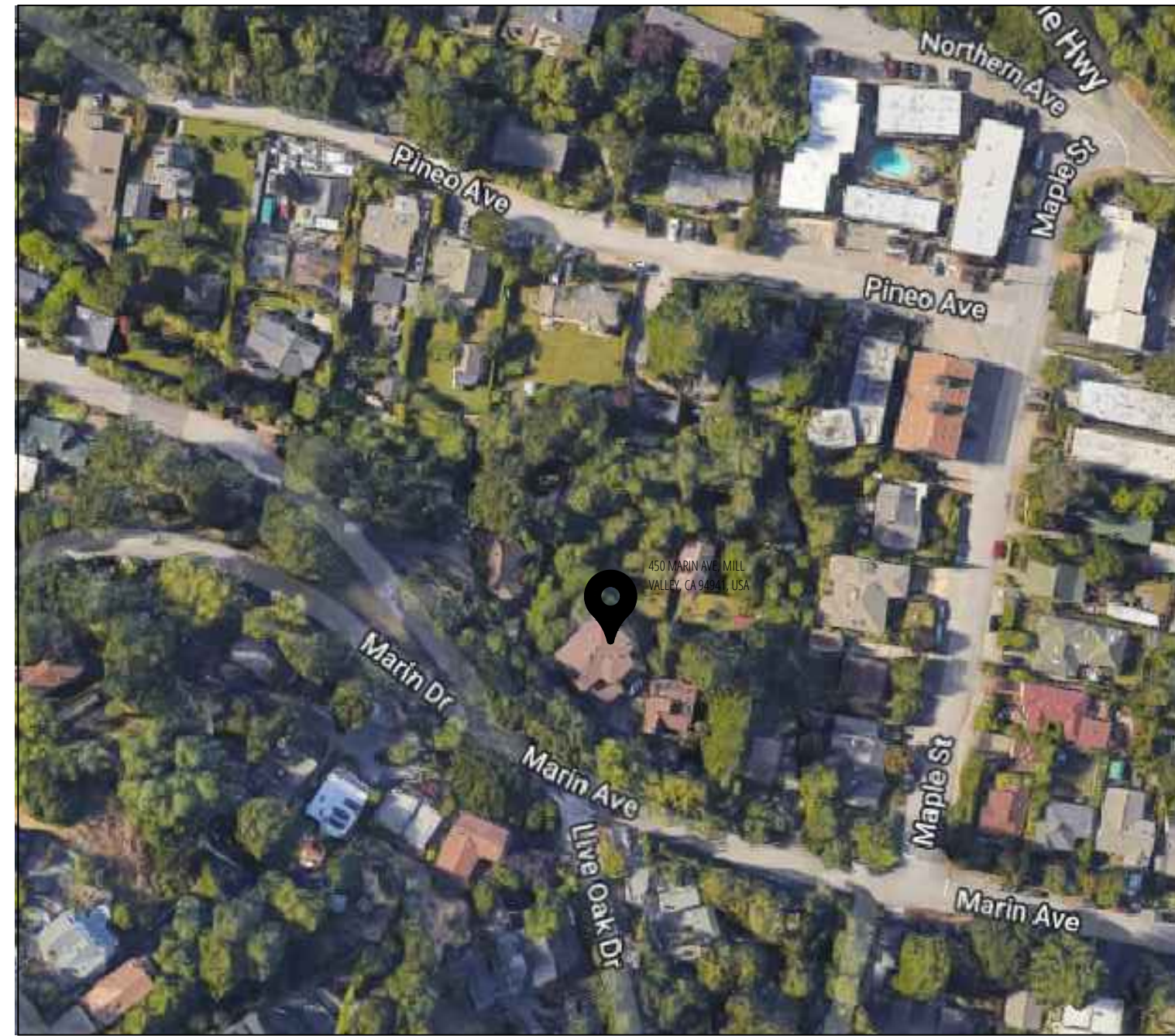
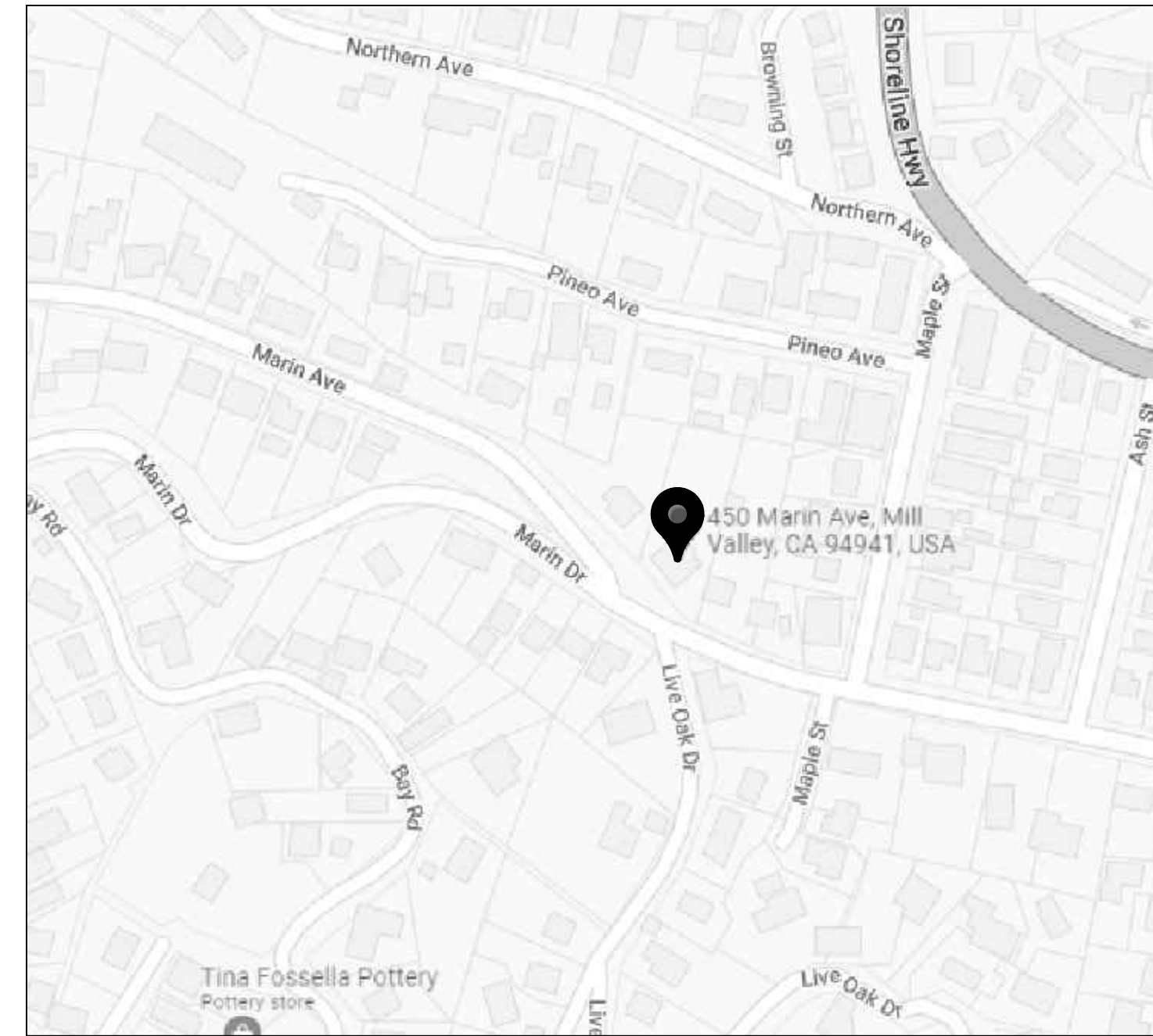


AERIAL PHOTO



VICINITY MAP



PROJECT TEAM

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| A0.1 | CAL GREEN |
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| Date | No. | Issue Notes |
|-----------|-----|---------------|
| 6/30/2022 | | DESIGN REVIEW |
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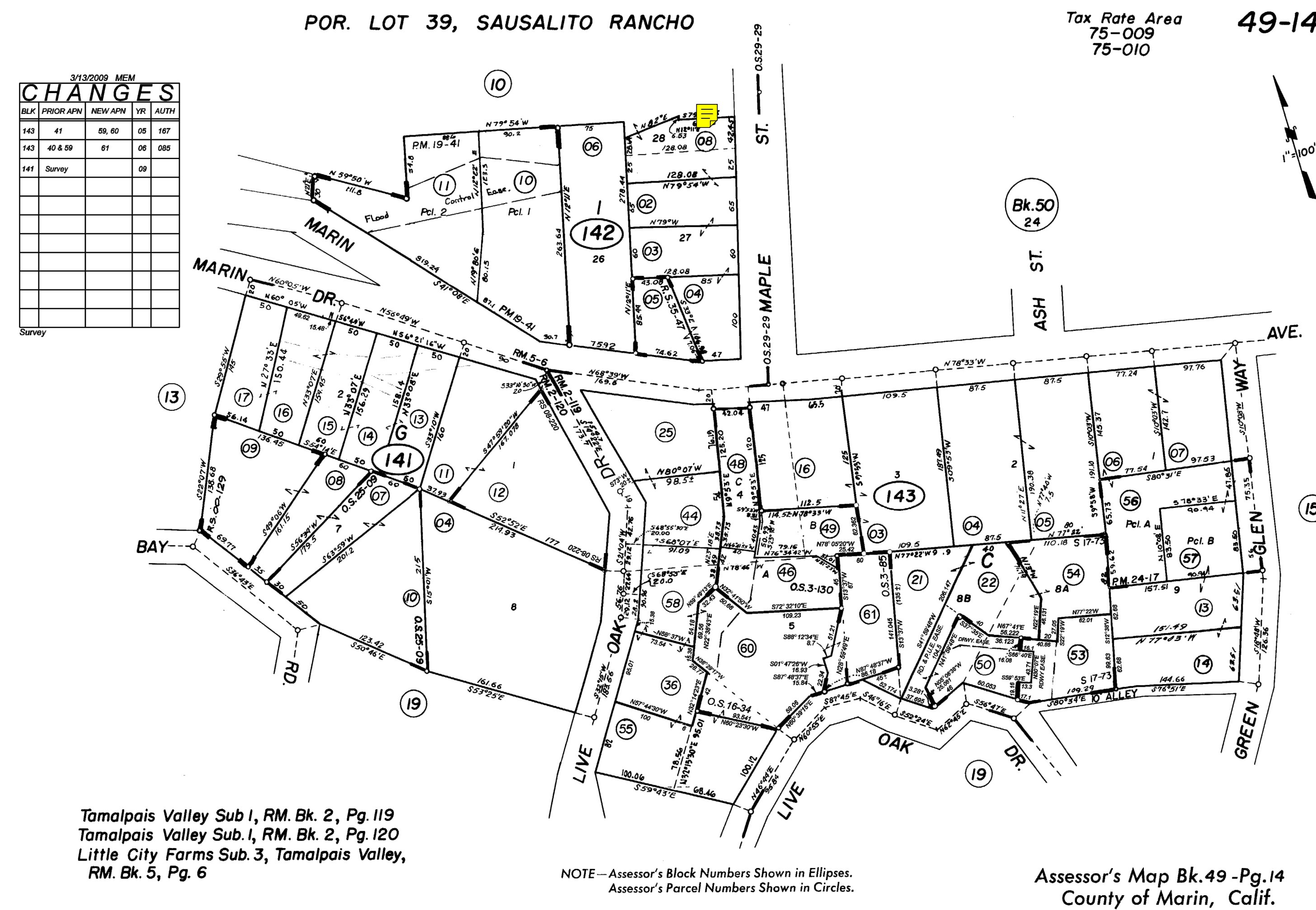
SITE DATA TABLE

STANDARD PROJECT DATA ON SITE PLAN
 BASED ON APPLICABLE DEFINITIONS IN MARIN COUNTY CODE, INCLUDE THE
 FOLLOWING INFORMATION:

| | | | |
|-----|---|---------------------------------|--|
| 1. | LOT AREA (BOTH THE DRY LAND AREA AND THE TOTAL AREA MUST BE PROVIDED FOR LOTS THAT ARE PARTIALLY SUBMERGED) | EXISTING PROPOSED | 23,000 SQ. FT. 23,000 SQ. FT. |
| 2. | BUILDING AREA | EXISTING PROPOSED | 3,652 SQ. FT. 4,246 SQ. FT. |
| 3. | FLOOR AREA | EXISTING PROPOSED | 3,012 SQ. FT. 3,599 SQ. FT. |
| 4. | FLOOR AREA RATIO | EXISTING PROPOSED | .14 .16 |
| 5. | PROPOSED AREA OF ADDITIONAL DISTURBANCE | | N/A |
| 6. | LOT COVERAGE | EXISTING PROPOSED | 2,806 SQ. FT. - .12 3,264 SQ. FT. - .14 |
| 7. | GRADING CALCULATIONS (CUBIC YARDS) | CUT FILL OFF-HAUL | N/A N/A N/A |
| 8. | PARKING | EXISTING PROPOSED | 4 4 |
| 9. | MINIMUM SETBACKS FOR EXTERIOR WALLS OF PROPOSED BUILDING AREA: | FRONT WEST SIDE EAST SIDE | 31'-7" 20'-1" 15'-1" |
| 10. | MAXIMUM HEIGHT OF PROPOSED BUILDING AREA | | 26'-1" |

ASSESSORS PARCEL MAP

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSORS PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.



