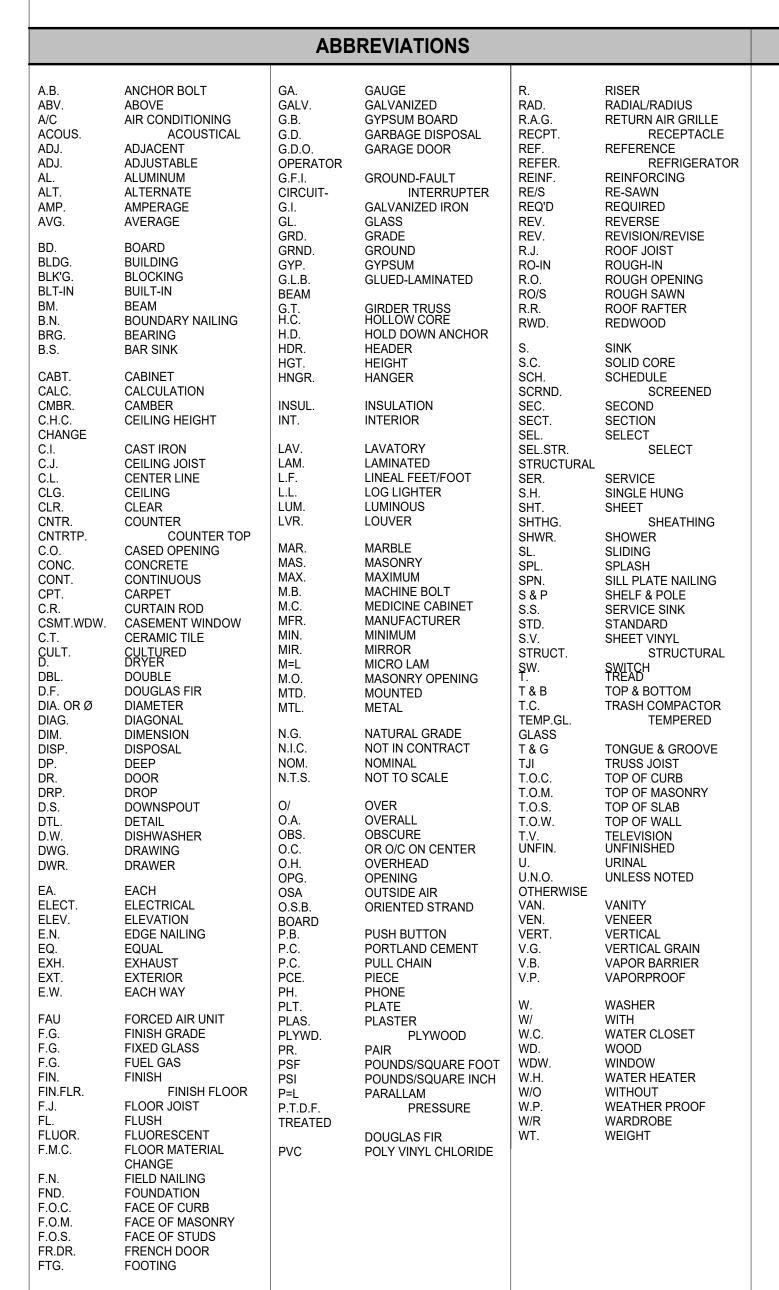
RICH RESIDENCE

3 SPRINGDALE WAY EMERALD HILLS, CA 94062



JOB SITE CONDITIONS

SAFETY, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A SAFE WORKING ENVIRONMENT ON THE JOB SITE.

CONSTRUCTION EXECUTION, EACH CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, AND EQUIPMENT NECESSARY TO PERFORM ALL WORK UNDER HIS TRADE IN FULL ACCORDANCE WITH THE WORKING

DRAWINGS, SPECIFICATIONS AND CONTRACTS. JOB SITE CONDITIONS, EACH CONTRACTOR SHALL CLEAN UP AND REMOVE ALL DEBRIS RESULTING FROM HIS WORK PRIOR TO SUBMITTING REQUEST FOR PROGRESS PAYMENT. IN NO CASE WILL FINAL PAYMENT BE DISPERSED TO EITHER THE PRIME CONTRACTOR OR ANY SUB-CONTRACTOR UNTIL ALL DEBRIS AND EQUIPMENT OWNED BY SAID

CONTRACTOR'S, HAS BEEN REMOVED FROM THIS PROJECT SITE OR UNTIL OWNER APPROVAL HAS BE GRANTED. THE RESPONSIBLE PARTY, EITHER THE PROJECT OWNER OR THIS SIGNED DESIGNER, SHALL BE NOTIFIED OF

ERRORS OR OMISSIONS FOR CORRECTIONS BEFORE PROCEEDING WITH THE WORK.

STORAGE, MATERIALS STORED ON SITE SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, WIND, SUN, ABUSE OR

CHANGES, ANY MINOR OR REQUIRED CHANGES OR MODIFICATIONS TO THIS PLAN DO NOT REDUCE OR VOID THE COPYRIGHTS COVERING THIS SET OF PLANS IN ANY WAY. MODIFICATIONS TO THIS PLAN, FOR ANY REASON, SHOULD BE ATTEMPTED BY AND ARCHITECT OR ENGINEER ONLY. DESIGNER ACCEPTS NO RESPONSIBILITY FOR THE QUALITY AND COMPLETENESS OF ANY CHANGES ATTEMPTED.

MATERIALS, ALL MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PER APPLICABLE CODES AND REQUIREMENTS. THE DESIGNER SHALL HAVE NO CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS AND REGULATIONS GOVERNING CONSTRUCTION. BUILDING ACCESS. AND THE USE OF FACILITIES. THIS INCLUDES THE 2019 CALIFORNIA BUILDING CODE & ALL CODES, ORDINANCES AND LAWS ADOPTED BY THE COUNTY OF SAN MATEO. 2. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201 2007 EDITION. GOVERNS THIS WORK 3. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS AND SHALL BASE HIS BID ON EXISTING CONDITIONS. SUBMIT WRITTEN EXCEPTIONS OR OBJECTIONS, WITH ANALYSIS AND RECOMMENDATIONS TO THE OWNER

PROJECT GENERAL NOTES

4. ALL MECHANICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA MECHANICAL CODE OR OVERRIDING LOCAL 5. ALL PLUMBING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA PLUMBING CODE OR OVERRIDING LOCAL

6. ALL ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 CALIFORNIA ELECTRICAL CODE OR OVERRIDING LOCAL 7. ALL SHEET METAL WORK AND FLASHING SHALL CONFORM TO S.M.A.C.N.A. STANDARDS.

8. COUNTY AMENDMENTS: COUNTY OF SAN MATEO CODE 9. ALL BUILDING STANDARD CONSTRUCTION, MATERIALS AND PRODUCTS SHALL CONFORM TO THE MOST CURRENT STANDARDS AND DETAILS AS OUTLINED IN THE SPECIFICATIONS, EXCEPT AS EXPLICITLY SUPERSEDED HEREIN.

1. REQUEST FOR SUBSTITUTION WILL BE RECEIVED FROM THE GENERAL CONTRACTOR ONLY

2. PRODUCTS IN THE CONSTRUCTION DOCUMENTS IDENTIFIED BY NAME, BRAND OR MODEL OF A MANUFACTURER'S ARTICLE SHALL BE PROVIDED UNLESS A WRITTEN REQUEST FOR SUBSTITUTION IS ACCEPTED BY THE ARCHITECT. IN THE EVENT THAT THE CONTRACTOR MAKES A SUBSTITUTION WITHOUT PRIOR APPROVAL FROM THE ARCHITECT, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE SUBSTITUTION AND REPLACE IT PER SPECIFICATIONS WITHOUT ANY ADJUSTMENT TO THE CONTRACT AMOUNT OR TIME. 3. THE PRODUCTS DESCRIBED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD OF REQUIRED FUNCTION, DIMENSION APPEARANCE AND QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION. THE BURDEN OF PROOF OF THE MERIT OF THE PROPOSED SUBSTITUTION IS UPON THE PROPOSER. THE OWNER'S DECISION OF THE APPROVAL OR DISAPPROVAL SHALL BE FINAL. 4. THE REQUEST SHALL INCLUDE ANY CHANGE REQUIRED IN OTHER ELEMENTS OF THE WORK DUE TO THE SUBSTITUTION

1. SCHEDULE SUBMITTALS TO EXPEDITE PROJECT, AS TO CAUSE NO DELAY IN THE WORK OR IN THE WORK OF THE OWNER OR ANY SEPARATE CONTRACTOR. SUBMITTALS NOT SPECIFICALLY REQUESTED SHALL BE RETURNED WITHOUT REVIEW. 2. SHOP DRAWINGS SHALL BE DRAWN AT A SCALE SUFFICIENT FOR CLARITY AND COORDINATION AND SHALL SHOW NECESSARY WORKING AND ERECTION DIMENSIONS.

3. CIRCLE ALL DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS AND PROVIDE A BRIEF WRITTEN EXPLANATION TO CLARIFY AND SUPPORT REASONS FOR PROPOSED DEVIATION. 4. THE CONTRACTOR SHALL PROVIDE THE OWNER A PROJECT SCHEDULE OUTLINING THE WORK TO OCCUR, AND THE MATERIALS

BEING ORDERED ON A WEEKLY BASIS PRIOR TO BEGINNING THE PROJECT. 5. CONTRACTOR SHALL ALLOW 5 DAYS FOR ARCHITECT AND OWNER TO REVIEW SUBMITTALS.

6. ALL SUBMITTALS SHALL HAVE CONTRACTORS STAMP INDICATING SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY GENERAL CONTRACTOR PRIOR TO BEING SEND TO ARCHITECT AND OWNER FOR REVIEW. 7. SUBMITTALS SENT FOR ARCHITECT AND OWNER REVIEW THAT DO NOT HAVE THE STAMP OF THE GENERAL CONTRACTOR WILL BE

1. BY ACCEPTING THESE DRAWINGS THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY CONDITIONS FOR ALL PERSONS AND PROPERTY, CONTINUOUSLY DURING CONSTRUCTION OF THIS PROJECT, AND NOT LIMITED TO NORMAL WORKING HOURS 2. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING WORK, EQUIPMENT, MATERIALS AND FINISHES. DAMAGED ITEMS SHALL BE

REPAIRED OR REPLACED AT THE EXPENSE OF THE GENERAL CONTRACTOR. 3. THE CONTRACTOR SHALL AT ALL TIMES DURING THE COURSE OF THE CONTRACT KEEP THE BUILDING, THE OWNER'S PREMISES AND THE ADJOINING PREMISES, INCLUDING STREETS AND OTHER AREAS ASSIGNED TO, OR USED BY THE CONTRACTOR, FROM

ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY HIS EMPLOYEES, SUBCONTRACTORS OR THEIR WORK. 4. CONTRACTOR SHALL VERIFY LOCATION OF TRANSFORMERS AND UNDERGROUND UTILITIES WITH APPLICABLE UTILITY COMPANIES. 5. CONTRACTOR SHALL PROTECT FROM DAMAGE AND KEEP CLEAN ALL COMMON AREAS OF THE PROJECT.

PERFORMANCE REQUIREMENTS: 1. DO NOT SCALE DRAWINGS.

2. ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED AND CHECKED BY THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS PRIOR TO BEGINNING WORK AND PRIOR TO ORDERING ANY MATERIALS. ANY ERRORS,

OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE GENERAL

CONTRACTOR, SHOULD THERE BE ANY DISCREPANCIES, ERRORS OR OMISSIONS IN THESE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND WAIT TO RECEIVE WRITTEN INSTRUCTIONS BEFORE PROCEEDING

3. THESE DRAWINGS AND SPECIFICATIONS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTORS, SUBCONTRACTORS, AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN BIDDING AND PERFORMING THEIR WORK, AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS ON THE DRAWINGS.

4. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHERS. SUBCONTRACTORS SHALL VERIFY THAT ANY WORK RELATED TO THEM, WHICH MUST BE PROVIDED BY OTHERS. HAS BEEN COMPLETED AND IS ADEQUATE PRIOR TO COMMENCING THEIR WORK.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, COORDINATION, AND EXECUTION OF CONSTRUCTION MEANS, METHODS

7. PATCH AND REPAIR ALL DISTURBED AREAS TO MATCH ADJACENT SYSTEMS, MATERIALS, AND FINISHES, UNLESS OTHERWISE NOTED. 8. INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURERS WRITTEN RECOMMENDATIONS.

9. ALL INTERIOR DIMENSIONS SHOWN IN FLOOR PLANS ARE FACE OF FINISH, U.O.N. 10 ALL EXTERIOR DIMENSIONS ARE SHOW FACE OF FRAMING, U.O.N.

5. PROVIDE STRUCTURAL BACKING FOR ALL WALL MOUNTED EQUIPMENT.

11. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.

12. ALL GLAZING SUBJECT TO HUMAN IMPACT SHALL BE 1/4" TEMPERED GLASS UNLESS OTHERWISE NOTED. 13. CONTRACTOR SHALL FURNISH AND INSTALL ALL DOORS COMPLETE WITH ALL HARDWARE AS REQUIRED BY CODE AND/OR SPECIFIC

14. FIRE EXTINGUISHERS SHALL BE LOCATED ACCORDING TO CODE REQUIREMENTS AND MEET ALL APPLICABLE CODES 15. WHERE NEW WALLS ALIGN WITH EXISTING WALLS, RESULTANT WALL SURFACES SHALL FORM A SMOOTH AND CONTINUOUS PLANE.

16. AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE FROM THE BUILDING AND THE PREMISES ALL SURPLUS MATERIALS AND DEBRIS, AND CLEAN ALL NEW WORK TO THE OWNERS SATISFACTION. INCLUDING BUT NOT LIMITED TO CLEANING INTERIOR GLASS, CLEANING ALL MILLWORK, INSIDE AND OUTSIDE OF CABINETRY, AND CLEANING AND WAXING ALL FLOORING. 17. ALL BUILDING MATERIALS SHALL BE THE MOST NONTOXIC AND THE LOWEST POLLUTING AVAILABLE. THE BUILDING SHALL BE

VENTILATED DURING CONSTRUCTION AND THOROUGHLY AIRED OUT BEFORE OCCUPANCY. 18. NAIL UP ALL J-BOXES FOR REVIEW PRIOR TO WIRING. VERIFY ALL LOCATIONS OF POWER OUTLETS, PHONE JACKS, TV, LIGHT

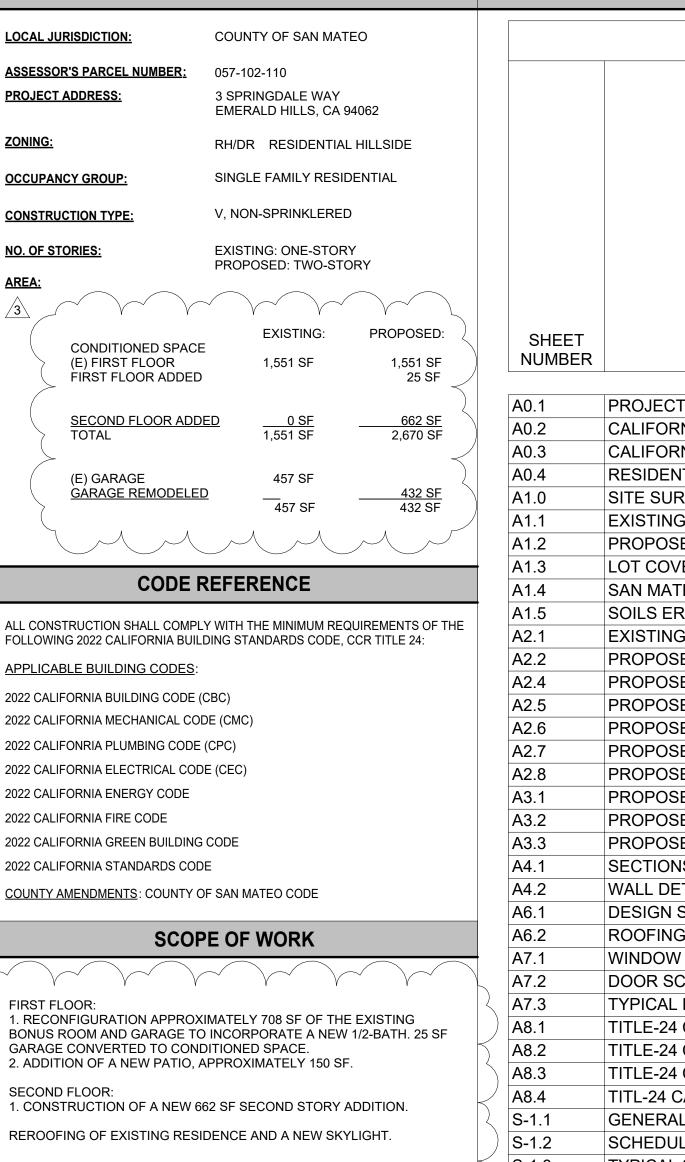
FIXTURES AND SWITCHES W/ OWNER PRIOR TO WIRING 19. CONTRACTOR SHALL PROVIDE SAMPLES OF ALL MATERIALS (INCLUDING BUT NOT LIMITED TO: TILE, TILE TRIM, PAINT, ROOFING, SIDING, WOOD TRIM, WOOD BASE, COUNTERTOPS AND HARDWARE.)TO THE OWNER FOR APPROVAL PRIOR TO ORDERING MATERIALS.

20. THE CONTRACTOR SHALL VERIFY WITH THE OWNER MINIMALLY THREE WEEKS PRIOR TO COVER-UP OF THE SPECIAL WIRING REQUIREMENTS SUCH AS ALARMS AND STEREO SYSTEMS.

22. ALL ELECTRICAL, HVAC, AND PLUMBING SHALL BE DESIGN BUILD BASED ON INFORMATION PROVIDED BY THE CONSTRUCTION DOCUMENTS.

22. A MINIMUM OF 60 PERCENT OF THE CONSTRUCTION WASTE GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE. 23. AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER. DEFINITIONS: "TYPICAL" MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS, U.O.N. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. "ALIGN" MEANS TO ACCURATELY LOCATE FINISHES IN THE SAME PLANE.

24. BUILDING ADDRESS: TO BE POSTED IN A CONSPICUOUS PLACE AND LIGHTED EXTERNALLY. NUMBERS SHALL BE OF CONTRASTING COLOR TO BACKGROUND COLOR



PROJECT DATA

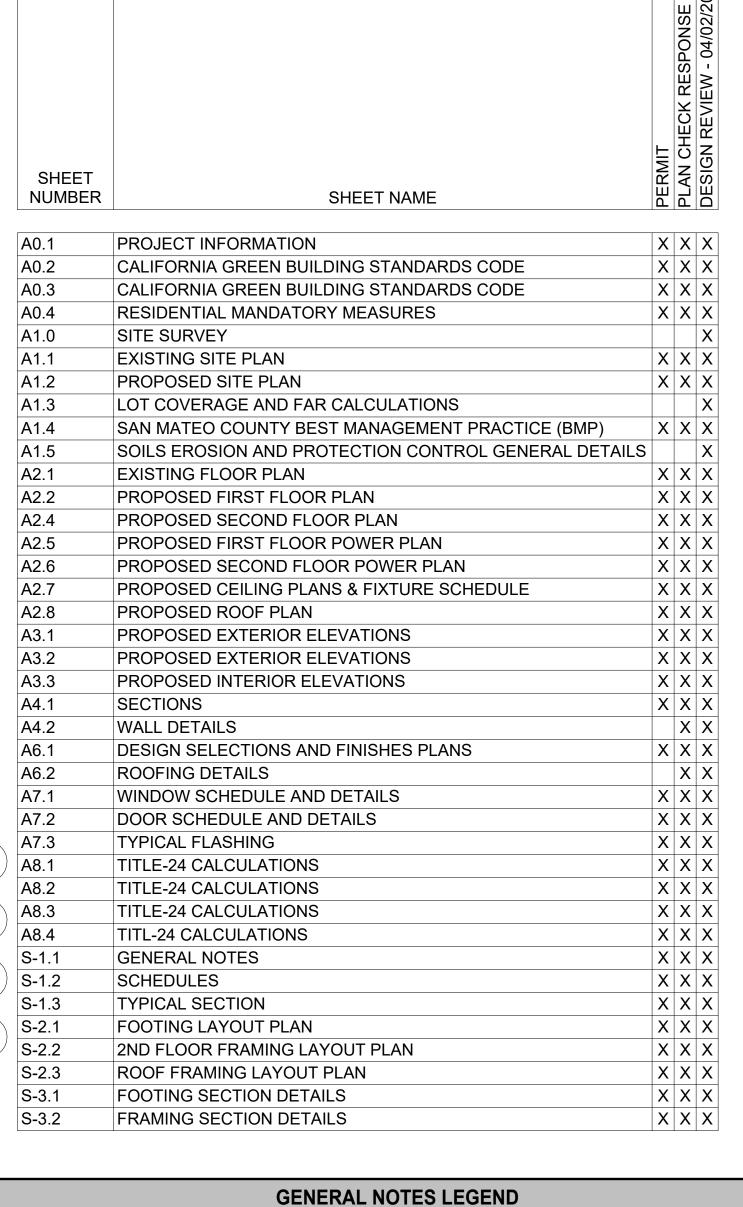
FPA 13D SPRINKLER SYSTEM REQUIRED.

TO BE SUBMITTED UNDER SEPARATE PERMIT

REFERENCE MAP

PROJECT SITE

2 SPRINGDALE WAY REDWOOD CITY, CA 94062



KEY NOTE REFERENCE

EXISTING FULL HEIGHT

EXISTING FULL HEIGHT

DETAIL OR PLAN ENLARGEMENT

DEMISING WALL

DEMISING WALL

DETAIL NUMBER

CENTERLINE _____

Hoover Tower 💿 🧖 🖓

Map data ©2023 Google 2000 ft ■

SHEET INDEX

SHEET INDEX



ARCHITECT

DERN ARCHITECTURE + DEVELOPMENT, PC 110 CASA GRANDE LOS GATOS, CA 95032 MICHAEL DERN, AIA PRINCIPAL (415) 307-1283

CLIENT

ZAC AND ASHLEY RICH 3 SPRINGDALE WAY EMERALD HILLS, CA 94062



3 DESIGN REVIEW

DA+D PROJECT NUMBER

7/11/2023

PERMIT

☐ DETAIL NUMBER

SECTION REFERENCE

INTERIOR ELEVATION REFERENCE

SECTION NUMBER

ELEVATION NUMBER

COLUMN LINES

\ A6.1 /→ SHEET NUMBER

PROJECT INFORMATION

4/02/24

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accordance with the California Electrical Code.

