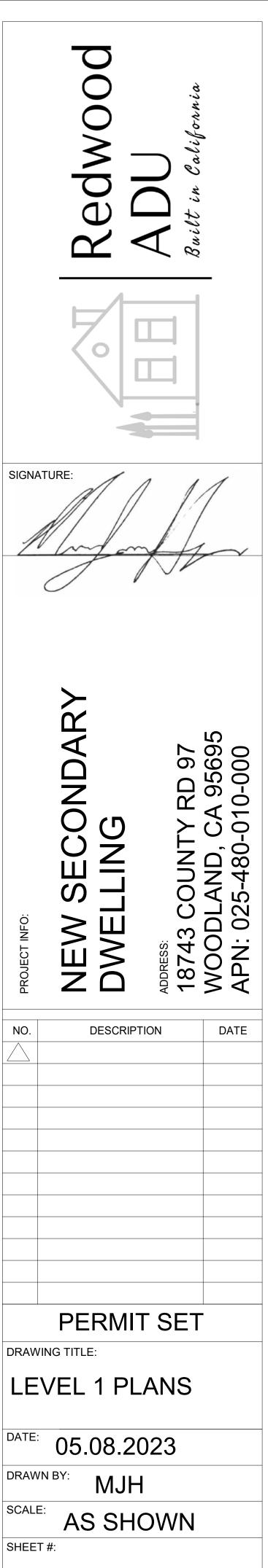
- 1. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME FOR DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. (CGBSC SEC.4.303.1.1 AND CPC SEC.403.2.1)
- SHOWER HEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8
 GALLONS PER MINUTE AT 80 PSI. (CGBSC SEC.4.303.1.3.1 AND CPC SEC.408.2)
 WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWER HEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE
- SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. (CGBSC SEC.4.303.1.3.2)

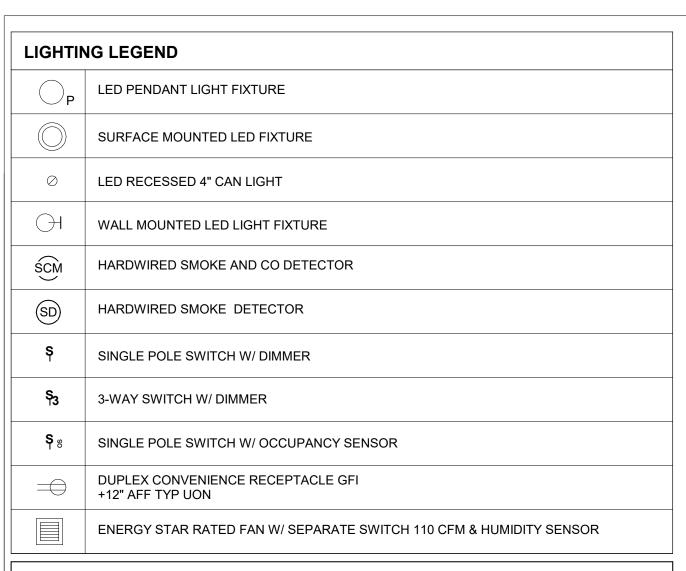
 4. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI AND SHALL NOT BE LESS THAN 0.8 GALLONS PER
- MINUTE AT 20 PSI. (CGBSC SEC.4.303.1.4.1 AND CPC SEC.403.7)

 THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW RATE ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI. (CGBSC SEC.4.303.1.4.4 AND CPC SEC.403.6)
- 6. EACH BATHROOM THAT CONTAINS A BATHTUB, SHOWER OR TUB/SHOWER COMBINATION SHALL BE MECHANICALLY VENTILATED WITH AN ENERGY STAR COMPLIANT FAN AND, UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, CONTROLLED BY A HUMIDITY CONTROL. (CRC SEC.R303.3.1, CMC SEC.402.5 AND CGBSC SEC.4.506.1)
- 7. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 PERCENT OR LESS TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
- (CGBSC SEC.4.506.1(A))

 8. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E. BUILT-IN). (CGBSC SEC.4.506.1(B))







ELECTRICAL NOTES

1. DIMMERS ON ALL LIGHTS SERVING LIVING ROOM & KITCHEN SPACES.

2. ALL LIGHT FIXTURES SHALL CONTAIN BULBS THAT ARE LABELED AS JA8-2016 (JA8-2016-E FOR SEALED LENS OR RECESSED FIXTURE). SCREW BASE BULBS ARE PERMITTED, EXCEPT IN RECESSED LIGHTING FIXTURES

3. ALL BATHROOM/ LAUNDRY ROOM/ UTILITY ROOM LIGHT SWITCHES TO BE MOTION DETECTOR-TYPE W/ 30 MINUTE TIME DELAY OFF OPERATION. FANS SHALL BE ENERGY STAR COMPLIANT, AND TERMINATE OUTSIDE THE BUILDING. FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL CAPABLE OF ADJUSTMENT BETWEEN RELATIVE HUMIDITY RANGE LESS THAN OR EQUAL TO 50% TO A MAXIMUM OF 80%.

4. ALL LIGHT FIXTURES TO BE HIGH EFFICACY

5. RECEPTACLE OUTLETS SHALL BE PROVIDED ON WALL SPACES 2 FT OR GREATER, AND NO MORE THAN 6'-0" FROM THE EDGE OF ANY WALL SURFACE.

6. RECESSED LIGHTING SHALL BE LISTED AS IC (ZERO CLEARANCE TO INSULATION) AND AT (AIR TIGHT), BE SEALED/CAULKED BETWEEN THE FIXTURE HOUSING AND CEILING, SHALL NOT CONTAIN A SCREW BASE SOCKET, AND CONTAIN BULBS MARKED WITH JA8-2016-E EFFICIENCY LABEL

7. OUTDOOR LIGHTING IS TO BE HIGH EFFICACY THAT IS CONTROLLED BY AN ON AND OFF SWITCH IN ADDITION TO ONE OF THE FOLLOWING PER CA ENERGY CODE SEC. 150.0(K)3A:

- PHOTOCONTROL AND MOTION SENSOR PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL
- ASTRONOMICAL TIME SWITCH CONTROL

ENERGY MANAGEMENT CONTROL SYSTEM

8. NEW ELECTRICAL RECEPTACLES TO BE TAMPER RESISTANT. CEC ARTICLE 406.12 E2. ALL BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, LAUNDRY ROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS/SPACES SHALL HAVE A LISTED COMBINATION-TYPE ARC-FAULT CIRCUIT INTERRUPTER (AFCI). CEC ARTICLE 210.12

9. AT LEAST ONE 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLET(S) AND SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. CEC ARTICLE

10. COUNTER TOPS WIDER THAN 12" REQUIRE RECEPTACLES. RECEPTACLE SHALL BE NO HIGHER THAN 20" ABOVE THE COUNTER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24", MEASURED HORIZONTALLY FROM AN OUTLET IN THAT

11. EACH BATHROOM SHALL BE PROVIDED WITH THE FOLLOWING:

A. ENERGY STAR FANS DUCTED TO TERMINATE OUTSIDE THE BUILDING B. FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL OR FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM.

C. HUMIDITY CONTROLS WITH MANUAL OR AUTOMATIC MEANS OF ADJUSTMNET, CAPABLE OF ADJUSTMENT BETWEEN RELATIVE HUMIDITY RANGE OF < 50 PERCENT TO A MAX OF 80%.

12. ALL EXTERIOR LIGHTING WILL BE DOWNWARD DIRECTED AND SHIELDED FROM NEIGHBORING VIEWS

13. SMOKE ALARMS SHALL BE LISTED AS COMPLYING W/ UL 217 & BE INSTALLED AND MAINTAINED IN ACCORDANCE W/ NFPA 720 & THE MANUFACTURER'S INSTRUCTIONS

14. CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING W/ UL 2034 & BE INSTALLED AND MAINTAINED IN ACCORDANCE W/ NFPA 720 & THE MANUFACTURER'S INSTRUCTIONS

15. LAUNDRY RECEPTACLE OUTLET TO BE SUPPLIED BY A DEDICATED 20 AMP BRANCH CIRCTUI PER CEC 210.11(C)(2)

16. PROVIDE A 30 AMP CIRCUIT FOR THE ELECTRIC CLOTHES DRYER. CEC 220.54

17. SMOKE ALARMS SHALL BE LISTED AS COMPLYING W/ UL 217 & BE INSTALLED AND MAINTAINED IN ACCORDANCE W/ NFPA 720 & THE ANUFACTURER'S INSTRUCTIONS

18. CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING W/ UL 2034 & BE INSTALLED AND MAINTAINED IN ACCORDANCE W/ NFPA 720 & THE MANUFACTURER'S INSTRUCTIONS

21. GC TO COORDINATE ALL OUTLET AND SWITCH LOCATION W/ THE OWNER

PLUMBING NOTES

FREE OF DEFECTS.

1. WATER CLOSET TO BE 1.28 GALLONS PER FLUSH MAXIMUM OR DUAL FLUSH PER CPC 411.2.

2. LAVATORY FAUCET TO BE 1.2 GALLONS PER MINUTE MAXIMUM PER CPC 407.2.1.2.

3. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF 2.0 GALLONS (7.5L) PER MINUTE MEASURED AT 80 psi.

4. WHERE A FIXTURE COMES IN CONTACT WITH THE WALL OR FLOOR, THE JOINT BETWEEN THE FIXTURE AND THE WALL FOOR OR SHALL BE MADE WATERTIGHT.

HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE.

6. BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER

SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR. 7. GYPSUM BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER,

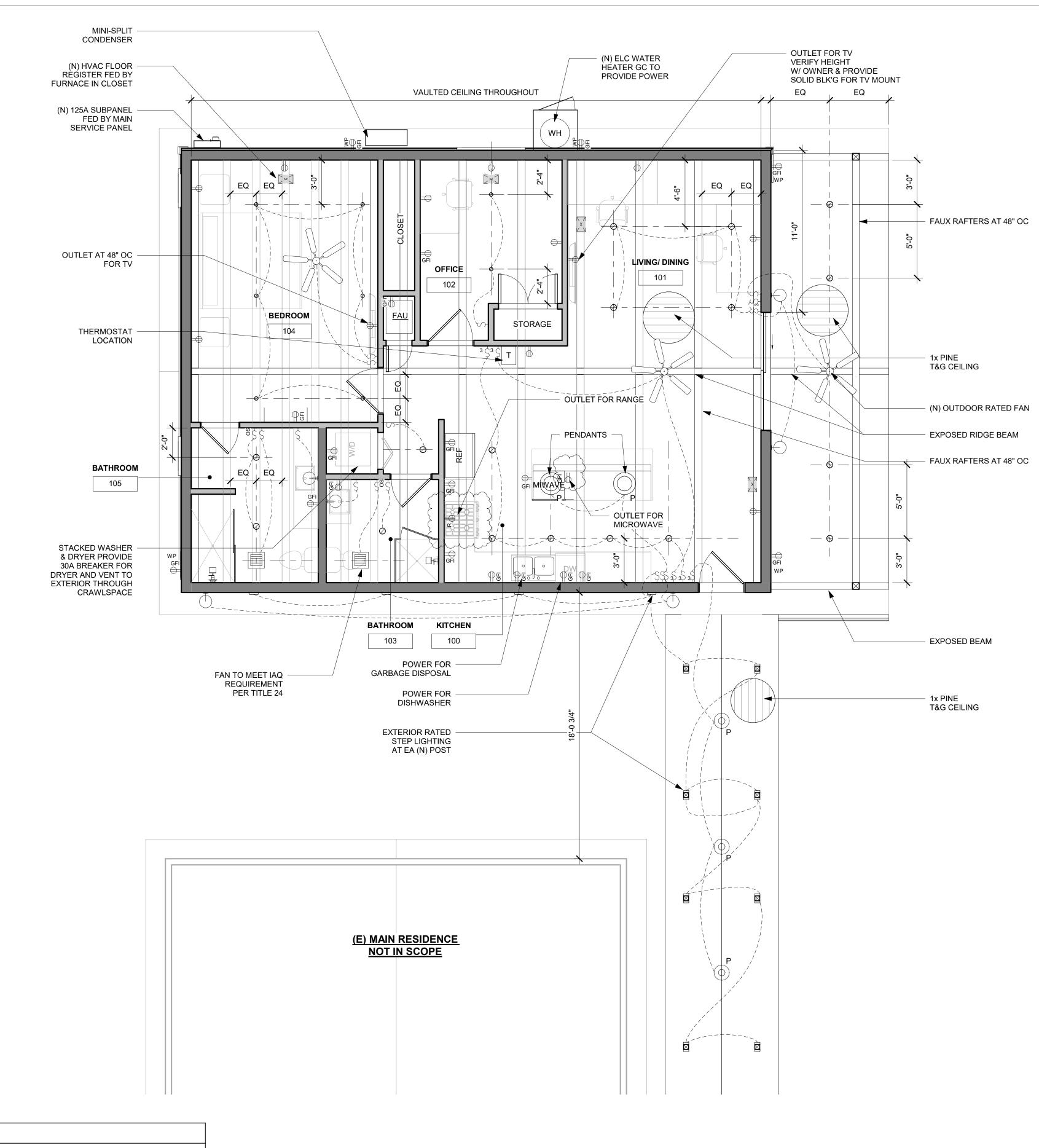
OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY CRC R308.4 8. ALL PIPE, FITTINGS, TRAPS, FIXTURES, MATERIALS AND DEVICES USED IN A PLUMBING SYSTEM SHALL BE LISTED OR LABELED (THIRD-PARTY CERTIFIED) BY A LISTING AGENCY AND SHALL BE

9. PLUMBING WASTE VENTS 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 IN EVERY DIRECTIN FROM A LOT LINE, ALLEY AND STREET EXCEPTED. CPC 906.2

10. THE GRADE OF HORIZONTAL DRAINAGE PIPE SHALL NOT BE LESS THAN 1/4" PER FOOT CPC

11. DOMESTIC CLOTHES WASHER STANDPIPE SIZE SHALL BE 2" MIN DIA. CPC TABLE 7-3

12. WATER PIPING TO BE UPONOR PEX BRAND AND UTILIZE MONIFOLD SYSTEM W/ 3/4" TRUNK & 1/2" DROPS



MECHANICAL NOTES

1. ALL INTERIOR SPACES TO BE PROVIDED WITH SPACE HEATING PER CBC 1204.1

2. GAS VENTS OF WATER HEATER AND FURNACE SHALL TERMINATE 4'-0" FROM PROPERTY LINE. THEY SHALL NOT TERMINATE ADJACENT TO THE WALL PER CMC 802.6.2.3. WALL TERMINATION SHALL COMPLY WITH CMC 802.8.6

3. ALL EXHAUST DUCTS SHALL BE A SMOOTH INTERIOR SURFACE MIN 4". TERMINATE TO THE OUTSIDE OF THE BUILDING, EQUP WITH BACK-DRAFT DAMPER

4. COMBUSTION AIR SHALL MEET THE REQUIREMENTS OF CMC CHAPTER 7. ENV AIR DUCTS SHALL TERMINATE 3' FROM THE

PROPERTY LINE AND 3' FROM OPENINGS INTO THE BUILDING PER CMC 504.5. PROVIDE WITH BACK-DRAFT DAMPERS PER CMC 504.1

5. ENVIRONMENTAL AIR DUCTS SHALL TERMINATE 3'-0" FROM THE PROPERTY LINE AND BACK-DRAFT DAMPERS PER CMC 504.1.1 EXHAUST SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY

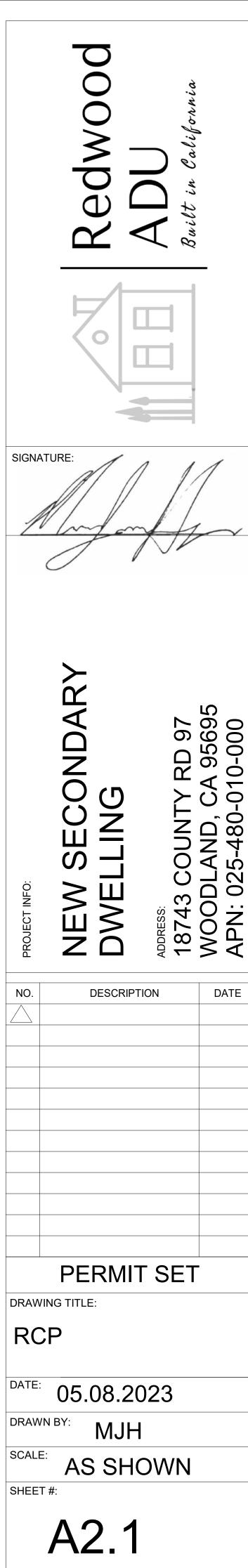
6. DOMESTIC RANGE HOOD VENTS SHALL MEET THE REQUIREMENTS OF CMC 504.3 AND COMPLY CMC TABLE 403.7