PROJECT INFO

ZONING: RA-B2
 OCCUPANCY: R-3
 CONSTRUCTION TYPE: V-B
 STORIES: 2
 WILDLAND URBAN INTERFACE ZONE (WUI): YES
 RESIDENTIAL FIRE SPRINKLERS REQUIRED: YES
 PERCENT SLOPE: 12.4
 LATITUDE: 37°52'45" N
 LONGITUDE: 122°32'22" W

PROJECT DESCRIPTION

450 MARIN AVE IS A TWO STORY, 4-BEDROOM, 4-BATH, 3,012 HOME ON A 23,000 SQUARE FOOT LOT. THERE IS A TWO-CAR GARAGE OF 461 SQUARE FEET. THE OWNERS, ALINE AND JOSHUA COPP, WOULD LIKE TO ADD A NEW UPPER-LEVEL BEDROOM, BATH, AND FORMAL ENTRY TOTALING 308 SQUARE FEET AND A NEW REAR DECK FROM THE UPPER-LEVEL LIVING ROOM. WE ARE PROPOSING A SHED DORMER AT THE UPPER-LEVEL LIVING ROOM IN ORDER TO GAIN ADDITIONAL CEILING HEIGHT GREATER THAN THE CURRENT 8'. THE NEW SQUARE FOOTAGE OF THE HOME IS PROPOSED TO BE 4,246 SQUARE FEET INCLUDING THE GARAGE AND REQUIRES DESIGN REVIEW. FROM A PRIOR COUNTER REVIEW OF THE SCHEMATIC PLANS, I UNDERSTAND THAT THE BEDROOM/BATH ADDITION AND THE FRONT ENTRY ADDITION REQUIRE DESIGN REVIEW AS THE PROPOSED TOTAL BUILDING AREA EXCEEDS 4,000 SQUARE FEET BUT NOT THE NEW DECK. ALL OTHER DEVELOPMENT STANDARDS ARE IN ORDER WITH A PROPOSED FAR OF .16, LOT COVERAGE OF .14, IMPERVIOUS SURFACE AT .41 AND SETBACKS THAT EXCEED THE RA-B2 REQUIREMENTS. THE LOT IS MODESTLY SLOPE AT 12% AND VEGETATED WITH FRUIT AND NATIVE TREES. THERE ARE TWO EASEMENTS IN THE REAR YARD; A 10' SANITARY SEWER EASEMENT AND A MARIN COUNTY FLOOD CONTROL EASEMENT, NEITHER OF WHICH IS CLOSE TO THE EXISTING OR PROPOSED BUILDING ENVELOPES.

COPP RESIDENCE
 AP# 049-142-10
 Cover Sheet

450 Marin Avenue
 Mill Valley
 CA 94941, USA

Drawn By: UR Studio

Date: 10/21/2021

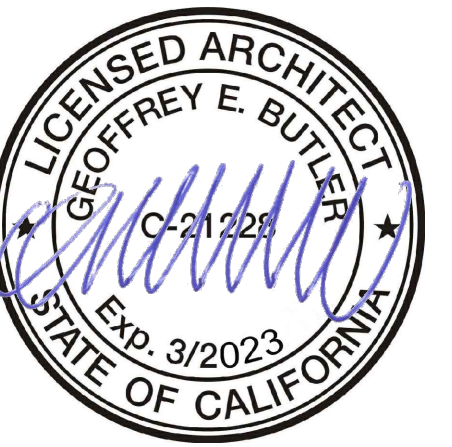
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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

Y NA RESPON. PARTY: YES NOT APPLICABLE RESPONSIBLE PARTY (i.e. ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)



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CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.

Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

ABBREVIATION DEFINITIONS:
HCD Department of Housing and Community Development
BSC California Building Standards Commission
DSA-SS Division of the State Architect, Structural Safety
OSHDP Office of Statewide Health Planning and Development
LR Low Rise
HR High Rise
AA Additions and Alterations
N New

CHAPTER 4 RESIDENTIAL MANDATORY MEASURES

DIVISION 4.1 PLANNING AND DESIGN

SECTION 4.102 DEFINITIONS
4.102.1 DEFINITIONS
The following terms are defined in Chapter 2 (and are included here for reference)

FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.

WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.

4.106 SITE DEVELOPMENT
4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.

4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.

1. Retention basins of sufficient size shall be utilized to retain storm water on the site.
2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.
3. Compliance with a lawfully enacted storm water management ordinance.

Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)

4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales
2. Water collection and disposal systems
3. French drains
4. Water retention gardens
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the *California Electrical Code*, Article 625.

Exceptions:

1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:
 - 1.1 Where there is no commercial power supply.
 - 1.2 Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per dwelling unit.
2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.

4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

4.106.4.2 New multifamily dwellings. If residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

Notes:

1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.
2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. Where common use parking is provided at least one EV space shall be located in the common use parking area and shall be available for use by all residents.

4.106.4.2.1.1 Electric Vehicle Charging Stations (EVCS) When EV chargers are installed, EV spaces required by Section 4.106.4.2.2, Item 3, shall comply with at least one of the following options:

1. The EV space shall be located adjacent to an accessible parking space meeting the requirements of the *California Building Code*, Chapter 11A, to allow use of the EV charger from the accessible parking space.
2. The EV space shall be located on an accessible route, as defined in the *California Building Code*, Chapter 2, to the building.

Exception: Electric vehicle charging stations designed and constructed in compliance with the *California Building Code*, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and Section 4.106.4.2.2, Item 3.

Note: Electric Vehicle charging stations serving public housing are required to comply with the *California Building Code*, Chapter 11B.

4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:

1. The minimum length of each EV space shall be 18 feet (5486 mm).
2. The minimum width of each EV space shall be 9 feet (2743 mm).
3. One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
 - a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the raceway termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on ampereage of future EVSE, raceway method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated ampereage of the EVSE. 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 concealed areas and spaces shall be installed at the time of original construction.

4.106.4.2.5 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the *California Electrical Code*.

4.106.4.3 New hotels and motels. All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall identify the location of the EV spaces.

Notes:

1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.
2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

4.106.4.3.1 Number of required EV spaces. The number of required EV spaces shall be based on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

| TABLE 4.106.4.3.1 TOTAL NUMBER OF PARKING SPACES | NUMBER OF REQUIRED EV SPACES |
|---|------------------------------|
| 0-9 | 0 |
| 10-25 | 1 |
| 26-50 | 2 |
| 51-75 | 4 |
| 76-100 | 5 |
| 101-150 | 7 |
| 151-200 | 10 |
| 201 and over | 6 percent of total |

4.106.4.3.2 Electric vehicle charging space (EV space) dimensions. The EV spaces shall be designed to comply with the following:

1. The minimum length of each EV space shall be 18 feet (5486mm).
2. The minimum width of each EV space shall be 9 feet (2743mm).

4.106.4.3.3 Single EV space required. When a single EV space is required, the EV space shall be designed in accordance with Section 4.106.4.2.3.

4.106.4.3.4 Multiple EV spaces required. When multiple EV spaces are required, the EV spaces shall be designed in accordance with Section 4.106.4.2.4.

4.106.4.3.5 Identification. The service panels or sub-panels shall be identified in accordance with Section 4.106.4.2.5.

4.106.4.3.6 Accessible EV spaces. In addition to the requirements in Section 4.106.4.3, EV spaces for hotels/motels and all EVSE, when installed, shall comply with the accessibility provisions for the EV charging stations in the *California Building Code*, Chapter 11B.

DIVISION 4.2 ENERGY EFFICIENCY

4.201 GENERAL

4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

4.303 INDOOR WATER USE

4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.

Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

4.303.1.3 Showerheads.

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 WaterSense Specification for Showerheads.

4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.

Note: A hand-held shower shall be considered a showerhead.

4.303.1.4 Faucets.

4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.

4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code*.

NOTE:
THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

| TABLE - MAXIMUM FIXTURE WATER USE | |
|---|--|
| FIXTURE TYPE | FLOW RATE |
| SHOWER HEADS (RESIDENTIAL) | 1.8 GMP @ 80 PSI |
| LAVATORY FAUCETS (RESIDENTIAL) | MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI |
| LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS | 0.5 GPM @ 60 PSI |
| KITCHEN FAUCETS | 1.8 GPM @ 60 PSI |
| METERING FAUCETS | 0.2 GAL/CYCLE |
| WATER CLOSET | 1.28 GAL/FLUSH |
| URINALS | 0.125 GAL/FLUSH |

4.304 OUTDOOR WATER USE

4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

NOTES:

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the *California Code Regulations*, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: <https://www.water.ca.gov/>

DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in solebottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

Exceptions:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
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.

4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).
3. Identify diversion facilities where the construction and demolition waste material collected will be taken.
4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.
5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR] Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq. ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1

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 per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1.

4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.
2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

4.410 BUILDING MAINTENANCE AND OPERATION

4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
2. Operation and maintenance instructions for the following:
 - a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
 - b. Roof and yard drainage, including gutters and downspouts.
 - c. Space conditioning systems, including condensers and air filters.
 - d. Landscape irrigation systems.
 - e. Water reuse systems.
3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
4. Public transportation and/or carpool options available in the area.
5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
9. Information about state solar energy and incentive programs available.
10. A copy of all special inspections verifications required by the enforcing agency or this code.

4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.

DIVISION 4.5 ENVIRONMENTAL QUALITY

SECTION 4.501 GENERAL

4.501.1 SCOPE
The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorless, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.

SECTION 4.502 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 (and are included here for reference)

AGRFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.

DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 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 NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

| Date | No. | Issue Notes |
|-----------|-----|---------------|
| 6/30/2022 | | DESIGN REVIEW |
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| Date | Delta | Revision Notes |
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Drawn By: UR Studio

Date: 10/21/2021

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A0.1

MARIN COUNTY 2019 CALGREEN CHECKLIST
CALGreen Standards for Residential Additions & Alterations
less than 1,200 square feet

This checklist is effective January 1, 2020 and applies to additions and alterations of low-rise residential buildings including hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations, and accessory structures.

The provisions of this checklist apply only to the portions of the building being added to or altered within the scope of the permitted work when the cumulative square footage of the project is less than 1,200 square feet. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.

Submit this checklist with your plans to demonstrate compliance with the green building ordinance. This checklist includes modifications specific to Marin County. For more information on the County's Green Building requirements, please visit www.maringreenbuilding.org

For more information on CALGreen and complete measure language, see Chapters 4 and Appendix 4 here: <https://codes.iccsafe.org/content/CAGBSC2019/table-of-contents>

PROJECT DETAILS

Project Address: APN
Geoffrey E. Butler
Applicant Name (Please Print)

PROJECT VERIFICATION

The green building professional¹ has reviewed the plans and certifies that the mandatory and elective measures listed below are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2019 California Green Building Standards Code as amended by the County of Marin.