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent

location shall be permanently and visibly marked as "EV CAPABLE".

protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination

California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

installed in close proximity to the location or the proposed location of the EV space, at the time of original

2.Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the

electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required

raceways and related components that are planned to be installed underground, enclosed, inaccessible or in

location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide

information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and

construction in accordance with the California Electrical Code.

concealed areas and spaces shall be installed at the time of original construction

installed in close proximity to the location or the proposed location of the EV space at the time of original **CHAPTER 3** construction in accordance with the California Electrical Code. 4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. **GREEN BUILDING** 4.304 OUTDOOR WATER USE When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the 4.106.4.2.4 Identification. 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest **SECTION 301 GENERAL** The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Efficient Landscape Ordinance (MWELO), whichever is more stringent. space shall count as at least one standard automobile parking space only for the purpose of complying with any 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 4.106.4.2.5 Electric Vehicle Ready Space Signage. the application checklists contained in this code. Voluntary green building measures are also included in the Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans application checklists and may be included in the design and construction of structures covered by this code, Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations. but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 4.106.4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are than 20 sleeping units or guest rooms. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to available at: https://www.water.ca.gov/ The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to I.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or specific area of the addition or alteration. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or **EFFICIENCY** of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all 4.106.4.3 for application **4.406.1 RODENT PROOFING.** Annular spaces around pipes, electric cables, conduits or other openings in EVs at all required EV spaces at a minimum of 40 amperes. sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such 1.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved lighting fixtures are not considered alterations for the purpose of this section. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, of 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 DIVISION 4.2 ENERGY EFFICIENCY Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate percent of the non-hazardous construction and demolition waste in accordance with either Section 1.When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1. 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and management ordinance. **4.201.1 SCOPE.** For the purposes of mandatory energy efficiency standards in this code, the California Energy other important enactment dates. 2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable Commission will continue to adopt mandatory standards. spaces, the number of EV capable spaces required may be reduced by a number equal to the number of 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION Excavated soil and land-clearing debris. individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential Alternate waste reduction methods developed by working with local agencies if diversion or 4.303 INDOOR WATER USE buildings, or both. Individual sections will be designated by banners to indicate where the section applies recycle facilities capable of compliance with this item do not exist or are not located reasonably specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, high-rise buildings, no banner will be used. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility. Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving GC b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or **SECTION 302 MIXED OCCUPANCY BUILDINGS** 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan EV chargers are installed for use. plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final in conformance with Items 1 through 5. The construction waste management plan shall be updated as 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building completion, certificate of occupancy, or final permit approval by the local building department. See Civil necessary and shall be available during construction for examination by the enforcing agency. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power shall comply with the specific green building measures applicable to each specific occupancy. Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per buildings affected and other important enactment dates. 1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, dwelling unit when more than one parking space is provided for use by a single dwelling unit. 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall reuse on the project or salvage for future use or sale. comply with Chapter 4 and Appendix A4, as applicable. **4.303.1.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per Specify if construction and demolition waste materials will be sorted on-site (source separated) or Exception: Areas of parking facilities served by parking lifts. 2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense bulk mixed (single stream). Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with 3. Identify diversion facilities where the construction and demolition waste material collected will be 4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more Chapter 4 and Appendix A4, as applicable. sleeping units or guest rooms. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume 4. Identify construction methods employed to reduce the amount of construction and demolition waste The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to DIVISION 4.1 PLANNING AND DESIGN of two reduced flushes and one full flush. Specify that the amount of construction and demolition waste materials diverted shall be calculated **ABBREVIATION DEFINITIONS:** 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. by weight or volume, but not by both 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types Department of Housing and Community Development The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 California Building Standards Commission **4.408.3 WASTE MANAGEMENT COMPANY.** Utilize a waste management company, approved by the EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical DSA-SS Division of the State Architect, Structural Safety enforcing agency, which can provide verifiable documentation that the percentage of construction and Office of Statewide Health Planning and Development system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all OSHPD demolition waste material diverted from the landfill complies with Section 4.408.1. EVs at all required EV spaces at a minimum of 40 amperes. Low Rise **4.303.1.3.1 Single Showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA **Note:** The owner or contractor may make the determination if the construction and demolition waste The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved Additions and Alterations WaterSense Specification for Showerheads. materials will be diverted by a waste management company. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. **4.303.1.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one **4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR].** Projects that generate a total combined **CHAPTER 4** Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in RESIDENTIAL MANDATORY MEASURES reduced by a number equal to the number of EV chargers installed over the five (5) percent required. allow one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. **4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds **SECTION 4.102 DEFINITIONS** a. Construction documents shall show locations of future EV spaces. 4.303.1.4 Faucets. per square foot of the building area, shall meet the minimum 65% construction waste reduction 4.102.1 DEFINITIONS requirement in Section 4.408.1 The following terms are defined in Chapter 2 (and are included here for reference) b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or 4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall EV chargers are installed for use not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall **4.408.5 DOCUMENTATION**. Documentation shall be provided to the enforcing agency which demonstrates FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar not be less than 0.8 gallons per minute at 20 psi. compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4.. pervious material used to collect or channel drainage or runoff water. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per 4 303 1 4 2 Layatory Faucets in Common and Public Use Areas. The maximum flow rate of layatory **WATTLES.** Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials dwelling unit when more than one parking space is provided for use by a single dwelling unit. faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also buildings shall not exceed 0.5 gallons per minute at 60 psi. 1. Sample forms found in "A Guide to the California Green Building Standards Code Exception: Areas of parking facilities served by parking lifts. used for perimeter and inlet controls. (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in **4.303.1.4.3 Metering Faucets.** Metering faucets when installed in residential buildings shall not deliver documenting compliance with this section 4.106 SITE DEVELOPMENT 3.EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. more than 0.2 gallons per cycle. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Where common use parking is provided, at least one EV charger shall be located in the common use parking 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation Department of Resources Recycling and Recovery (CalRecycle). area and shall be available for use by all residents or guests. and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons management of storm water drainage and erosion controls shall comply with this section. per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not 4.410 BUILDING MAINTENANCE AND OPERATION When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per **4.410.1 OPERATION AND MAINTENANCE MANUAL.** At the time of final inspection, a manual, compact I.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less an automatic load management system (ALMS) may be used to reduce the maximum required electrical disc, web-based reference or other media acceptable to the enforcing agency which includes all of the than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers following shall be placed in the building: shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) or more, shall manage storm water drainage during construction. In order to manage storm water drainage Note: Where complying faucets are unavailable, aerators or other means may be used to achieve served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall during construction, one or more of the following measures shall be implemented to prevent flooding of adjacen 1. Directions to the owner or occupant that the manual shall remain with the building throughout the property, prevent erosion and retain soil runoff on the site. have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical life cycle of the structure. capacity to the required EV capable spaces. 4.303.1.4.5 Pre-rinse spray valves. 2. Operation and maintenance instructions for the following: 1. Retention basins of sufficient size shall be utilized to retain storm water on the site. When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance a. Equipment and appliances, including water-saving devices and systems, HVAC systems, 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar 4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 photovoltaic systems, electric vehicle chargers, water-heating systems and other major Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1 disposal method, water shall be filtered by use of a barrier system, wattle or other method approved (d)(7) and shall be equipped with an integral automatic shutoff. appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. 3. Compliance with a lawfully enacted storm water management ordinance. Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels FOR REFERENCE ONLY: The following table and code section have been reprinted from the California c. Space conditioning systems, including condensers and air filters. shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section d. Landscape irrigation systems. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or 1605.3 (h)(4)(A). e. Water reuse systems are part of a larger common plan of development which in total disturbs one acre or more of soil. Information from local utility, water and waste recovery providers on methods to further reduce 4.106.4.2.2.1.1 Location. resource consumption, including recycle programs and locations. (Website: https://www.waterboards.ca.gov/water issues/programs/stormwater/construction.html) EVCS shall comply with at least one of the following options: TABLE H-2 Public transportation and/or carpool options available in the area. Educational material on the positive impacts of an interior relative humidity between 30-60 percent **4.106.3 GRADING AND PAVING.** Construction plans shall indicate how the site grading or drainage system will 1. The charging space shall be located adjacent to an accessible parking space meeting the requirements of and what methods an occupant may use to maintain the relative humidity level in that range. the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY 6. Information about water-conserving landscape and irrigation design and controllers which conserve water include, but are not limited to, the following: VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 2. The charging space shall be located on an accessible route, as defined in the California Building Code, 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. Water collection and disposal systems PRODUCT CLASS Information on required routine maintenance measures, including, but not limited to, caulking, MAXIMUM FLOW RATE (gpm) French drains Exception: Electric vehicle charging stations designed and constructed in compliance with the California [spray force in ounce force (ozf)] painting, grading around the building, etc. Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section Water retention gardens Information about state solar energy and incentive programs available. 5. Other water measures which keep surface water away from buildings and aid in groundwater 10. A copy of all special inspections verifications required by the enforcing agency or this code. Product Class 1 (≤ **5.0 ozf)** 1.00 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions. space around residential structures. **Exception**: Additions and alterations not altering the drainage path. The charging spaces shall be designed to comply with the following: Product Class 2 (> 5.0 ozf and \leq 8.0 ozf) 1.20 12. Information and/or drawings identifying the location of grab bar reinforcements. Product Class 3 (> 8.0 ozf) 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 1. The minimum length of each EV space shall be 18 feet (5486 mm). **4.410.2 RECYCLING BY OCCUPANTS.** Where 5 or more multifamily dwelling units are constructed on a 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 2. The minimum width of each EV space shall be 9 feet (2743 mm). 1. 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)] depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling 3.One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial ordinance, if more restrictive. 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is infrastructure are not feasible based upon one or more of the following conditions: 12 feet (3658 mm). Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate California Plumbing Code. 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of a.Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional **4.303.3 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in local utility infrastructure design requirements, directly related to the implementation of Section accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 4.106.4, may adversely impact the construction cost of the project. 4.106.4.2.2.1.3 Accessible EV spaces. 1701.1 of the California Plumbing Code. In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional DIVISION 4.5 ENVIRONMENTAL QUALITY comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section **SECTION 4.501 GENERAL** THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. 4.501.1 Scope 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, 4.106.4.2.3 EV space requirements dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway TABLE - MAXIMUM FIXTURE WATER USE rritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors. shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main 1.Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall SECTION 4.502 DEFINITIONS proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close 5.102.1 DEFINITIONS concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere proximity to the location or the proposed location of the EV space. Construction documents shall identify the SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI The following terms are defined in Chapter 2 (and are included here for reference) raceway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device overcurrent protective device. AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device. LAVATORY FAUCETS (RESIDENTIAL) cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements. Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is _AVATORY FAUCETS IN COMMON & PUBLIC **COMPOSITE WOOD PRODUCTS.** Composite wood products include hardwood plywood, particleboard and

0.5 GPM @ 60 PSI

1.8 GPM @ 60 PSI

0.2 GAL/CYCLE

1.28 GAL/FLUSH

0.125 GAL/FLUSH

JSE AREAS

KITCHEN FAUCETS

WATER CLOSET

VISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE END USER AS MEANS TO INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE CALIFORNIA GREEN BUILDING STANDARDS.

METERING FAUCETS

ARCHITECT DERN ARCHITECTURE + DEVELOPMENT, PC

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1 PC RESPONSE 1

2/14/24

DERN PROJECT NUMBER

7/11/2023

PERMIT

medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood,

structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated

wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for

combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

CALIFORNIA GREEN **BUILDING STANDARDS**



California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

VOC LIMIT

RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O³/g ROC). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood **PRODUCT-WEIGHTED MIR (PWMIR).** The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a). REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to **VOC.** A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). **4.503.1 GENERAL**. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances. 4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system. 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the

requirements of the following standards unless more stringent local or regional air pollution or air quality

- . Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and tricloroethylene), except for aerosol products, as specified in Subsection 2 below.
- 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17,

4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation

- **4.504.2.4 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
 - . Manufacturer's product specification. 2. Field verification of on-site product containers.

Less Water and Less Exempt Compounds in Grams բ	oer Liter)
ARCHITECTURAL APPLICATIONS	VOC LIMIT
NDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

- 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

(Less Water and Less Exempt Compounds in Gr	ams per Liter)
SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT

ARCHITECTURAL COATINGS23

COATING CATEGORY

OOATING CATEGORY	VOO EIIVII I
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

ATENI NOOF ING WEWDIANEO	250	
OOD COATINGS	275	
OOD PRESERVATIVES	350	
NC-RICH PRIMERS	340	
GRAMS OF VOC PER LITER OF COATING, IN EMPT COMPOUNDS	CLUDING WATER &	
THE SPECIFIED LIMITS REMAIN IN EFFECT E LISTED IN SUBSEQUENT COLUMNS IN TH		
VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY E CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS IGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS VAILABLE FROM THE AIR RESOURCES BOARD.		

TABLE 4.504.5 - FORMALDEHYDE I	LIMITS₁
MAXIMUM FORMALDEHYDE EMISSIONS IN PA	ARTS PER MILLION
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD2	0.13

MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," 🔲 🗆 GC Version 1.2, January 2017 (Emission testing method for California Specification 01350)

See California Department of Public Health's website for certification programs and testing labs.

hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seg.), by or before the dates specified in those sections, as shown in Table 4.504.5

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see
- CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered
- Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
- 5. Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL

4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. **4.505.2 CONCRETE SLAB FOUNDATIONS.** Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the

California Residential Code, Chapter 5, shall also comply with this section. **4.505.2.1 Capillary break.** A capillary break shall be installed in compliance with at least one of the

- 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute,
- 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.

2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end

- of each piece verified. 3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.
- nsulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying ecommendations prior to enclosure.

4.506 INDOOR AIR QUALITY AND EXHAUST **4.506.1 Bathroom exhaust fans.** Each bathroom shall be mechanically ventilated and shall comply with the

- . Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a
- a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of
- b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BY THOSE INDIVIDUAL PROJECT BY THOSE INDIVIDUAL PROJECT BY THOSE INDIVI

- 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or
- 2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. 4.507 ENVIRONMENTAL COMFORT

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

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

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

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

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

State certified apprenticeship programs.

702 QUALIFICATIONS

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

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

- . Certification by a national or regional green building program or standard publisher.
- 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.
- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

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

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

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in he appropriate section or identified applicable checklist.

ARCHITECT

DERN ARCHITECTURE + DEVELOPMENT, PC 110 CASA GRANDE LOS GATOS, CA 95032 MICHAEL DERN, AIA PRINCIPAL

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OWNER ZAC AND ASHLEY RICH 3 SPRINGDALE WAY EMERALD HILLS, CA 94062



DERN PROJECT NUMBER

1 PC RESPONSE 1

7/11/2023

PERMIT

CALIFORNIA GREEN **BUILDING STANDARDS** CODE SHEET NO.

2/14/24



2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.

(04/2022)	
Building Envelo	pe:
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.*
§ 110.7:	Air Leakage . All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.*
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation . Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102 Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder . In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products . Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45. *
ireplaces, Dec	prative Gas Appliances, and Gas Log:
	,, ,

§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches i area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device. *
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*

Space Conditioning Water Heating and Plumbing System:

Space Conditioning	ng, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification . Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission. *
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. *
§ 110.2(c):	Thermostats . All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
§ 110.3(c)3:	Insulation . Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)6:	Isolation Valves . Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

2022 Single-Family Posidential Mandatory Poquiroments Summany

ENERGY COMMISSION	2022 Single-Family Residential Mandatory Requirements Summary
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters. *
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	Liquid Line Drier . Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code.*
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2" higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
Ducts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. *
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers . Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
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2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.*
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CF ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling unit and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have deman controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C m be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Referer Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow

rates and sound requirements per §150.0(o)1G Pool and Spa Systems and Equipment: Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. * Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating. Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover. Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.

3 110.0.	The Light. Natara gas post and spa heaters must he that a continuously burning photogra.
§ 150.0(p):	Pool Systems and Equipment Installation . Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *
_ighting:	
§ 110.9:	Lighting Controls and Components . All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)1A:	Luminaire Efficacy . All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and line closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires . Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k). *

5/6/22



Electric and Energy Storage Ready:

2022 Single-Family Residential Mandatory Requirements Summary

INTROV COMMISSION	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires . Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls . Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all
§ 150.0(k)4:	applicable requirements may be used to meet these requirements. Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
olar Readiness:	
§ 110.10(a)1:	Single-family Residences . Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be
	located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	Shading . Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane. *
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	Documentation . A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."



2022 Single-Family Residential Mandatory Requirements Summary

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

^{*}Exceptions may apply.

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1 PC RESPONSE 1

DERN PROJECT NUMBER

7/11/2023

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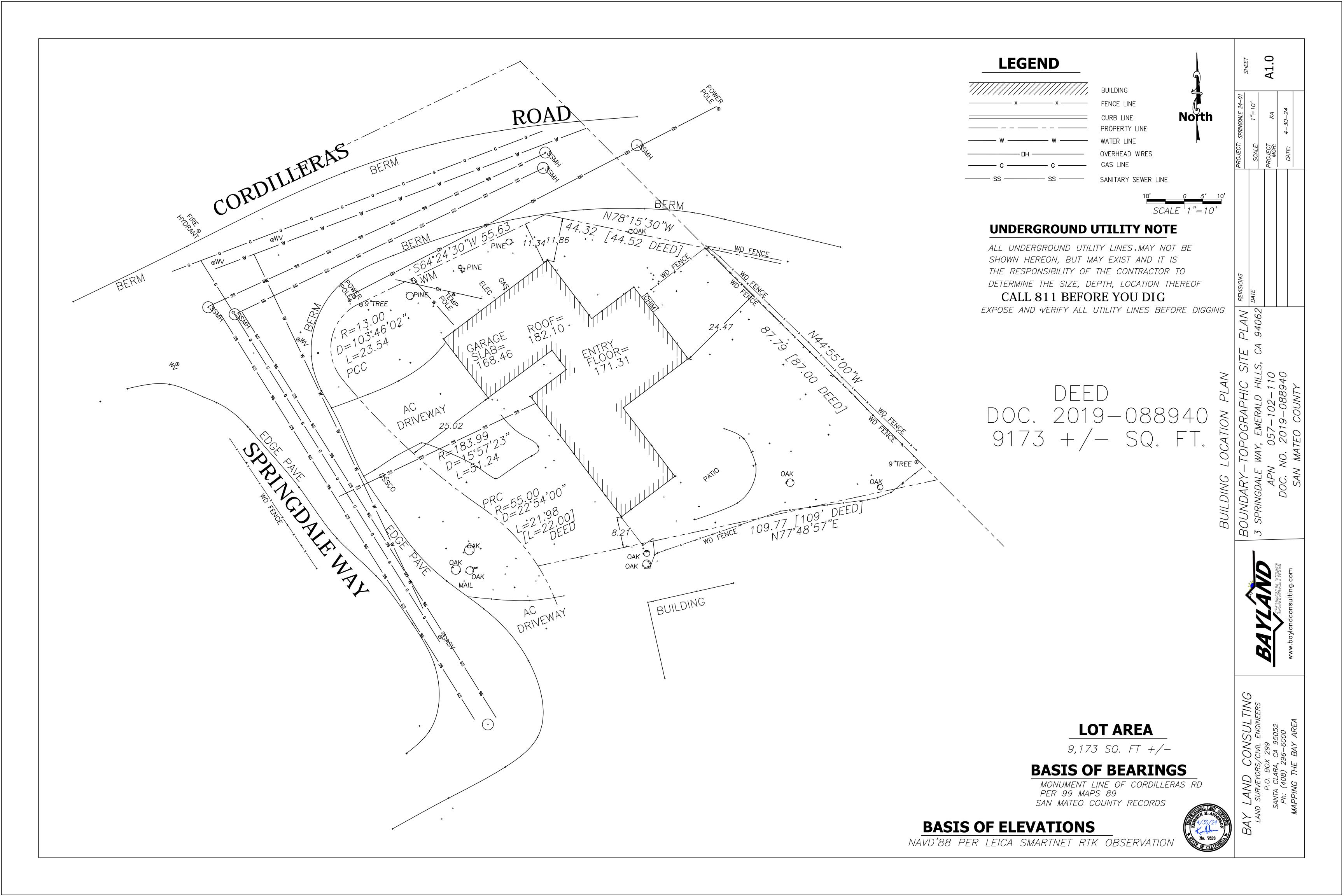
SHEET TITLE RESIDENTIAL **MANDATORY MEASURES**

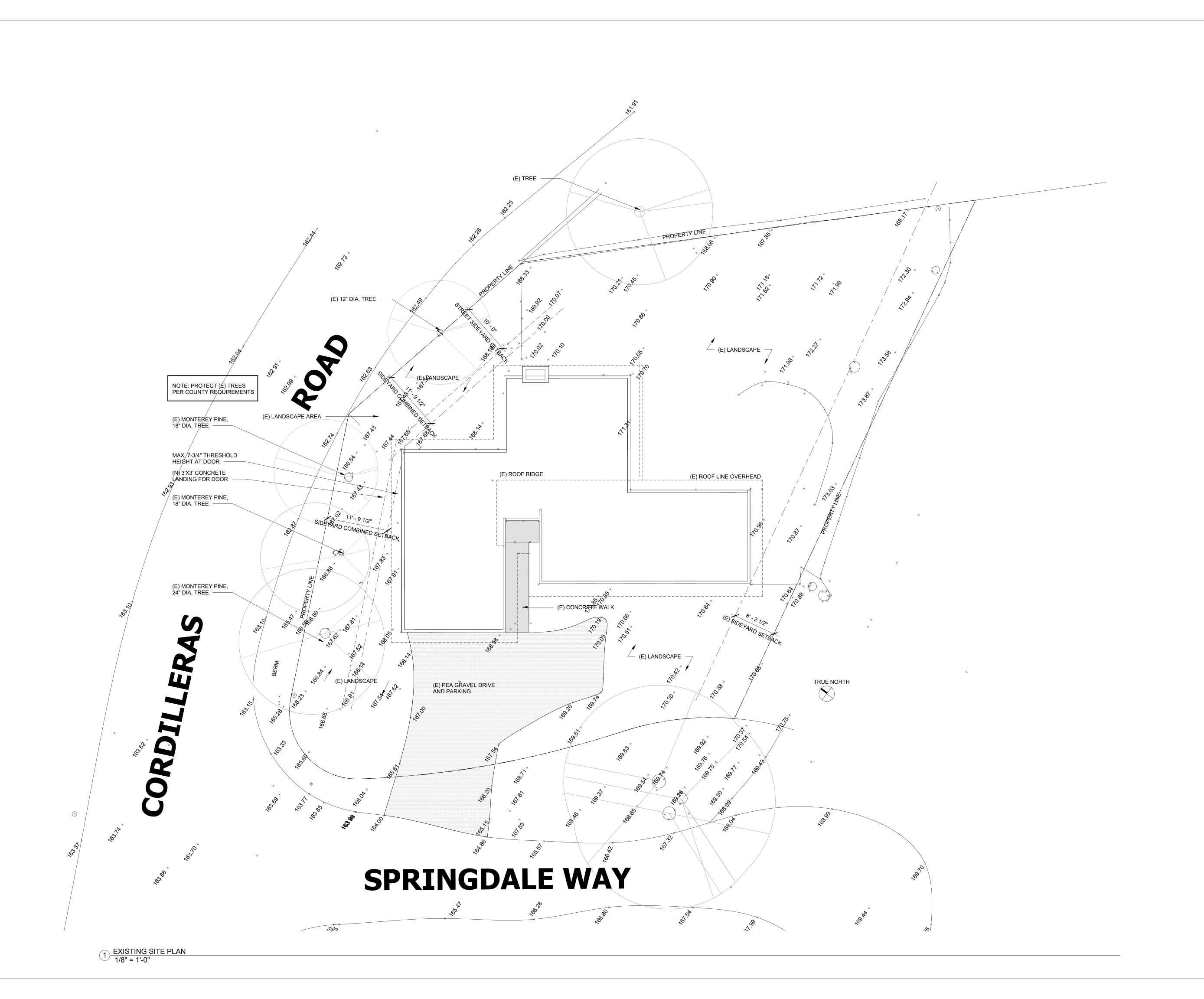
Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13

Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter

racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the

§ 150.0(m)12: or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A.