7. DOMESTIC RANGE HOOD EXHUAST REQUIRES A MIN RATE OF 100 CFM MEETING THE REQUIREMENTS OF ASHRAE 62.2

8. (N) FURNACE IN CRAWL SPACE SHALL BE INSTALLED PER MANUF INSTALLATION INSTRUCTIONS AND PER CMC 304.4, 607 & 904

9. THE ENTIRE GROUND SURFACE OF THE UNDER-FLOOR SPACE SHALL BE COVERED WITH A VAPOR BARRIER HAVING A THICKNESS NOT LESS THAN 4 MILS (0.1 MM) AND A FLAME-SPREAD INDEX OF NOT MORE THAN 200 CMC 607.13





DATE

ROOF VENT CALCULATION:

ATTIC AREA: 1,200 SQ FT

TOTAL NET FREE VENTILATING AREA: 1,200/150 = 8 SQ FT

ROOF REQUIRED VENT AREA: 8 SQ FT

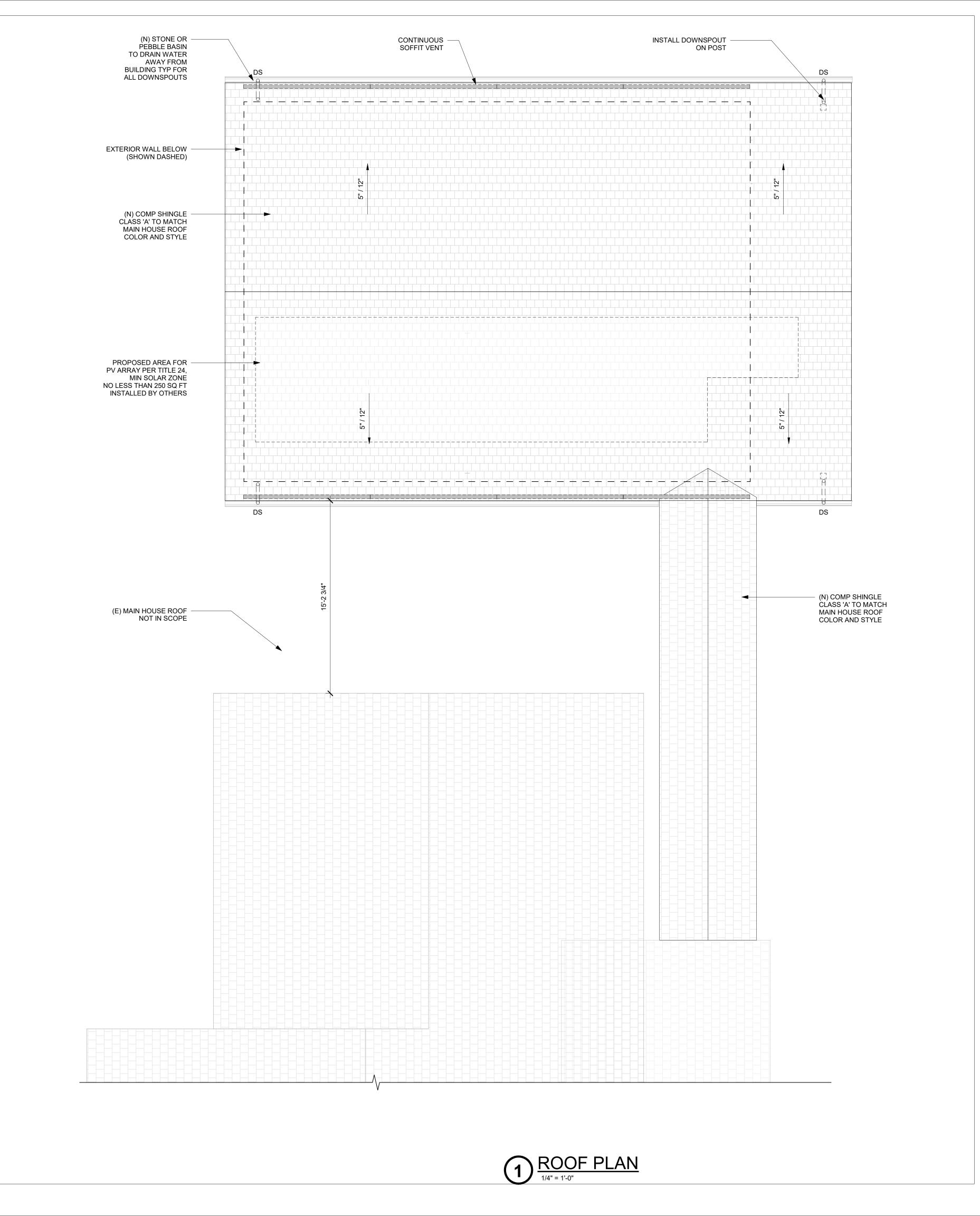
VULCAN VSC35120FF 3.5" X 120" FLANGE FRONT CONTINUOUS SOFFIT VENT N.F.A.= 168. IN. = 1.2 S.F 7 x VULCAN VSC35120FF = $1.2 \times 7 = 8.4$

8.4 > 8 VENT AREA PROVIDED IS GREATER THAN REQUIRED

NOTES:

1. FOR INFO NOT NOTED SEE A2.0

- 2. ALL NEW CEILINGS EXPOSED TO UNCONDITIONED SPACE SHALL BE INSULATED WITH MIN R-30 INSULATION.
- 3. OPENINGS FOR ALL VENTS SHALL BE COVERED WITH CORROSION RESISTANT METAL MESH WITH 1/4" OPENING DIMENSIONS
- 4. ALL NEW ROOF MATERIAL TO MATCH (E) MAIN HOUSE, UON
- 5. DOWNSPOUTS MAY DRAIN TO SPLASH BLOCKS, COBBLESTONES, OR SWALES THAT DIRECT WATER AWAY FROM THE BUILDING





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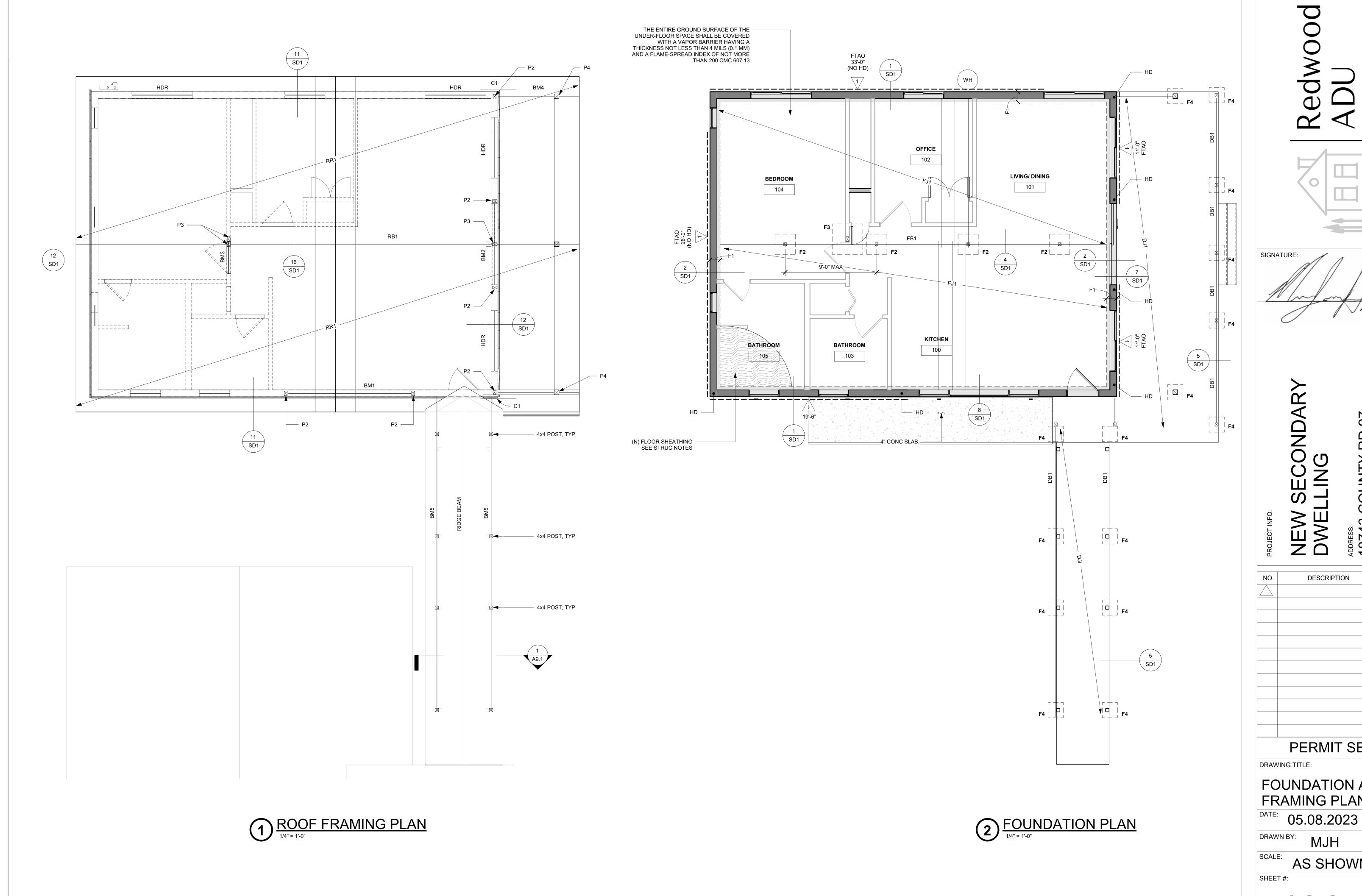
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DRAV	VING TITLE:	

ROOF PLAN

DATE: 05.08.2023

AS SHOWN

A2.2



DATE PERMIT SET FOUNDATION AND FRAMING PLAN DATE: 05.08.2023 AS SHOWN A2.3

Imad Abu-Markhieh	9/9/22					
BEAM AND JOIST SCHEDULE						
Roof: Rafter RR1	1 piece(s) 2 x 8 DF No.2 @ 24" OC					
Floor: Joist FJ1	1 piece(s) 9 1/2" TJI® 110 @ 16" OC					
Deck: Joist DJ1	1 piece(s) 2 x 6 DF No.2 @ 16" OC					
Roof: Ridge Beam RB1	3 piece(s) 1 3/4" x 11 7/8" 2.0E LVL					
Floor: Drop Beam FB1	1 piece(s) 6 x 10 DF No.1					
Deck: Drop Beam DB1	1 piece(s) 4 x 8 DF No.2					
Wall: Header BM1	1 piece(s) 4 x 10 DF No.1					
Wall: Header BM2	1 piece(s) 6 x 14 DF No.1					
Wall: Header BM3	1 piece(s) 4 x 12 DF No.1					
Patio: Beam BM4	1 piece(s) 6 x 8 DF No.2					
Patio: Beam BM5	1 piece(s) 4 x 6 DF No.2					
Wall: Header up to 6ft HDR	2 piece(s) 2 x 8 DF No.2					

P2 – 2-2x6 OR 4x6 TRIMMER POST.

P3 –4x6 TRIMMER POST W/ CCQ CAP TO SUIT

P4 – 6x6 PATIO POSTS USE SIMPSON CBSQ BASE AND CCQ CAP TO SUIT

C1- CS16 STRAP OF BEAM OR TOP PLATE TO PARALLEL BEAM. SEE DETAIL 10/SD2.

Imad Abu-Markhieh

FOOTING SCHEDULE								
FOOTING #	SIZE	REINFORCING	DISCRIBTION	POINT CAPCITY				
F1	12" CONTUNIOUS	#4 TOP & BOTTOM	STRIP FOOTING	6,000 lb.				
F2	30" SQUARE	#4 BARS @ 8" OC EA WAY	PAD FOOTING	9,375 lb.				
F3	36" SQUARE	#4 BARS @ 8" OC EA WAY	PAD FOOTING	27,000 lb.				
F4	18" SQUARE	#4 BARS @ 8" OC EA WAY	PAD FOOTING	3,250 lb.				
1 11017	1 LINO ALL DEDIMETED AND INTEDIOD STDD EQOTINGS ARE TYPE E1							

- 1. UNO, ALL PERIMETER AND INTERIOR STRP FOOTINGS ARE TYPE F1.
- 2. REINFORCEMENT SHALL HAVE MIN 3" CLEARANCE WHEN POURED AGAINST SOIL
- 3. **DEPTH OF FOOTING**: UNO, ALL STRIP FOOTINGS SHALL BE POURED MIN 12" BELOW LOWEST FINISH GRADE INTO COMPETENT ORIGINAL GROUND.
- 4. ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED ORIGINAL SOIL. IF FILL IS NEEDED PROVIDE STRUCTURAL FILL COMPOSED OF CRUSHED ROCK OR SAND/GRAVEL MIX COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D-1557 TEST. EXTEND FILL FROM LOWER CORNER OF FOOTING OUTWARD AT 1:1 SLOPE FOR DEPTH OF FILL.
- DESIGN SOIL PRESSURE =1500 PSF
- 6. TYP STEM WIDTH6" @ 1 STORY PLANS 8" @ 2 STORY PLANS

CONCRETE SLAB NOTES

- A. FOR INTERIOR SLABS, USE 4" CONCRETE SLAB W/ MIN. 10x10x6 W.W.M. OR /#3 BARS @ 18" OC EA WAY, CENTERED IN SLAB, OVER OPTIONAL 1"-2" SAND LAYER, OVER MINIMUM 10 MIL VAPOR RETARDER, OVER 4" GRAVEL BASE, OVER PREPARED SUB-GRADE
- B. FOR GARAGE SLABS, USE 4" CONCRETE SLAB W/ MIN. 10x10x6 W.W.M. OR /#3 BARS @ 18" OC EA WAY, CENTERED IN SLAB, OVER OPTIONAL 10MIL POLYETHYLENE VAPOR BARRIER OVER 4" GRAVEL BASE, OVER PREPARED SUB-GRADE.
- C. FOR EXTERIOR CONCRETE FLAT WORK, USE MIN. 4" THICK CONCRETE SLAB W/ MIN. 10x10x6 W.W.M. OR /#3 BARS @ 18" OC EA WAY, CENTERED IN SLAB, SLOPED 1/4" PER I'-0 " AWAY FROM STRUCTURE.

SHEAR WALL SCHEDULE

SHEA	ARWALL NAILING & TRA	NSFERS					All Values Confor	ming to the	CBC
	DESCRIF	NAIL	ING1	ANCHOR BOLTS 2	SHEAR T	RANSFE	RS		
SW No.	MATERIALS ₅	BOTH SIDES	HOLD DOWN POST	SIZE	SPACING EN-FN	SPACING	TOP PLATE CONNECTOR3, RBC, LPT or A35	SILL PLATE NAILS 4	STRAI
1	7/16" OSB OR CDX PLYWOOD	N	(2)2x or 4x	8d	6"-12"	5/8" @ 48"	@24" o /c	16d @ 9" o/c	CS16
2	7/16" OSB OR CDX PLYWOOD	N	(2)2x or 4x	8d	4"-12"	5/8" @ 36"	@18" o /c	16d @ 6" o/c	CS16

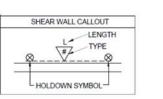
1- ALL SHEAR WALLS TO BE FULLY BLOCKED.

6- FOR FTAO SHEARWALLS, PROVIDE STRAP PER DETAIL 15/SD1.