Signature: Geoffrey E. Butler, Architect
Name & Title (Please Print)
Date

¹ A qualified building professional can be an architect, engineer, contractor, or qualified green building professional, such as a CALGreen Special Inspector.
Last Updated: March 10, 2020 Page 1

MARIN COUNTY 2019 CALGREEN CHECKLIST
CALGreen Standards for Residential Additions & Alterations
less than 1,200 square feet

| CALGREEN MEASURE ALL MEASURES ARE MANDATORY UNLESS NOT IN PROJECT SCOPE | COMPLETED? (YES OR N/A) |
|---|--|
| 4.106.2 A plan is developed and implemented to manage stormwater runoff from the construction activities through compliance with the County of Marin's stormwater management ordinance . <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.106.3 Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.106.4.1 One- and two-family dwellings, and townhouses with attached private garages. If the project scope includes an upgrade of the electrical service panel, achieve Level 2 EV readiness including a raceway and dedicated 208/240-volt branch circuit, as required in the Marin County Building Code, Chapter 19.04, Subchapter 2 . <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.106.4.2 Multifamily dwellings and hotels/motels. If the project scope includes an upgrade of the electrical service panel or modification of the parking lot, comply with EV Readiness requirements outlined in the Marin County Building Code, Chapter 19.04, Subchapter 2 . <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.201.1 Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code and shall meet the applicable referenced standards. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |

Last Updated: March 10, 2020 Page 2

MARIN COUNTY 2019 CALGREEN CHECKLIST
CALGreen Standards for Residential Additions & Alterations
less than 1,200 square feet

| CALGREEN MEASURE ALL MEASURES ARE MANDATORY UNLESS NOT IN PROJECT SCOPE | COMPLETED? (YES OR N/A) |
|--|--|
| 4.304.1 Residential developments shall comply with local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.406.1 Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.408.1 Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with the reporting standards outlined by Zero Waste Marin . <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.410.2 Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance if more restrictive. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.503.1 Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with the 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 including the County of Marin Municipal Code (Wood-Burning Devices) . <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |

Last Updated: March 10, 2020 Page 3

MARIN COUNTY 2019 CALGREEN CHECKLIST
CALGreen Standards for Residential Additions & Alterations
less than 1,200 square feet

| CALGREEN MEASURE ALL MEASURES ARE MANDATORY UNLESS NOT IN PROJECT SCOPE | COMPLETED? (YES OR N/A) |
|--|--|
| 4.504.1 Duct openings and other related air distribution component openings shall be covered during construction. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.2.3 Aerosol paints and coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used. Documentation may include (but isn't limited to) the Manufacturer's product specification or field verification of on-site product containers. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.3 Carpet and carpet systems shall be compliant with VOC limits. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.4 80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |

Last Updated: March 10, 2020 Page 4

MARIN COUNTY 2019 CALGREEN CHECKLIST
CALGreen Standards for Residential Additions & Alterations
less than 1,200 square feet

| CALGREEN MEASURE ALL MEASURES ARE MANDATORY UNLESS NOT IN PROJECT SCOPE | COMPLETED? (YES OR N/A) |
|---|--|
| A4.504.2 Install VOC compliant resilient flooring systems. Ninety (90) percent of floor area receiving resilient flooring shall comply with the VOC-emission limits established in section A4.504.2. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| A4.504.3 Thermal insulation installed in the building shall install thermal insulation in compliance with VOC limits <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.505.2 Vapor retarder and capillary break is installed at slab on grade foundations. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.506.1 Each bathroom shall be provided with the following: 1. ENERGY STAR fans ducted to terminate outside the building. 2. Fans must be controlled by a humidity control (Separate or built-in); OR functioning as a component of a whole-house ventilation system. 3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of ± 50 percent to a maximum of 80 percent. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |
| 4.507.2 Duct systems are sized, designed, and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D - 2016 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent. <i>Plan sheet reference (if applicable):</i> | <input type="checkbox"/> YES <input type="checkbox"/> N/A |

Last Updated: March 10, 2020 Page 5



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| 6/30/2022 | | DESIGN REVIEW |
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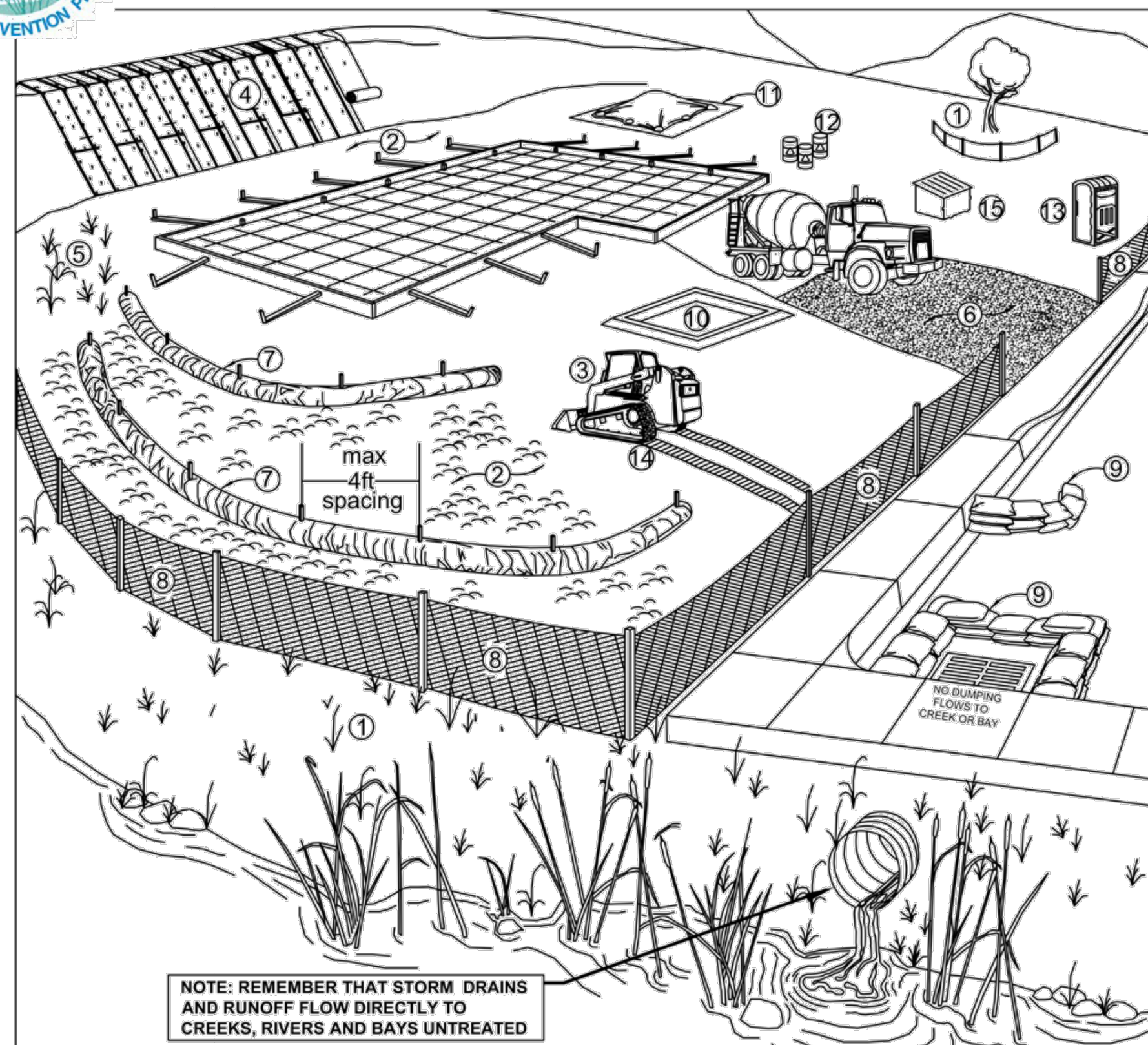
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Marin County Stormwater Pollution Prevention Program Minimum Control Measures For Small Construction Projects



| Erosion Controls | Sediment Controls | Good Housekeeping |
|--|---------------------------|---------------------------------------|
| NS Scheduling | 6. Tracking Controls | 10. Concrete Washout |
| 1. Preserve Vegetation & Creek Set Backs | 7. Fiber Rolls | 11. Stockpile Management |
| 2. Soil Cover | 8. Silt Fence | 12. Hazardous Material Management |
| 3. Soil Preparation/ Roughening | 9. Drain Inlet Protection | 13. Sanitary Waste Management |
| 4. Erosion Control Blankets | NS Trench Dewatering | 14. Equipment and Vehicle Maintenance |
| 5. Revegetation | | 15. Litter and Waste Management |