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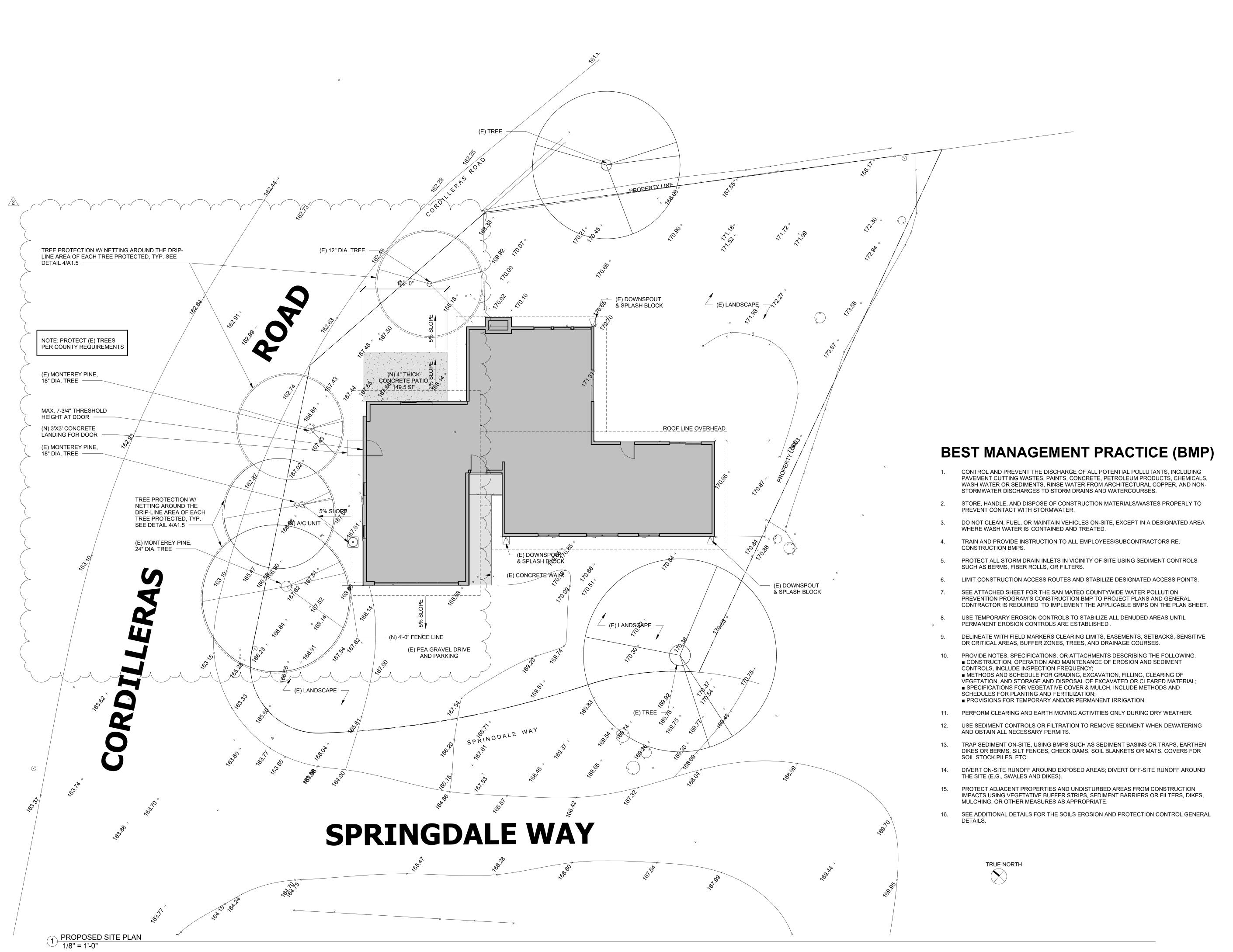
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EXISTING SITE PLAN

A1.1



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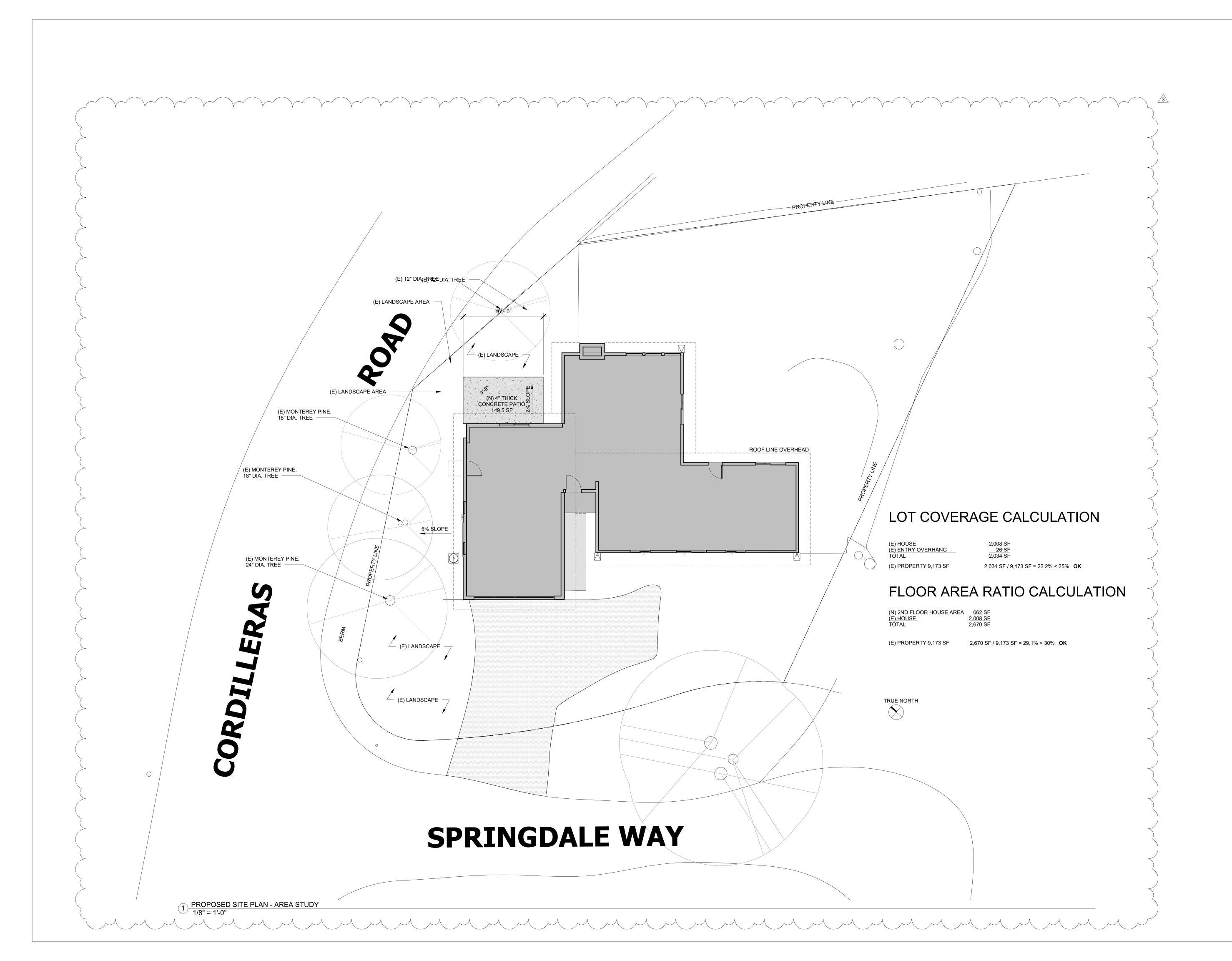
2 PC RESPONSE 2 4/02/24

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PROPOSED SITE PLAN



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RESIDENCE

3 SPRINGDALE WAY EMERALD HILLS, CA 94062

No. Description

3 DESIGN REVIEW 4

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LOT COVERAGE AND FAR CALCULATIONS

A1.3

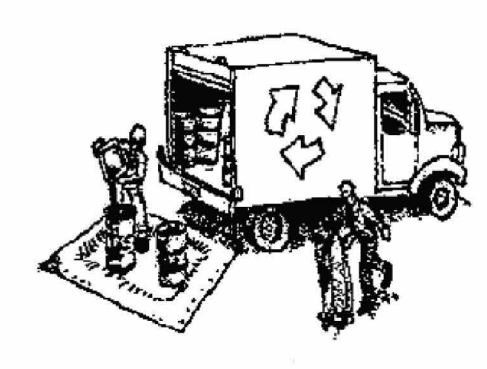


Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Clean Water. Healthy Community.

Materials & Waste Management



Non-Hazardous Materials

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ☐ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



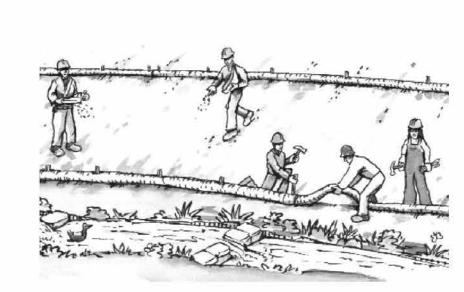
Maintenance and Parking

- ☐ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ☐ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ☐ Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ☐ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
- Unusual soil conditions, discoloration, or odor.
- Abandoned underground tanks.
- Abandoned wells
- Buried barrels, debris, or trash.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

Paving/Asphalt Work

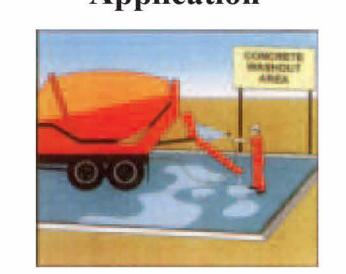


- ☐ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand Do NOT sweep or wash it into gutters.
- ☐ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

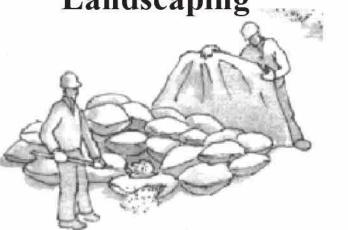
- ☐ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar **Application**

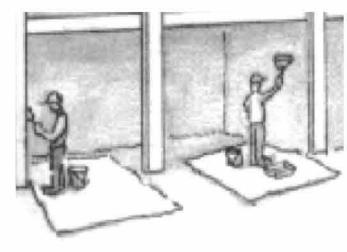


- ☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as
- ☐ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping

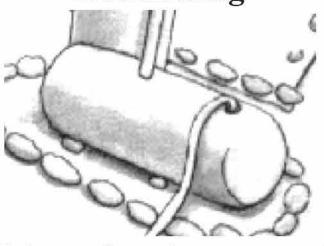


- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ☐ Stack bagged material on pallets and under cover.
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.



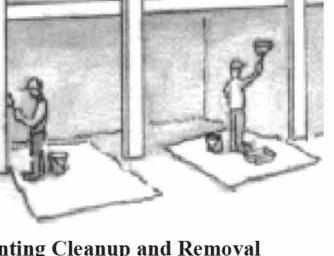
Painting Cleanup and Removal

- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Paint chips and dust from non-hazardous swept up or collected in plastic drop cloths and disposed of as trash.
- and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a statecertified contractor.



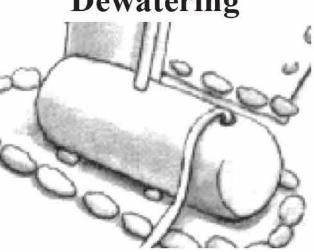
- ☐ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ☐ Divert run-on water from offsite away from all disturbed areas.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ☐ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Painting & Paint Removal



- dry stripping and sand blasting may be ☐ Chemical paint stripping residue and chips

Dewatering



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3 SPRINGDALE WAY EMERALD HILLS, CA 94062

DERN PROJECT NUMBER 2304

7/11/2023

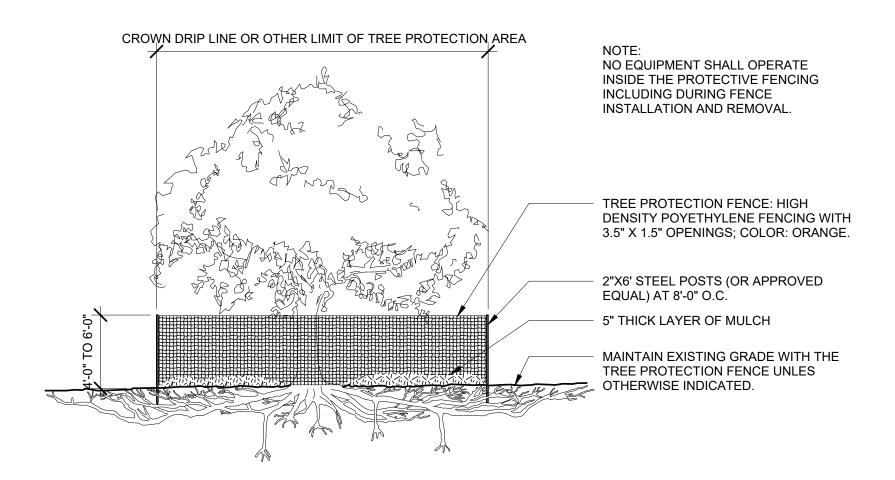
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SAN MATEO COUNTY **BEST MANAGEMENT** PRACTICE (BMP)

A1.4



TREE PROTECTION
1/8" = 1'-0"

Fiber Rolls

Vertical spacing measured along the

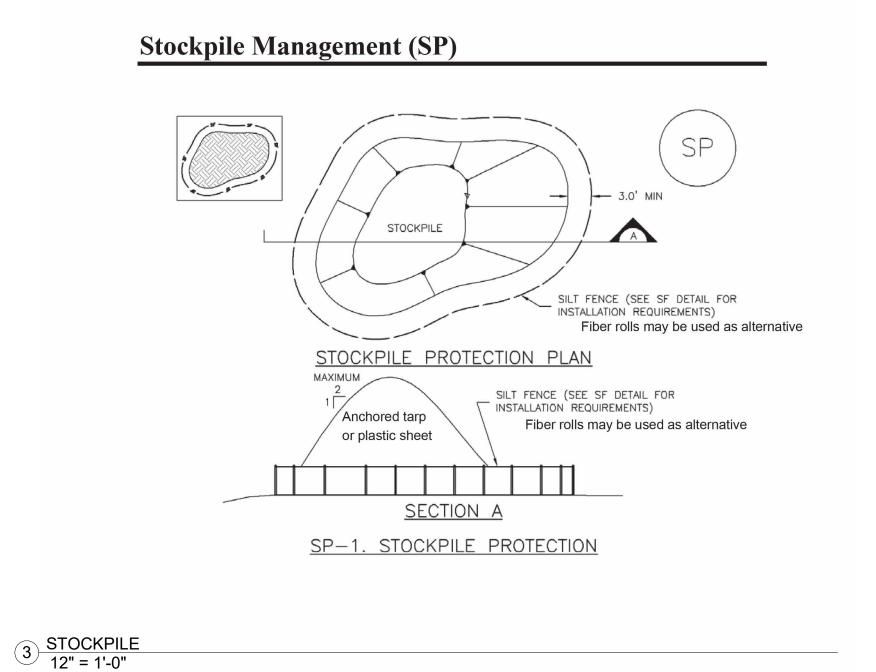
varies between 10' and 20'

face of the slope

N.T.S.

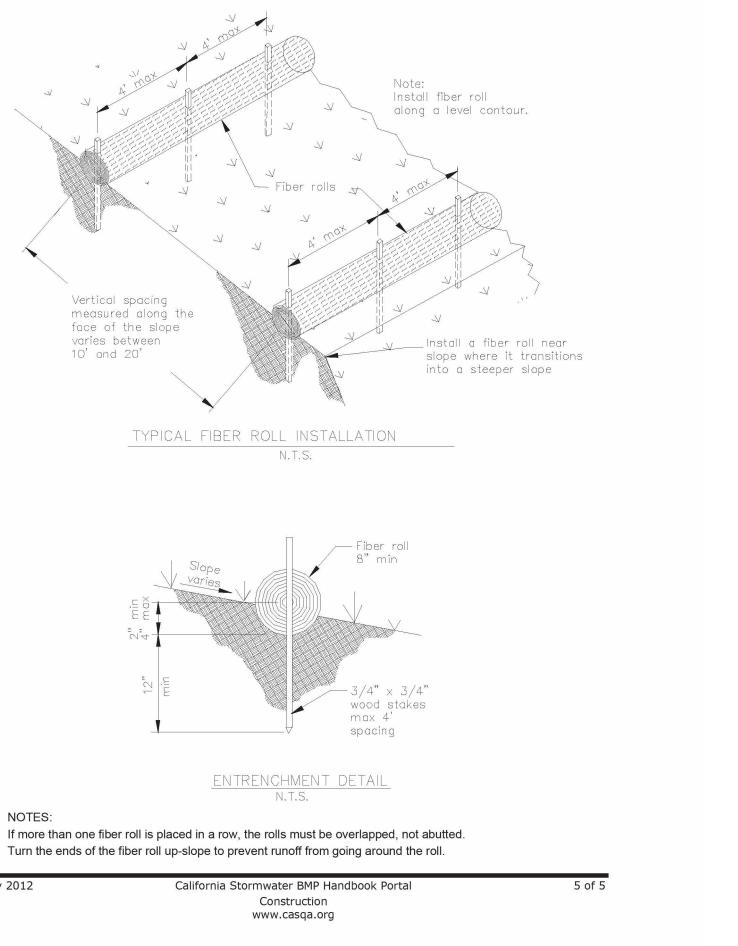
Construction

www.casqa.org





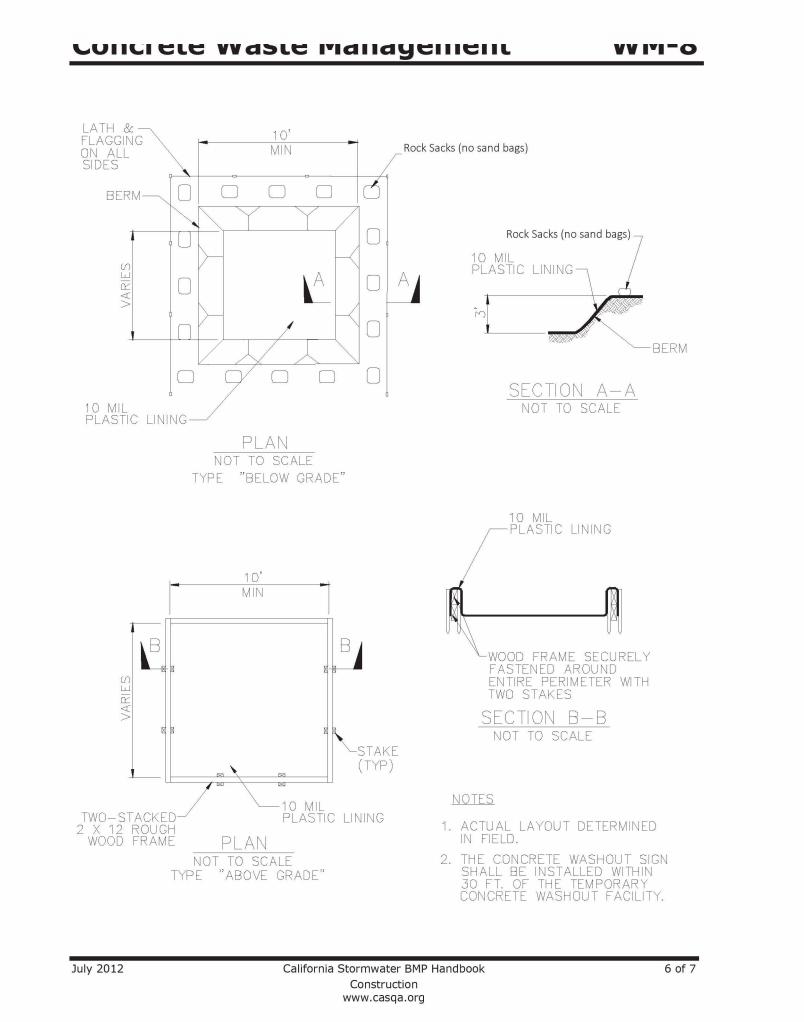
1 CONCRETE WASHOUT 12" = 1'-0"