- 2- PROVIDE 0.229" THICK X 3" SQUARE, FLAT PLATE WASHERS AT ALL ANCHOR BOLTS. 3- FOR WALLS WHICH BEAR TRUSSES; H-1 CLIP, FROM TRUSS TO TOP PLATE, MAY BE USED IN PLACE OF
- A35 TOP PLATE CONNECTOR. 4- USE RBC @ 3X SILL PLATE TO RIM JOIST OR SOLID BLOCKING WITH SPACING PER "TOP PLATE
- CONNECTOR". 5- 3/8" OSB OR PLYWOOD W/ 1" TIGHTER EDGE NAILING MAY BE USED IN LIEU OF 7/16" OSB OR PLYWOOD

HOLDOWN KEY:

H = HDU2 W/ SSTB20 ANCHOR



ANCHOR BOLT NOTE:

- 1- ALL PARAMETER FOOTING SILL PLATES SHALL HAVE ½" ANCHOR BOLTS EMBEDDED 7" MINIMUM AND SPACED AT 6 FEET O.C. MAX UNLESS NOTED OTHERWISE ON SHEAR WALL SCHEDULE.
- 2- BOLTS SHALL BE A MAXIMUM OF 12" FROM SILL ENDS AND SPLICES WITH A MINIMUM OF 2 BOLTS PER SPLICE.
- 3- USE 3" X 3" X 0.229" THICK FLAT PLATE WASHERS WITH ½" MAXIMUM EDGE DISTANCE FROM SHEATHING AT EACH ANCHOR BOLT.
- 4- IF THE FOUNDATION WAS NOT POURED MONOLITHICALL, MINIMUM EMBEDMENT REQUIREMENT SHOULD BE APPLIED TO THE FIRST POUR OR PLACE VERTICAL DOWEL PER ENGINEER RECOMMENDATION OR ADD VERTICAL #4 DOWELS AT 16" OC WITH 12" MINIMUM EMBEDMENT.



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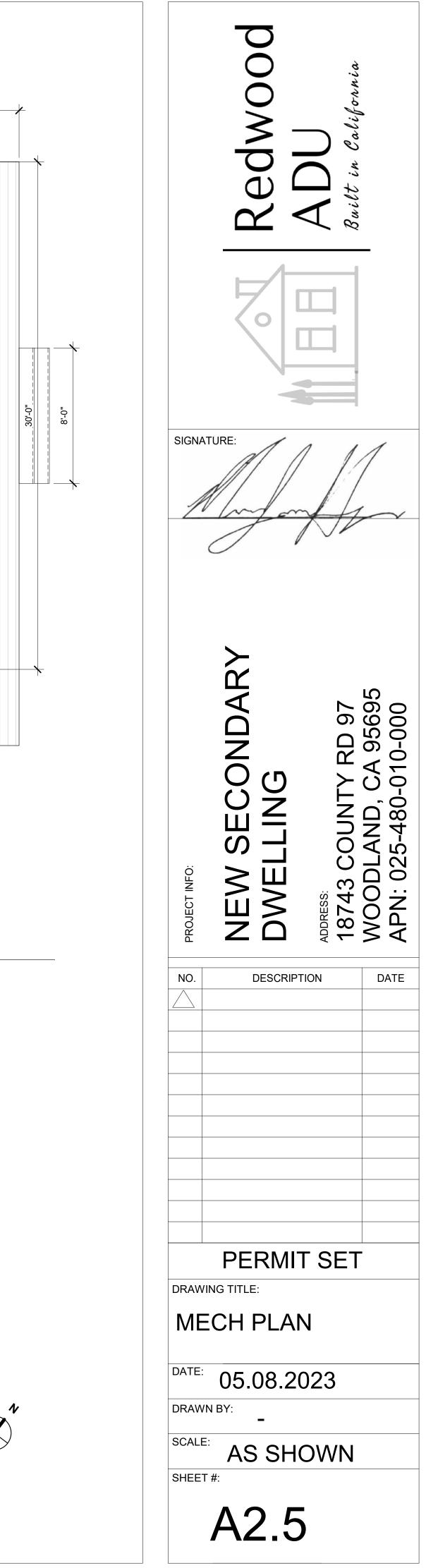
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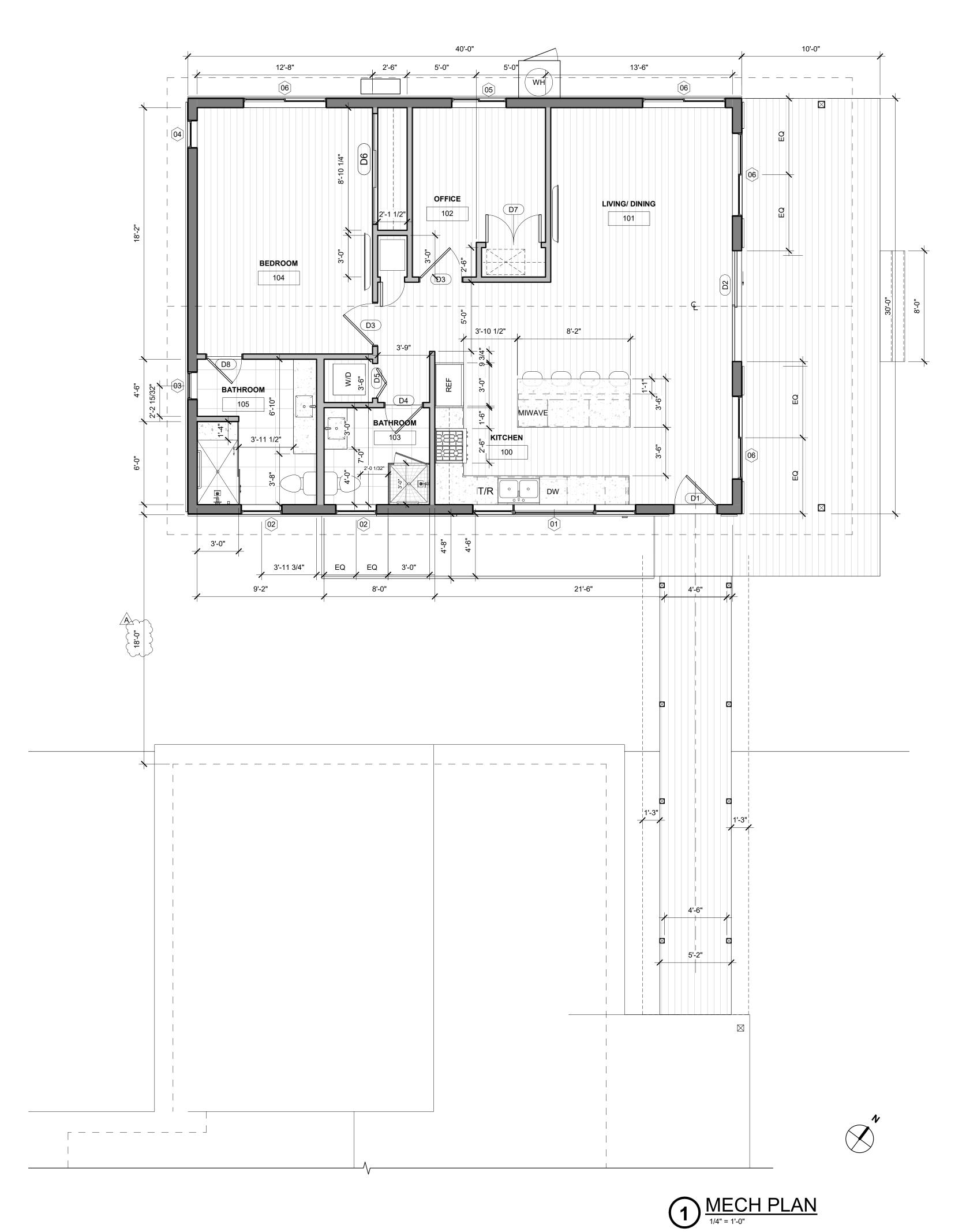
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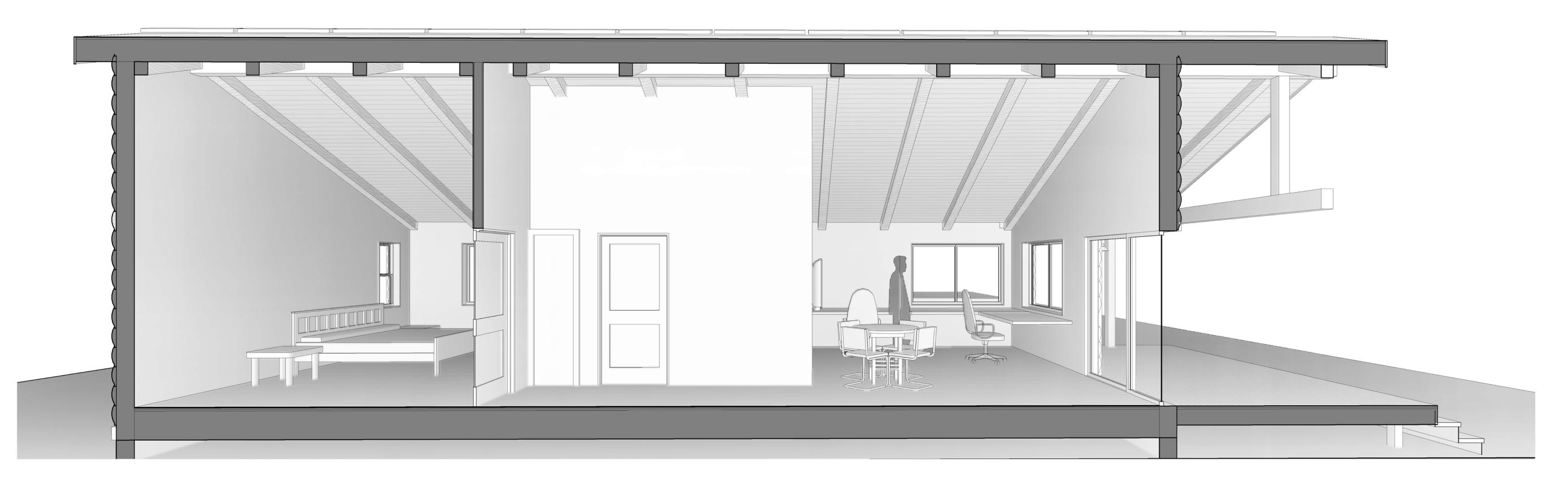
SHEAR WALL SCHEDULE

DATE: 05.08.2023

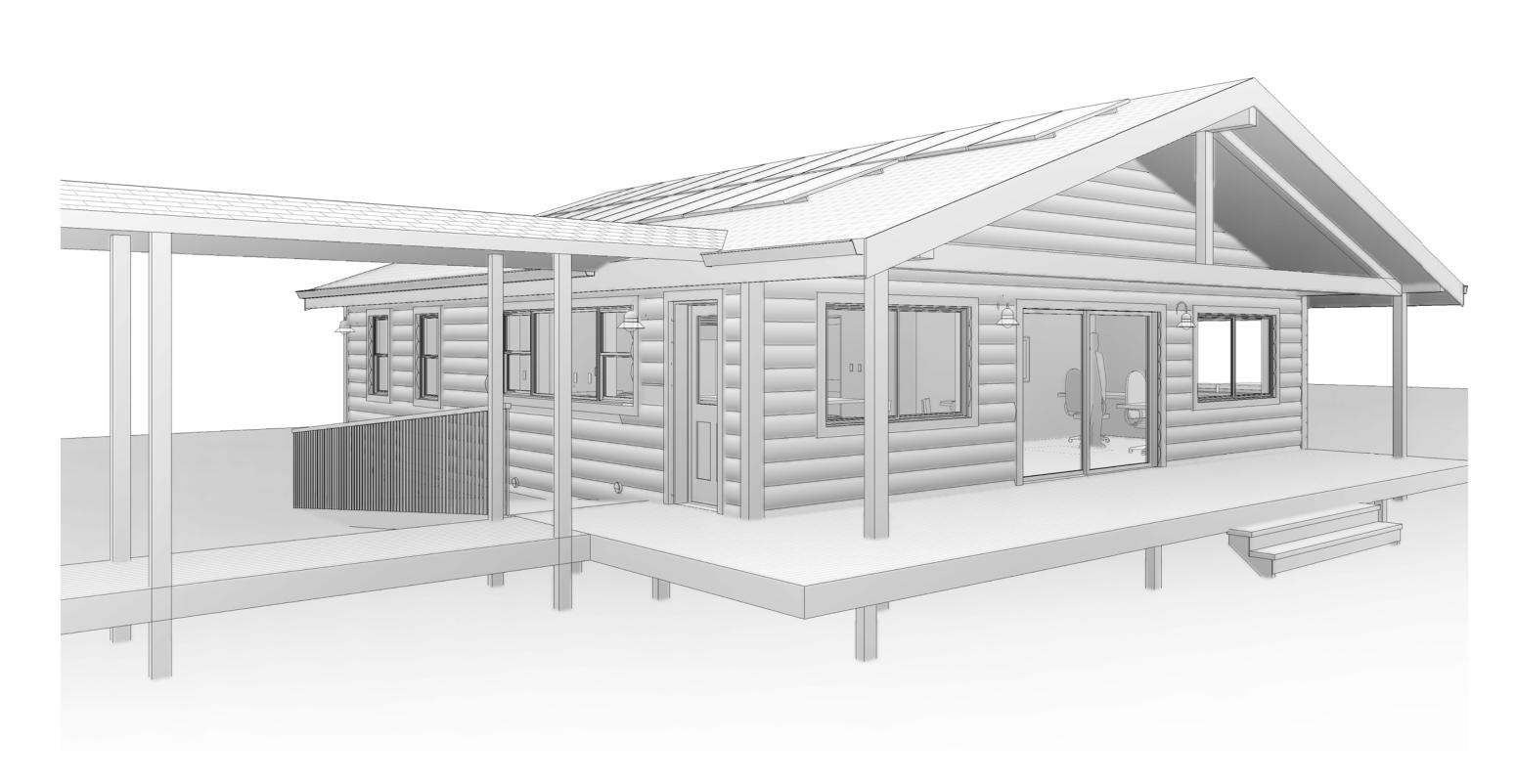
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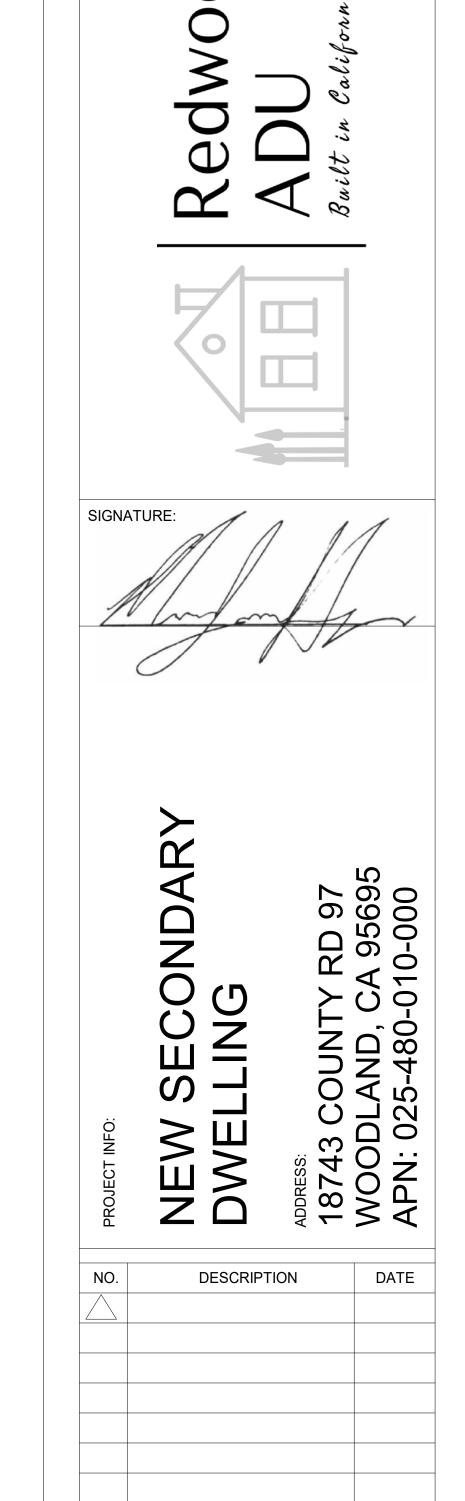
1 INTERIOR VIEW 02