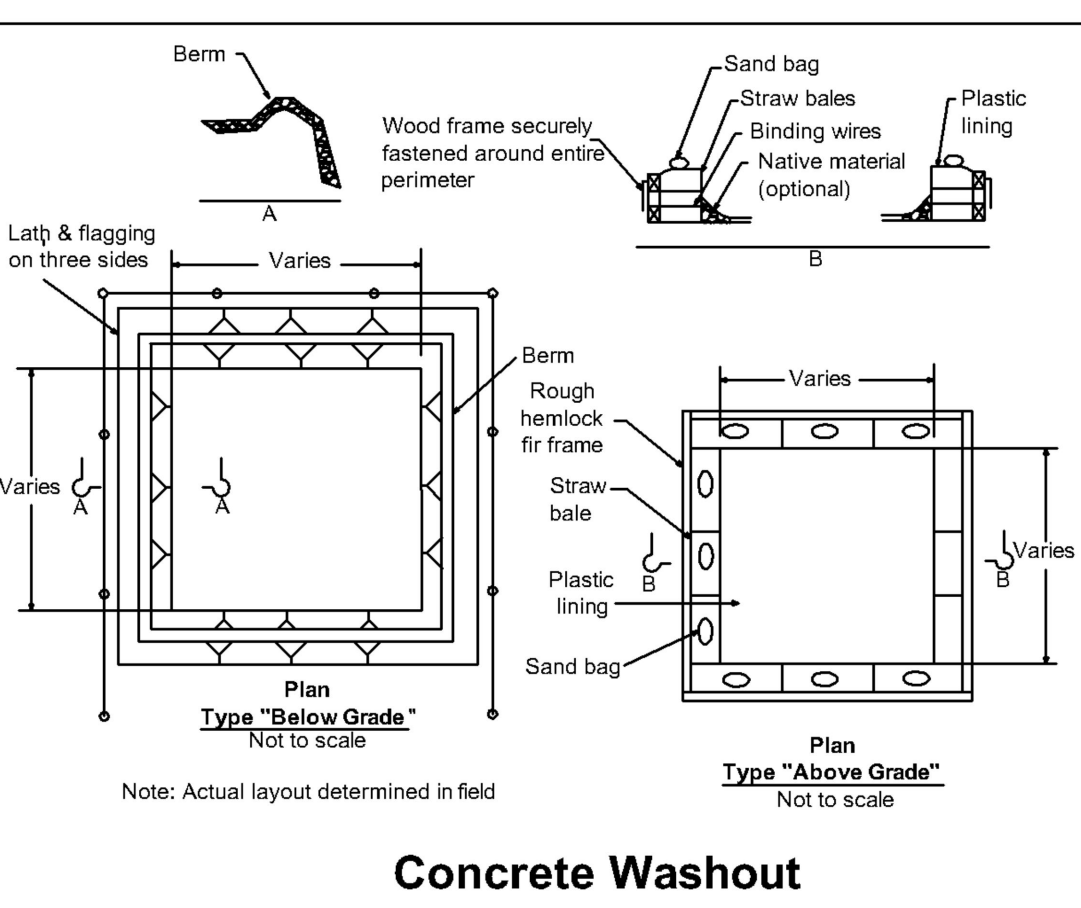
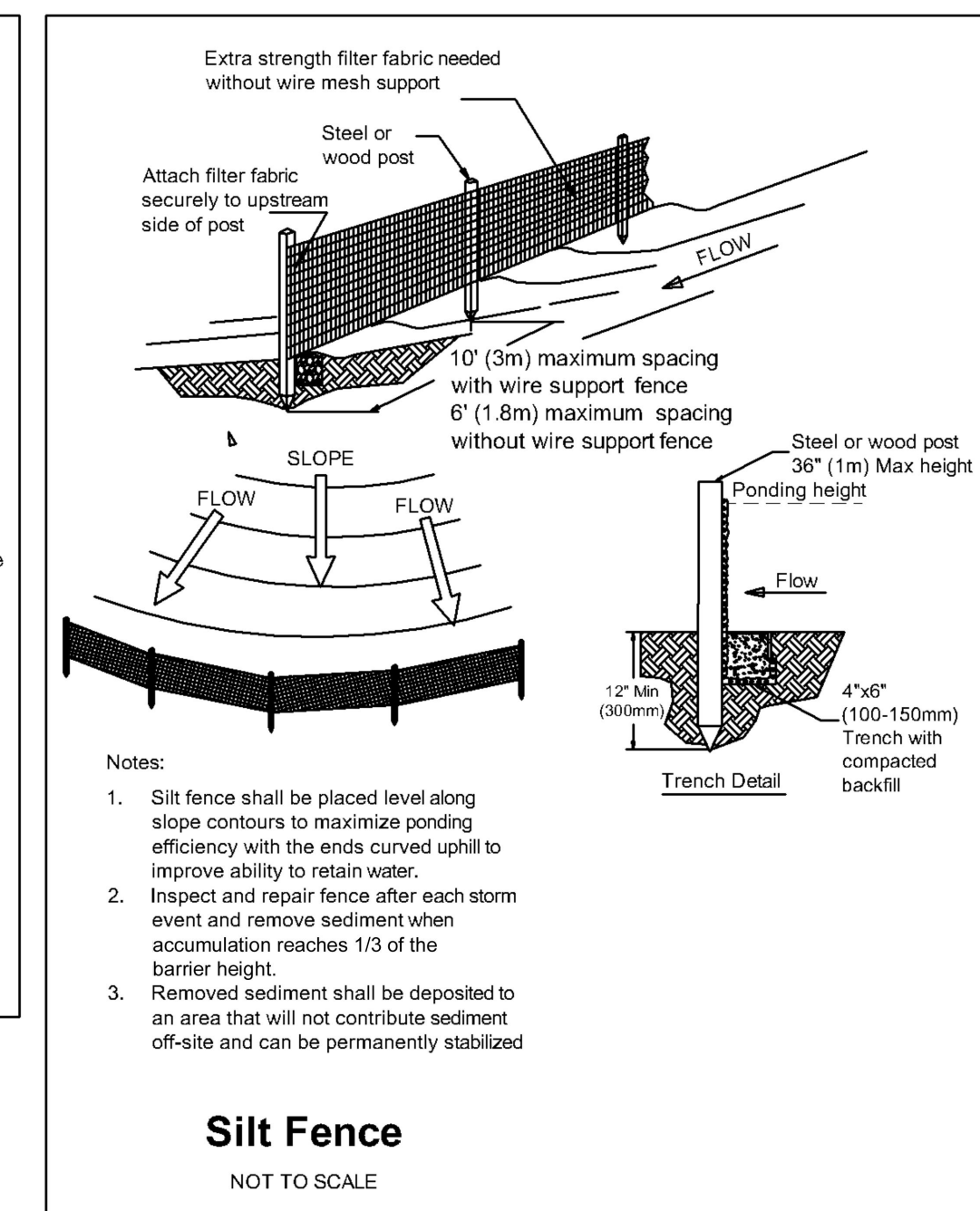
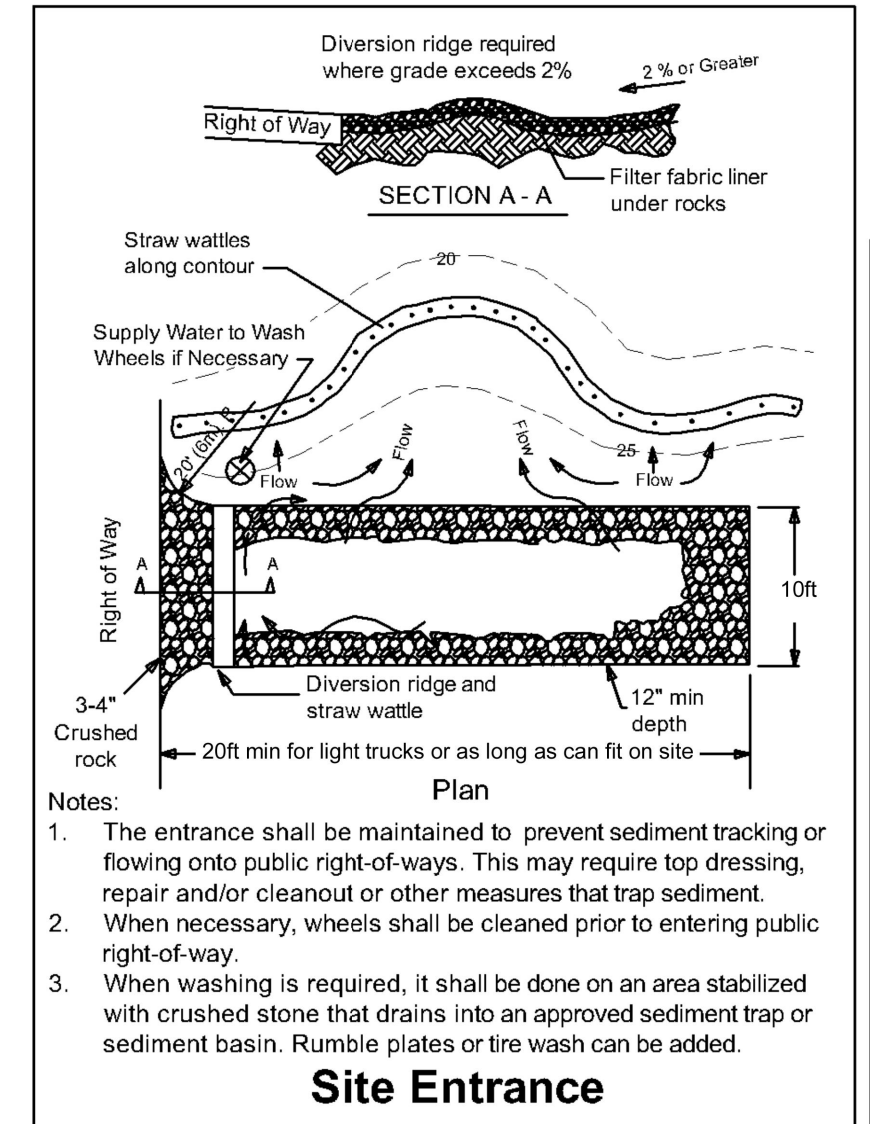
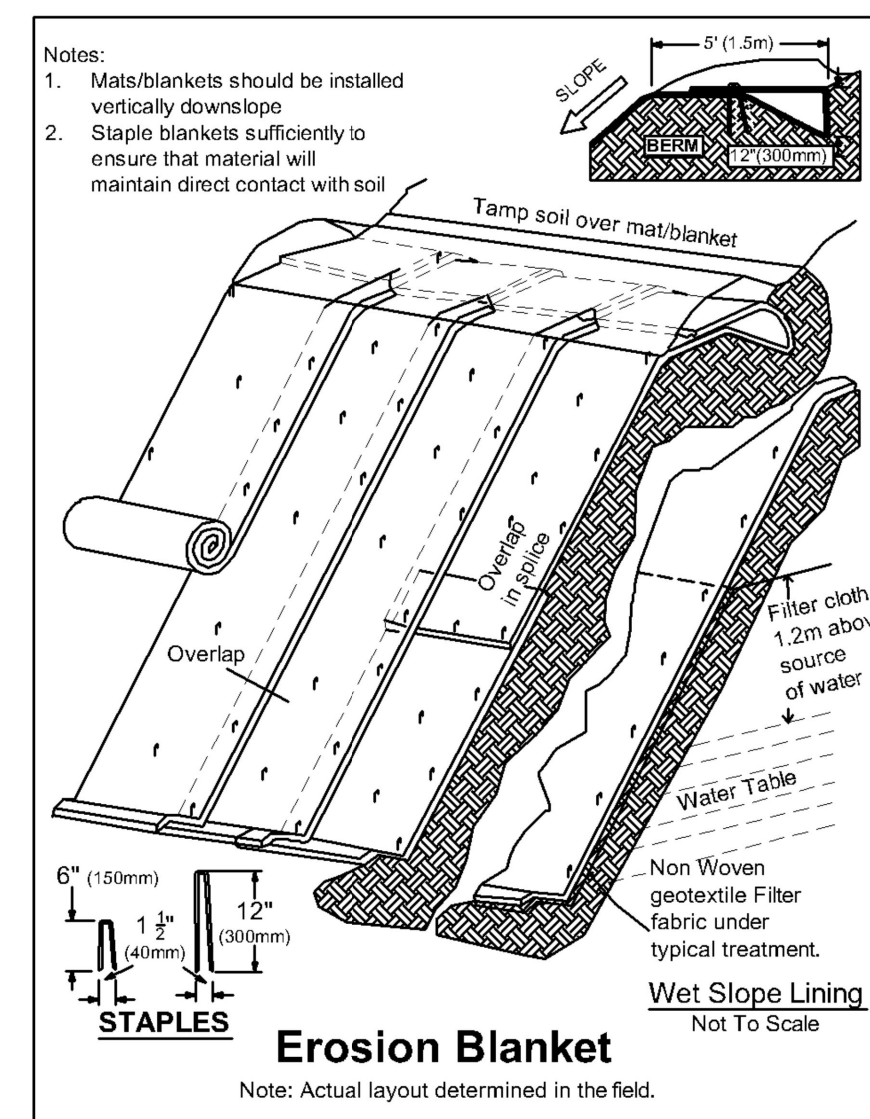
NS=not shown on graphic

Note: Select an effective combination of control measures from each category, Erosion Control, Sediment Control, and Good Housekeeping. Control measures shall be **continually implemented and maintained throughout the project** until activities are complete, disturbed areas are stabilized with permanent erosion controls, and the local agency has signed off on permits that may have been required for the project. **Inspect and maintain the control measures** before and after rain events, and as required by the local agency or state permit.

More detailed information on the BMPs can be found in the related California Stormwater Quality Association (CASQA) and California Department of Transportation (Caltrans) BMP Factsheets. CASQA factsheets are available by subscription in the *California Best Management Practices Handbook Portal: Construction* at <http://www.casqa.org>. Caltrans factsheets are available in the *Construction Site BMP Manual March 2003* at <http://www.dot.ca.gov/hq/construct/stormwater/manuals.htm>. Visit www.mcstopp.org for more information on construction site management and Erosion and Sediment Control Plans.

If you require materials in alternative formats, please contact:
415-473-4381 voice/TTY or disabilityaccess@co.marin.ca.us