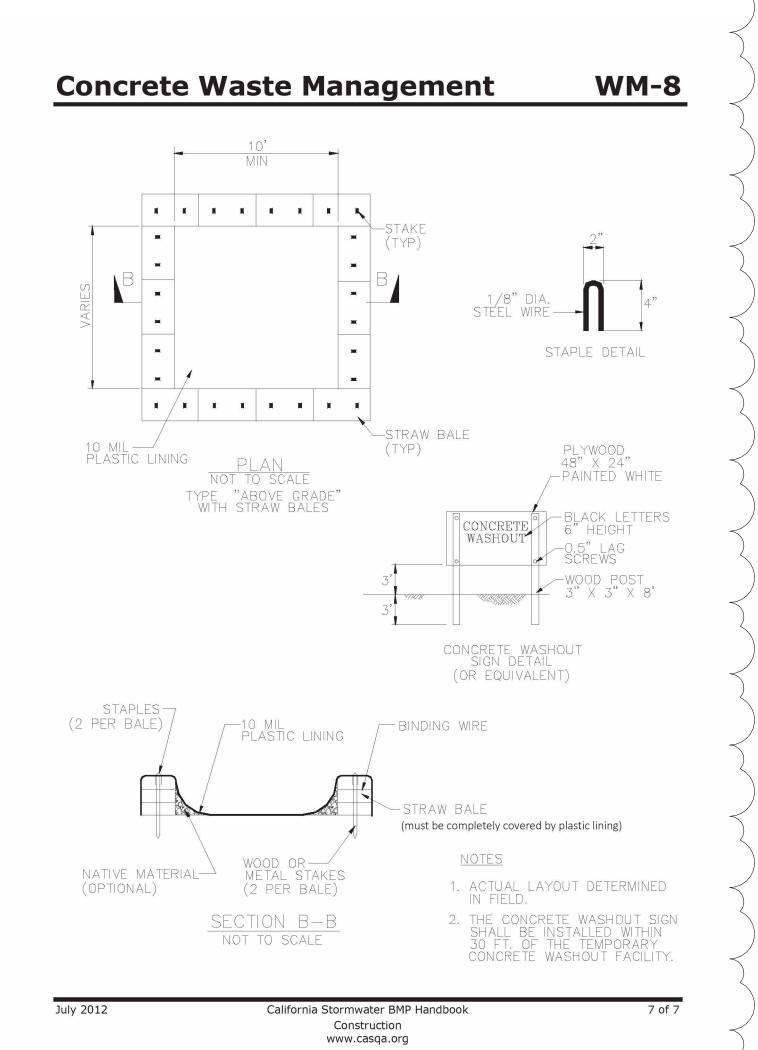


SE-5

2 FIBER ROLLS 12" = 1'-0"

July 2012





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2 PC RESPONSE 2 4/02/24

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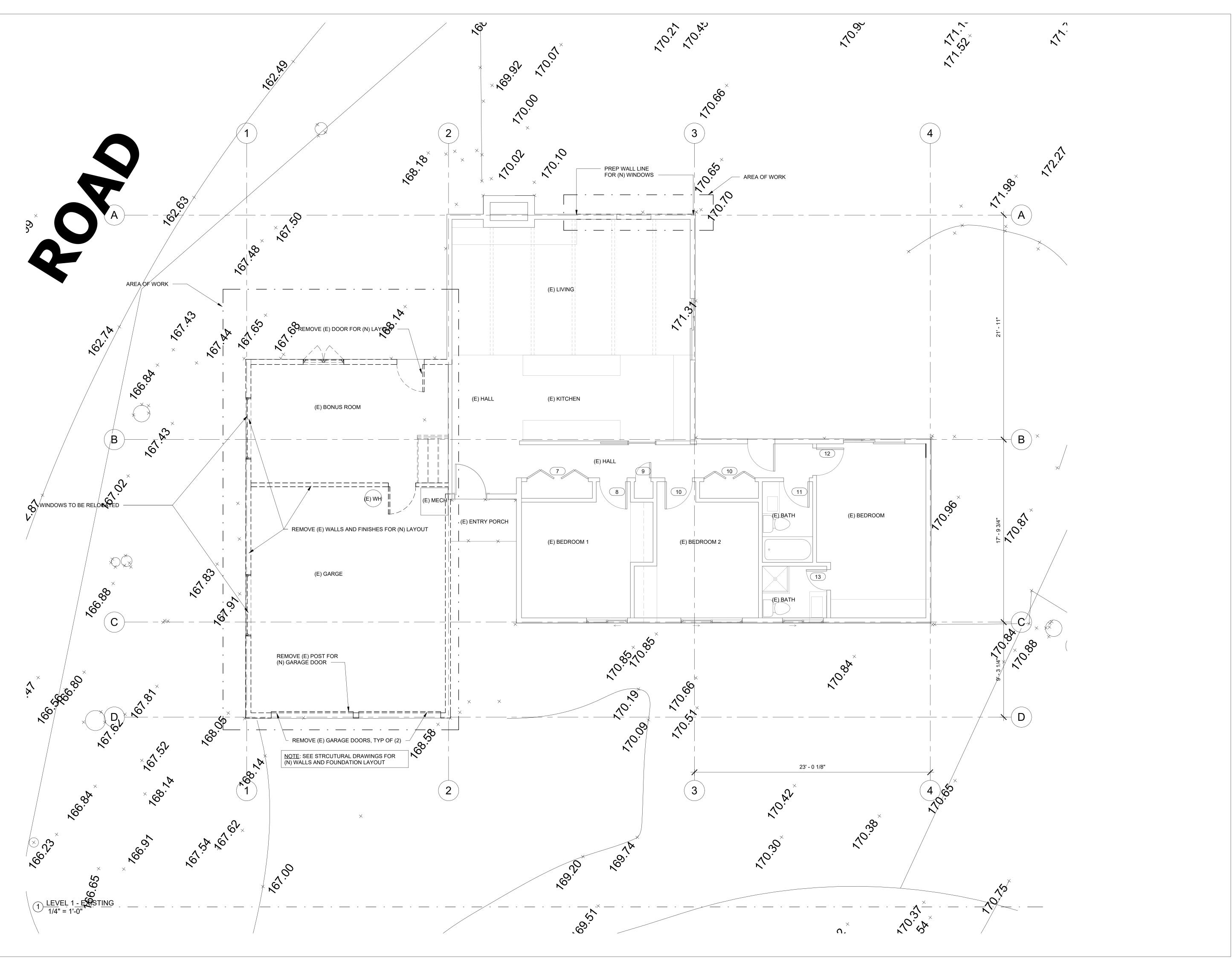
DATE 7/11/2023

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SHEET TITLE

SOILS EROSION AND PROTECTION CONTROL GENERAL DETAILS
SHEET NO.

A1.5



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ICH RESIDENCE

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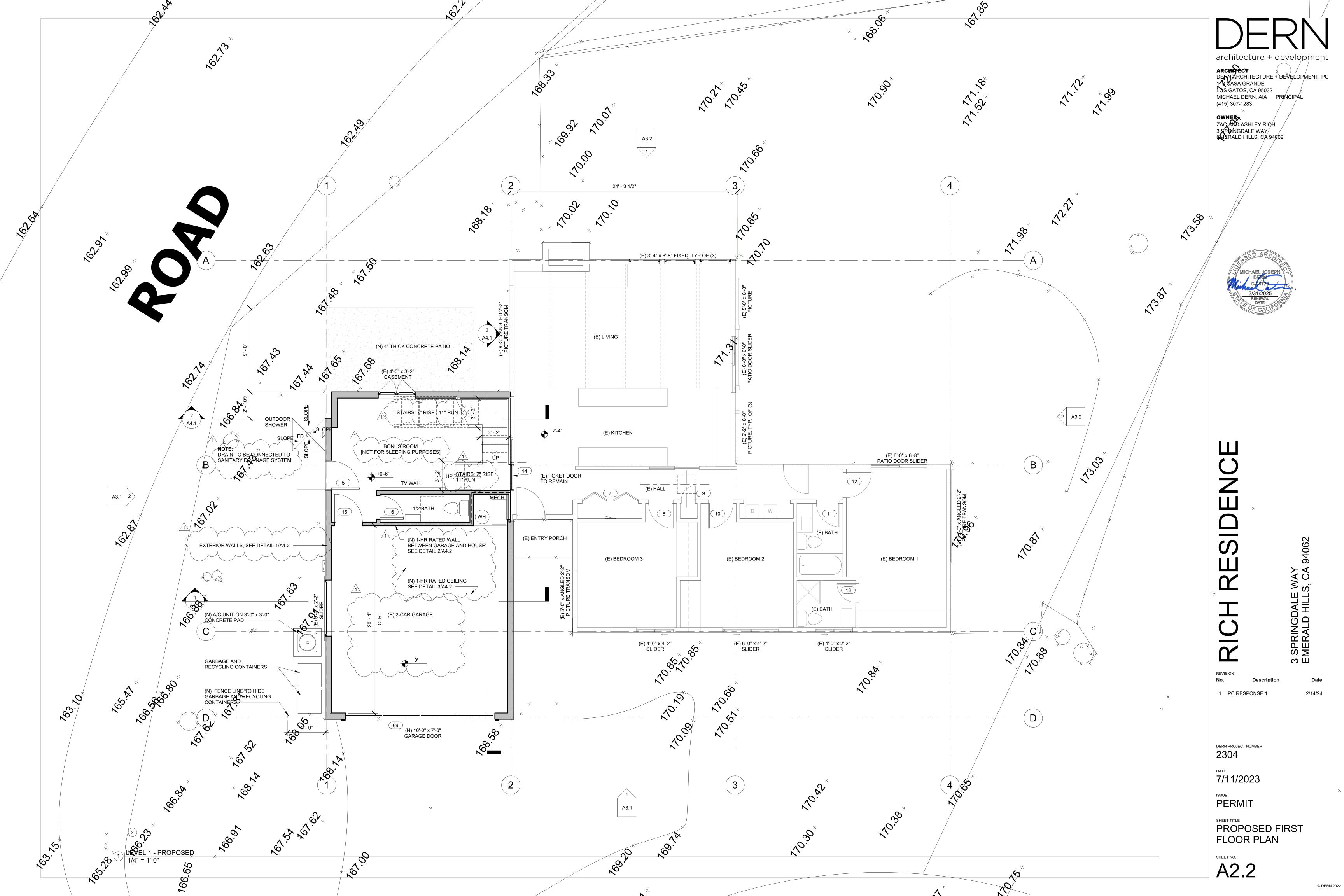
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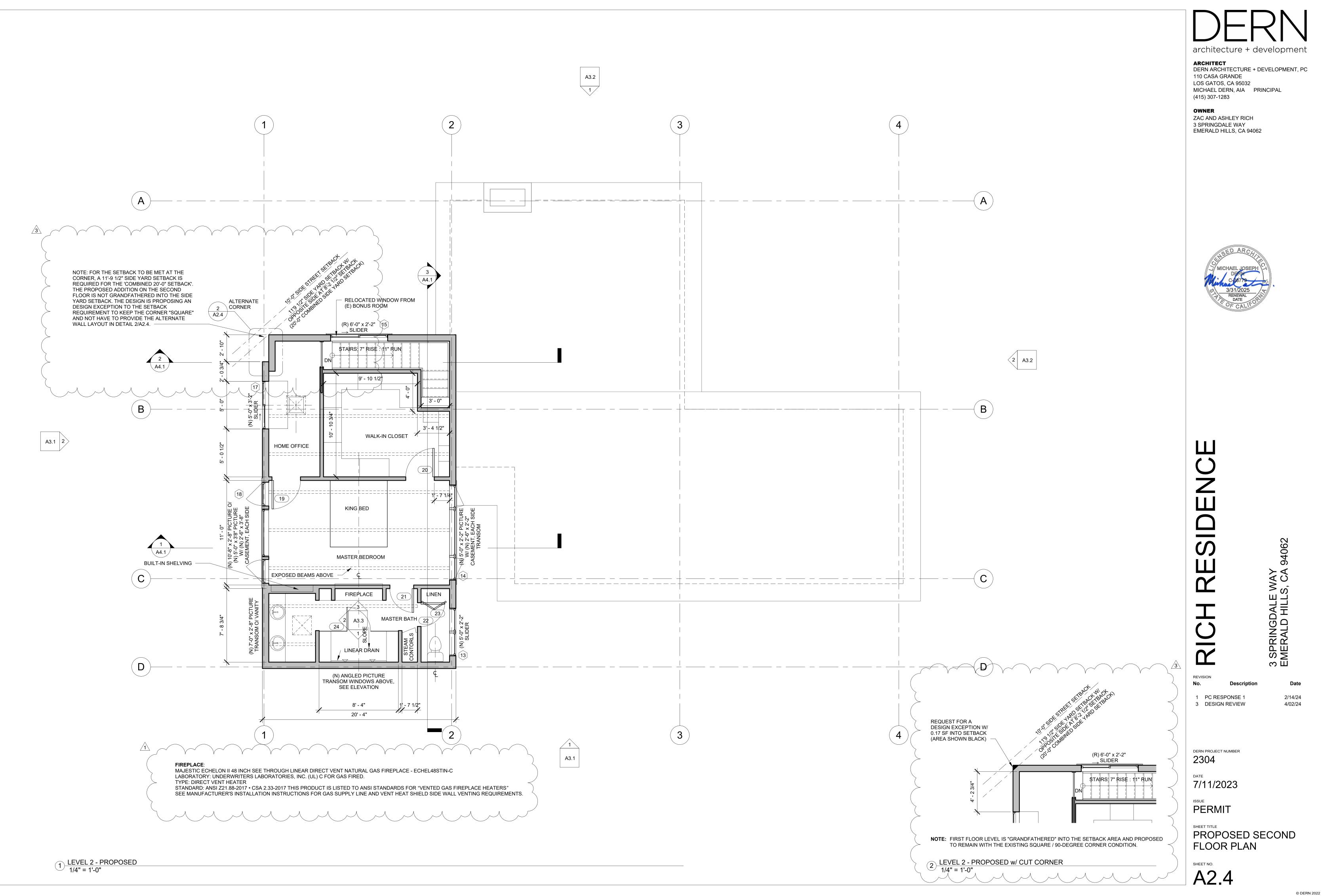
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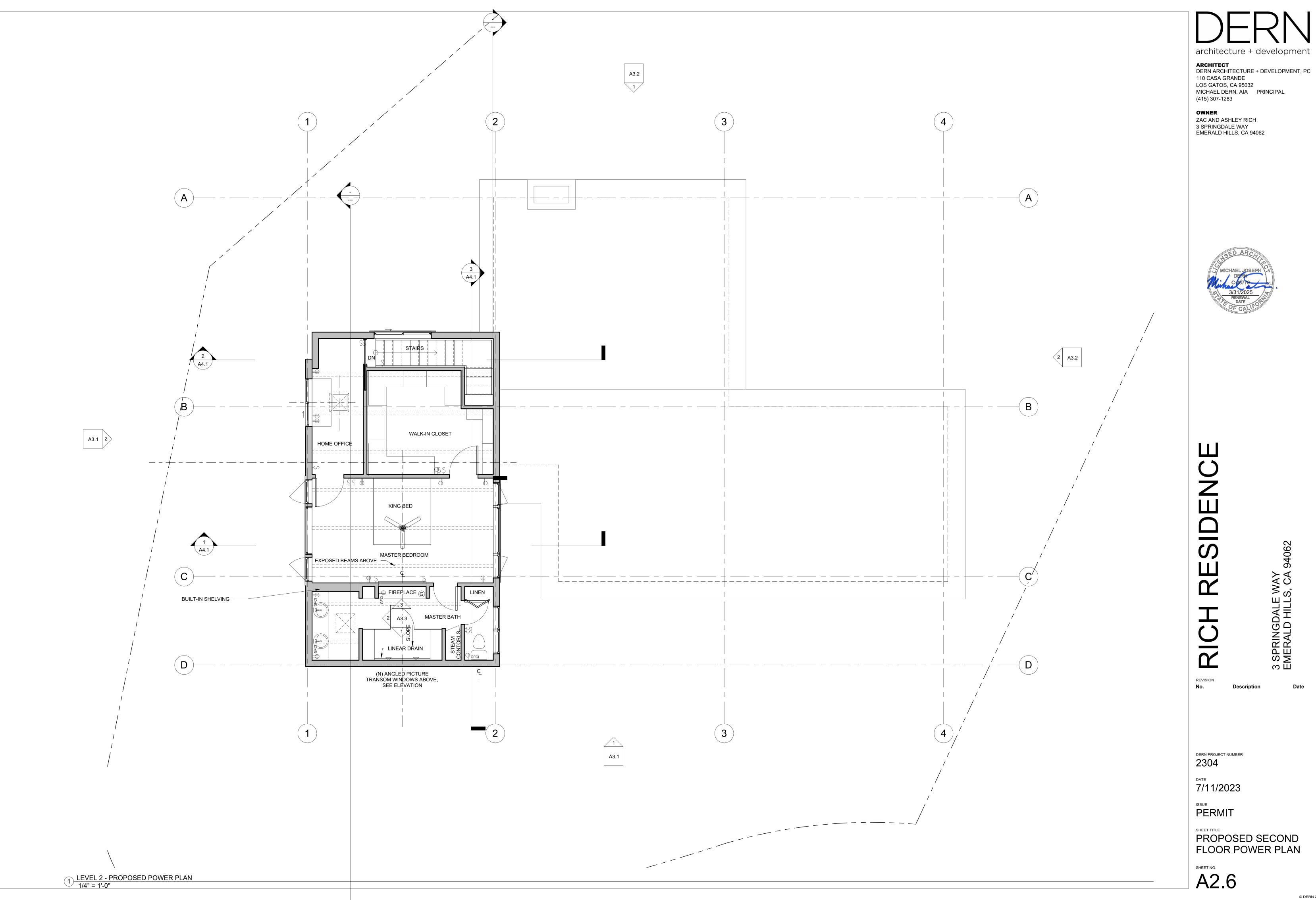
EXISTING FLOOR PLAN

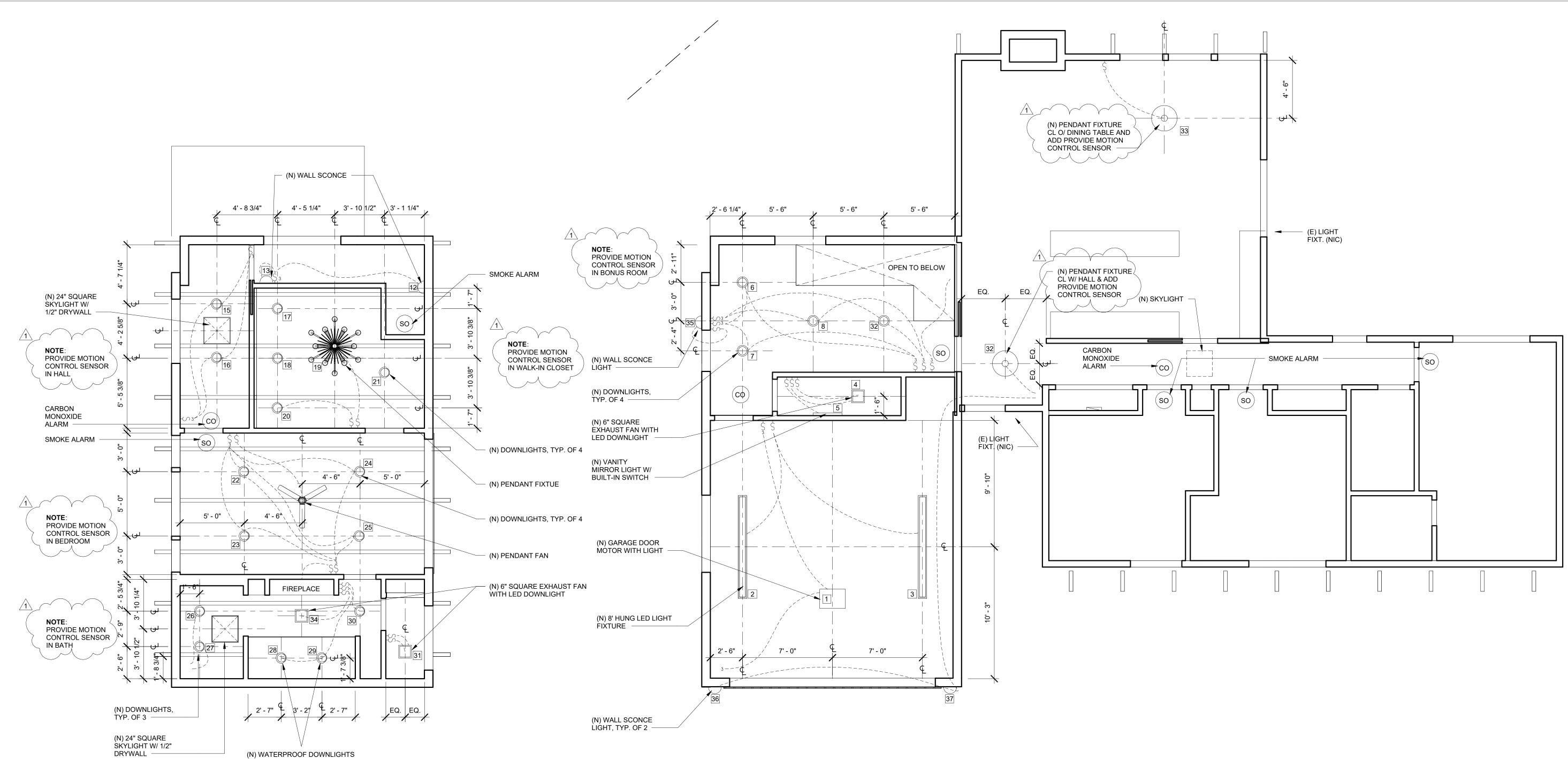
A2.1











1 REFLECTED CEILING PLAN - LEVEL 1 1/4" = 1'-0"

2 REFLECTED CEILING PLAN - LEVEL 2 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE

NUMBER	FIXTURE TYPE	NOTES					
1	L8	GARAGE DOOR MOTOR					
2	L1	LED PENDANT LIGHT					
3	L1	LED PENDANT LIGHT					
4	L5	EXHAUST FAN/LIGHT					
5	L4	VANITY MIRROR LIGHT					
6	L2	RECESSED CAN DOWN LIGHT					
7	L2	RECESSED CAN DOWN LIGHT					
8	L2	RECESSED CAN DOWN LIGHT					
9	L2	RECESSED CAN DOWN LIGHT					
10	L6	WATER-PROOFED RECESSED CAN DOWN LIGHT					
11	L6	WATER-PROOFED RECESSED CAN DOWN LIGHT					
12	L3	WALL SCONCE					
13	L3	WALL SCONCE					
14	L3	WALL SCONCE					
15	L2	RECESSED CAN DOWN LIGHT					
16	L2	RECESSED CAN DOWN LIGHT					
17	L2	RECESSED CAN DOWN LIGHT					
18	L2	RECESSED CAN DOWN LIGHT					
19	L2	RECESSED CAN DOWN LIGHT					
20	L2	RECESSED CAN DOWN LIGHT					
21	L2	RECESSED CAN DOWN LIGHT					
22	L2	RECESSED CAN DOWN LIGHT					
23	L2	RECESSED CAN DOWN LIGHT					
24	L2	RECESSED CAN DOWN LIGHT					
25	L2	RECESSED CAN DOWN LIGHT					
26	L2	RECESSED CAN DOWN LIGHT					
27	L2	RECESSED CAN DOWN LIGHT					
28	L6	WATER-PROOFED RECESSED CAN DOWN LIGHT					
29	L6	WATER-PROOFED RECESSED CAN DOWN LIGHT					
30	L2	RECESSED CAN DOWN LIGHT					
31	L7	RECESSED CAN DOWN LIGHT W/ EXHAUST FAN					
32	TO BE SELECTED	PENDANT FIXTURE					
33	TO BE SELECTED	PENDANT FIXTURE					
34	L7	RECESSED CAN DOWN LIGHT W/ EXHAUST FAN					