2 INTERIOR VIEW 01



PERMIT SET

INTERIOR VIEWS

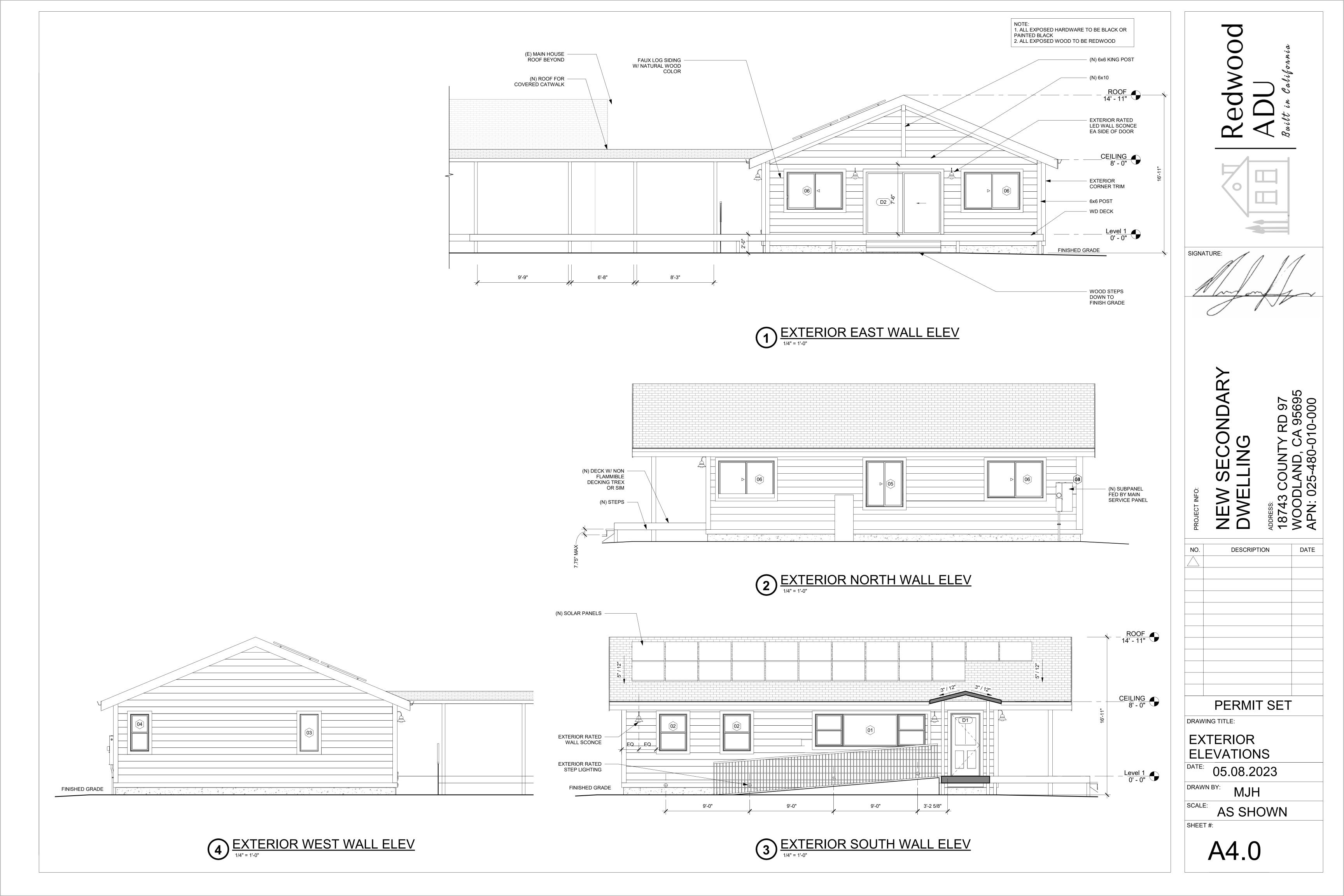
MJH

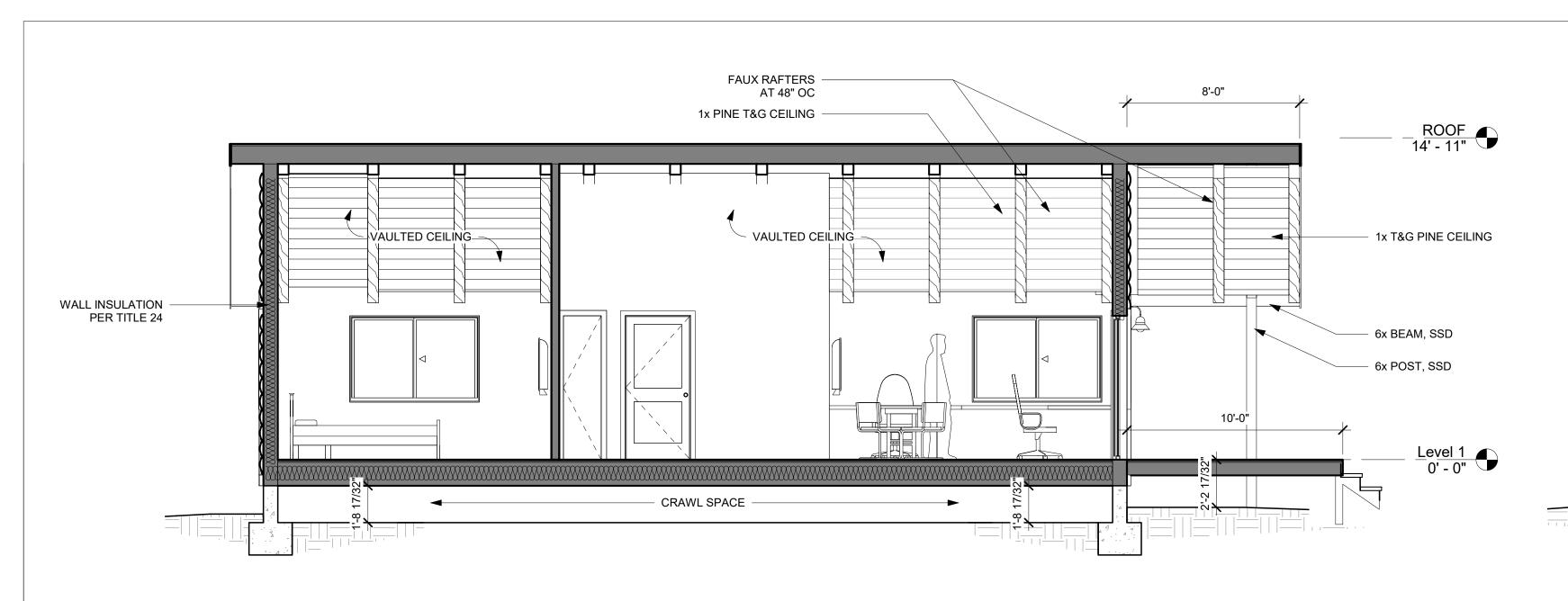
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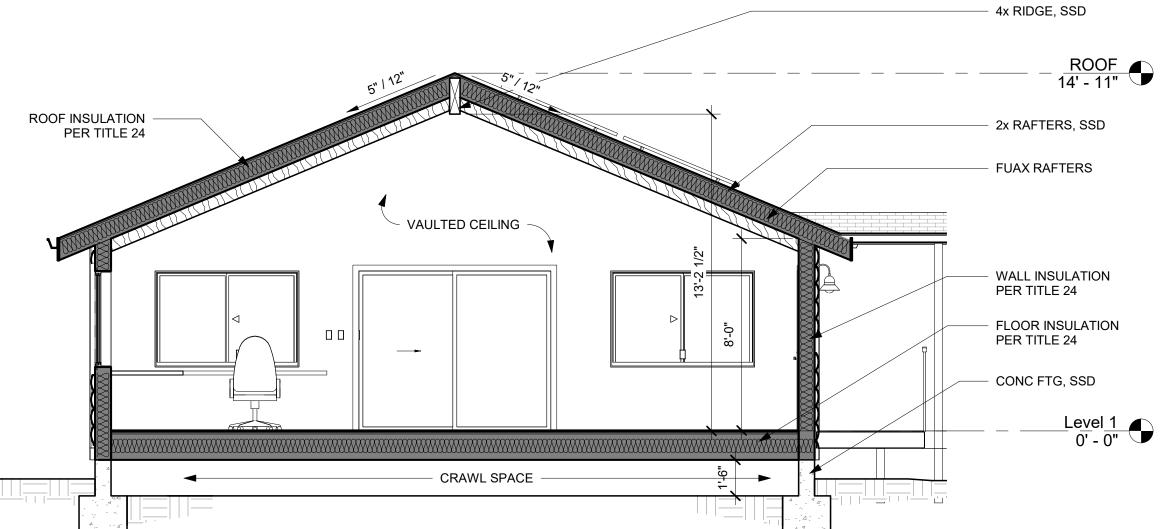
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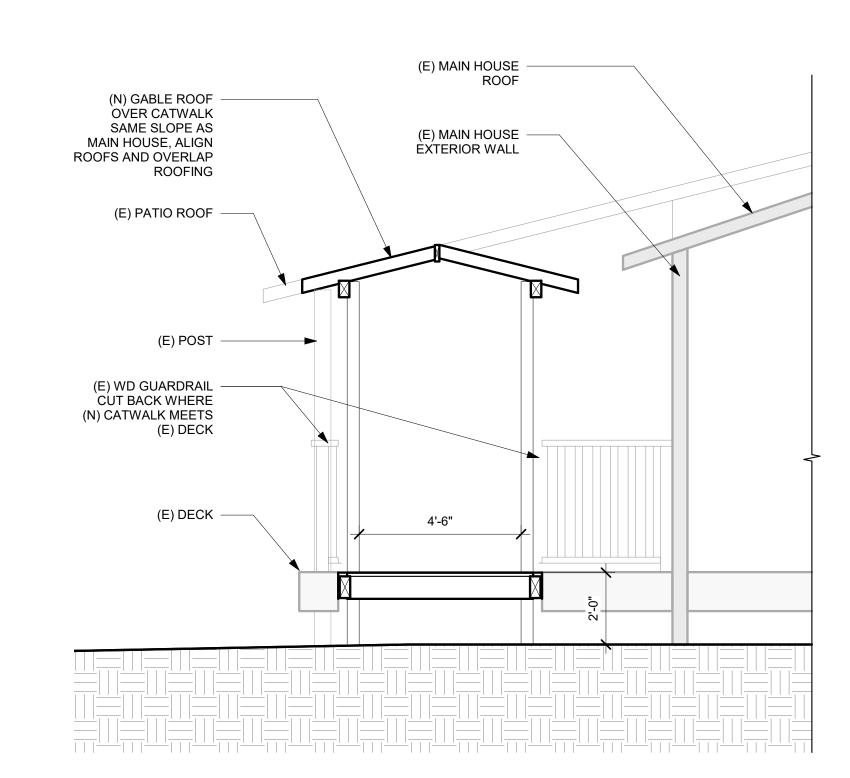






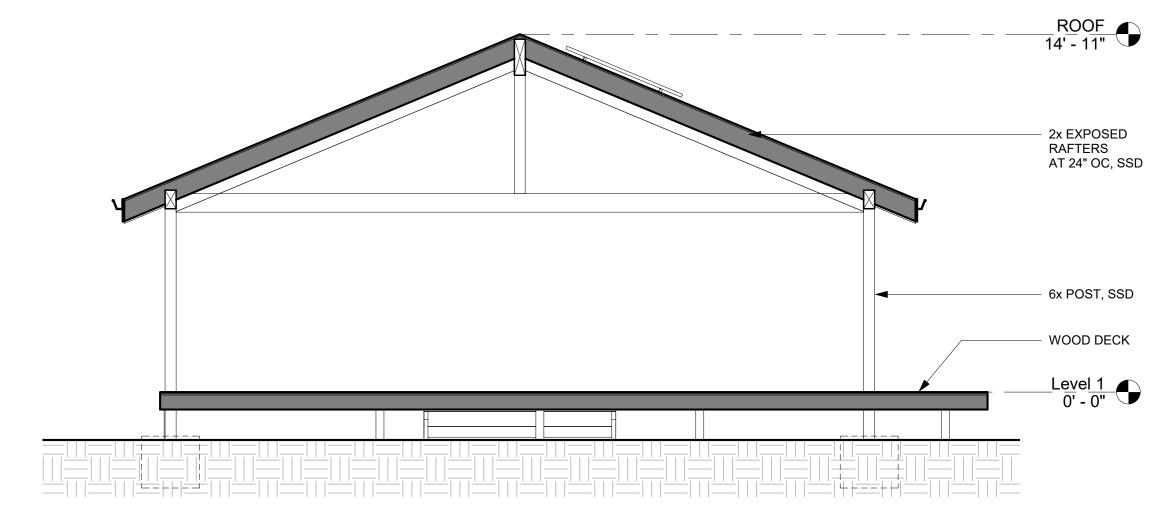
2 LONGITUDINAL SECTION A

1 LATITUDINAL SECTION A

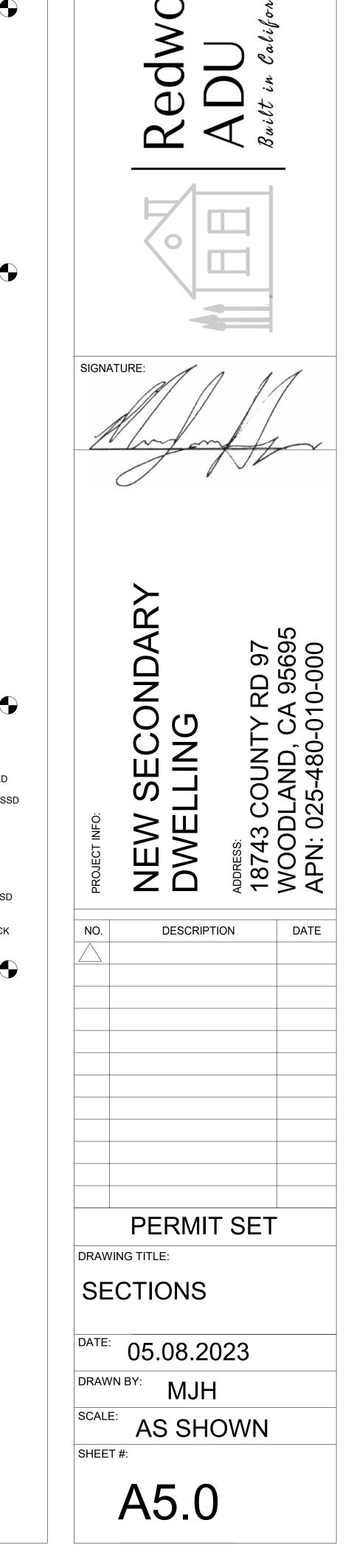


4 CATWALK SECTION

3/8" = 1'-0"



3 LATITUDINAL SECTION A1



WINDOW SCHEDULE FINISH **HEAT TRANSFER** GLASS SHGC LOCATION OPERATION DESCRIPTION MFG MODEL UNIT (WxH) **HEAD HEIGHT** HARDWARE SCREEN NOTES WDW# (INTERIOR & COEFFICIENT (U) EXTERIOR) FIXED/ SINGLE MULLED TBD 01 KITCHEN 100 MILGARD STANDARD 143"x41 1/2" 6'-8" 0.23 MAX 0.30 MAX BLACK HUNG **OBSCURE &** 02 BATHROOM 103 SINGLE HUNG MILGARD TBD 3'-0"x4'-0" 0.23 MAX 0.30 MAX STANDARD BLACK YES TEMPERED OBSCURE & BATHROOM 105 02 MILGARD TBD SINGLE HUNG 3'-0"x4'-0" 6'-8" 0.23 MAX 0.30 MAX STANDARD BLACK YES TEMPERED **OBSCURE &** 03 **BATHROOM 105** SINGLE HUNG MILGARD TBD 6'-8" STANDARD 3'-0"x4'-0" 0.23 MAX 0.30 MAX BLACK TEMPERED BEDROOM 104 SINGLE HUNG MILGARD TBD 6'-8" STANDARD YES 3'-0"x4'-0" 0.23 MAX 0.30 MAX BLACK 06 BEDROOM 104 SLIDER MILGARD TBD 6'-8" 0.23 MAX 0.30 MAX STANDARD BLACK YES **EGRESS** 6'-0"x4'-0" 05 OFFICE 102 SLIDER MILGARD TBD 5'-0"x4'-0" 6'-8" 0.23 MAX 0.30 MAX STANDARD BLACK YES 06 SLIDER MILGARD TBD LIVING/ DINING 101 6'-8" 0.23 MAX STANDARD 6'-0"x4'-0" 0.30 MAX BLACK SLIDER LIVING/ DINING 101 MILGARD 6'-8" 0.23 MAX 0.30 MAX STANDARD BLACK 6'-0"x4'-0" LIVING/ DINING 101 SLIDER MILGARD TBD 6'-8" 0.23 MAX 0.30 MAX STANDARD BLACK YES 6'-0"x4'-0"