| Control Measure | General Description |
|--|--|
| Erosion Control Best Management Practices | |
| N/A | Scheduling Plan the project and develop a schedule showing each phase of construction. Schedule construction activities to reduce erosion potential, such as scheduling ground disturbing activities during the summer and phasing projects to minimize the amount of area disturbed. For more info see the following factsheets: CASQA: EC-1; or Caltrans: SS-1. |
| 1 | Preserve Existing Vegetation and Creek Setbacks Preserve existing vegetation to the extent possible, especially along creek buffers. Show creek buffers on maps and identify areas to be preserved in the field with temporary fencing. Check with the local Planning and Public Works Departments for specific creek set back requirements. For more info see the following factsheets: CASQA: EC-2; or Caltrans: SS-2. |
| 2 | Soil Cover Cover exposed soil with straw mulch and tackifier (or equivalent). For more info see the following factsheets: CASQA: EC-3, EC-5, EC-6, EC-7, EC-8, EC-14, EC-16; or Caltrans: SS-2, SS-4, SS-5, SS-6, SS-7, SS-8. |
| 3 | Soil Preparation/ Roughening Soil preparation is essential to vegetation establishment and BMP installation. It includes soil testing and amendments to promote vegetation growth as well as roughening surface soils by mechanical methods (decompacting, scarifying, stair stepping, etc.). For more info see the following factsheets: CASQA: EC-15. |
| 4 | Erosion Control Blankets Install erosion control blankets (or equivalent) on disturbed sites with 3:1 slopes or steeper. Use wildlife-friendly blankets made of biodegradable natural materials. Avoid using blankets made with plastic netting or fixed aperture netting. See: http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf . For more info see the following factsheets: CASQA: EC-7; or Caltrans: SS-7. |
| 5 | Revegetation Re-vegetate areas of disturbed soil or vegetation as soon as practical. For more info see the following factsheets: CASQA: EC-4; or Caltrans: SS-4. |
| Sediment Control Best Management Practices | |
| 6 | Tracking Controls Stabilize site entrance to prevent tracking soil offsite. Inspect streets daily and sweep street as needed. Require vehicles and workers to use stabilized entrance. Place crushed rock 12-inches deep over a geotextile, using angular rock between 4 and 6-in. Make the entrance as long as can be accommodated on the site, ideally long enough for 2 revolutions of the maximum tire size (16-20 feet long for most light trucks). Make the entrance wide enough to accommodate the largest vehicle that will access the site, ideally 10 feet wide with sufficient radii for turning in and out of the site. Rumble pads or rumble racks can be used in lieu of or in conjunction with rock entrances. Wheel washes may be needed where space is limited or where the site entrance and sweeping is not effective. For more info see the following factsheets: CASQA: TC-1; TC-3; or Caltrans: TC-1; TC-3. |
| 7 | Fiber Rolls Use fiber rolls as a perimeter control measure, along contours of slopes, and around soil stockpiles. On slopes space rolls 10 to 20 feet apart (using closer spacing on steeper slopes). Install parallel to contour. If more than one roll is used in a row overlap roll do not abut. J-hook end of roll upslope. Install rolls per either Type 1 (stake rolls into shallow trenches) or Type 2 (stake in front and behind roll and lash with rope). Use wildlife-friendly fiber rolls made of biodegradable natural materials. Avoid using fiber rolls made with plastic netting or fixed aperture netting. See: http://www.coastal.ca.gov/nps/Wildlife-Friendly_Products.pdf . Manufactured linear sediment control or compost socks can be used in lieu of fiber rolls. For more info see the following factsheets: CASQA: SE-5 (Type 1); SE-12, SE-13; or Caltrans: SC-5 (Type 1 and Type 2). |
| 8 | Silt Fence Use silt fence as a perimeter control measure, and around soil stockpiles. Install silt fence along contours. Key silt fence into the soil and stake. Do not use silt fence for concentrated water flows. Install fence at least 3 feet back from the slope to allow for sediment storage. Wire backed fence can be used for extra strength. Avoid installing silt fence on slopes because they are hard to maintain. Manufactured linear sediment control can be used in lieu of silt fences. For more info see the following factsheets: CASQA: SE-1; SE-12; or Caltrans: SC-1. |
| 9 | Drain Inlet Protection Use gravel bags, (or similar product) around drain inlets located both onsite and in gutter as a last line of defense. Bags should be made of a woven fabric resistant to photo-degradation filled with 0.5-1-in washed crushed rock. Do not use sand bags or silt fence fabric for drain inlet protection. For more info see the following factsheets: CASQA: SE-10; or Caltrans: SC-10. |
| N/A | Trench Dewatering Follow MCSTOPPP BMPs for trench dewatering. http://www.marincounty.org/depts/pw/divisions/mcstopp/development~/media/Files/Department/PW/mcstopp/development/TrenchingSWReqMCSTOPPPFinal6_09.pdf . For more info see the following factsheets: CASQA: NS-2; or Caltrans: NS-2. |
| Good Housekeeping Best Management Practices | |
| 10 | Concrete Washout Construct a lined concrete washout site away from storm drains, waterbodies, or other drainages. Ideally, place adjacent to stabilized entrance. Clean as needed and remove at end of project. For more info see the following factsheets: CASQA: WM-8; or Caltrans: WM-8. |
| 11 | Stockpile Management Cover all stockpiles and landscape material and berm properly with fiber rolls or sand bags. Keep behind the site perimeter control and away from waterbodies. For more info see the following factsheets: CASQA: WM-3 or Caltrans: WM-3. |
| 12 | Hazardous Material Management Hazardous materials must be kept in closed containers that are covered and within secondary containment; do not place containers directly on soil. For more info see the following factsheets: CASQA: WM-6; or Caltrans: WM-6. |
| 13 | Sanitary Waste Management Place portable toilets near stabilized site entrance, behind the curb and away from gutters, storm drain inlets, and waterbodies. Tie or stake portable toilets to prevent tipping and equip units with overflow pan/tray (most vendors provide these). For more info see the following factsheets: CASQA: WM-9; or Caltrans: WM-9. |
| 14 | Equipment and Vehicle Maintenance Prevent equipment fluid leaks onto ground by placing drip pans or plastic tarps under equipment. Immediately clean up any spills or drips. For more info see the following factsheets: CASQA: NS-8, NS-9, and NS-10; or Caltrans: NS-8, NS-9, and NS-10. |
| 15 | Litter and Waste Management Designate waste collection areas on site. Use watertight dumpsters and trash cans; inspect for leaks. Cover at the end of each work day and when it is raining or windy. Arrange for regular waste collection. Pick up site litter daily. For more info see the following factsheets: CASQA: WM-5; or Caltrans: WM-5. |



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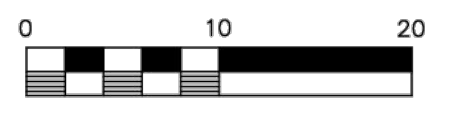
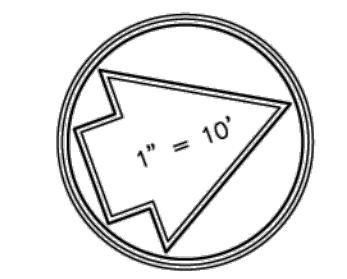
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Storm Water Prevention

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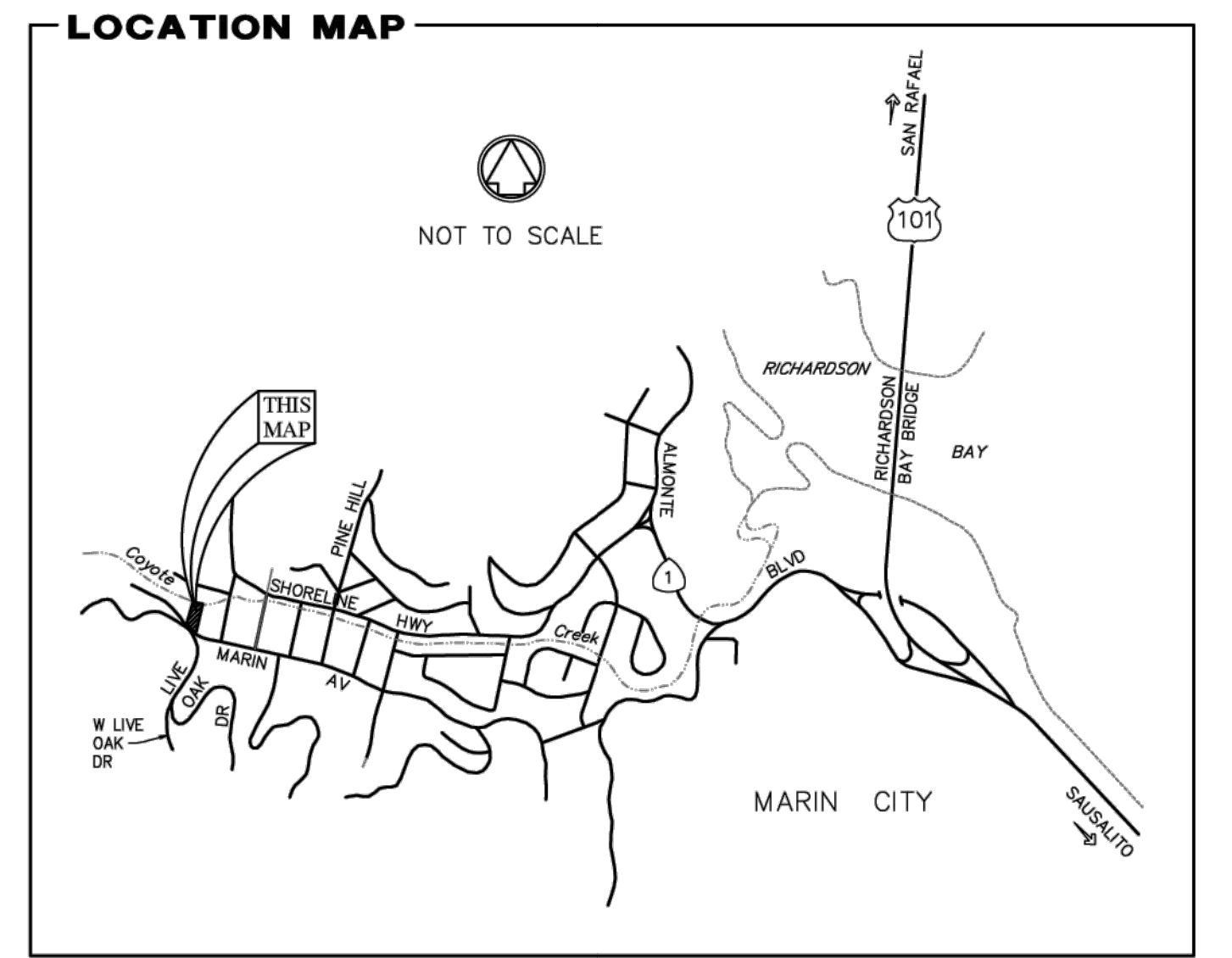


- ① 15.6' GARAGE DOOR SLAB EL=46.76'
- ② 2.9' DOOR THRESHOLD EL=48.73'
- ③ 2.9' DOOR THRESHOLD EL=48.55'
- ④ 2.9' DOOR (2ND FLOOR) THRESHOLD EL=57.09'
- ⑤ 2.9' DOOR (2ND FLOOR) THRESHOLD EL=57.06'
- ⑥ 4.9' DOOR (2ND FLOOR) THRESHOLD EL=57.06'
- ⑦ 2.9' DOOR THRESHOLD EL=46.71'

BENCHMARK
 BENCHMARK: NGS OPUS OBSERVATION AT
 CP5. ELEVATION = 33.76' (NAVD88).

ATTENTION
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MAPPING NOTES
 THE ELEVATIONS AND RELATIVE POSITIONS OF FEATURES SHOWN HEREON ARE IN CONFORMANCE WITH THE NATIONAL STANDARDS OF THE AMERICAN CONGRESS ON SURVEYING AND MAPPING.



LEGEND

| | |
|--|-------------------------------|
| | APPROXIMATE TREE DRIP LINE |
| | FENCE LINE |
| | OVERHEAD LINES |
| | TOP OF BANK |
| | SURVEY CONTROL POINT |
| | JOINT POLE |
| | GUY ANCHOR |
| | SSCO SANITARY SEWER CLEAN OUT |
| | IG INVERT GRADE |
| | WM WATER METER |
| | GM GAS METER |
| | EM ELECTRIC METER |
| | AC ASPHALTIC CONCRETE |
| | FL FLOW LINE |
| | CL CLUSTER |
| | RDWD REDWOOD TREE |
| | ORN ORNAMENTAL TREE |

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TOPOGRAPHIC MAP
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 450 MARIN AVENUE, MILL VALLEY
 COUNTY OF MARIN STATE OF CALIFORNIA

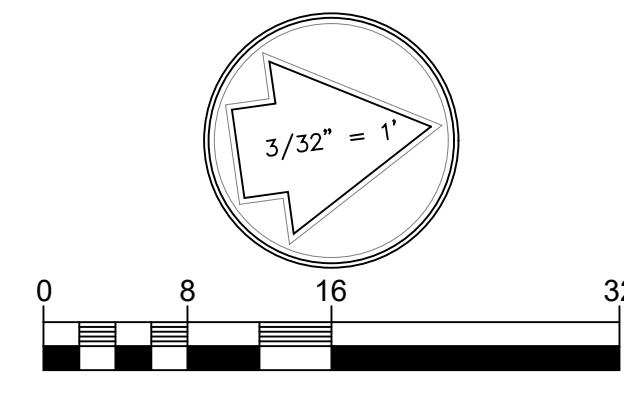
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| DATE: 1/31/2022 | 632 PETALUMA AVE, SEBASTOPOLE, CALIFORNIA 95472 / (707) 829-0400 | SHEET: 1 OF 1 |
| SCALE: 1" = 10' | | JOB No. MARIN-2022-04 |



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1 (P) SITE PLAN
A1.1 SCALE: 3/32" = 1'-0"

NOT A SURVEY. PLACEMENT OF PROPERTY LINE ASSUMED.
BASED ON PREVIOUS FRONT SETBACK CONFIRMATION.
AP#: 049-142-10
PARCEL AREA: 122,106.55 SQ. FT.