MICHAEL DERN, AIA PRINCIPAL

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3 SPRINGDALE WAY EMERALD HILLS, CA 94062

1 PC RESPONSE 1 2/14/24

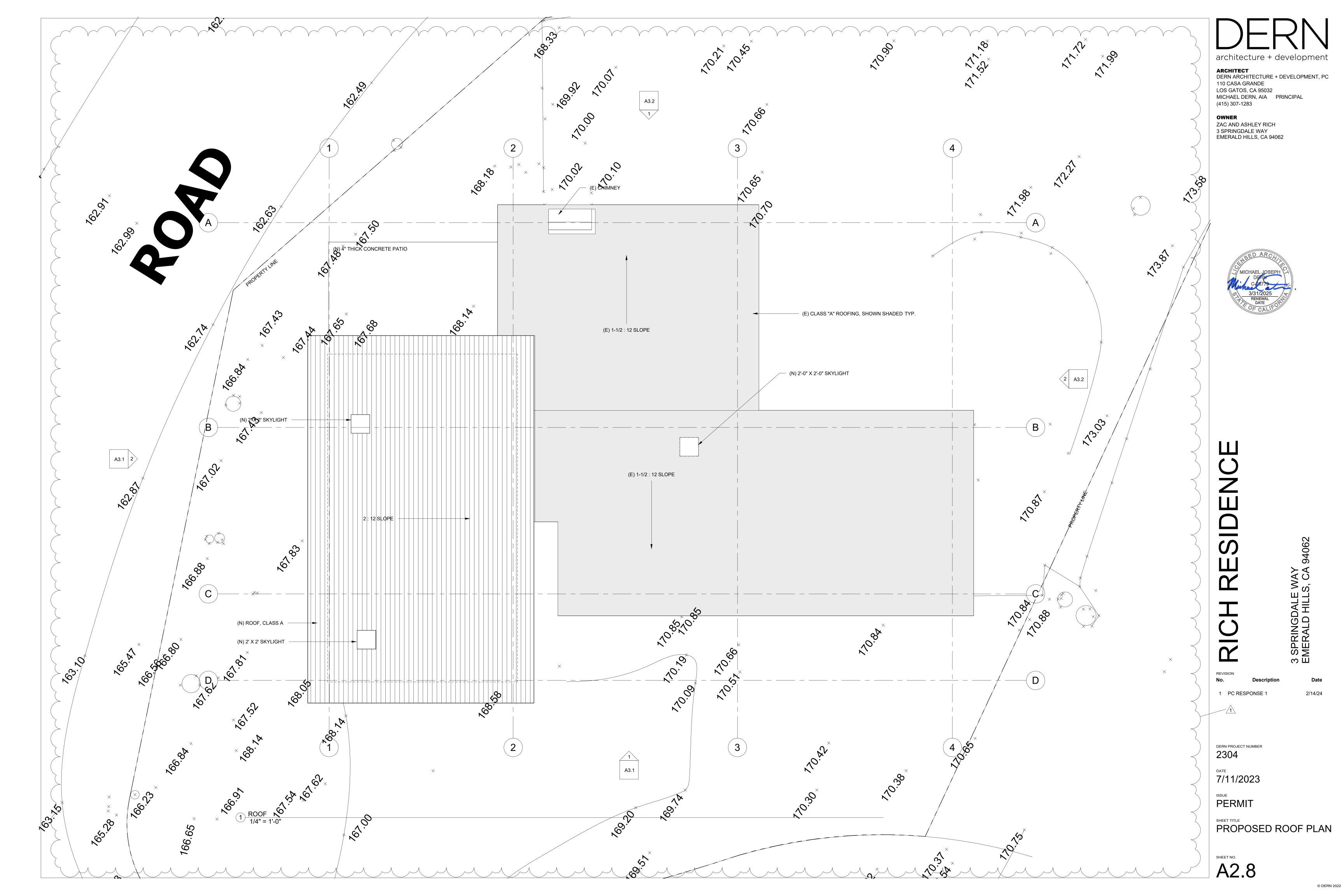
DERN PROJECT NUMBER 2304

7/11/2023

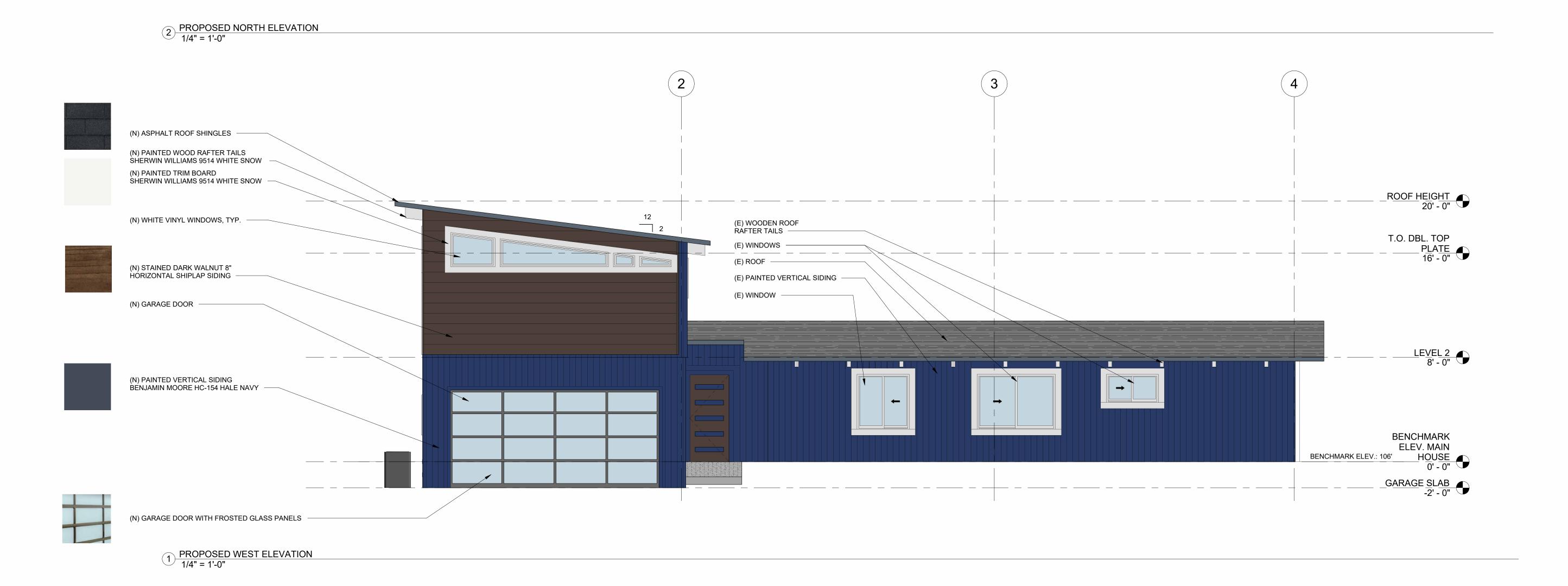
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PROPOSED CEILING PLANS & FIXTURE SCHEDULE SHEET NO.

A2.7







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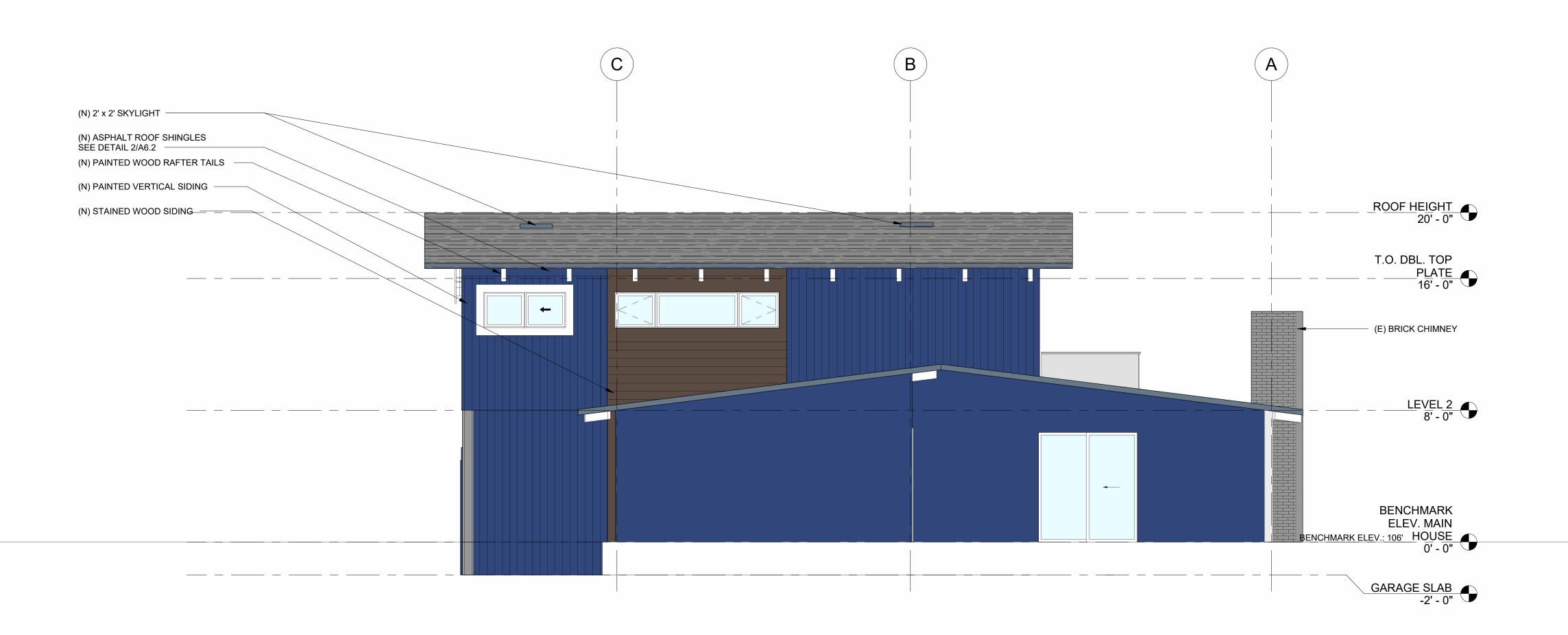
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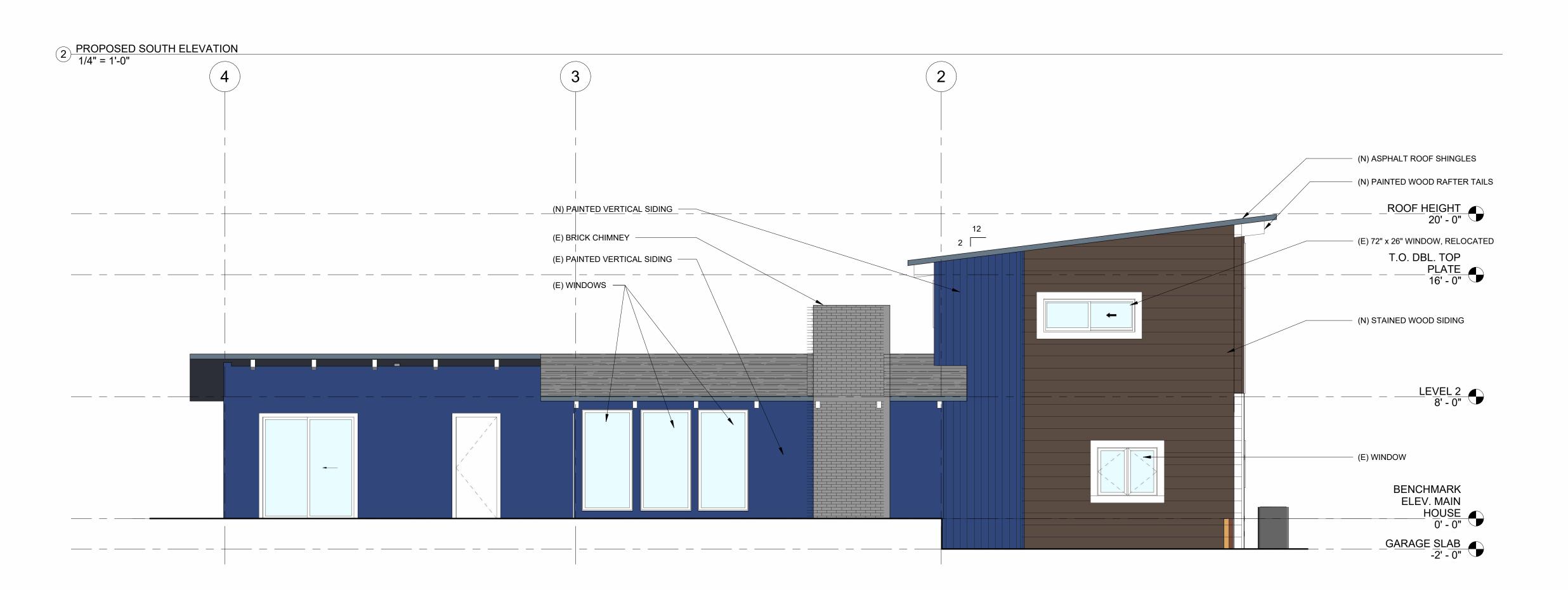
7/11/2023

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PROPOSED EXTERIOR ELEVATIONS

A3.1





1) PROPOSED EAST ELEVATION 1/4" = 1'-0"

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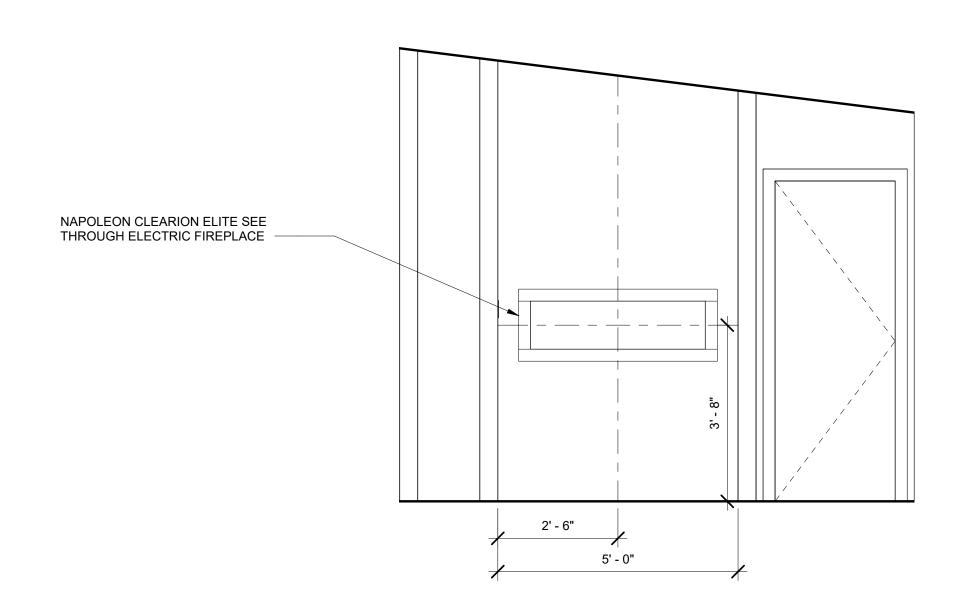
DERN PROJECT NUMBER 2304

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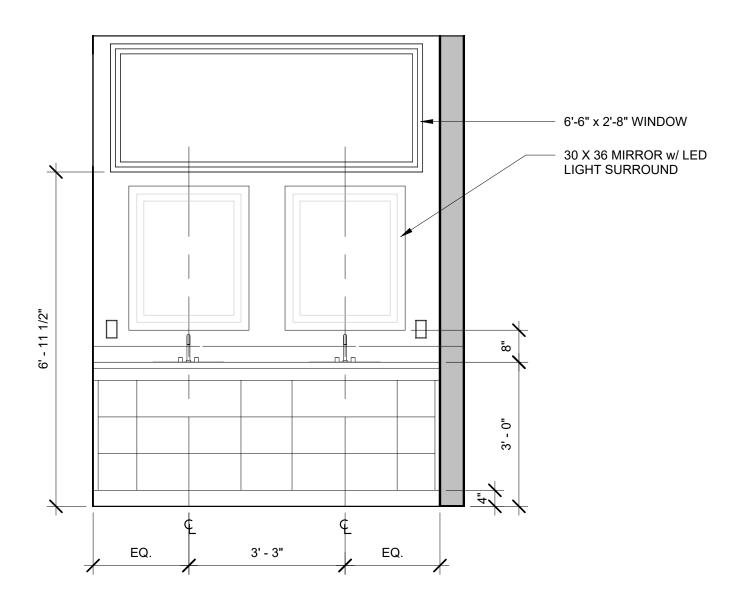
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PROPOSED EXTERIOR **ELEVATIONS**

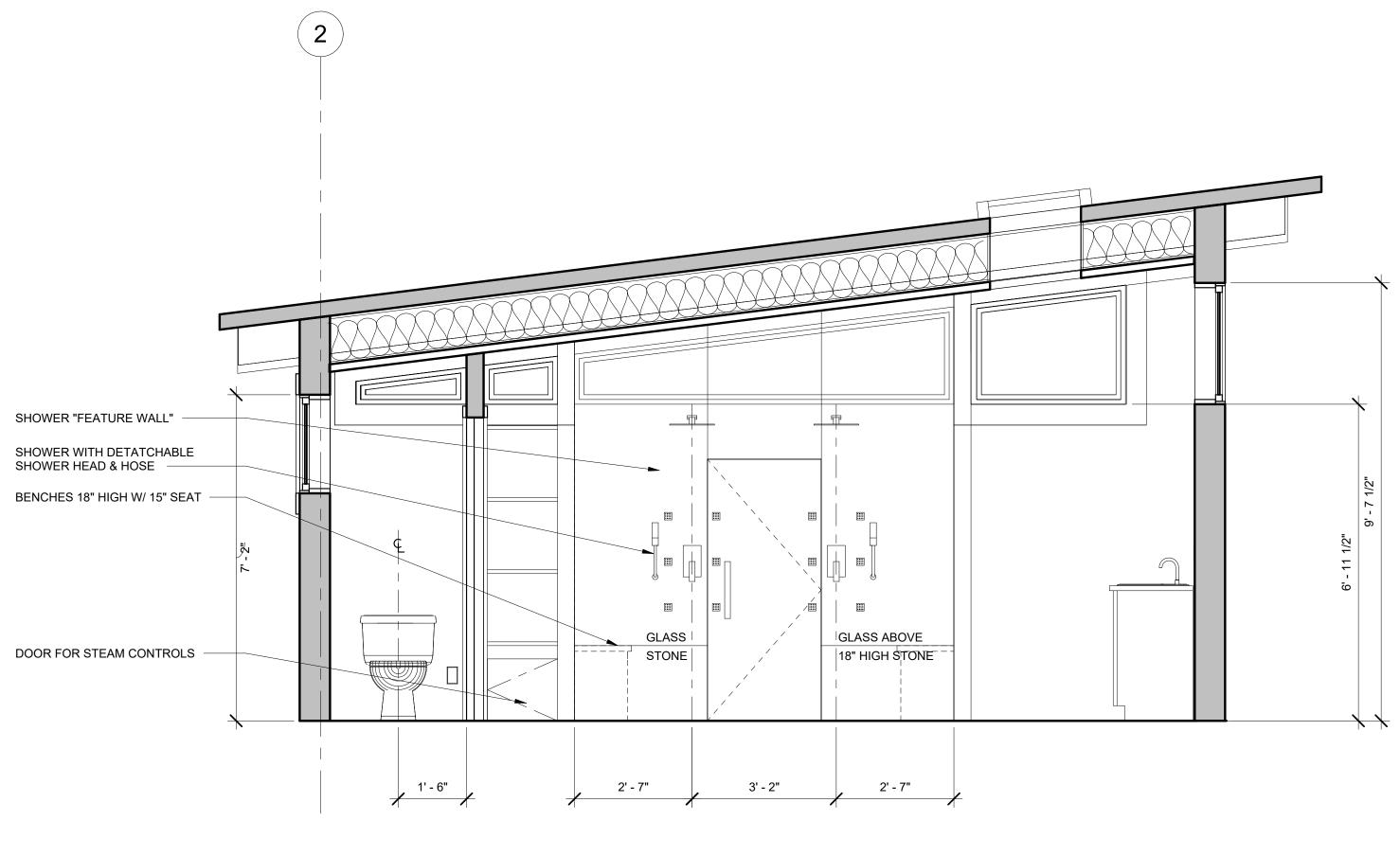
A3.2



MASTER BATHROOM FIREPLACE
1/2" = 1'-0"