WINDOW SCHEDULE NOTES

1. DOORS, FLOOR-LEVEL WINDOWS, TRANSOM WINDOWS AND SKYLIGHTS ARE TAGGED IN PLANS

2. ALL GLAZING IN DOORS AND WINDOWS TO MEET THE SAFETY REQUIREMENTS AS LISTED IN CBC SECTION 2406: SAFETY GLAZING

3. VERIFY ALL DIMENSIONS IN FIELD

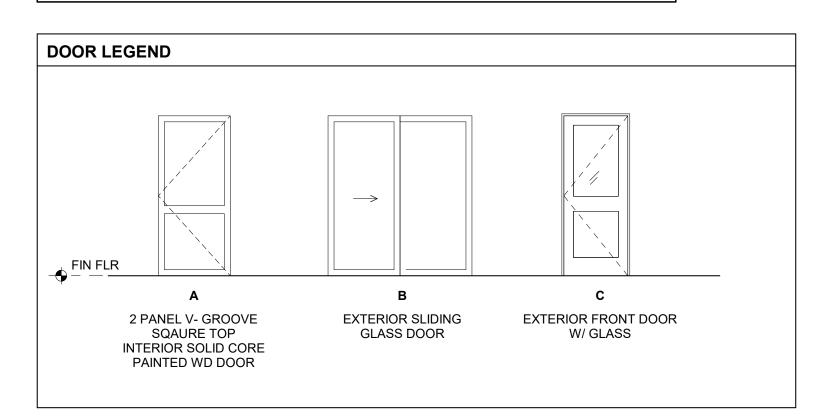
4. SEE TYPICAL WINDOW DETAILS

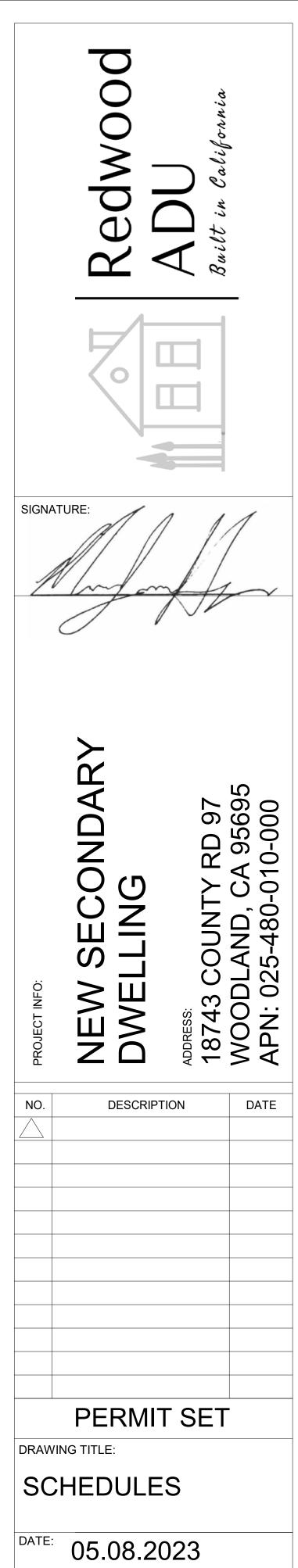
5. ALL DIMENSIONS ON THIS SCHEDULE ARE TAKEN TO THE "WINDOW DIMENSION POINT"

6. WINDOW SUPPLIER AND GC TO COORDINATE THE ROUGH OPENING TO THE ROUGH FRAMING DIMENSIONS IN THE FIELD

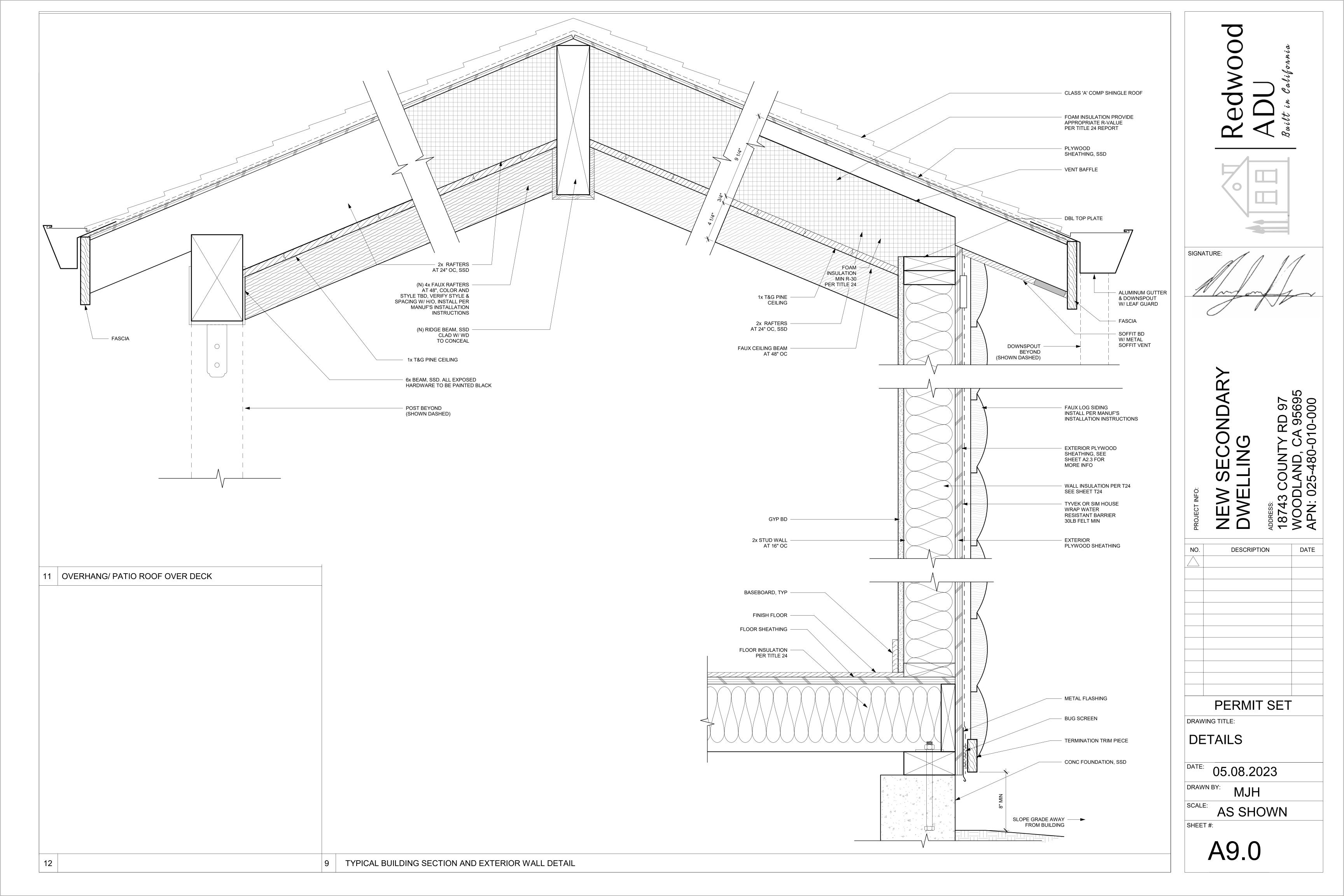
DOOR	DOOR SCHEDULE										
	MARK	TYPE	SIZE (WxH)	LOCATION	LOCK FUNCTION	MFG	FINISH	NOTES			
	D1	С	36"x80"	KITCHEN 100	KEYED LOCK W/ DEAD BOLT	TBD		DECORATIVE FRONT DOOR			
	D2	В	96"x80"	LIVING/ DINING 101	KEYED LOCK	MILGARD		PATIO SLIDER			
	D3	А	36"x80"	BEDROOM 102	PRIVACY						
	D8	А	30"x80"	BATHROOM 104	PRIVACY						
FLOOR	D3	А	36"x80"	BATHROOM 105	PRIVACY						
1ST F	D4	А	32"x80"	BATHROOM 103	PRIVACY						
	D5		30"x80"	LAUNDRY RM	PASSAGE			LOUVERED MIN 204 SQ IN NET FREE VENTILATION SPACE			
	D6	A	60"x80"	BEDROOM 104	PASSAGE						
	D6	А	60"x80"	BEDROOM 104	PASSAGE						
	D7	А	48"x80"	BEDROOM 102	PASSAGE						

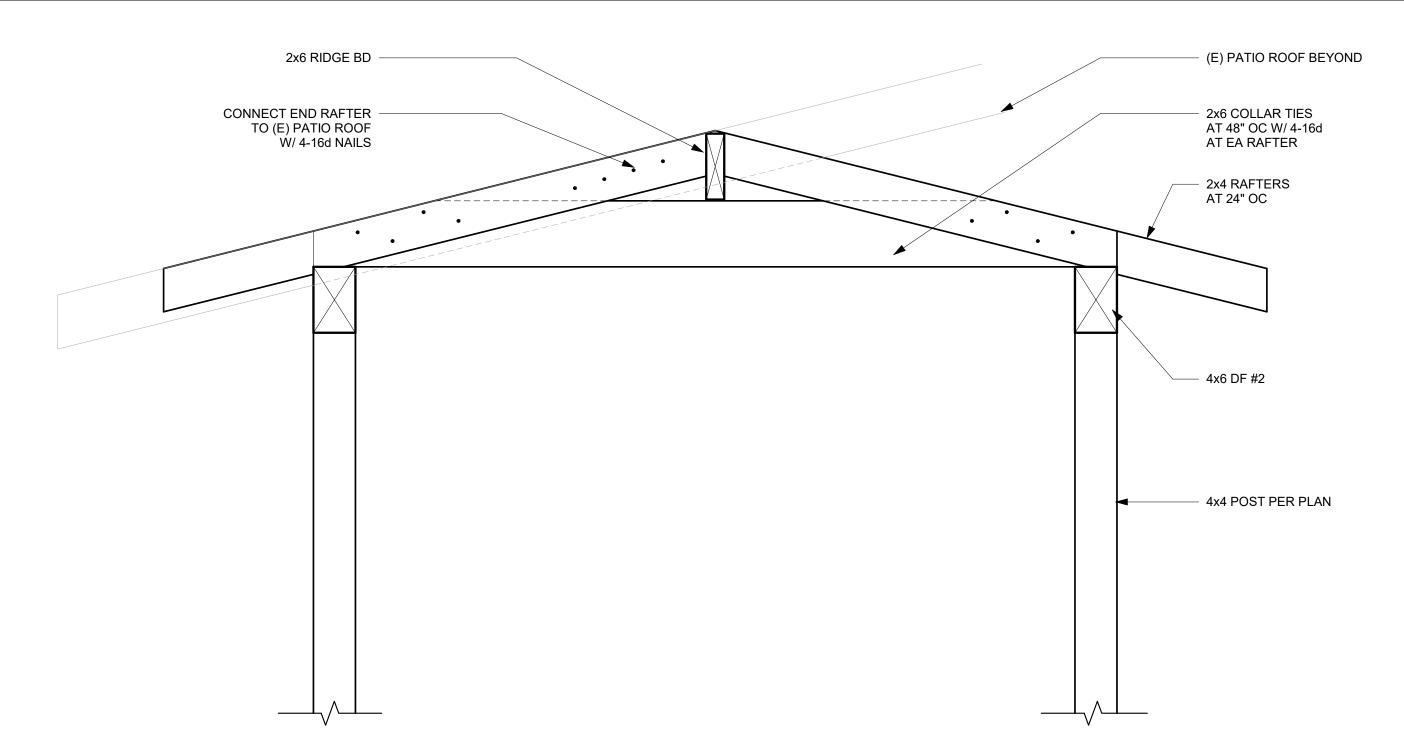
INTERIOR DOOR SCHEDULE NOTES
1. ALL DOORS ARE TAGGED IN PLANS
2. ALL INTERIOR DOORS SHALL BE 1 3/8" SOLID CORE
3. GC TO VERIFY ALL DIMENSIONS IN FIELD BEFORE PLACING ORDER





AS SHOWN





CAT WALK ROOF DETAIL

1 1/2" = 1'-0"

SIGNATURE: NEW SE DWELLI DESCRIPTION DATE PERMIT SET

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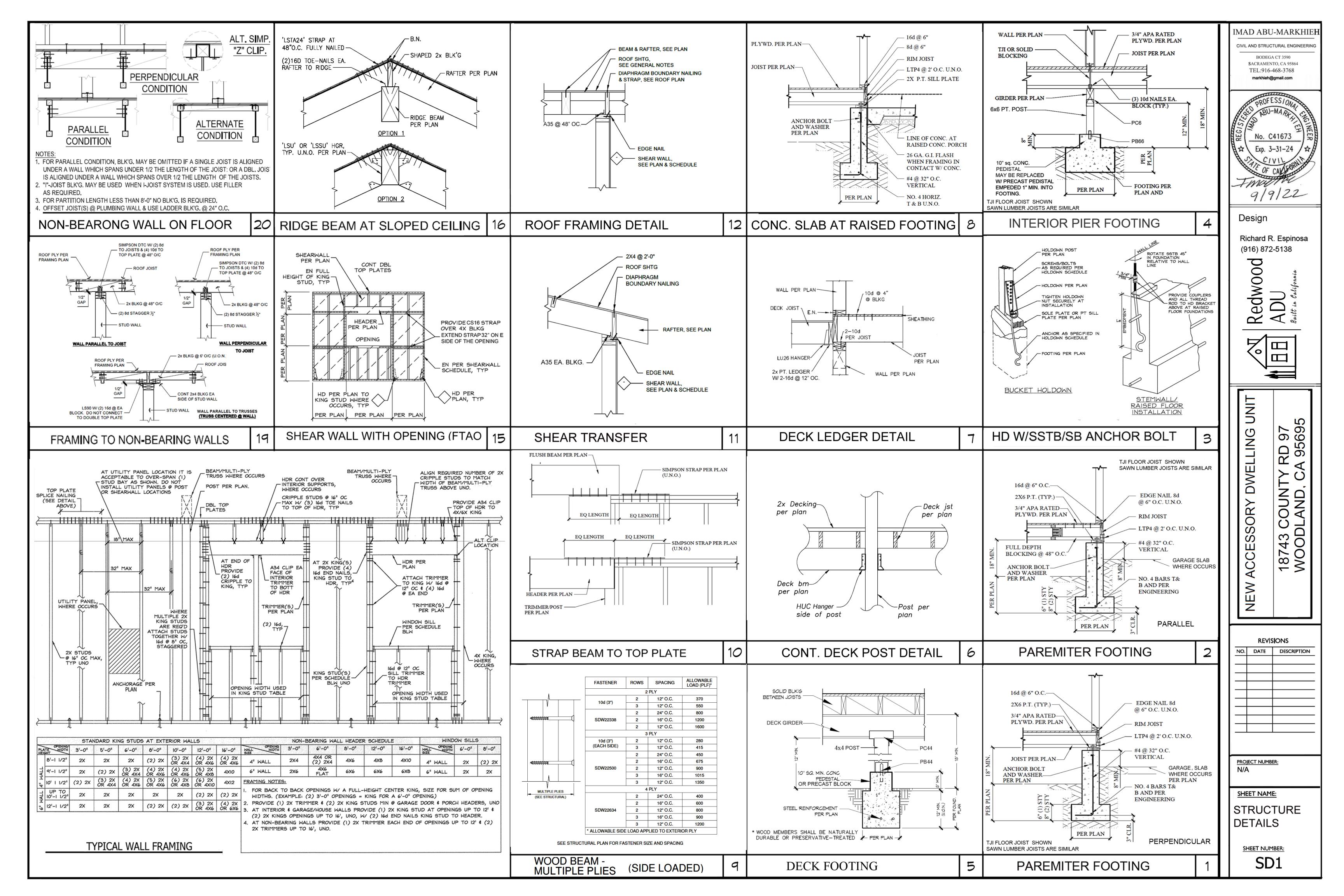
DETAILS

DATE: 05.08.2023

DRAWN BY: MJH SCALE: AS SHOWN

SHEET #:

A9.1



GENERAL REQUIREMENTS

- Work performed shall comply with the following:
- These General Requirements unless otherwise noted on plans or specifications.
- Building Code CBC 2019.
- 4. All applicable local, State and Federal Codes, Ordinances, Laws, regulations and Protective Covenants governing the site of work.
- Standard Specifications of ASTM as noted herein and as required by the Building Code.
- 6. All work needs to be performed by qualified and experienced contractors familiar with this type of
- 7. In case of conflict, the more stringent requirement shall govern.
- 8. On site verification of all dimensions and conditions shall be the responsibility of the contractor and sub-contractors. Noted dimensions take precedence over scale of drawings.