JUL 09 2008 10:48 MERIDIAN SURVEYING (415) 456-5451 P. 2



Tuesday, July 08, 2008

Marin County Community Development Agency
3501 Civic Center Drive
Room 308
San Rafael, CA 94903

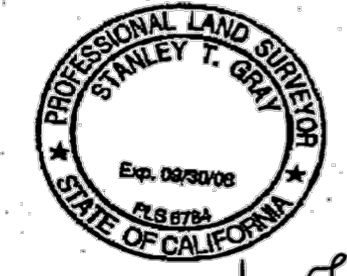
To whom it may concern,

On Tuesday, July 08, 2008, our field crew measured the following setbacks for the structure at 450 Marin Avenue and determined that the forms for new construction meets or exceeds the minimum setbacks that are approved on the Building Permit plans.

| | | |
|--|--|---|
| Setback to Front Property line: | <i>Field-verified Setback</i> 25 feet | <i>Setback on Approved Plans</i> 25 feet |
|--|--|---|

Sincerely,

[Signature]
Stanley T. Gray, PLS
President



Filed released 7/9/08

1812 Union Street
San Francisco 94123
TEL: (415) 440-4131
FAX: (415) 440-4132

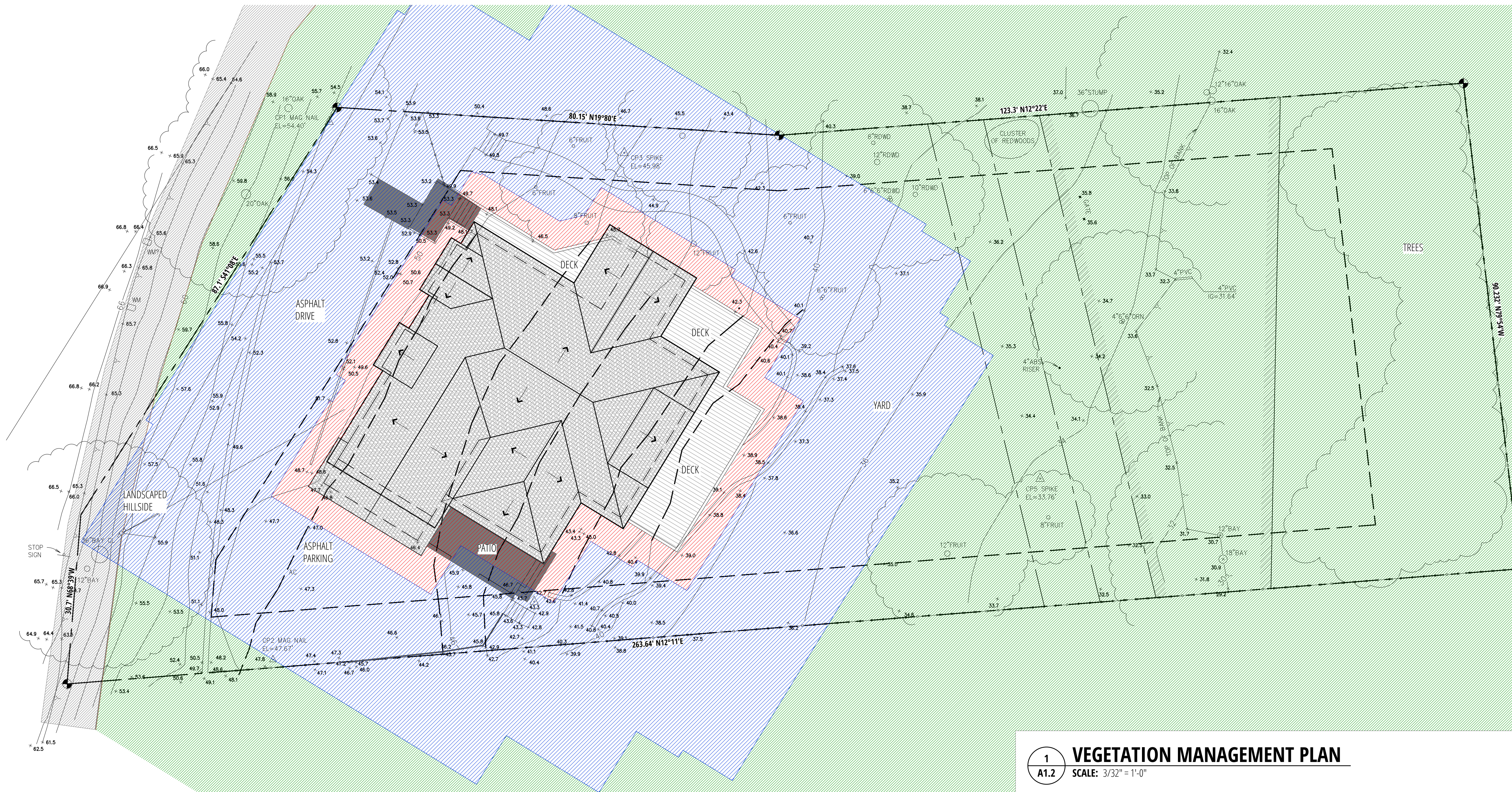
777 Grand Avenue, Suite 202
San Rafael, CA 94901
TEL: (415) 456-5450
FAX: (415) 456-5451

COPP RESIDENCE
AP# 049-142-10
Site Plan
450 Marin Avenue
Mill Valley
CA 94941, USA

Drawn By: UR Studio
Date: 10/21/2021

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A1.1



1 VEGETATION MANAGEMENT PLAN
A1.2 SCALE: 3/32" = 1'-0"

VEGETATION MGMT. LEGEND

- TREES
- TREES TO BE REMOVED
- SHRUBS
- HARDSCAPE

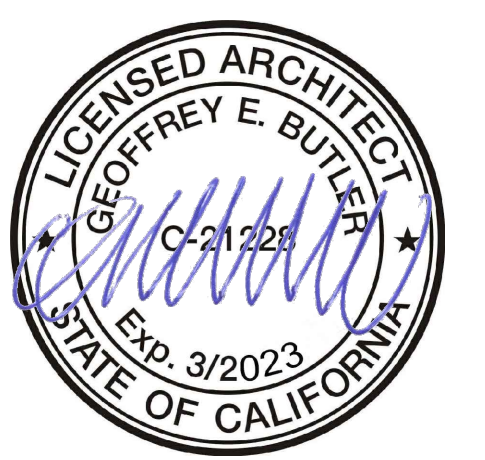
VMP PLANT LIST

(E) TREES TO REMAIN

(N) TREES

(E)+(N) TALL NATIVE SCREENING

(N) LOW SCREENING



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HAZARD ZONES

IMMEDIATE ZONE (ZONE 0) 0' - 5'
 THE IMMEDIATE ZONE EXTENDS 0-5' FROM YOUR HOUSE. ZONE 0 IS THE AREA CLOSEST TO YOUR HOUSE, INCLUDING THE STRUCTURE ITSELF, DECKS, OUTDOOR FURNITURE, AND THE OUTSIDE WALLS AND COVERINGS. THIS AREA IS MOST VULNERABLE, AND SHOULD BE MOST AGGRESSIVELY MAINTAINED FOR FIRE RESISTANCE.

- REMOVE ANY COMBUSTIBLE OUTDOOR FURNITURE.
- REPLACE JUTE OR FIBER DOOR MATS WITH FIRE RESISTANT MATERIALS.
- REMOVE OR RELOCATE ALL COMBUSTIBLE MATERIALS, INCLUDING GARBAGE AND RECYCLING CONTAINERS, LUMBER, TRASH, AND PATIO ACCESSORIES.
- CLEAN ALL FALLEN LEAVES AND NEEDLES REGULARLY. REPEAT OFTEN DURING FIRE SEASON.
- NO VEGETATION IS RECOMMENDED WITHIN 5' OF STRUCTURES.
- REMOVE TREE LIMBS THAT EXTEND INTO THIS ZONE. FIRE-PRONE TREE VARIETIES SHOULD BE REMOVED IF THEY EXTEND WITHIN 5' OF STRUCTURES.
- DO NOT STORE FIREWOOD, LUMBER, OR COMBUSTIBLES HERE, EVEN (ESPECIALLY) UNDER DECKS OR OVERHANGS. MOVE STORED COMBUSTIBLE INSIDE, OR AT LEAST 30' AWAY FROM STRUCTURES.
- USE ONLY INORGANIC, NON-COMBUSTIBLE MULCHES SUCH AS STONE OR GRAVEL.

INTERMEDIATE ZONE (ZONE 1) 5' - 30'
 THE INTERMEDIATE ZONE FROM 5' TO 30' OUT FROM BUILDINGS, STRUCTURES, DECKS, ETC. KEEP ZONE 1 "LEAN, CLEAN, AND GREEN" AND EMPLOY CAREFUL LANDSCAPING TO CREATE BREAKS THAT CAN HELP INFLUENCE AND DECREASE FIRE BEHAVIOR.

- REMOVE ALL DEAD PLANTS, GRASS, AND WEEDS (VEGETATION).
- REMOVE DEAD OR DRY LEAVES AND PINE NEEDLES FROM YOUR YARD, ROOF AND RAIN GUTTERS.
- TRIM TREES REGULARLY TO KEEP BRANCHES A MINIMUM OF 10 FEET FROM OTHER TREES.
- REMOVE BRANCHES THAT HANG OVER YOUR ROOF AND KEEP DEAD BRANCHES 10 FEET AWAY FROM YOUR CHIMNEY.
- REMOVE VEGETATION AND ITEMS THAT COULD CATCH FIRE FROM AROUND AND UNDER DECKS.
- REMOVE FIRE-PRONE PLANTS, AND CHOOSE ONLY FIRE-RESISTANT VARIETIES. IRRIGATE REGULARLY.
- REMOVE LIMBS TO A HEIGHT OF 10' ABOVE THE GROUND (OR 1/3 THE HEIGHT OF THE TREE) TO PROVIDE CLEARANCE AND TO ELIMINATE A "FIRE LADDER".
- USE ONLY INORGANIC, NON-COMBUSTIBLE MULCHES SUCH AS STONE OR GRAVEL. COMPOSTED MULCH AND LARGE BARK AND CHIPS (GREATER THAN 1/2" DIAMETER) MAY BE OK.

EXTENDED ZONE (ZONE 2) 30' - 100'
 THE EXTENDED ZONE FROM 30' TO 100' (OR MORE, IF REQUIRED DUE TO STEEP SLOPES, NEARBY VEGETATION CONDITIONS, AND/OR YOUR LOCAL FIRE DEPARTMENT). THE GOAL HERE IS NOT TO ELIMINATE FIRE BUT TO INTERRUPT FIRE'S PATH AND KEEP FLAMES SMALLER AND ON THE GROUND. THIS ZONE SHOULD INCLUDE AT A MINIMUM:

- CUT OR MOW ANNUAL GRASS DOWN TO A MAXIMUM HEIGHT OF 4 INCHES.
- CREATE HORIZONTAL SPACING BETWEEN SHRUBS, TREES AND VERTICAL SPACING BETWEEN GRASS, SHRUBS AND TREES.
- REMOVE FALLEN LEAVES, NEEDLES, TWIGS, BARK, CONES, AND SMALL BRANCHES. HOWEVER, THEY MAY BE PERMITTED TO A DEPTH OF 3 INCHES IF EROSION CONTROL IS AN ISSUE.

ACCESS ZONE (ZONE 4) 0' - 10'
 EXTENDS 10 FEET HORIZONTALLY FROM THE EDGE ON EITHER SIDE OF THE ROAD OR DRIVEWAY.