2 MASTER VANITY ELEVATION 1/2" = 1'-0"



1 PLUMBING WALL 1/2" = 1'-0"



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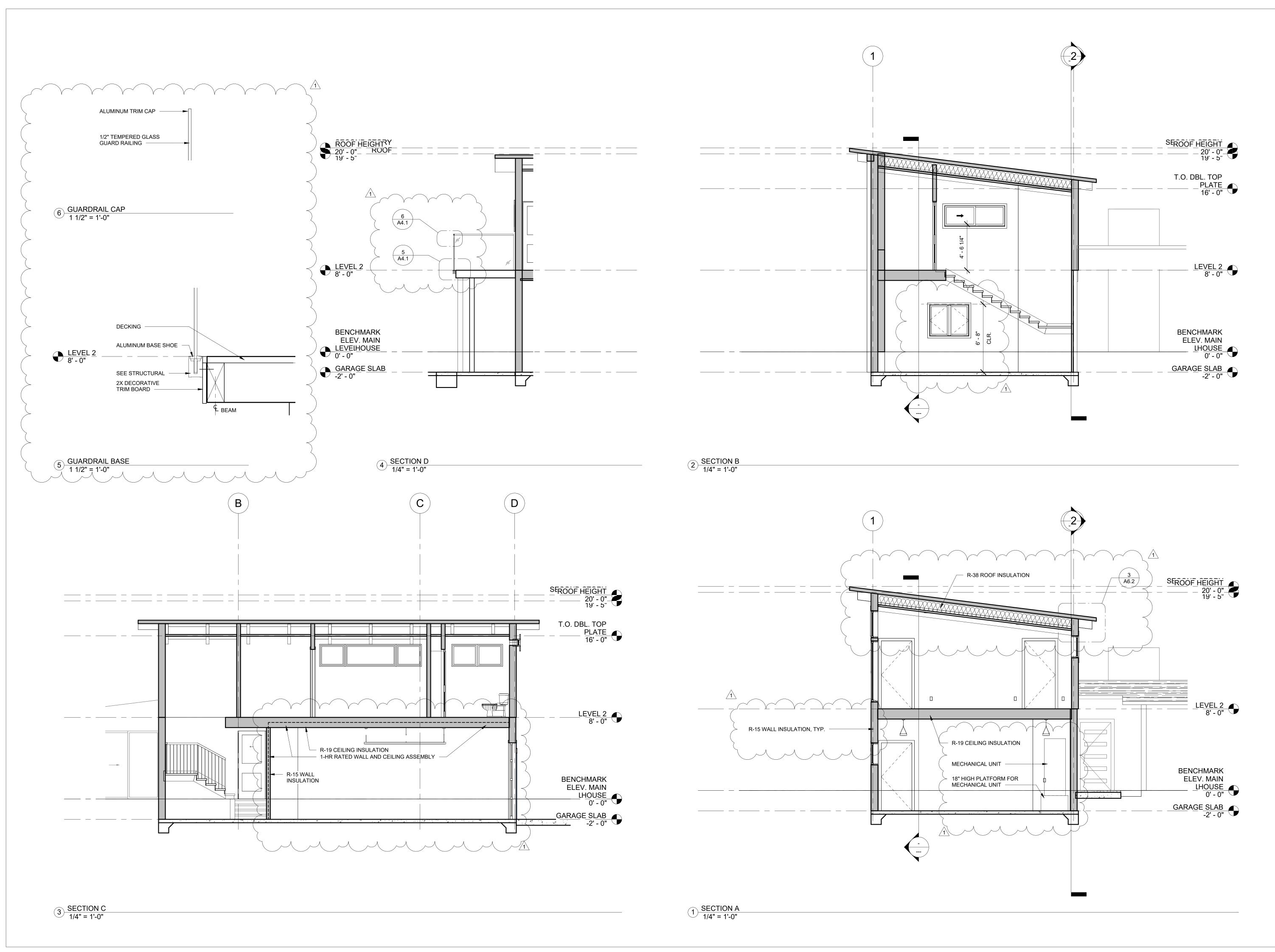
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PROPOSED INTERIOR ELEVATIONS

A3.3



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3 SPRINGDALE WAY EMERALD HILLS, CA 94062

2/14/24 1 PC RESPONSE 1

DERN PROJECT NUMBER 2304

DATE 7/11/2023

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SHEET TITLE SECTIONS

A4.1

DESIGN NO.

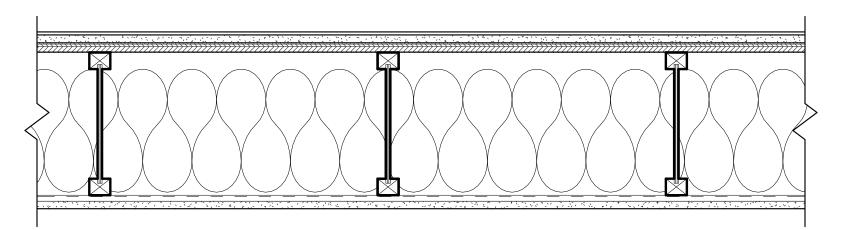
UL L570, UL M532

15.09 IN.

383 MM

FIRE RATING CONSTRUCTION TYPE SOUND TRANSMISSION CLASS (STC) IMPACT INSULATION CLASS (IIC) SOUND TEST SYSTEM THICKNESS (INCHES) SYSTEM THICKNESS (MM)

11 7/8" WOOD ENGINEERED JOIST, SEE STRUCTURAL DRAWINGS H5048.04



ASSEMBLY REQUIREMENTS:

FINISH FLOORING: SUBFLOOR TOPPING MIXTURE: SOUND ATTENUATION MAT: SUBFLOOR: STRUCTURE: INSULATION: RESILIENT CHANNEL: GYPSUM PANEL:

1/2" ENGINEERED HARDWOOD (BY OTHERS) 3/4" USG LEVELROCK® BRAND 2500 SERIES FLOOR UNDERLAYMENTS 1/8" USG LEVELROCK® SAM-N12™ SOUND ATTENUATION MAT 23/32" WOOD STRUCTURAL PANEL 11-7/8" WOOD I-JOISTS, AT 2' [610 MM] O.C. 10-1/4" GLASS FIBER BATT INSULATION (R-38), SUPPORTED BY RESILIENT CHANNEL 1/2" RESILIENT CHANNEL, 25 GA. (0.018"), SPACED 24" [610 MM] O.C. MAX. 5/8" SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)

1 CONSTRUCTION 3" = 1'-0"

1 HR FIRE RATED EXTERIOR WALL

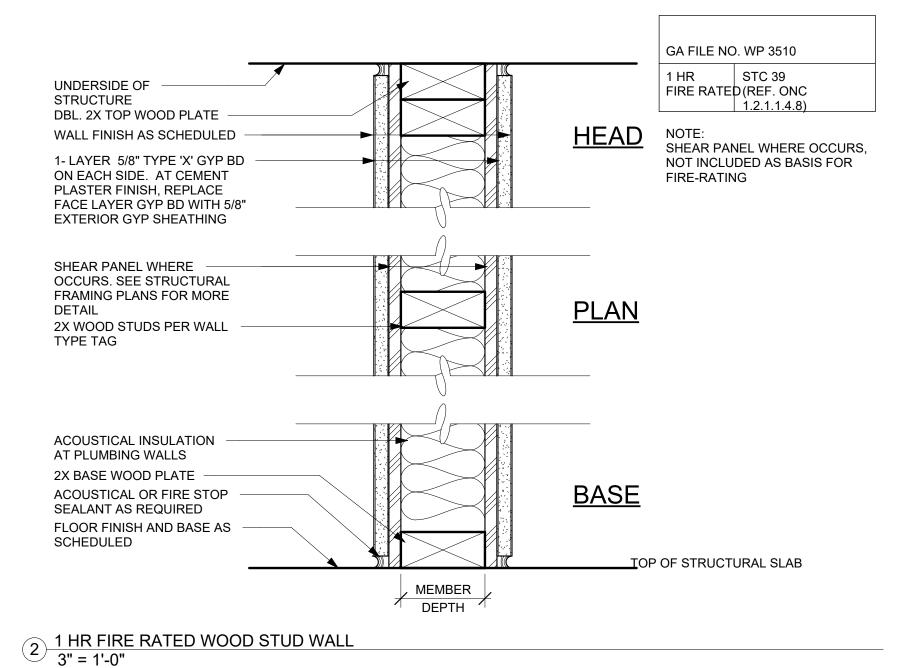
architecture + development

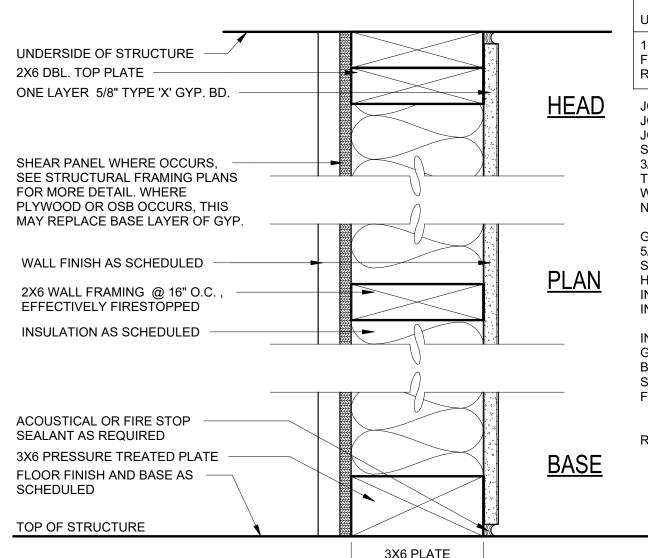
ARCHITECT DERN ARCHITECTURE + DEVELOPMENT, PC 110 CASA GRANDE LOS GATOS, CA 95032 MICHAEL DERN, AIA PRINCIPAL (415) 307-1283

OWNER

ZAC AND ASHLEY RICH 3 SPRINGDALE WAY EMERALD HILLS, CA 94062







UL DESIGN NO. U305 ANSI / UL 263 FIRE RATED

JOINTS AND NAIL HEADS: JOINTS COVERED WITH JOINT COMPOUND AND PAPER TAPE. JOINT COMPOUND AND PAPER TAPE MAY BE OMITTED WHEN SQUARE EDGE BOARDS ARE USED. AS AN ALTERNATE, NOM 3/32 IN. THICK GYPSUM VENEER PLASTER MAY BE APPLIED TO THE ENTIRE SURFACE OF CLASSIFIED VENEER BASEBOARD WITH THE JOINTS REINFORCED WITH PAPER TAPE. NAILHEADS EXPOSED OR COVERED WITH JOINT COMPOUND.

GYPSUM BOARD: 5/8 IN. THICK PAPER OR VINYL SURFACED, WITH BEVELED, SQUARE, OR TAPERED EDGES, APPLIED EITHER HORIZONTALLY OR VERTICALLY. GYPSUM PANELS NAILED 7 IN. OC WITH 6d CEMENT COATED NAILS 1-7/8 IN. LONG, 0.0915 IN. SHANK DIA. AND 15/64 IN. DIA. HEADS.

INSULATION: GLASS FIBER INSULATION 3-1/2 IN. THICK GLASS FIBER BATTS BEARING (R-15) THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING AND/OR FIRE RESISTANCE, FRICTION-FITTED TO FILL THE INTERIOR OF THE WALL.

REF: HTTPS://IQ.ULPROSPECTOR.COM/EN/PROFILE?E=14888

PERMIT WALL DETAILS

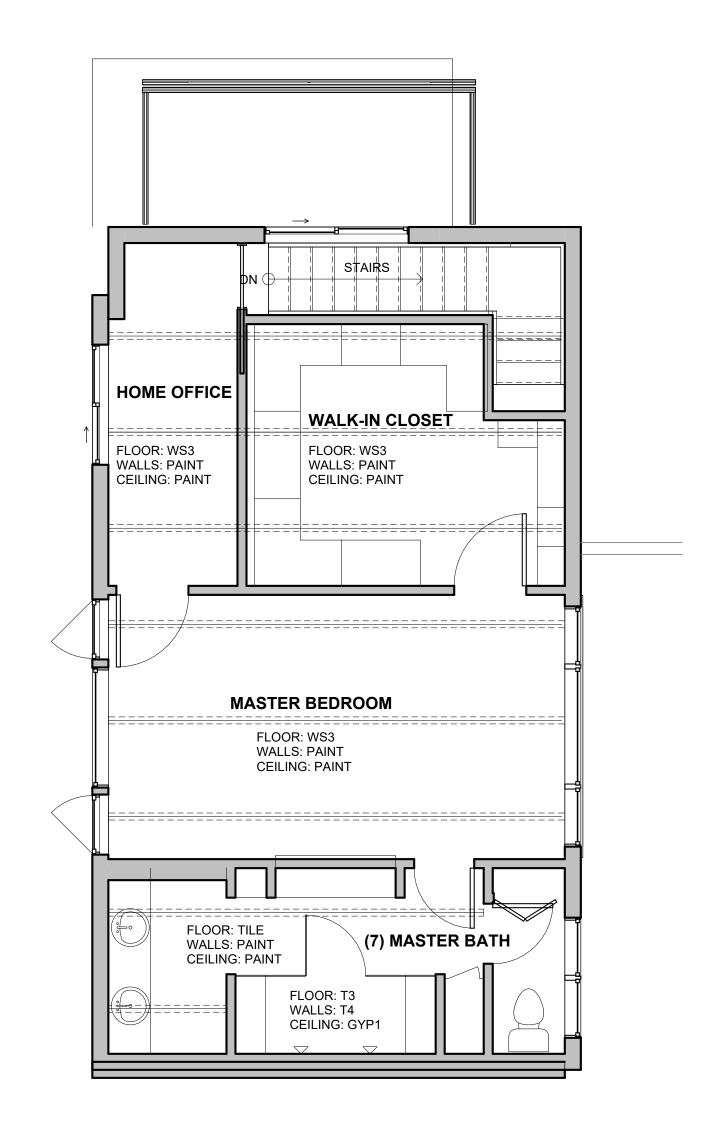
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3 1-HOUR RATED CEILING ASSEMBLY 1 1/2" = 1'-0"

MATERIALS LEGEND

	MARK	DESCRIPTION
WOOD	WD1 WD2	ENGINEERED WOOD FLOOR 1/4" THICK BOARDS HARDWOOD PLANKS
TILE	T1 T2 T3 T4 T5	TILE, TO BE SELECTED BY OWNER
PAINT	P1 P2 P3 P4 P5 P6	PAINT, TO BE SELECTED BY OWNER
FINISH	WS1 WS2 S1	WOOD STAIN WOOD STAIN SILOXANE CLEAR CONCRETE SEALER



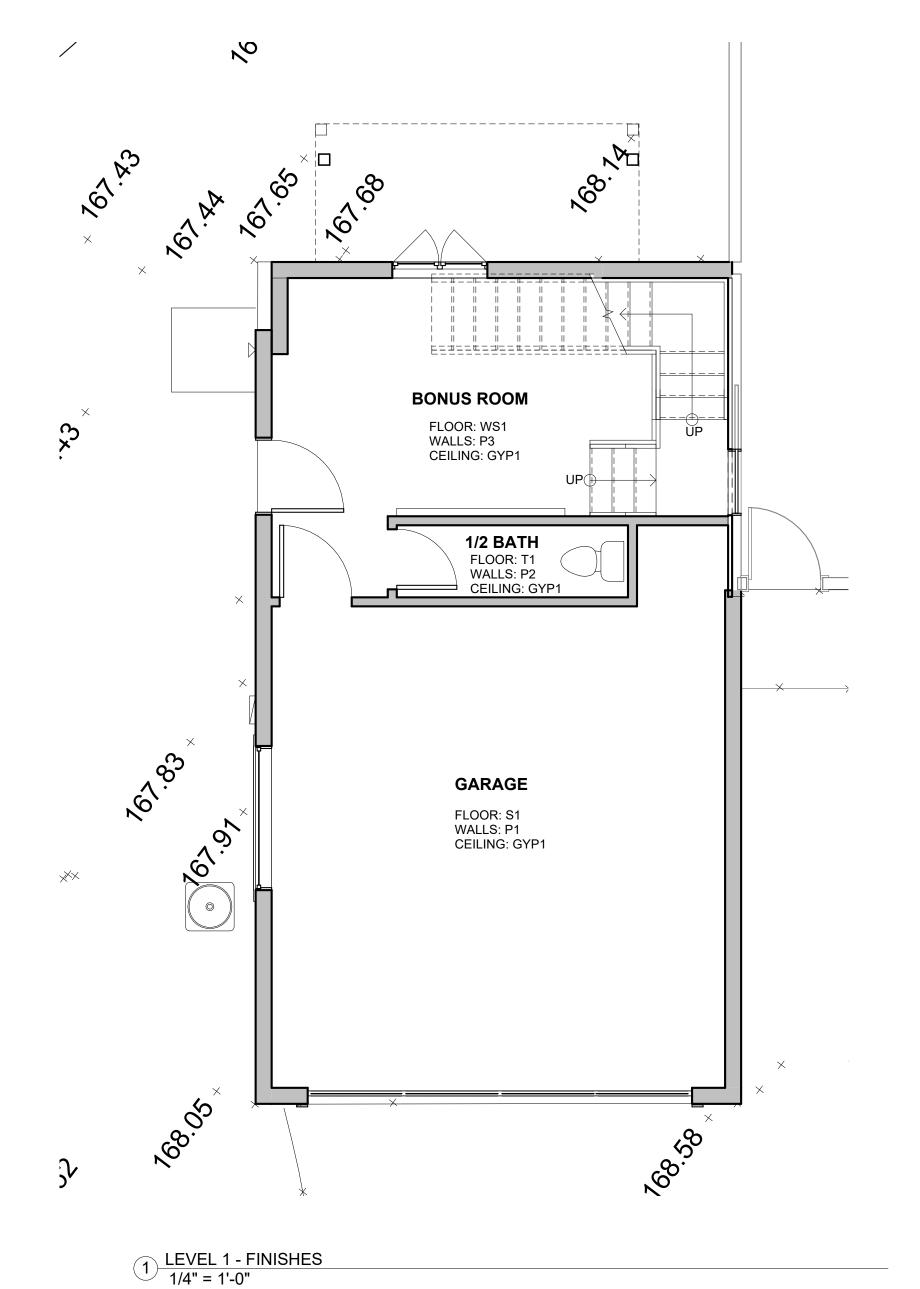
2 <u>LEVEL 2 - FINISHES</u> 1/4" = 1'-0"

INTERIOR FINISH SCHEDULE

ROOM NAME	<u>FLOOR</u>	<u>FINISH</u>	BASEBOARD	WALLS	CEILING	NOTES
GARAGE	CONCRETE	S1	-	PAINT	PAINT	
1/2 BATH	WD1	TILE	TILE	PAINT	PAINT	
BONUS ROOM	WD2	WS1	WD	PAINT	PAINT	
HOME OFFICE	WD3	WS2	WD	PAINT	PAINT	EXPOSED WOOD BEAMS, WS2
WALK-IN CLOSET	WD3	WS2	WD	PAINT	PAINT	EXPOSED WOOD BEAMS, WS2
MASTER BEDROOM	TILE	TILE	WD	PAINT	PAINT	EXPOSED WOOD BEAMS, WS2
MASTER BATHROOM	TILE	TILE	TILE	PAINT	PAINT	HEATED FLOORS AT VANITY, IN FRONT OF SHOWER
TOILET ROOM	TILE	TILE	TILE	PAINT	PAINT	HEATED FLOOR, EXPOSED WOOD BEAMS, WS2
SHOWER	WD1	TILE	TILE	TILE	TILE	

GENERAL NOTES

- 1. SEE FINISH SCHEDULE ON SHEET A6.2 FOR DESIGN FINISH SELECTIONS.
- 2. TOILET ROOMS TO COMPLY WITH SECTION 1210.2.2 CBC FOR REQUIRED WATER RESISTANT BOARD OR BACKER BOARD PER TABLE 2509.2 CBC.
 3. FLOORS IN THE RESTROOMS TO COMPLY WITH SECTION 1210.2.1 CBC, NON-ABSORBENT FLOOR BASE TO EXTEND A MINIMUM 4 " UP-TO THE WALL
 4. ALL FLOORING MATERIALS COMPLY WITH SECTION 804.1 CBC.
- 5. ALL WALL AND CEILING FINISHES COMPLY WITH TABLE 803.13 CBC, FOR THE MAXIMUM FLAME SPREAD AND SMOKE DENSITY OF ALL FINISH MATERIALS.