9. Engineer or architect of record is to be notified immediately by the contractor should any question

- arise or any discrepancy be found pertaining to the working drawings and/or specifications. 10. No deviations from these requirements and structural details shall be made without the written
- approval of E.O.R.. Approval by the inspector does not constitute authority to deviate from plans 11. The design, adequacy, and safety of erection bracing, shoring, temporary supports, etc., is the sole
- responsibility of the contractor, and has not been considered by the architect or engineer. The contractor is responsible for the stability of the structure prior to the application of all shear walls, roof and floor diaphragms, and finish materials. The contractor shall provide the necessary bracing to provide stability prior to the application of the aforementioned materials. Observation visits to the site by the architect or structural engineer shall not imply the assumption of any responsibility in this regard.
- 12. Upon completion of above by the engineer & prior to start of construction, contractor is responsib to check all dimensions, coordinate with the work of other consultants & other trades to ensure compliance with his/her requirements
- 13. E.O.R. shall have no liability for waterproofing or moisture transmission issues, whether related to concrete slabs, footings, foundations, or otherwise. The General Contractor/ Owner shall be responsible for the proper installation of the waterproofing and moisture protection specified by other.
- 14. Special inspection per Building Code Sec.1704 is required & applies to the types of work indicated the plans

THIS STRUCTURE DOESN'T REQUIRE SPECIAL INSPECTION

DESIGN CRITERIA

SOILS

FOUNDATION REPORT BY FRANK LEE & ASSOCIATES GEOTECHNICAL CONSULTANTS

 $S_{MS} = 1.365$

. LATERAL LOADS:

Occupancy Category: Seismic Design Category: Wind Speed: Seismic Importance Factor (I) = 1.0 Wind Exposure: Site Class = D $S_s = 1.137q$ $S_1 = 0.384q$ R = 6.5

B. DESIGN LOADS:

 $S_{ds} = 0.910q$

Floor Load (Garage) Deck Load Dead Load = N/A Dead Load = 12 psf Dead Load = 14 psf Dead Load = 12 psf Live Load = N/A Live Load = 60 psf Live Load = 20 psf Live Load = N/A Total = 72 psf Total = 52 psf = 34 psfTotal

Cs = 0.140

FOUNDATION

GROUND SNOW LOAD (Pg) = 0 psf

- I. All continuous footings to have 1/2" dia. x min. 12" anchor bolts, min. 7" embedment into concrete footing at 72" o.c. unless noted otherwise on plans. One anchor bolt should be located max. 12" away and min. 9 1/2" from the end of the sill plates. min. (2) A.Bs. per sill plate/shear panel. Sill plate under shear walls of up to 4'-0" in length must be continuous. See note 2 for sill plate fasteners at interior non-shear walls.
- 1a. Anchor bolts at shear walls shall be installed with plate washers of min. 3" sq. x 0.229" thick between sill plate and nut. Edge(s) of plate washers shall be 1/2" max. from inside face of shear panel(s) per conditions shown below.
- 1b. The hole in the plate washer is permitted to be diagonally slotted with a width of up to 3/16 inch larger than the bolt diameter and a slot length not to exeed 1 3/4 inches, provided a standard cut washer is placed between the plate washer and the nut.
- For interior non-shear walls use Simpson PHNW series 0.145Ø pins with a penetration of 1 1/4" into slab at 16" O.C. to be installed in accordance with ICC ESR-2138. Actual slab thickness to be minimum 4". All interior shear walls to have A.Bs. per foundation plan.
- 3. All holdowns and post anchors to be installed according to most current Simpson Strong Tie specifications and requirements of ICC-ER reports & shall be tied in place prior to foundation inspection. Dimensions are not furnished to Simpson holdowns. It is the responsibility of the contractor's superintendent, the framing contractor and the concrete contractor to locate these anchors in the exact location. Refer to details for proper installation.
- 4. Min. concrete width to be 8" for receiving PA, HPA & STHD's. Verify locations of holdowns and anchor bolts with rough framing to assure accurate installation.
- Provide #3 X 24" dowel at 24" o.c. and 12" from the corner at all concrete stoops and porches.
- 6. Provide min. (1) #4 reinforcing for electrical ground, location to be verified with the electrical Verify min. foundation depth, width, reinforcing steel and additional expansive soil requirements

with valid soils report and if more stringent, they shall supersede the above minimum

- requirements. See note #7 under reinforced concrete for concrete strength. Admixtures in concrete mix. containing calcium chlorides shall not be used.
- 9. Footings shall be examined and certified in writing by the project soil/geology engineer prior to inspection and placement of concrete.
- Concrete shall be to the strength and slump as specified per structural design, and consist of Portland cement ASTM C-150 Type V per soils engineer's recommendations and Building Code section 1904.3 (ACI 318 section 4.3) when exposed to sulfate containing solutions. Aggregates shall be per ASTM C-33. Water to be clean and potable.
- 11. Placement shall be in one continuous operation unless otherwise specified. Slab surface shall be cured with 'Hunts' compound or equal or cured with other methods in accordance with good construction practice at contractor's option.
- Contractor shall dampen slab underlayment of sand/membrane just prior to concrete placement to assist uniform concrete curing. Slabs must not be poured during or immediately after rainstorms. The specified sand over visqueen should not be saturated at the time of the concrete pour. Any free water trapped in the sand layer must be removed prior to the concrete pour.
- 13. The bottoms of footing excavations shall be level, clean and free of loose material or water when concrete is placed. Over excavation shall be filled with concrete or properly compacted fill that has been tested and approved by the soils engineer. Backfill shall not be placed until supporting foundations, walls and slab have attained sufficient strength to support lateral soil pressure.
- 14. Concrete placement shall be monolithic in one continuous operation uniformly placed and must be vibrated and well consolidated unless shown otherwise on plans. Dual pour is defined by ACI as to when 1st. & 2nd. pour can not be vibrated together.
- 15. Floor slab shall be poured level to 1/8" in 10'.

STRUCTURAL WOOD

- MINIMUM QUALITY
- All structural wood shall be of Douglas Fir Larch species, (19% maximum moisture content at the time of construction U.N.O.).
- All machine bolts shall conform to ASTM A307. Holes for bolts should be drilled 1/16" larger than
- For non-shear wall applications, round washers shall be used on all bolts and should conform with ANSI/ASME B 18.22.1. Use min. 1 3/8" Ø x 7/64" thick washer for 1/2" Ø bolt, 1 3/4" Ø x 9/64" thick washer for 5/8" Ø bolt and 2 1/2" Ø x 11/64" thick washer for 1" Ø bolt. U.N.O.
- All nails shall be sinker nails and staggered U.N.O., except as shown in Nailing Schedule. Adhesive used to attach floor sheathing to framing elements shall conform with APA specification
- Manufactured hardware specified on the drawings are to be Simpson Strong Tie (Unless specifically authorized in writing by E.O.R.. Follow all manufacturer's requirements &
- recommendations for installation & handling of the product. LUMBER GRADES (U.N.O.)
- 6x & 8x posts / beams / headers: DFL #1 4x posts / beams / headers: DFL #2 2x joists / rafters: DFL #2
- Studs: D.F.L. Stud Grade (up to 9'-0"), DFL #2 (taller than 9'-0") Top plates & Mud sills: DFL construction grade or better See structural wood note #11 for additional mud sill requirements
- The following beams/headers/rims can be from any manufacturer with current approved icc esevaluation report with the following mechanical properties:
- a. GLUED LAMINATED MEMBERS COMBINATION 24F-V4 DF/DF 3500' RADIUS. b. LSL BEAMS
- DOUGLAS FIR 1.55E, SG=.50, E=1550000 PSI, Fb=2325 PSI, Fv=310 PSI c. LVL BEAMS
- DOUGLAS FIR 2.0E, SG=.50, E=2000000 PSI, Fb=2600 PSI, Fv=285 PSI d. PSL BEAMS DOUGLAS FIR 2.2E, SG=.50, E=2200000 PSI, Fb=2900 PSI, Fv=290 PSI
- 8. TYPICAL FLOOR SHEATHING

APA, PFS/TECO or Pittsburg.

- 23/32" APA rated Sturd-I-Floor T&G Exp I with min. span rating of 24"
- o.c. Refer to NER 108 for installation and conditions of use
- B.N.:10d common nails at 6" o.c. E.N.:10d common nails at 6" o.c.
- F.N.:10d common nails at 12" o.c. Use ring or screw shank nails and glue sheathing to framing using adhesives meeting APA specification AFG-01 or ASTM D3498. Apply glue in accordance with manufacturer's
- recommendations. TYPICAL ROOF SHEATHING 15/32" APA rated sheathing Exp 1 with a min. panel index of 32/16.
- Refer to NER 108 for installation and conditions of use. B.N.:8d common nail at 6" o.c.
- E.N.:8d common nail at 6" o.c. F.N.:8d common nail at 12" o.d *Note: All structural rated panels must be stamped by one of the following approved agencies,

- All framing, bracing, nailing, notching, drilling or boring shall be in accordance with Building Code unless more stringent requirements are specified or required by the local Jurisdiction.
- 10. Fabrication and handling of Glue-lam beams shall be per ANSI/AITC A 190.1 . Standard beams to bear legible APA-ENS or AITC grade stamp. An APA- EWS CRAN AITC Certificate of conformance for glued-laminated members should be submitted to the field inspector prior to installation and Glue-lam members shall be 24F-V4, DF/DF with standard camber on roof beams except cantilever end (U.N.O.). All cantilever ends and floor beams shall have zero camber u.n.o. All beams shall be fabricated using waterproof glue.
- 11. Fasteners in contact with preservative treated lumber and fire retardant treated wood shall be of hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper. Exception: Plain carbon steel fasteners in sbx/dot and zinc borate preservative-treated wood in an interior, dry environment shall be permitted.
- 12. Stud walls perpendicular to a concrete or masonry wall shall be bolted to the concrete or masonry wall with 5/8" diameter x 8" A307 bolts at top, mid-height and bottom.
- All wood exposed to weather conditions must be pressure treated with hot dipped galvanized connectors as specified in note 11.
- Conventional light framed construction requirements of chapter 23 should be followed as required.
- Weight of the roof tile is considered to be 10 psf max. (total roof dead load of 20 psf). If roofing material exceeds this load, the framing contractor should notify E.O.R. in writing prior to
- 16. Top plates of all wood stud walls to consist of (2) 2x's the same width as the studs U.N.O. Top plates shall lap a min. of 48" and be spliced with not less than 6-16d nails spaced not more than 12" o.c.
- 7. All shear panels shall have continuous sheathing material from one end to the other and from plate to plate as specified on the drawings. Contractor shall coordinate framing such that continuity of shear panels is assured.
- All ledgers shall be spliced with ST22 strap, unless noted otherwise. 19. All shear transfer nailing shall be per drawings, and contractor shall provide proper notification
- for inspections to review the same Provide post/multiple studs at lower floor under post/multiple studs above. Each post/stud shall be fastened by Gypsum Wall Board w/ 5d cooler nails @ 7" o.c. U.N.O. on plan. Provide full width and depth compression block between floors at such locations.
- All joist hangers shall be Simpson U hanger, all beam hangers shall be Simpson HU hangers U.N.O.
- on plan or detail. Follow manufacturer's recommendations for installation. 22. If a double sill plate is used at light-weight concrete flooring, then the framing contractor shall apply sill plate nailing to both sill plates, at 16" o.c. max. or as specified per schedule.

23. Use this span table for stud spacing (U.N.O. on plans):									
- No multiples of	SIZE, HEIGHT AND SPACING OF WOOD STUDS								
2x4"s are	BEARING WALLS							NON-BEARING WALLS	
allowed to			MAX	IMUM SPACING	WHEN SUPPOR	TING		MAXIMUM	
span more	STUD SIZE	STUD HEIGHT	ROOF &	ONE FLOOR,	TWO FLOORS,	ONE FLOOR	STUD HEIGHT	SPACING	
than 14'-0".	3100 3126	3100 3126	3100 HEIGHT	CLN'G ONLY	ROOF & CLN'G	ROOF & CLN'G	ONLY		SPACING
Bearing walls			(inches)	(inches)	(inches)	(inches)	(feet)	(inches)	
exceeding	2X4	10	24	16	NOT ALLOWED	24	14	24	
	3x4	10	24	24	16	24	14	24	
10'-0" must be	2X6	10	24	24	16	24	20	24	
designed case	2-2X4	10			16				
by case.	2-2X6	10			24				
	*SHALL NOT BEUSED IN EXTERIOR WALLS.								

*REFER TO PLANS FOR STUD HEIGHTS EXCEEDING THIS TABLE.

- 24. Headers: Use 4X4 for openings less than 16" at bearing walls without point loads. For non-bearing walls use 2x4 for openings up to 3'-0" max. Use (2)2x4 for openings up to 6'-0" max. Use 4x6 for openings up to 12'-0" max. U.N.O. (2-2x on edge can be substituted for 4x members).
- 25. Approved end-jointed lumber may be used interchangeably with solid sawn members of the same species and grade for buildings up to 2-story. When finger jointed lumber is marked "stud use only" or "vert use only" such lumber shall be limited to use for studs only. All finger jointed lumber should bear a certified finger jointed lumber grade stamp.
- 26. Wood truss manufacturer shall supply to the engineer and the building department calculations and shop drawings for approval of design loads, configuration (2 or 3 point bearing), and shear transfer, prior to fabrication. It shall be the responsibility of the manufacturer to obtain building department approval of calculations and shop drawings prior to fabrication
- Trusses shall be designed in accordance with the latest local Building Code for all loads imposed, including lateral loads and mechanical equipment loads.
- 28. All connections involving trusses shall be ICC approved and of adequate strength to resist stresses due to the loadings involved and shall be designed and specified by the truss manufacturer.
- 29. Truss members and engineered wood products (i.e. prefabricated wood I-joist, structural gluedlaminated timber and structural composite lumber) cannot be cut, notched, drilled, spliced or otherwise altered in any way without the approval of a registered design professional (CRC 30. Cross bridging and/or bracing shall be provided and detailed by the truss manufacturer as
- required to adequately brace all trusses. 1. Truss manufacturer to provide details which allow for normal deflection without imposing lateral loads on their supports (i.e., scissors trusses).
- 32. Truss manufacturer is responsible for: a. providing additional shear and drag trusses as shown on the framing plans. b. reviewing framing plans and details prior to fabrication of trusses and specifying hangers.

c. meet the profile as indicated in the architectural and structural drawings.

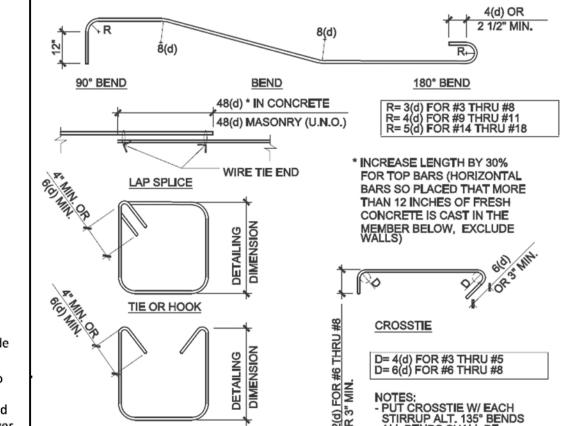
- d. design trusses for deflection compatibility of the system to avoid hump and sag in roof or ceiling. 33. All trusses designed by truss manufacturer shall be designed to sustain all vertical, lateral and other pertinent loads, including bracing of top and bottom chords, in addition to any connections
- related to trusses. Contractor to coordinate with truss manufacturer. 34. All truss lumber shall be Douglas Fir Larch (U.N.O.). Roof truss lumber shall be either Douglas Fir Larch or Hem-Fir. (U.N.O.)

REINFORCED CONCRETE

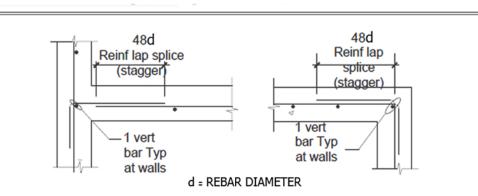
- GENERAL
- All reinforced concrete materials and construction shall conform to Building Code, chapter 19.
- Cement shall conform to Section 1903 of Building Code and shall correspond to that on which the
- selection of concrete proportions were based.
- Concrete aggregates shall conform to Building Code Section 1903. Portland cement shall be Type I or II conforming to ASTM C150. For concrete in contact with soil containing sulfate $So_4 \ge 0.1\%$ by weight use Type II cement, containing sulfate $So_4 \ge 0.2\%$ by weight useType V cement. Weight percentage of So₄ shall be per soils report. Refer to Section 1904 of the Building Code for special exposure conditions as required by soils engineer & see corrosion
- engineer's recommendations for concrete exposed to corrosive elements. Reinforcing steel shall conform to ASTM A615, Grade 60 for all sizes.
- Dowels shall be equal in size and spacing.