- WITHIN THIS ZONE, PLANTINGS SHALL BE FIRE RESISTANT AND SHALL NOT EXTEND WITHIN THE 14 FOOT VERTICAL CLEARANCE ABOVE THE SURFACE OF THE ROADWAY OR DRIVEWAY, AS REQUIRED FOR EMERGENCY ACCESS.
- ALL LANDSCAPE SHALL MEET THE REQUIREMENTS FOR SEPARATION AS STATED IN THE ZONE 2 ABOVE

VMP NARRATIVE

1. Existing Conditions
 There are currently a variety of medium to large shrubs such as Toyon and Coffee Berry, various fruit trees, mature coast redwood, a number of black acacia, coast live oaks and jacaranda. There is an abundance of low ground cover and ivy.
2. Proposed Scope
 The intent of the VMP and landscape plans is to maintain the mature trees with selective pruning and removal of all dead material per fire wise standards. New native screening will supplement the restored or removed screening. Fire prone species will be removed. Existing shrubs will be thinned or removed to provide a fire break from 0'-30' from the home. New FIREsafe Marin trees are proposed in various locations to further screen the home from neighbors.
3. Future Planting
 Any further plantings throughout the site will include fire-resistant, irrigated shrubs, perennials and ground covers as in the FIREsafe Marin planting lists located at www.firesafemarin.org/plants.
4. Long Term Maintenance Schedule and Safety Practices
 - a. All fire prone fuels and dead material will be removed within 100' of the home.
 - b. Remove branches beneath large trees for a 6'-minimum clearance.
 - c. Needles and leaves and other combustible debris and litter shall be removed from roofs and gutter at minimum twice yearly.
 - d. All weeds and grasses shall be cut regularly to a height of 4" or less.
 - e. Vegetation shall be trimmed to within 10' horizontally of roadways, and trees shall be trimmed not to overhang roadways and provide 14' of clearance vertically.
 - f. All dead and dying vegetation shall be removed seasonally to reduce vegetation volume and ladder fuels.
 - g. Coordinate with adjacent property owners to maintain tree canopies, vegetation, and ladder fuels on an annual basis.
 - h. No native grasses shall be planted within home ignition zones 1 and 2.
 - i. All planted areas inside ignition zones 1 and 2 shall be irrigated.
 - j. All plantings shall be selected in coordination with FIREsafe Marin planting list located at www.firesafemarin.org/plants. Other fire-resistant plants can be utilized with prior approval of the Fire Code Official.
 - k. Regardless of plant selection, shrubs shall be spaced so that no continuity exists between ground fuels and tree crowns, such that a ground fire will not extend into the tree canopy.

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 AP# 049-142-10

Vegetation Management Plan

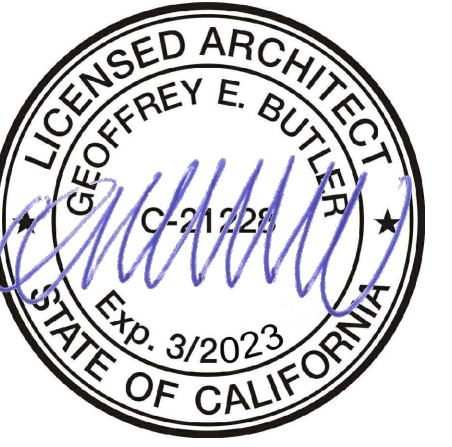
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 CA 94941, USA

Drawn By: UR Studio

Date: 10/21/2021

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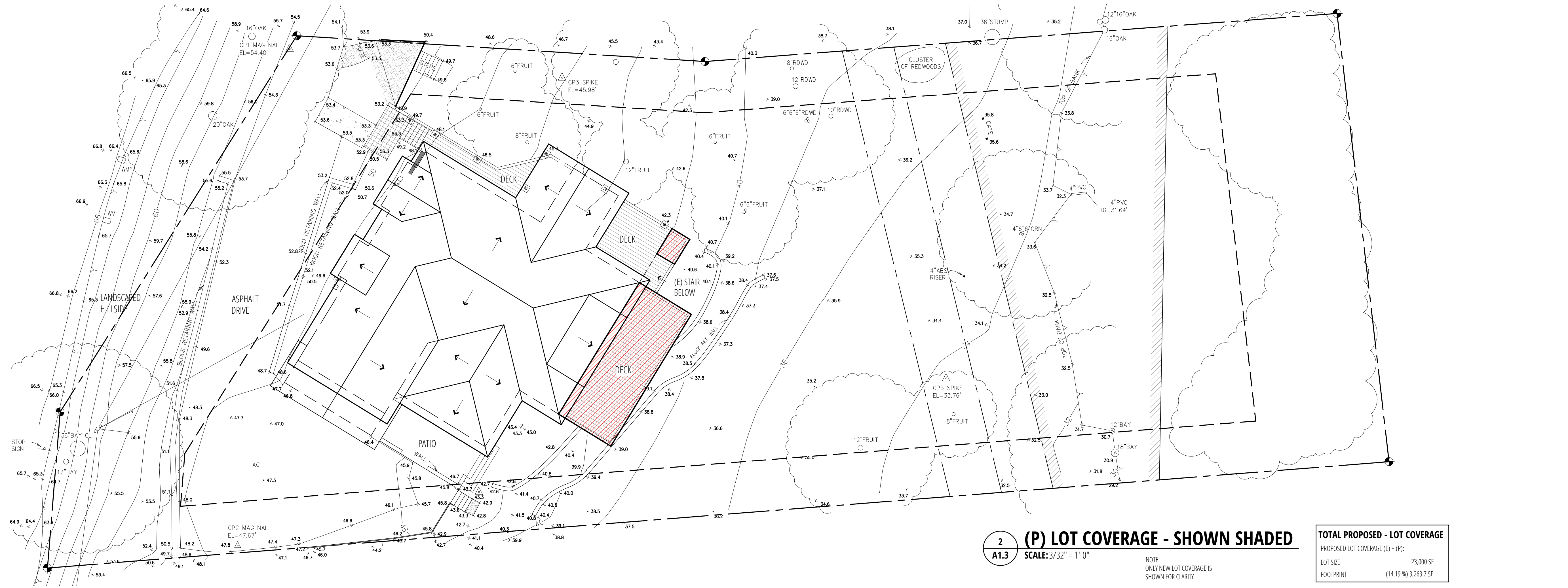
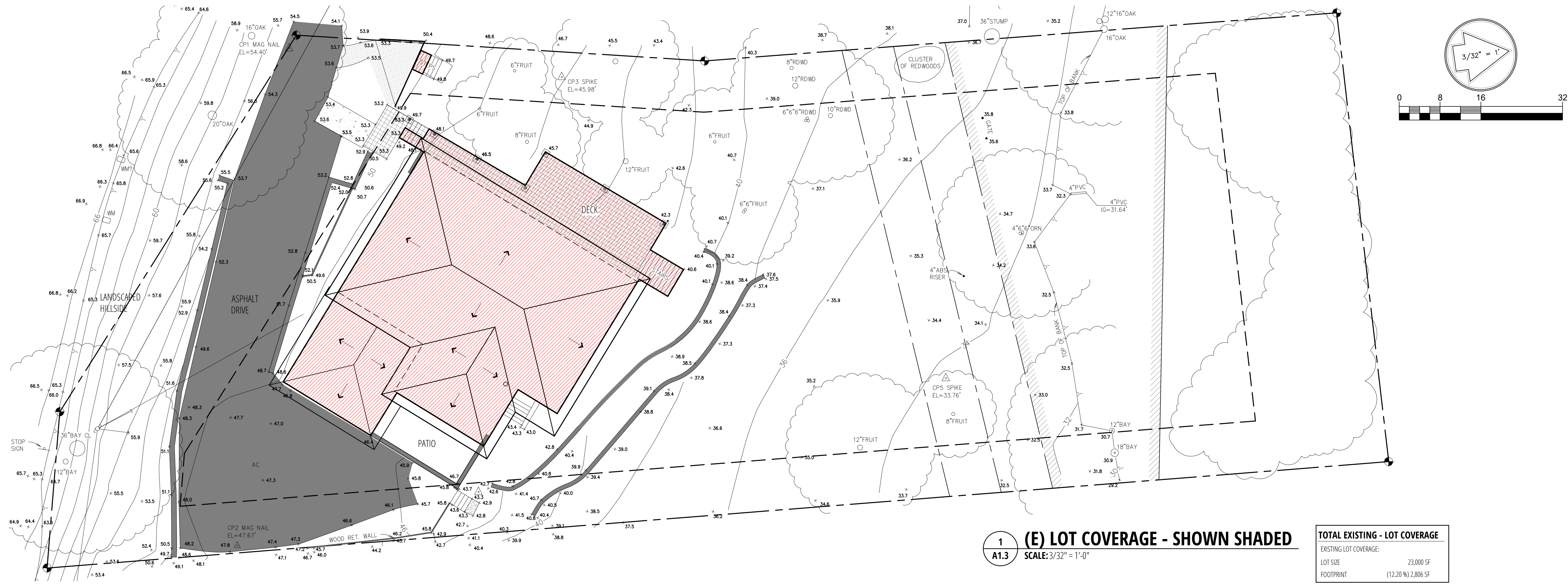


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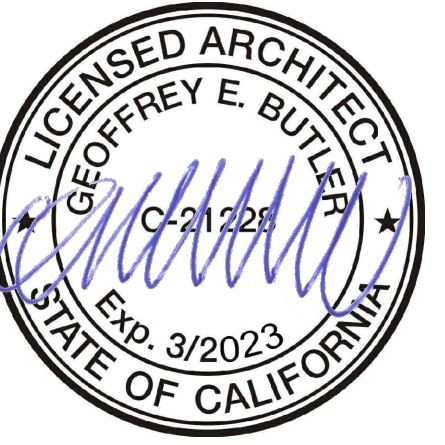
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(E) & (P) Lot Coverage

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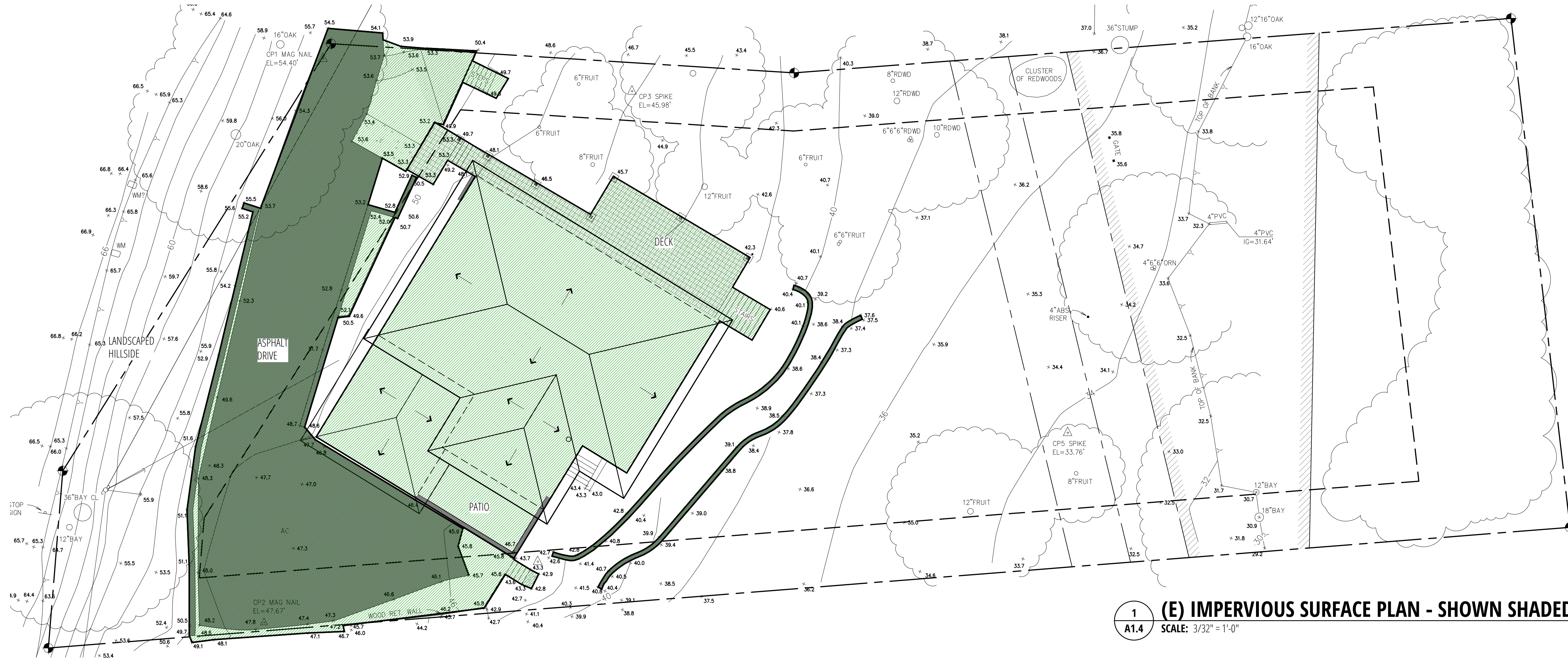