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2304

DERN PROJECT NUMBER

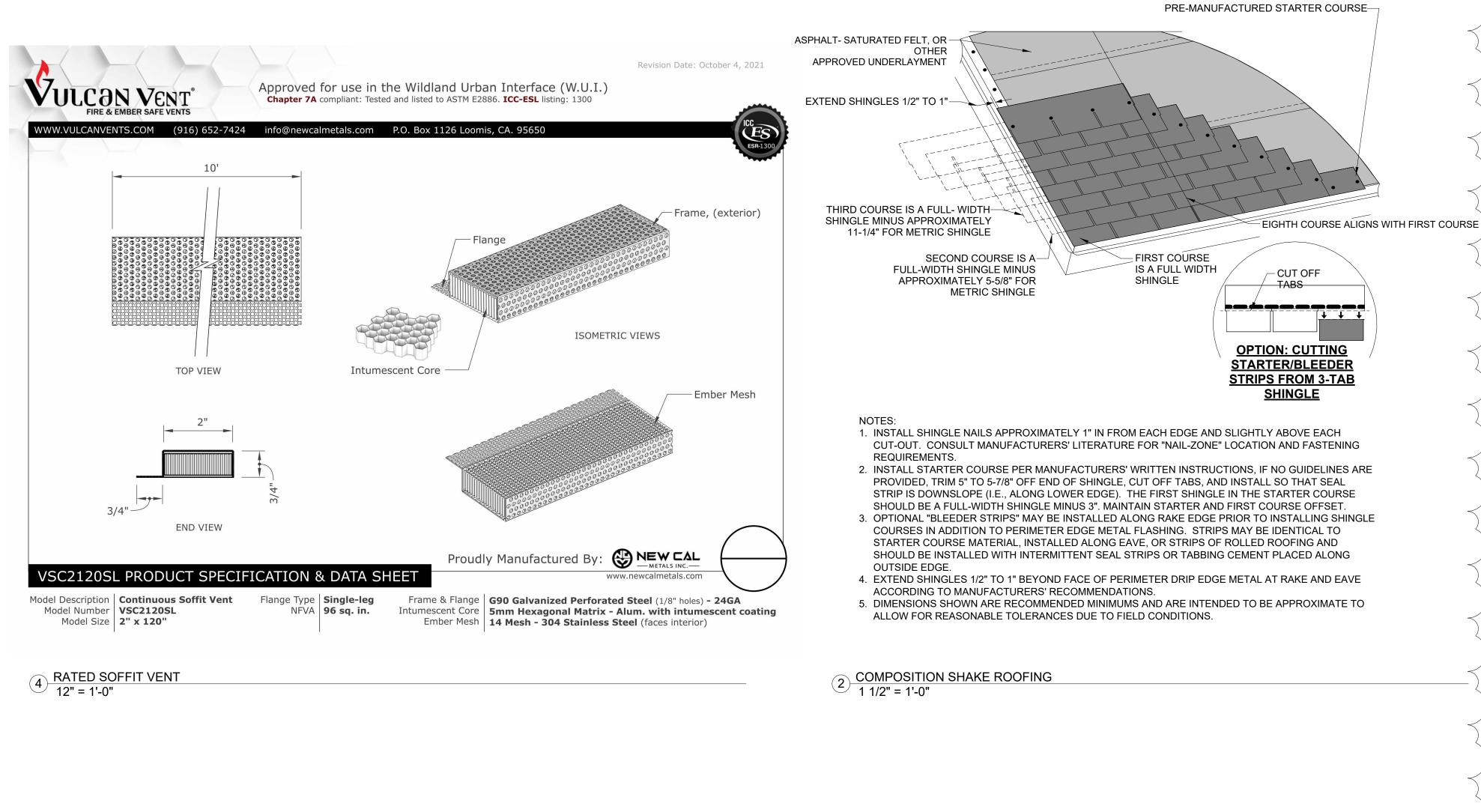
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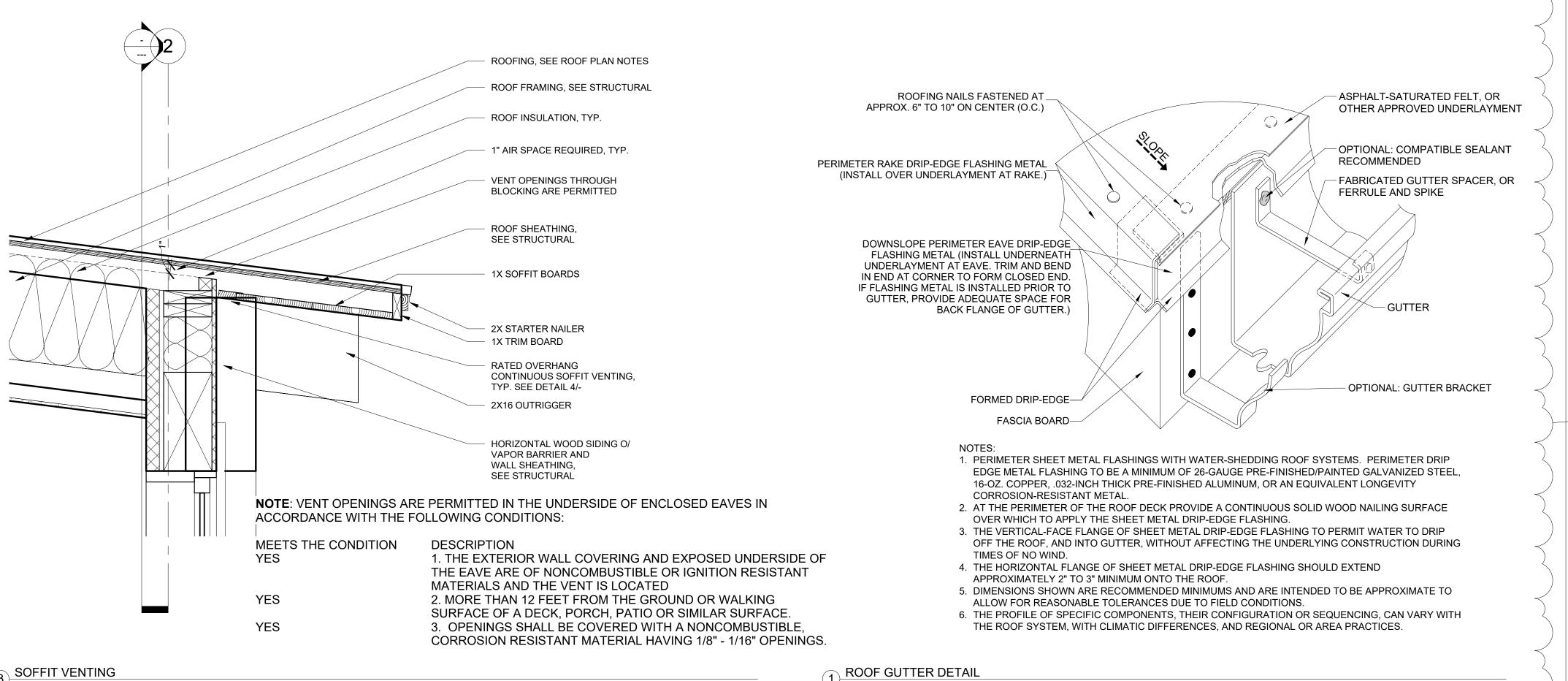
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DESIGN SELECTIONS AND FINISHES PLANS

SHEET NO.

A6.1





ARCHITECT DERN ARCHITECTURE + DEVELOPMENT, PC 110 CASA GRANDE

MICHAEL DERN, AIA PRINCIPAL

(415) 307-1283 **OWNER**

LOS GATOS, CA 95032

JAY COSTA 462 MARSHALL AVENUE SAN JOSE, CA 95125



2/14/24

DERN PROJECT NUMBER

1 PC RESPONSE 1

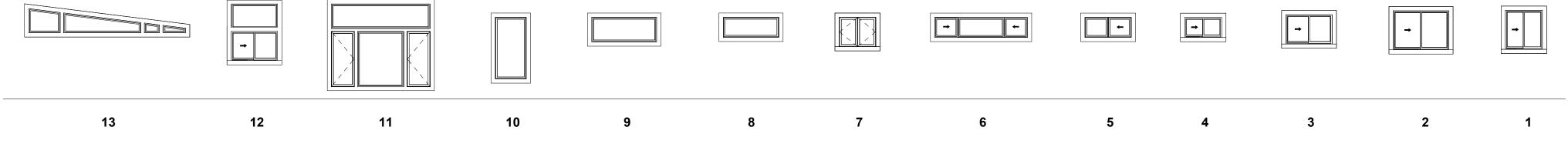
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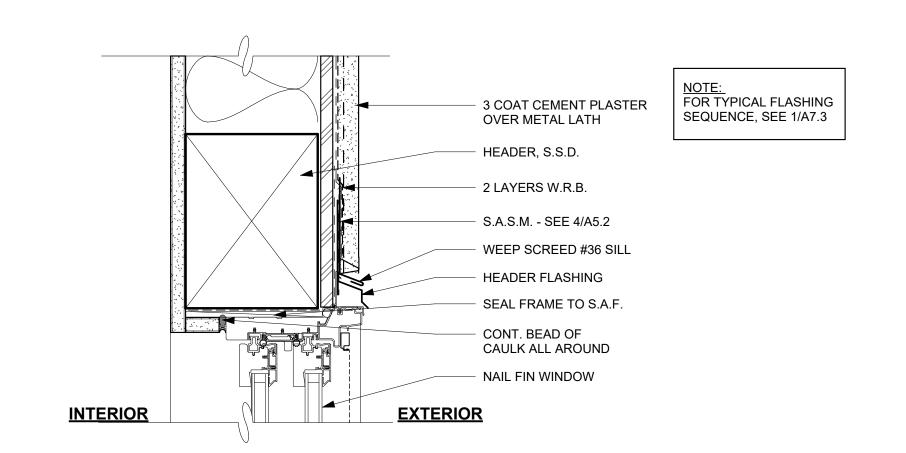
ROOFING DETAILS

NOTES:

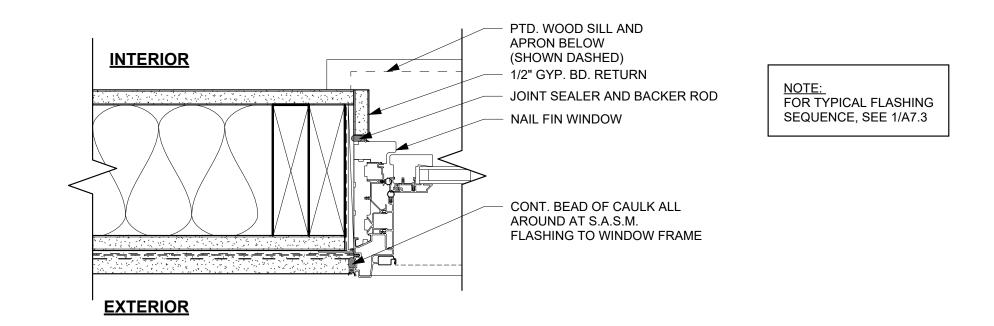
- 1. EGRESS WINDOW HAS 5.7 SF OF OPEN NET AREA.
- 2. OPENABLE EXTERIOR OPENING AREA MUST BE 4% OF THE FLOOR AREA.
- 2. MAXIMUM OPEN HEIGHT AT THE SILL IS +44" ABOVE THE FINISH FLOOR. 3. EXTERIOR GLAZED OPENING AREA (WINDOW) MUST BE AT LEAST 8% OF THE FLOOR AREA OF ALL HABITABLE ROOMS.



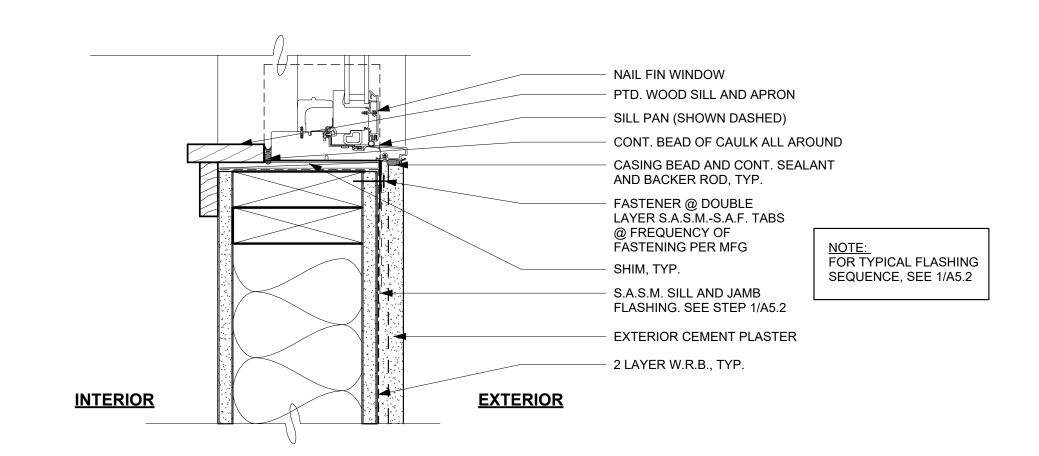
VINDOW NUMBER	<u>TYPE</u>	MATERIAL	WIDTH & HEIGHT	DETAILS SILL	<u>JAMB</u>	<u>HEAD</u>	NOTES
	1	VINYL	4'-0" x 4'-2 5/8"	1 / A7.1	2 / A7.1	3 / A7.1	(E) SLIDER NAIL FIN WINDOW
2	2	VINYL	6'-0" x 4'-2 5/8"	1 / A7.1	2 / A7.1	3 / A7.1	(E) SLIDER NAIL FIN WINDOW
3	4	VINYL	4'-0" x 2'-2"	1 / A7.1	2 / A7.1	3 / A7.1	(E) SLIDER NAIL FIN BATHROOM WINDOW
ŀ	10	VINYL	3'-4" x 6'-8"				(E) FIXED WINDOW
	10	VINYL	3'-4" x 6'-8"				(E) FIXED WINDOW
	10	VINYL	3'-4" x 6'-8"				(E) FIXED WINDOW
	7	VINYL	4'-0" x 3'-2 5/8"				(E) DOUBLE CASEMENT WINDOW
	8	VINYL	6'-0" x 2'-2"				(E) FIXED WINDOW TO BE RELOCATED (SEE A2.5)
	13	VINYL	3'-2" x 4'-2 5/8"				(N) CUSTOM WINDOW IN SET
0	13	VINYL	8'-1 1/2" x 1'-11 3/32"				(N) CUSTOM WINDOW IN SET
1	13	VINYL	1'-4 3/4" x 10"				(N) CUSTOM WINDOW IN SET
2	13	VINYL	2'-2 5/8" x 7"				(N) CUSTOM WINDOW IN SET
3	5	VINYL	5'-0" x 2'-2"	1 / A7.1	2 / A7.1	3 / A7.1	(N) SLIDER NAIL FIN BATHROOM WINDOW
4	6	VINYL	10'-0" x 2'-2"	1 / A7.1	2 / A7.1	3 / A7.1	(N) XOX SLIDER WINDOW
5	8	VINYL	6'-0" x 2'-2"				(N) FIXED WINDOW
6	3	VINYL	5'-0" X 3'-2"	1 / A7.1	2 / A7.1	3 / A7.1	(N) SLIDER NAIL FIN WINDOW
7	9	VINYL	5'-0" x 2'-6"				(N) FIXED WINDOW
8	11	VINYL	10'-8" x 7'-0"				(N) FIXED W/ TEMPERED GLASS WINDOW CASEMENT W/ TEMPERED GLASS EACH SIDE AND TRANSOM ABOVE. PROVIDE GUARD / OPENING CONTROL DEVICE FOR WIDNOW WALL PROTECTION CRC312.2



3 SLIDER WINDOW HEADER
3" = 1'-0"



2 SLIDER WINDOW JAMB 3" = 1'-0"



1 SLIDER WINDOW SILL 3" = 1'-0"

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OWNER

ZAC AND ASHLEY RICH 3 SPRINGDALE WAY EMERALD HILLS, CA 94062



RESIDENC

3 SPRINGDALE WAY EMERALD HILLS, CA 94062 1 PC RESPONSE 1 2/14/24

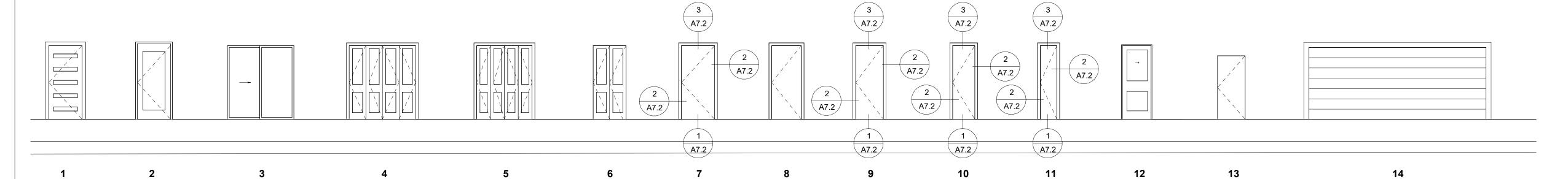
DERN PROJECT NUMBER 2304

7/11/2023

PERMIT

WINDOW SCHEDULE AND DETAILS

A7.1



architecture + development

ARCHITECT DERN ARCHITECTURE + DEVELOPMENT, PC

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CAULKING, TYP. BOTH SIDES

WOOD FRAME (SEE SCHED.),

TRIM & STOP

SHIM AS REQUIRED

SEE DOOR SCHEDULE

DERN PROJECT NUMBER

7/11/2023

PERMIT

DOOR SCHEDULE AND **DETAILS**

DOOR SCHEDULE AND HARDWARE

DOOR NUMBER	TYPE	MATERIAL	WIDTH & HEIGHT	THICKNESS	FINISH MATERIAL	FRAME MATERIAL	<u>FINISH</u>	HARDWARE GROUP	DETAI SILL	LS JAMB	<u>HEAD</u>	NOTES
1	1	WOOD	3'-0" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) ENTRY DOOR
2	3	FIBERGLASS/ TEMP GLASS	PR 3'-0" x 6'-8"	1-3/4"	(E)	FIBERGLASS	(E)	-	-/-	-/-	-/-	(E) SLIDING DOUBLE PATIO DOOR
3	8	WOOD	3'-0" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) EXTERIOR PATIO DOOR
4	3	FIBERGLASS/ TEMP GLASS	PR3'-0" X 6'-8"	1-3/4"	PAINT	FIBERGLASS	PAINT	-	-/-	-/-	-/-	(E) SLIDING DOUBLE PATIO DOOR
5	2	FIBERGLASS/ TEMP GLASS	PR3'-0" X 6'-8"	1-3/4"	PAINT	FIBERGLASS	PAINT	-	-/-	-/-	-/-	(N) EXTERIOR PATIO DOOR
6	14	METAL/TEMP GLASS	16'-0" X 7'-6"	1-3/4"	PAINT	METAL	PAINT	-	-/-	-/-	-/-	(N) GARAGE DOOR
7	4	WOOD	6'-0" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) BIFOLD 4-PANEL CLOSET DOOR
8	8	WOOD	2'-8" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) INTERIOR DOOR
9	11	WOOD	1'-6" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) CLOSET DOOR
10	8	WOOD	2'-8" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) INTERIOR DOOR
11	9	WOOD	2'-6" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) BATHROOM DOOR
12	8	WOOD	2'-8" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) INTERIOR DOOR
13	9	WOOD	2'-6" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) BATHROOM DOOR
14	12	WOOD	2'-8" X 6'-8"	1-3/4"	(E)	WOOD	(E)	-	-/-	-/-	-/-	(E) INTERIOR POCKET SLIDING DOOR
15	2 SOLII	FIBERGLASS CORE	3'-0" X 6'-8"	1-3/4"	PAINT	FIBERGLASS	PAINT	1	-/A7.2	-/A7.2	-/A7.2	(N) 20-MIN RATED ENTRY/EXIT DOOR BETWEEN GARAGE & HOUSE. SEE NOTES, 8, 9, AND 10.
16	9	WOOD	2'-6" X 6'-8"	1-3/4"	PAINT	WOOD	(E)	-	-/-	-/-	-/-	(N) TOILET ROOM DOOR
17	2	FIBERGLASS/ TEMP GLASS	3'-0" X 6'-8"	1-3/4"	PAINT	FIBERGLASS	PAINT	1	-/A7.2	-/A7.2	-/A7.2	(N) EXTERIOR PATIO DOOR
18	12	WOOD/TEMP GLADS	3'-0" X 6'-8"	1-3/4"	PAINT	WOOD	PAINT	-	-/-	-/-	-/-	(N) POCKET DOOR W/ FRAME, TRIM AND HARDWARE
19	7	WOOD	3'-0" X 6'-8"	1-3/4"	PAINT	WOOD	PAINT	3	1/A7.2	2/A7.2	3/A7.2	(N) MASTER BEDROOM DOOR
20	7	WOOD	3'-0" X 6'-8"	1-3/4"	PAINT	WOOD	PAINT	3	1/A7.2	2/A7.2	3/A7.2	(N) WALK-IN CLOSET DOOR
21	9	WOOD	2'-6" X 6'-8"	1-3/4"	PAINT	WOOD	PAINT	5	1/A7.2	2/A7.2	3/A7.2	(N) BATHROOM DOOR
22	9	WOOD	2'-6" X 6'-8"	1-3/4"	PAINT	WOOD	PAINT	5	1/A7.2	2/A7.2	3/A7.2	(N) TOILET CLOSET DOOR
23	6	WOOD	3'-0" X 6'-8"	1-3/4"	PAINT	WOOD	PAINT	4	-/-	-/-	-/-	(N) LINEN CLOSET 2- PANEL BIFOLD DOOR
24	13	TEMPERED GLASS	2'-6" X 5'-9"	1/2"	N/A	GLASS	N/A	5	-/-	-/-	-/-	(N) SHOWER DOOR

HARDWARE GROUPS

			O
GROUP 1 (ENTRY/EXIT HINGES LOCKSET STRIKE	T DOOR) STANLEY SCHLAGE SCHLAGE		619 619 619
GROUP 2 (GARAGE DO LOCKSET STRIKE	OOR)		
GROUP 3 (PASSAGE / HINGES LOCKSET STRIKE	PRIVACY BEDR STANLEY SCHLAGE SCHLAGE	FBB179	619 619 619
GROUP 4 (CLOSET DO HINGES HANDLES STRIKE	OOR) STANLEY 1" ROUND KNO SCHLAGE		619 619 619
GROUP 5 (BATH DOOR HINGES HANDLES	R) STANLEY 1" ROUND KNO		619 619