STIRRUP

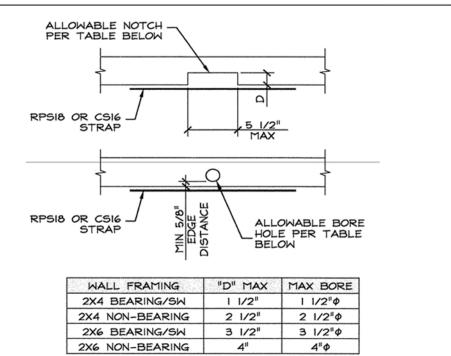
- STRENGTH The (28 days) concrete compressive strength, f'c, shall be min 2500 psi U.N.O.
- Special inspection is required for concrete with f'c > 2500 psi
- . All reinforcing, dowels, holdowns, and other inserts shall be secured in position and approved by the local building official prior to the pouring of any concrete.
- 10. Min. concrete cover for reinforcing: a- Concrete, placed against earth not formed - 3' b- Concrete formed or troweled - 1 1/2" c- Walls and curbs d- Slab on grade at center



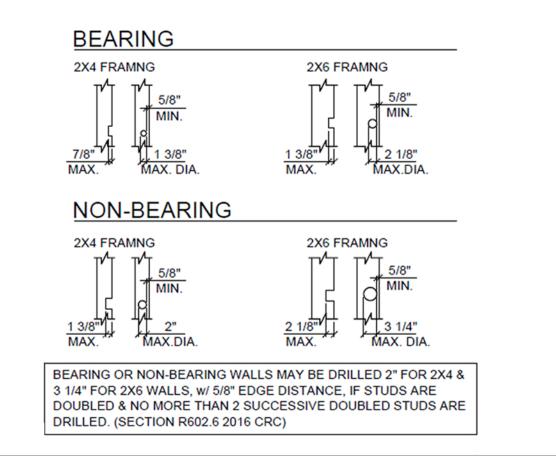
TYP. REINFORCING DETAILS



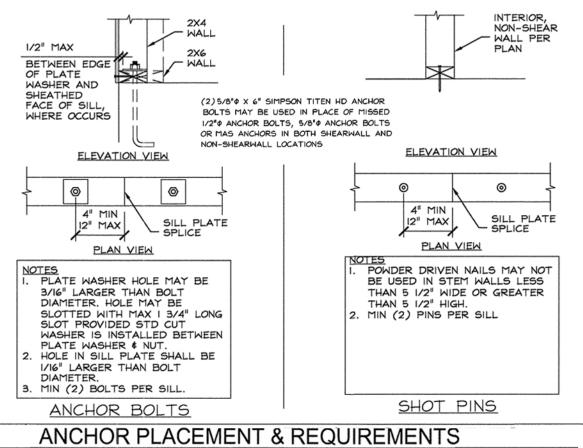
REBAR LAP SPLICE AT INTERSECTIONS

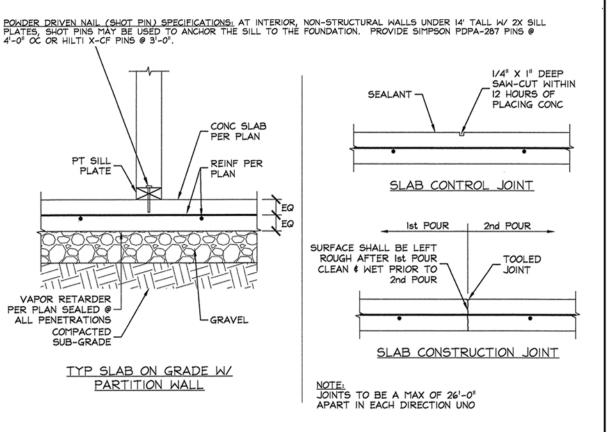


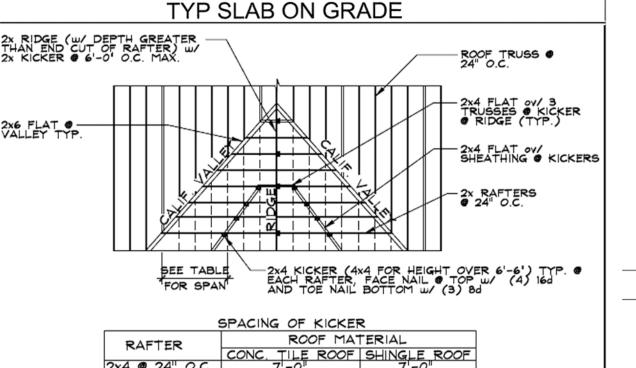
TYPICAL ALLOWABLE TOP PLATE NOTCHING AND BORING

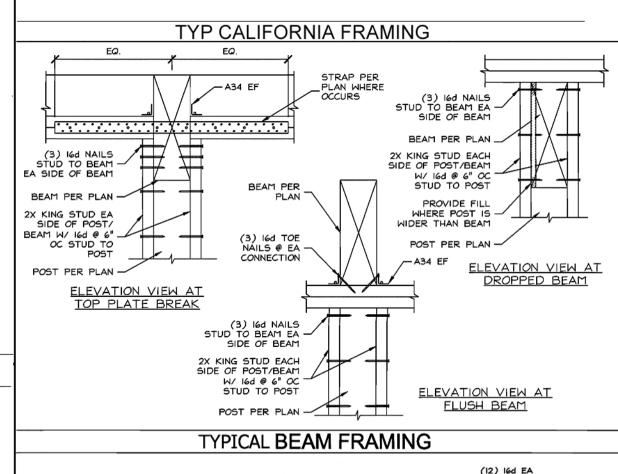


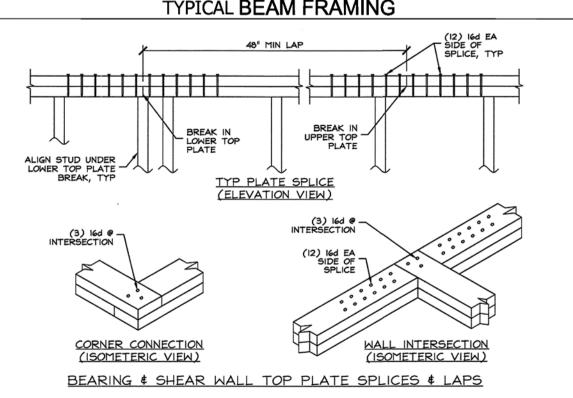
NOTCH OR DRILLED STUDS



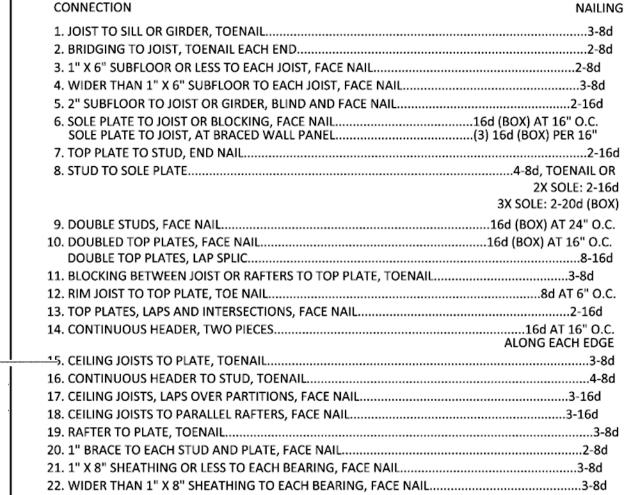








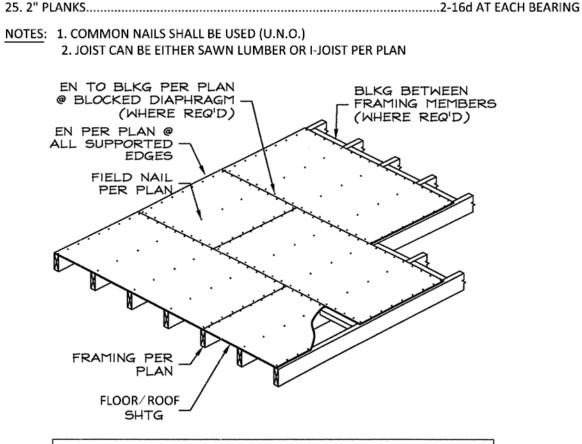
TYPICAL SPLICE TOP PLATE



NAILING SCHEDULE

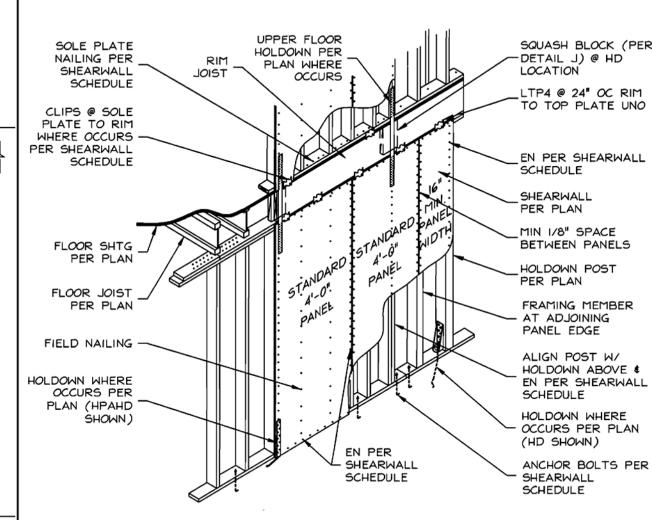
23. BUILT-UP CORNER STUDS...

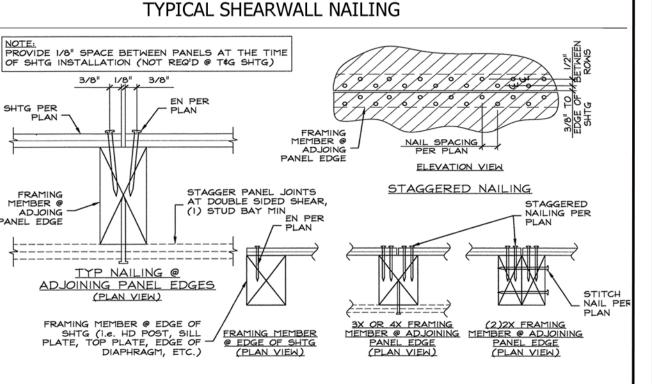
24. BUILT-UP GIRDER AND BEAMS.



NOTES: STAGGER PLYWOOD JOINTS MIN 2'-0" OC \$ ALIGN PLYWOOD JOINTS OVER FRAMING MEMBERS. 2. ORIENT PLYWOOD WITH FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS. 3. MIN PANEL SIZE TO BE 2'-0" X 2'-0" UNLESS ALL EDGES ARE BLOCKED.

TYPICAL DIAPHRAGM NAILING





TYPICAL SHEATHING NAILING

TEL:916-468-3768 markhieh@gmail.com No. C41673 Exp. 3-31-24 Design

IMAD ABU-MARKHIEI

CIVIL AND STRUCTURAL ENGINEERING

BODEGA CT 3590

SACRAMENTO, CA 95864

.16d AT 24" O.C

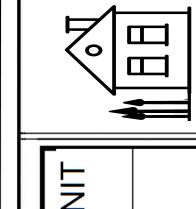
EACH SPLICE

.20d AT 32" O.C. AT TOP

2-20d AT ENDS AND AT

AND BOTTOM AND STAGGERED

Richard R. Espinosa (916) 872-5138



တ 0 9 18 ×

	REVIS	SIONS
NO.	DATE	DESCRIPTION

PROJECT NUMBER:

SHEET NAME:

STRUCTURE NOTES

SHEET NUMBER: SN

O2 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.

03 This building incorporates one or more Special Features shown below

223-P010009725A-000-000-0000000-0000

Gross EUI is Energy Use Total (not including PV) / Total Building Area.
 Net EUI is Energy Use Total (including PV) / Total Building Area.

CA Building Energy Efficiency Standards - 2022 Residential Compliance

		Energy Design Ratings		Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDI (EDR2tota
Standard Design	35.3	42	36.1			
Proposed Design	31.5	41.4	35.7	3.8	0.6	0.4
		RESULT ³	3: PASS	ili.		
fficiency EDR includes improvements like a otal EDR includes efficiency and demand r uilding complies when source energy, effi	resp <mark>onse</mark> measures such as p	photovoltaic (PV) system ar	nd batteries	met load hour limits are n	ot exceeded	
	'dc					

Calculation Date/Time: 2023-01-24T07:25:40-08:00

CF1R-PRF-01E

(Page 2 of 12)

CalCERTS inc.

CF1R-PRF-01E

(Page 5 of 12)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 18743 County Road 97 ADU

Registration Number:

CalCERTS inc.

223-P010009725A-000-000-0000000-0000

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2
Space Heating	3.85	16.98	3.73	28.52	0.12	-11.54
Space Cooling	1.06	30.71	0.8	27.97	0.26	2.74
IAQ Ventilation	0.36	3.91	0.36	3.91	0	0
Water Heating	2.25	23.01	1.16	13.09	1.09	9.92
Self Utilization/Flexibility Credit	٨			0		0
Efficiency Compliance Total	7.52	74.61	6.05	73.49	1.47	1.12
Photovoltaics	-1.57	-54.29	-1.57	-54.14		
Battery		HERS	PROVII	D E R ⁰		
Flexibility						
Indoor Lighting	0.8	8.05	0.8	8.05		
Appl. & Cooking	3.08	38.54	3.07	38.38		
Plug Loads	3.77	39.32	3.77	39.32		
Outdoor Lighting	0.2	1.8	0.2	1.8		
TOTAL COMPLIANCE	13.8	108.03	12.32	106.9		

Calculation Date/Time: 2023-01-24T07:25:40-08:00

Input File Name: Redwood-ADU_18743-Cnty-Rd-97_ADU.ribd22x

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 18743 County Road 97 ADU

Calculation Description: Title 24 Analysis

	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-01-24	07:26:57	
CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE ME	ETHOD		CF1R-PRF-01E	
Project Name: 18743 County Road 97 ADU	Calculation Date/Time: 2023-01-24T07:2	5:40-08:00	(Page 4 of 12)	
Coloulation Description, Title 24 Applicate	Invest File Names Deduced ADU 10742 (

Registration Date/Time:

2023-01-25 11:53:08

SERGY USE INTENSITY	Analysis	Input File Name: Redwood-ADU_18/43-Cnty-Rd-9/_ADU.ribd22x					
LENGT OSE INTENSITY	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage			
Gross EUI ¹	20.16	17.5	2.66	13.19			
Net EUI ²	9.9	7.24	2.66	26.87			

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
2.31	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

	HERE DROVIDED
REQU	IRED SPECIAL FEATURES
The fo	ollowing are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
•	Cool roof
•	Window overhangs and/or fins
•	Non-standard duct location (any location other than attic)
•	Compact distribution system basic credit
•	Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

Registration Number: 223-P010009725A-000-000-0000000-0000	Registration Date/Time: 2023-01-25 11:53:08	HERS Provider:	CalCERTS is

Report Version: 2022.0.000 Schema Version: rev 20220901

roject Name:	197/2 Counts	Pood 07 A	ווחו					Calculat	tion Date	/Time: 2022	01 24107:25	.40 00.00		1	Page 7 of 12
roject Name: .	18743 County	Road 97 A	ADO					Calculation Date/Time: 2023-01-24T07:25:40-08:00						,	Page / Of I
alculation Des	cription: Title	e 24 Analys	sis					Input Fi	le Name	: Redwood-A	DU_18743-C	nty-Rd-97_ <i>P</i>	DU.ribd22x		
ENESTRATION /	GLAZING													2015	
01	02	03		04	05	06	07	08	09	10	11	12	13		14
Name	Туре	Surfac	ce O	Prientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Sou	ırce Ext	terior Shadir
Win 06 3	Window	Right	t	Right	55			1	24	0.29	NFRC	0.21	NFRC		Bug Screen
Door 02	Window	Right	t	Right	55			1	53.33	0.29	NFRC	0.21	NFRC		Bug Screen
Win 06 4	Window	Right	t	Right	55			1	24	0.29	NFRC	0.21	NFRC		Bug Screen
VERHANGS AN	D FINS			11			12		1	-9					111
01		02	03	04	05	C	16	07	08	09	10	11	12	13	14
	oc.43		_/\	Overha	ng					Left Fin			Righ	t Fin	12
Windo	ow i	Depth	Dist Up	Left Exte	ent Right Extent	_ I Flan	Ht.	Depth	Top Up	Dist L	Bot Up	Depth	Тор Uр	Dist R	Bot Up
Win (12	2	0.1	2	2		2	0	0	0	0	0	0	0	0