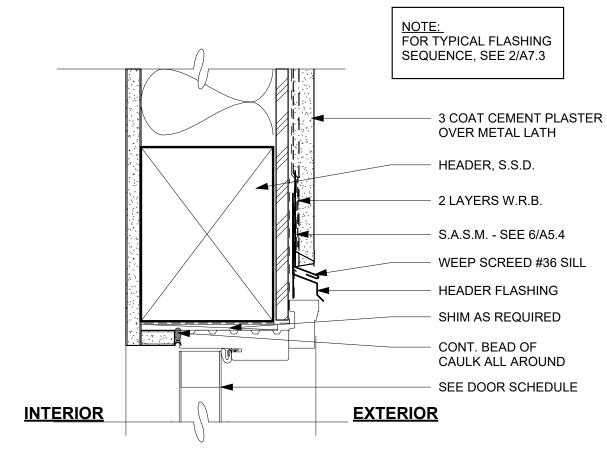
SCHLAGE

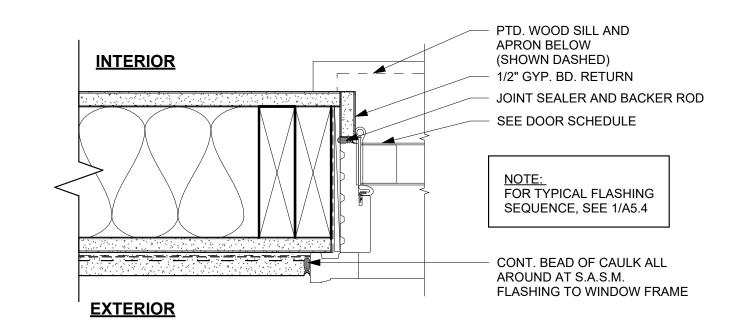
STRIKE

619

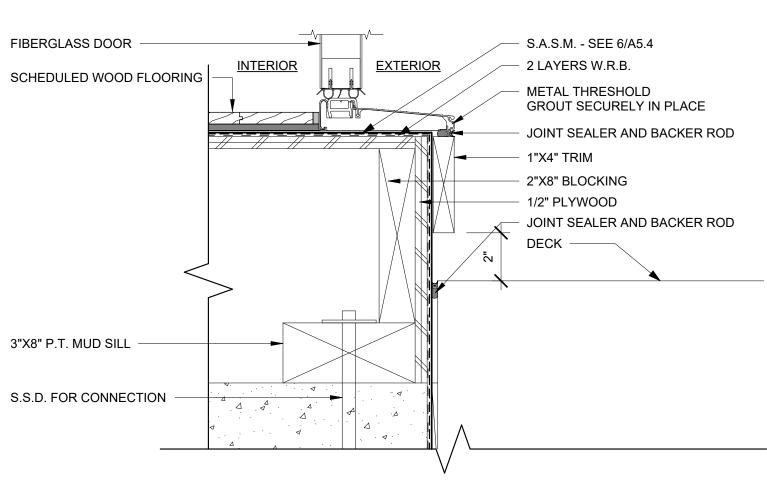
GENERAL NOTES

- 1. EXIT DOORS TO BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- 2. DOORS WITHIN THE PATH OF TRAVEL FOR PERSON WITH DISABILITY TO BE OPERABLE WITH A SINGLE EFFORT BY LEVER.
- 3. DOOR CLOSERS TO BE ADJUSTED TO PROVIDE FOR A MAXIMUM EFFORT TO OPERATE OF A 5 LBS. AT FIRE DOOR USE LESS THAN 15# FORCE ACCEPTABLE BY FIRE MARSHAL
- 4. THRESHOLDS SHALL NOT EXCEED ½" IN HEIGHT.
- 5. DOORS TO HAVE 1-1/2 PAIR BUTTS PER LEAF.
- 6. BOTH SIDES OF DOORS SHALL BE FINISHED THE SAME, U.O.N.
- 7. SOLID WOOD DOORS TO BE 1-3/8" THICK, MINIMUM.
- 8. SOLID OR HONEYCOMB CORE STEEL DOORS TO BE 1-3/8", MINIMUM.
- 9. PROVIDE SELF CLOSING HINGES OR CLOSER.
- 10. PROVIDE GASKETING FOR FIRE / SMOKE PREVENTION.

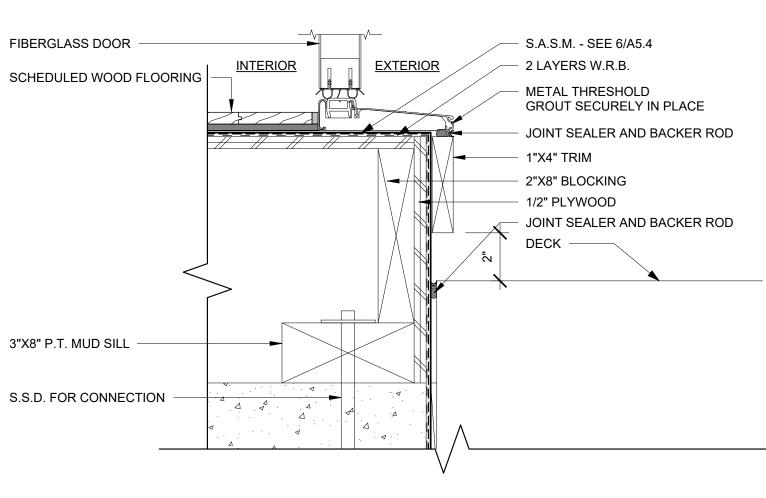




7 FIBERGLASS HINGE JAMB 3" = 1'-0"



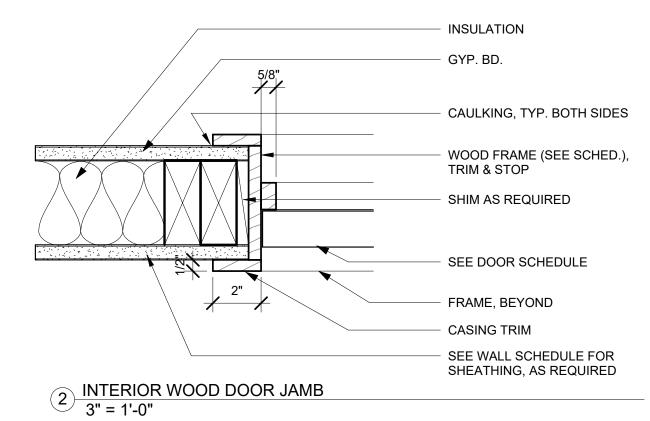
VENTED FIBERGLASS DOOR 6 THRESHOLD 3" = 1'-0"



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9 VENTED FIBERGLASS DOOR HEAD 3" = 1'-0"

3 INTERIOR WOOD DOOR HEAD 3" = 1'-0"



<u>INTERIOR</u>

BOARD

SCHEDULED DOOR

SCHEDULED WOOD FLOORING ON ACOUSTICAL UNDERLAYMENT WITH PERIMETER ISOLATION

1/2" PLYWOOD SUBFLOOR

INTERIOR

1 INTERIOR WOOD DOOR THRESHOLD 3" = 1'-0"

FLASHING AND ALL APPLICABLE WATERPROOFING ELEMENTS.

1. INSTALL G.S.M. BASE FLASHING

1a. SET FLASHING IN BED OF SEALANT

NOTE:
SEE DETAIL 2/- FOR DOOR SILL PAN AT PODIUM OR BALCONY CONDITION
STEP 1 & 2 TO BE 1 PIECE OR BOTH INSTALLED PRIOR TO WATERPROOFING.

FOR ON-GRADE CONDITIONS,
INSTALL
S.A.S.M. BEHIND G.S.M. SILL PAN
BASE FLASHING BECOMES SILL
PAN AT ON-GRADE CONDITIONS

STEPS 2 AND 3

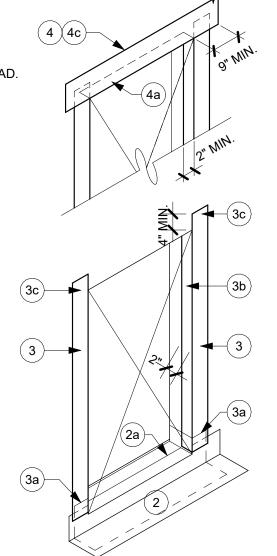
- 2. INSTALL UNCURED NEOPRENE FLASHING OVER BASE
- 2a. WRAP NEOPRENE INTO ROUGH OPENING
- 3. ATTACH MINIMUM 9" WIDE JAMB S.A.S.M. TO FACE
- 3a. EXTEND G.S.M. BASE FLASHING JAMB FLANGES
- c. EXTEND 4" ABOVE LOWER EDGE OF ROUGH OPENING HEAD. INSTALL WITHOUT WRINKLES & INSTALL WITH ROLLER

WRAP 2" ONTO INSIDE OF ROUGH OPENING JAMBS

NOTE: STEP 1 & 2 TO BE 1 PIECE OR BOTH INSTALLED PRIOR TO WATERPROOFING

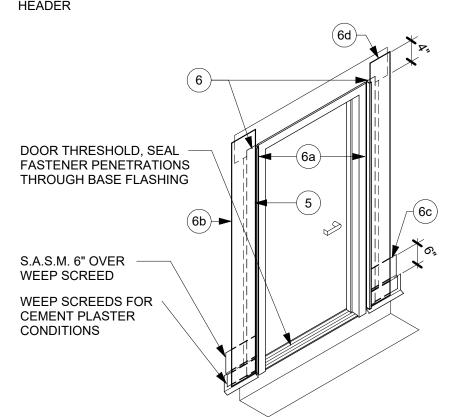
STEP 4

- 4. ATTACH MINIMUM 9" WIDE HEAD STRIP
- 4a. WRAP BOTTOM EDGE 2" INTO ROUGH OPENING
- 4b. EXTEND BEYOND EDGE OF ROUGH OPENING HEAD
- 4c. SECURE PER MFR. SPECIFICATIONS ACROSS CONT. SUBSTRATE



STEP 5 AND 6

- 5. INSTALL DOOR AND DRAME
- ATTACH FINISH MATERIAL TERMINATION (J-MOLD OR ANGLE FLASHING, ETC.) OVER FIRST LAYER OF MEMBRANE FLASHING
- 6a. LEAVE 1/2" GAP FROM FRAME OVER FIRST LAYER OF FLASHING
- 6b. INSTALL ADDITIONAL 9" WIDE S.A.S.M. OVER FINISH MATERIAL
- 6c. INSTALL STRIP OVER WEEP SCREED AT CEMENT PLASTER
- 6d. EXTEND JAMB STRIPS FROM SILL TO 4" ABOVE BOTTOM OF

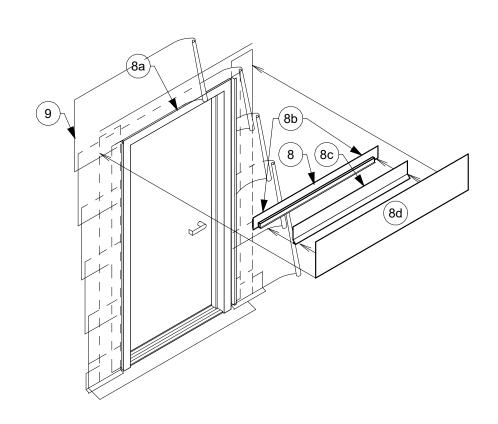


STEP 7

- 7. COMMENCING AT THE BOTTOM (SILL PLATE) OF THE WALL, LAY BUILDING PAPER (FIRST AND SECOND LAYERS)
- a. MINIMUM 4" VERTICAL LAP AND MINIMUM 6" HORIZONTAL LAP
- 7b. INTERWEAVE INDIVIDUAL BUILDING PAPER SHEETS
- 7c. INSTALL BACKER ROD AND SEALANT ALONG DOOR FRAME PERIMETER

STEPS 8 AND 9

- 8. INSTALL G.S.M. HEAD FLASHING, 24 GA. MIN.
- 8a. SET HEAD FLASHING IN BEAD OF SEALANT AT DOOR FRAME TO PROVIDE AIR SEAL
- 8b. END CAPS AT HEAD FLASHING OVER PLASTER J-MOLD AND SEALANT JOINT AT JAMBS
- 8c. INSTALL HEAD DRIP SCREED OVER HEAD FLASHING AT CEMENT PLASTER CONDITIONS
- Bd. INSTALL ADDITIONAL 9" STRIP OF S.A.S.M. OVER DRIP SCREED AND HEAD FLASHING FLANGE
- 9. APPLY THIRD LAYER OF BUILDING PAPER OVER ENTIRE ASSEMBLY. CONTINUE INSTALL W.R.B. ABOVE HEAD





DERN ARCHITECTURE + DEVELOPMENT, PC

110 CASA GRANDE

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EMERALD HILLS, CA 94062

3 SPRINGDALE WAY

MICHAEL DERN, AIA PRINCIPAL

2 TYPICAL EXTERIOR DOOR FLASHING

STEP 1 - SILL, JAMB & HEAD FLASHING

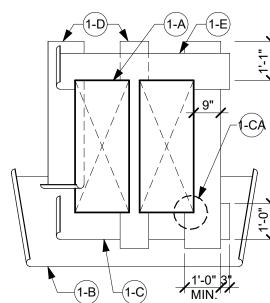
1-A CONSTRUCT ROUGH OPENING PER WINDOW MANUFACTURER INSTRUCTIONS. VERIFY SHEATHING CUT FLUSH WITH ROUGH OPENING AT ALL EDGES.

1-B
INSTALL BUILDING PAPER AT SILL, CUT IT SUFFICIENTLY LONG
TO PROJECT BEYOND THE VERTICAL SELF ADHESIVE SHEET
MEMBRANE TO BE APPLIED AT STEP 1-D. NOTCH BUILDING
PAPER TO ACCOMMODATE WINDOW.

1-C/1-CA
INSTALL SELF ADHERING SHEET MEMBRANE (S.A.S.M.) AT SILL
WITH 9" BELOW AND 3" BEYOND INTO THE ROUGH OPENING.
EXTEND SELF ADHERING SHEET MEMBRANE 3" BEYOND
VERTICAL SELF ADHERING SHEET MEMBRANE TO BE APPLIED
AT STEP 1-D. SEE DIAGRAM 1-CA FOR ADDITIONAL INFO.

APPLY SELF ADHERING SHEET MEMBRANE AT JAMBS SIMILAR TO STEP 1-C. CUT SUFFICIENTLY LONG TO PROJECT 4" BEYOND VERTICAL SELF ADHERING SHEET MEMBRANE TO BE APPLIED AT STEP 1-E.

1-E APPLY SELF ADHERING SHEET MEMBRANE AY HEAD SIMILAR TO STEP 1-C.



3" SELF ADHERING
SHEET MEMBRANE
OF 1'-0" WIDE PANEL
CUT, SEALED AND
FOLDED INTO ROUGH
OPENING
CONTINUOUS BEAD
OF SEALANT
(DIAGRAM N.T.S.)

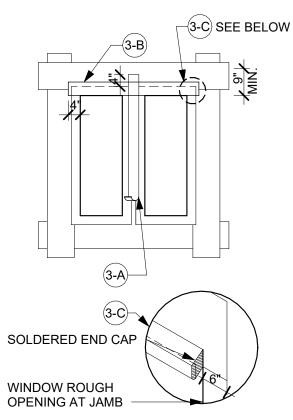
NOTE: EXTEND S.A.S.M. AT ROUGH OPENING INTO RECESS, SEE STEP 0-C

STEP 3 - HEAD AND POST FLASHING

3-A
APPLY VERTICAL STRIP OF S.A.S.M. TO MULLIONS BETWEEN
ADJACENT WINDOWS. OVERLAP JAMB FLANGES COMPLETELY.
EXTEND 6" BEYOND TOP OF HEAD FLANGE AND 6" BEYOND
BOTTOM OF SILL FLANGE.

WHERE HEAD TRIM OCCURS, INSTALL SHEET METAL HEAD
FLASHING WITH SOLDERED END CAPS, TYP. SEE DIAGRAM 3-C.
INSTALL SHEET METAL FLASHING ABOVE TRIM EXTENDING
1" BEYOND EDGE OF ROUGH OPENING. SHEET METAL FLASHING
TO HAVE A 2" MIN. VERTICAL LEG, A HORIZONTAL LEG 1/8"
DEEPER THAN HEAD TRIM, AND A VERTICAL 1/4" HEMMED
BOTTOM EDGE. INSTALL SELF ADHERING SHEET MEMBRANE OVER
VERTICAL LEG OF SHEET METAL FLASHING. EXTEND SHEET METAL
FLASHING 6" BEYOND JAMB ROUGH OPENING.

3-C SOLDERED END CAPS AT SHEET METAL HEAD FLASHING.

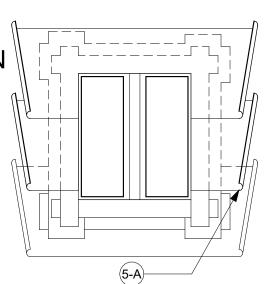


STEP 5 - BUILDING PAPER APPLICATION

4-A
INSTALL BUILDING PAPER. OVERLAP WEATHERBOARD FASHION
FROM BOTTOM TO TOP OF WALL PER MANUFACTURER'S
INSTRUCTIONS.

NOTES: DO NOT PENETRATE THE WINDOW NAIL FINS WITH FASTENERS FOR SIDING OR TRIM.

WHERE JAMB AND SILL SECTIONS ARE EXPOSED AT THE BOTTOM OF THE WINDOW, COVER SASM WITH AN ADDITIONAL LAYER OF BUILDING PAPER.



STEP 0 - HEAD AND SILL CORNER FLASHING - AT RECESSED WINDOW ONLY

0
ENSURE ROUGH OPENING CAPABLE OF ACCOMMODATING
FLASHING AND
ALL RELATED WATERPROOFING ELEMENTS.

<u>0-A</u> ADD 3 BEADS OF SEALANT IN EACH RECESSED CORNER.

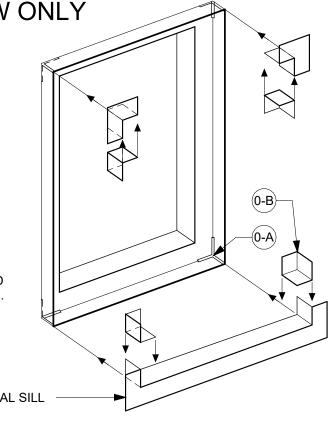
0-B
APPLY PRE-FORMED CORNER SHIELD FLASHING PIECE WITH
GALVANIZED
SHEET METAL OR MEMBRANE SILL PLAN PER FIELD CONDITIONS
INTO
EACH CORNER, FASTEN WITH STAPLES.

<u>0-C</u> INSTALL BUILDING PAPER AND S.A.S.M. AT SILL, JAMBS AND HEAD AS NOTED IN STEPS 1B, C, D AND E. CUT SEAL AND FOLD S.A.S.M. INTO RECESS.

INCREASE S.A.S.M. WIDTH BY 12" TO APPLY ONE PIECE INTO ROUGH
OPENING, FRAMING RECESS AND REQUIRED PROJECTIONS PER STEPS
1B, C, D AND E. SHEET METAL

GENERAL NOTE:
WINDOW INSTALLATION TO MEET THE
REQUIREMENTS OF AAMA 2400-02
(FORMERLY CAWM 400-95) "STANDARD
PRACTICE FOR INSTALLATION OF
WINDOWS WITH A MOUNTING FLANGE

IN STUD FRAME CONSTRUCTION", METHOD B



STEP 2 - WINDOW INSTALLATION

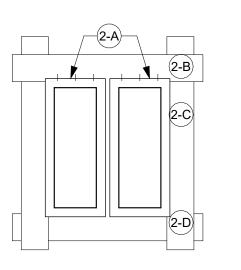
2-A
APPLY CONTINUOUS SEALANT BEAD TO INTERIOR
SIDE OF WINDOW NAIL-FINS. APPLY ADDITIONAL SEALANT AT
MITER CORNERS OF WINDOW FRAME (BACK SIDE). INSPECT
WINDOW FINS FOR DAMAGE. INSTALL WINDOW PER
MANUFACTURER'S INSTRUCTIONS. UNLESS OTHERWISE
NOTED

BY MANUFACTURER, INSTALL AS FOLLOWS:

2-B
FASTEN AT HEAD FIN PER MANUFACTURER'S
RECOMMENDATIONS.
ATTACH AS RECOMMENDED. ALLOW FOR MOVEMENT. TAP
DOWN
SHARP EDGES AT NAIL HEAD TO AVOID DAMAGE TO FLASHING
PAPER

2-C MIN. 3 FASTENERS EACH SIDE AT 16" O.C. MAX. TYP. OR MORE FREQUENTLY PER MANUFACTURE

2-D NO FASTENERS TO BE WITH 3" OF OUTSIDE CORNER OF FINS.

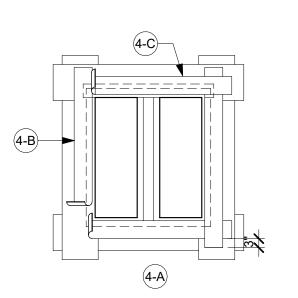


STEP 4 - SECOND SELF ADHERING SHEET MEMBRANE APPLICATION

4-A
CONTINUE INSTALLING 6" WIDE SELF ADHERING SHEET
MEMBRANE AT JAMBS TO OVERLAP NAIL FIN AND EXTEND
3" BEYOND SILL SELF ADHERING SHEET MEMBRANE.

4-B
INSTALL FLUID APPLIED MEMBRANE OR 6" SELF ADHERING SHEET
MEMBRANE AT JAMB TO OVERLAP HEAD AND SILL FLASHING.
EXTEND 3" BEYOND EDGE OF SELF ADHERING SHEET MEMBRANE
AT HEAD AND SILL.

INSTALL 6" SELF ADHERING SHEET MEMBRANE AT HEAD TO OVERLAP SHEET METAL HEAD FLASHING. EXTEND 3" BEYOND EDGE OF SELF ADHERING SHEET MEMBRANE AT JAMB.



DERN PROJECT NUMBER

7/11/2023

PERMIT

SHEET TITLE

TYPICAL FLASHING

SHEET NO. **7 7**

1 TYPICAL WINDOW FLASHING



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DERN PROJECT NUMBER 2304

7/11/2023

PERMIT

TITLE-24
CALCULATIONS

SHEET NO. **A8.1**



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TITLE-24
CALCULATIONS

A8.2



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TITLE-24
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TITL-24 CALCULATIONS

A8.4