01	02	03	04	05	06	07	08	09	10	11	12	13	14
			Overhang				Left	t Fin		Right Fin			
Window	Depth	Dist Up	Left Extent	Right Extent	Flap Ht.	Depth	Тор Uр	Dist L	Bot Up	Depth	Тор Uр	Dist R	Bot Up
Win 02	2	0.1	2	2	0	0	0	0	0	0	0	0	0
Win 02 2	2	0.1	2	2	S ⁰	PR	D V'I	D E	R ⁰	0	0	0	0
Win 01	2	0.1	2	2	0	0	0	0	0	0	0	0	0
Door 01	6	0.1	6	6	0	0	0	0	0	0	0	0	0
Win 06	2	0.1	2	2	0	0	0	0	0	0	0	0	0
Win 13	2	0.1	2	2	0	0	0	0	0	0	0	0	0
Win 06 2	2	0.1	2	2	0	0	0	0	0	0	0	0	0

egistration Number: 223-P010009725A-000-000-000000-0000	Registration Date/Time: 2023-01-25 11:53:08	HERS Provider: CalCERTS inc
A Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-01-24 07:26:57

CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-01-24	07:26:57	
CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE CO	MPLIANCE METHOD		CF1R-PF	
Project Name: 18743 County Road 97 ADU	Calculation Date/Time: 2023-	01-24T07:25:40-08:00	(Page 5	
Calculation Description: Title 24 Analysis	Input File Name: Redwood-Al	DU_18743-Cnty-Rd-97_ADU.ribd22x		

	S FEATURE SUMMARY
	following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional all is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry
•	Quality insulation installation (QII)
•	Indoor air quality ventilation
•	Kitchen range hood
•	Minimum Airflow
•	Verified Refrigerant Charge
•	Fan Efficacy Watts/CFM
•	Verified heat pump rated heating capacity
•	Duct leakage testing
	Ducts located entirely in conditioned space confirmed by duct leakage testing

Registration Date/Time:

2023-01-25 11:53:08

HERS Provider:

01	02	03		04	05	06	07	
Project Name	Conditioned Floor Ar	ea (ft ²) Number of Dv Units	velling Number	of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems	
18743 County Road 97 ADU	1200			2	1	0	1	
		1 -01		11 -	/ 1110	0		
ZONE INFORMATION		HE	RS P	RO\	/ I D E R	in the second se		
01	02	03	04		05	06	07	
Zone Name	Zone Type	HVAC System Name	Zone Floor A	Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status	
ADU	Conditioned	HVAC1	1200	0	10	DHW Sys 1	New	
			- A					
OPAQUE SURFACES			,			.11		
01	02	03	04	05	06	07	08	
1000000					1	Window and Door	+	

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)
Front	ADU	R-19 Wall	145	Front	320	86	90
Left	ADU	R-19 Wall	235	Left	300	24	90
Back	ADU	R-19 Wall	325	Back	320	68	90
Right	ADU	R-19 Wall	55	Right	300	101.33	90

				U U					
**		,	1						
egistration Number: 22	3-P010009725A-000-000-000	00000-0000	Registratio	n Date/Time: 2023-01-25	5 11:53:08	HERS Provider: CalCERTS inc.			
A Building Energy Effici	ency Standards - 2022 Re	esidential Compliance		rsion: 2022.0.000 ersion: rev 20220901		Report Generated: 2023-01-24 07:26:57			

roject Name: 18743 Co alculation Description:					ANDRES SING	me: 2023-01-24T07 dwood-ADU_1874		
PAQUE SURFACE CONSTF	RUCTIONS							
01	0	2	03	04	05	06	07	08
Construction Name	Surfac	е Туре	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterio	r Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.07	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) 2x6 Exterior Finish: Wood Siding/sheathing/decking
R-35 Roof Cathedral + CR	Cathedra	l Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O. C.	R-38	None / None	0.033	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-38C in 9-1/4 in. (R-35 / 2x10 Inside Finish: Gypsum Board
R-19 Floor Crawlspace	Floor: Crawl	s O <mark>ver</mark> sp <mark>ace</mark>	Wood Framed Floor	2x12 @ 16 in. O. C.	R-19	None / None	0.045	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x12
UILDING ENVELOPE - HER	RS VERIFICA	TION						
01			02	03		04		05
Quality Insulation Installa	ation (QII)	High R-va	lue Spray Foam Insulatio	n Building Envelope Air I	eakage	CFM50		CFM50
Required			Not Required	N/A		n/a		n/a

Requi	red	Not Required N/A					n/a		n/a		
WATER HEATING SYS	STEMS	- G	127					120 			
01	02	03	04	05	-	06	07	08	09		
Name	System Type	Distribution Type	Water Heater Name	Number of Units	AND CONTRACTOR OF	Heating stem	Compact Distribution	HERS Verification	Water Heater Name (#)		
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	r	n/a	Basic	n/a	DHW Heater 1 (1)		

	Registration Date/Time:	HERS Provider:	
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sidential Compliance	Report Version: 2022.0.000	Report Generated: 2023-01-24	07:26:
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Energy Use	Energy (EDR1) (kBtu/ft ² -yr)	(EDR2) (kTDV/ft ² -yr)	Energy (EDR1) (kBtu/ft ² -yr)	(EDR2) (kTDV/ft ² -yr)	Margin (EDR1)	Margin (EDR2)
Space Heating	3.85	16.98	3.73	28.52	0.12	-11.54
Space Cooling	1.06	30.71	0.8	27.97	0.26	2.74
IAQ Ventilation	0.36	3.91	0.36	3.91	0	0
Water Heating	2.25	23.01	1.16	13.09	1.09	9.92
Self Utilization/Flexibility Credit	A			0		0
Efficiency Compliance Total	7.52	74.61	6.05	73.49	1.47	1.12
Photovoltaics	-1.57	-54.29	-1.57	-54.14		
Battery		HERS	PROVII	DER ⁰		
Flexibility		,				
Indoor Lighting	0.8	8.05	0.8	8.05		
Appl. & Cooking	3.08	38.54	3.07	38.38		
Plug Loads	3.77	39.32	3.77	39.32		
Outdoor Lighting	0.2	1.8	0.2	1.8		
TOTAL COMPLIANCE	13.8	108.03	12.32	106.9		
Registration Number:	3-P010009725A-000-000-0000000-000		egistration Date/Time: 2023-01-25 11:		rovider:	CalCERTS in

Calandarian B		24 4 1 1						1	D. J.		DII 10743	C. t. D. 1 07 . 45	VI -: 15-122	Will K. Tale Control
Calculation Desc OPAQUE SURFACE		24 Analysis					input F	ie Name	: Reawo	ooa-A	DU_18/43-	Cnty-Rd-97_AD	JU.riba22x	
01	:5	02	0	3		04		05			06	07		08
Name		Zone	Constr		Az	Azimuth O		Regard		Gross Area (ft ²)		Window a	I Tilt (deg)	
Raised Floor	8	ADU	R-19 Floor	Crawlspace		n/a		n/a		Š	1200	n/a	ı	n/a
OPAQUE SURFACE	S - CATHEDRA	L CEILINGS		1						1			-	-
01	02	03	04		05	0	6	07	,		08	09	10	11
Name	Zone	Construction	Azimut	h Orie	entation	Area	(ft²)	Skylight (ft ²		Roof	f Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Cathedral Roof	ADU	R-35 Roof Cathedral + C	R 145	i	Front	120	00	0			5	0.25	0.85	Yes
						3								
FENESTRATION / G	GLAZING		L	·									•	
FENESTRATION / G	GLAZING 02	03	04	05	06	07	08	09	10		11	12	13	14
Patricia.		03 Surface	04 Orientation	05 Azimuth	06 Width (ft)	07 Height (ft)	08 Mult.	09 Area (ft²)	10 U-fac	hr	11 U-factor Source	12 SHGC	13 SHGC Source	23,7525
01	02				Width	Height	\supset	Area		tor	U-factor		833000	237655
01 Name	02 Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-fac	tor	U-factor Source	SHGC	SHGC Source	Exterior Shadin
01 Name Win 02	02 Type Window	Surface Front	Orientation Front	Azimuth 145	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-fac	e tor 9	U-factor Source NFRC	SHGC 0.21	SHGC Source NFRC	Exterior Shadin
Name Win 02 Win 02 2	02 Type Window Window	Surface Front Front	Orientation Front Front	Azimuth 145 145	Width (ft)	Height (ft)	Mult.	Area (ft²) 12	U-fac	etor 9 9 9	U-factor Source NFRC	SHGC 0.21 0.21	NFRC NFRC	Exterior Shadin Bug Screen Bug Screen
01 Name Win 02 Win 02 2 Win 01	Type Window Window Window	Front Front Front	Orientation Front Front Front	Azimuth 145 145 145	Width (ft) 3 3 12	Height (ft) 4 4 3.5	Mult. 1 1 1	Area (ft²) 12 12 42	0.29 0.29 0.29	9 9 9	U-factor Source NFRC NFRC	SHGC 0.21 0.21 0.21	NFRC NFRC NFRC	Exterior Shadin Bug Screen Bug Screen Bug Screen
01 Name Win 02 Win 02 2 Win 01 Door 01	Type Window Window Window Window	Front Front Front Front	Orientation Front Front Front Front	145 145 145 145	Width (ft) 3 3 12	Height (ft) 4 4 3.5	Mult. 1 1 1 1	Area (ft²) 12 12 42 20	0.29 0.29 0.29	9 9 9 9	U-factor Source NFRC NFRC NFRC	SHGC 0.21 0.21 0.21 0.21 0.21	NFRC NFRC NFRC NFRC NFRC	Exterior Shading Bug Screen Bug Screen Bug Screen Bug Screen

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CERTIFICATE OF COM	IPLIANCE - RESIDENTIA	AL PERFORMANCE COI	MPLIANCE METHOD				CF1R-PRF-0
Project Name: 18743	County Road 97 ADU			Calculation Date/	Time: 2023-01-24T0	7:25:40-08:00	(Page 9 of
Calculation Description	on: Title 24 Analysis			Input File Name:	Redwood-ADU_187	43-Cnty-Rd-97_ADU.ribd22	×
WATER HEATERS - NEEA	A HEAT PUMP						<u> </u>
01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pum Model	Tank Locatio	n Duct Inlet Air Source	Duct Outlet Air Sou
DHW Heater 1	1	50	Rheem	RheemXE50T10H4	5U Outside	ADU	ADU

0.29

0.29

Registration Date/Time: 2023-01-25 11:53:08

Report Version: 2022.0.000

Schema Version: rev 20220901

NFRC

NFRC

0.21

0.21

0.21

HERS Provider:

NFRC

NFRC

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Bug Screen

Bug Screen

Bug Screen

325

325

Back

223-P010009725A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number:

							2110	
Dwelling Unit type	Water Heating Sys Name	furthes	r Bath distance of st fixture to Water Heater (ft)	Kitchen distance of furthest fixture to Water Heater (ft)	Furthest Third fur fixture to Water H (ft)	\$355000	ctness Factor	HERS Verification
Dwelling	DHW Sys 1		n/a	n/a	n/a	İ	0.7	n/a
						1		
WATER HEATING - HERS V	ERIFICATION		() (EDT				
01	02		03	04	05		06	07
Name	Pipe Insulation	n Pa	arallel Piping R	Compact Distribution	Compact Distrib	ution Recircu	lation Control	Shower Drain Water Hea Recovery
DHW Sys 1 - 1/1	Not Required	N	lot Required	Not Required	Basic	No	t Required	Not Required
	,	,				*		, T
SPACE CONDITIONING SY	STEMS							
01	02	03	04	05	06	07	08	09

SPACE CONDITIONIN	IG SYSTEMS							
01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
HVAC1	Heat pump heating cooling	Heat Pump System	1	Heat Pump System	1	HVAC Fan 1	Air Distribution System 1	Setback

Registration Number: 223-P010009725A-000-000-000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: 2023-01-25 11:53:08 Report Version: 2022.0.000

CF1R-PRF-01E

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CF1R-PRF-01E



SIGNATURE

NO.	DESCRIPTION	DATE

	PERMIT SET	
DRAW	/ING TITLE:	

TITLE 24

DATE: 05.08.2023

DRAWN BY:

SHEET #:

Report Generated: 2023-01-24 07:26:57

Registration Number: 223-P010009725A-000-000-000000 CA Building Energy Efficiency Standards - 2022 Reside

alCERTS inc.

Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-01-24 07:26:57

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 18743 County Road 97 ADU

Calculation Date/Time: 2023-01-24T07:25:40-08:00 (Page 10 of 12) Calculation Description: Title 24 Analysis Input File Name: Redwood-ADU_18743-Cnty-Rd-97_ADU.ribd22x

2							_					
HVAC - HEAT PUMPS	S											
01	02	03	04	05	06	07	08	09	10	11	12	13
				Heati	ng			Cooling				
Name	System Type	Number of Units	Efficiency Type	HSPF / HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Central split HP	1	HSPF2	7.5	24000	15600	EER2SEER2	14.3	11.7	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Required	350	Not Required	Not Required	Yes	No	Yes	Yes

THE STATE OF THE S				N II II	Name of Street					S. S.	
			LC	\sim		\cap	0,			00	00
HVAC - DISTRIBUTIO	N SYSTEMS					-				7	100
01	02	03	04	05	06	07	08	09	10	11	12
Name	Туре	Design Type	Duct Ins	. R-value	Duct L	ocation	Surfac	e Area	Bypass Duct	Duct Leakage	HERS Verification
Name	Туре	Design Type	Supply	Return	Supply	Return	Supply	Return	Bypass Duct	Duct Leakage	neks verification
Air Distribution System 1	Conditioned space-entirely	Non-Verified	R-6	R-6	Conditi oned Zone	Conditi oned Zone	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distribution System 1-hers-dist

Registration Number: 223-P010009725A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: 2023-01-25 11:53:08 Report Version: 2022.0.000 Schema Version: rev 20220901

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CF1R-PRF-01E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2023-01-24T07:25:40-08:00 Project Name: 18743 County Road 97 ADU (Page 11 of 12) Calculation Description: Title 24 Analysis Input File Name: Redwood-ADU_18743-Cnty-Rd-97_ADU.ribd22x

HVAC DISTRIBUTION - HERS VERIFICATION										
01	02	03	04	05	06	07	08	09		
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space		
Air Distribution System 1-hers-dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No		

		1						Space
Air Distribution System 1-hers-dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No
	-31	*						
HVAC - FAN SYSTEM	S	<u> </u>			712		100	
	01	A	02			03		04
	Name		Тур	e	Fan Pov	wer (Watts/CFM)		Name
	HVAC Fan 1		HVAC	Fan		0.45	HVAC I	an 1-hers-fan
			121		C			
HVAC FAN SYSTEMS	- HERS VERIFICATION		Lal					
	01		LED	02	NID	- 5	03	
	Name		HEN.	Verified Fan Watt Dra	w VID	Requir	ed Fan Efficacy (Watts	CFM)
	HVAC Fan 1-hers-fan			Required			0.45	
INDOOR AIR QUALIT	Y (IAQ) FANS	14.			1			50
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy	IAQ Recovery	Includes Fault	HERS Verification	Status

n/a

Registration Date/Time: 2023-01-25 11:53:08

Report Version: 2022.0.000

Schema Version: rev 20220901

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2023-01-24T07:25:40-08:00 (Page 12 of 12) Project Name: 18743 County Road 97 ADU Calculation Description: Title 24 Analysis Input File Name: Redwood-ADU_18743-Cnty-Rd-97_ADU.ribd22x DOCUMENTATION AUTHOR'S DECLARATION STATEMENT .. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: mentation Author Signature: Melinda Wollny Melinda Wollny ResCom Energy 2023-01-24 07:28:00 CEA/ HERS Certification Identification (If applicable): 3166 Suisun Bay Rd 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: 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. 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. Max Kellogg Date Signed: 2023-01-25 11:53:08 KELLOGG CONSTRUCTION 2635 57TH STREET

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

Registration Number: 223-P010009725A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

City/State/Zip: SACRAMENTO, CA 95817

Registration Date/Time: 2023-01-25 11:53:08 Report Version: 2022.0.000 Schema Version: rev 20220901

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Report Generated: 2023-01-24 07:26:57

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NO.	DESCRIPTION	DATE
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TITLE 24

DRAWING TITLE:

DATE: 05.08.2023

AS SHOWN

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