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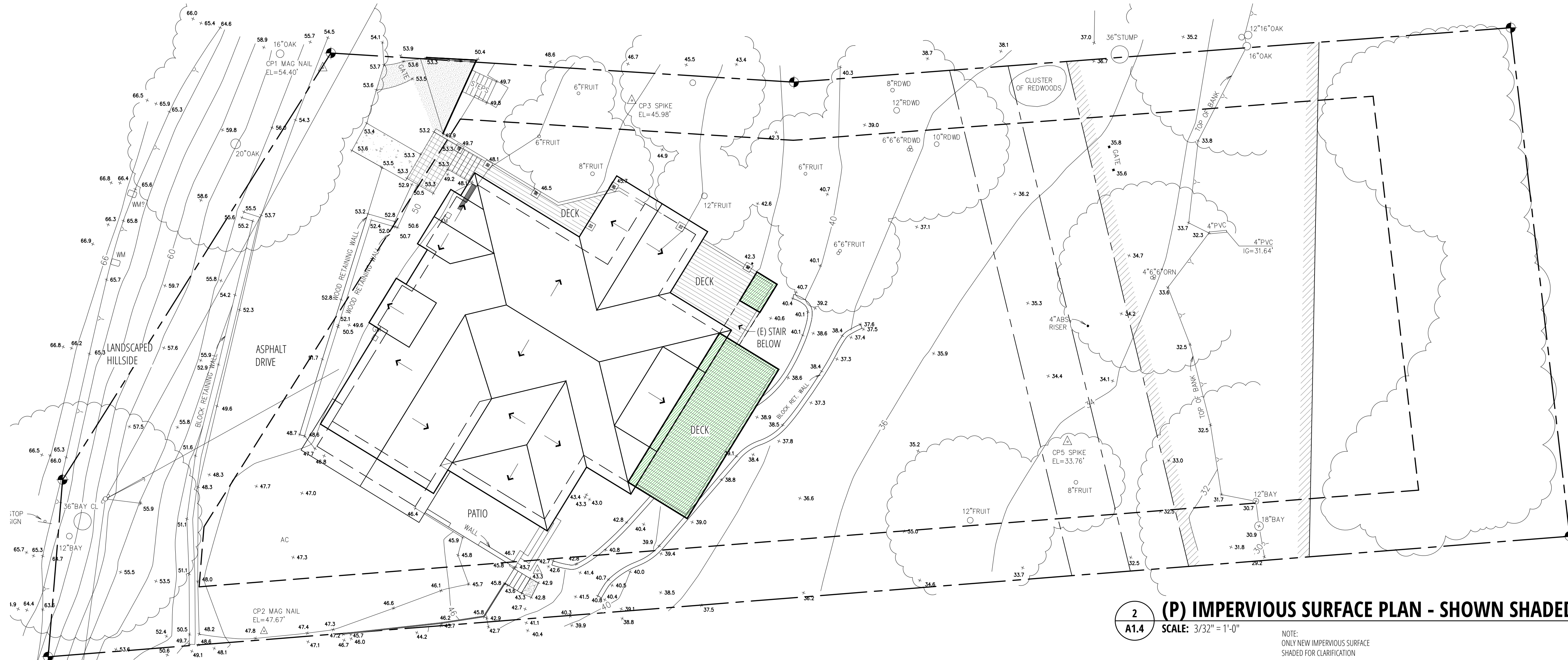
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1 (E) IMPERVIOUS SURFACE PLAN - SHOWN SHADED
A1.4 SCALE: 3/32" = 1'-0"

| TOTAL EXISTING - IMPERVIOUS SURFACE | |
|-------------------------------------|----------------------|
| EXISTING IMPERVIOUS SURFACE: | |
| LOT SIZE | 23,000 SF |
| IMPERVIOUS SURFACE | (38.76 %) 8,914.8 SF |



2 (P) IMPERVIOUS SURFACE PLAN - SHOWN SHADED
A1.4 SCALE: 3/32" = 1'-0"

| TOTAL PROPOSED - IMPERVIOUS SURFACE | |
|--|----------------------|
| PROPOSED IMPERVIOUS SURFACE (E) + (P): | |
| LOT SIZE | 23,000 SF |
| IMPERVIOUS SURFACE | (41.38 %) 9,517.4 SF |

NOTE:
ONLY NEW IMPERVIOUS SURFACE
SHADED FOR CLARIFICATION

COPP RESIDENCE
AP# 049-142-10
(E) & (P) Impervious Surface

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Date: 10/21/2021

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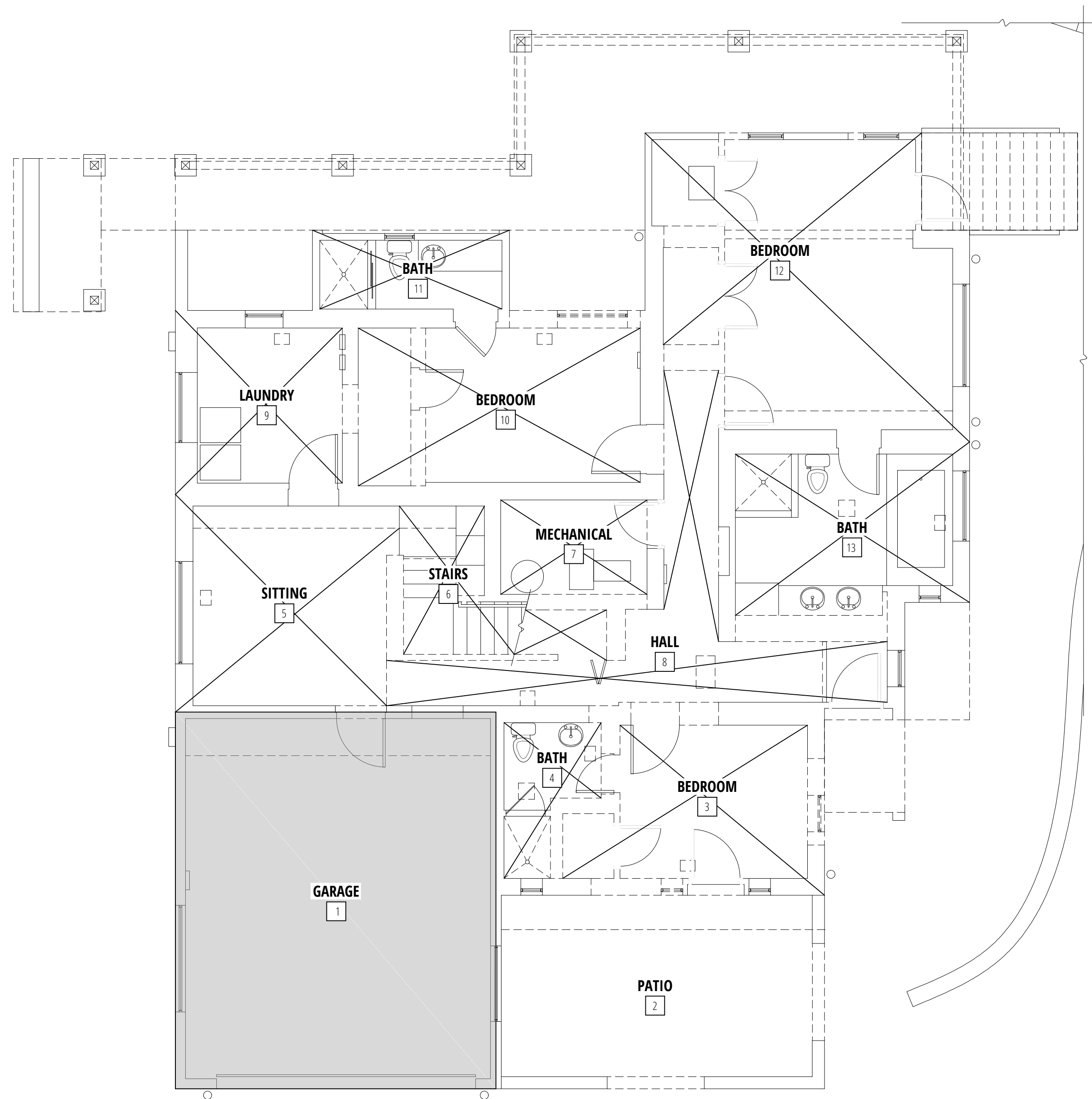
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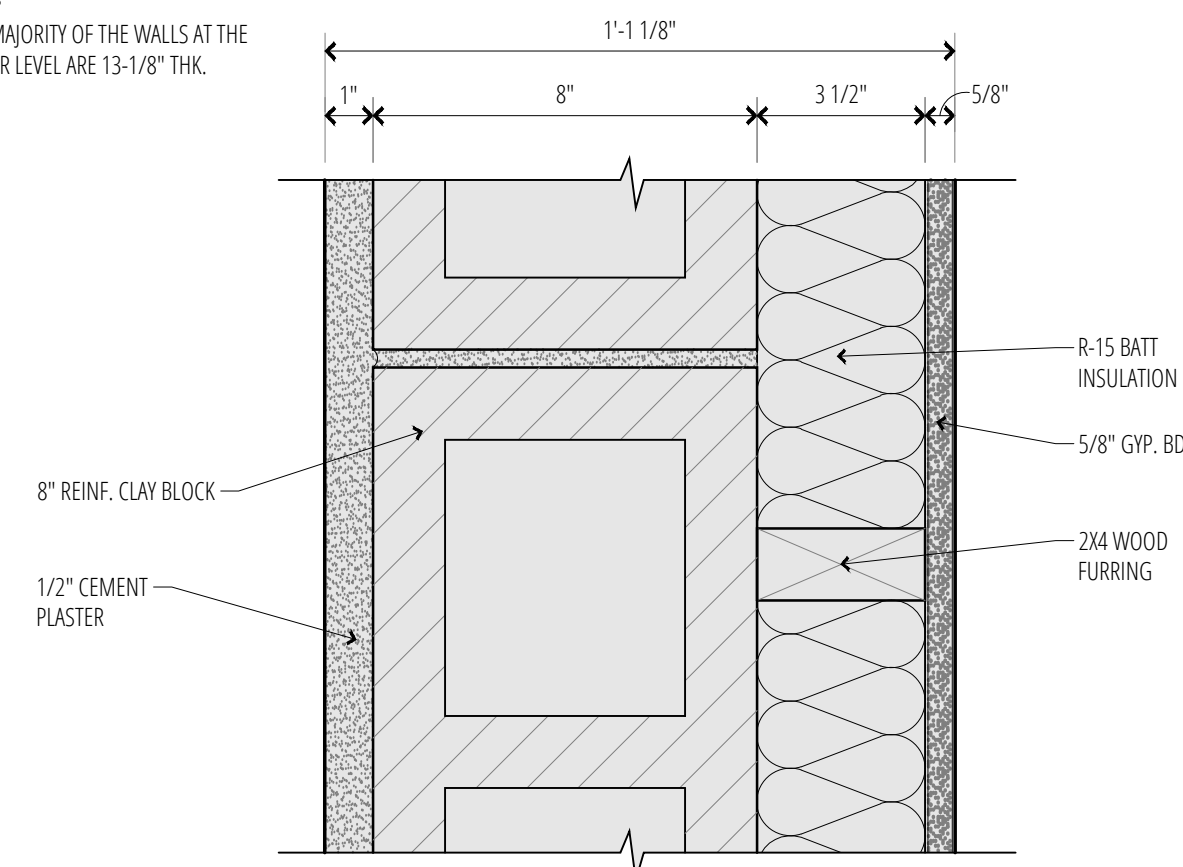


1 EXISTING FAR LOWER FLOOR PLAN
SCALE: 3/16" = 1'-0"

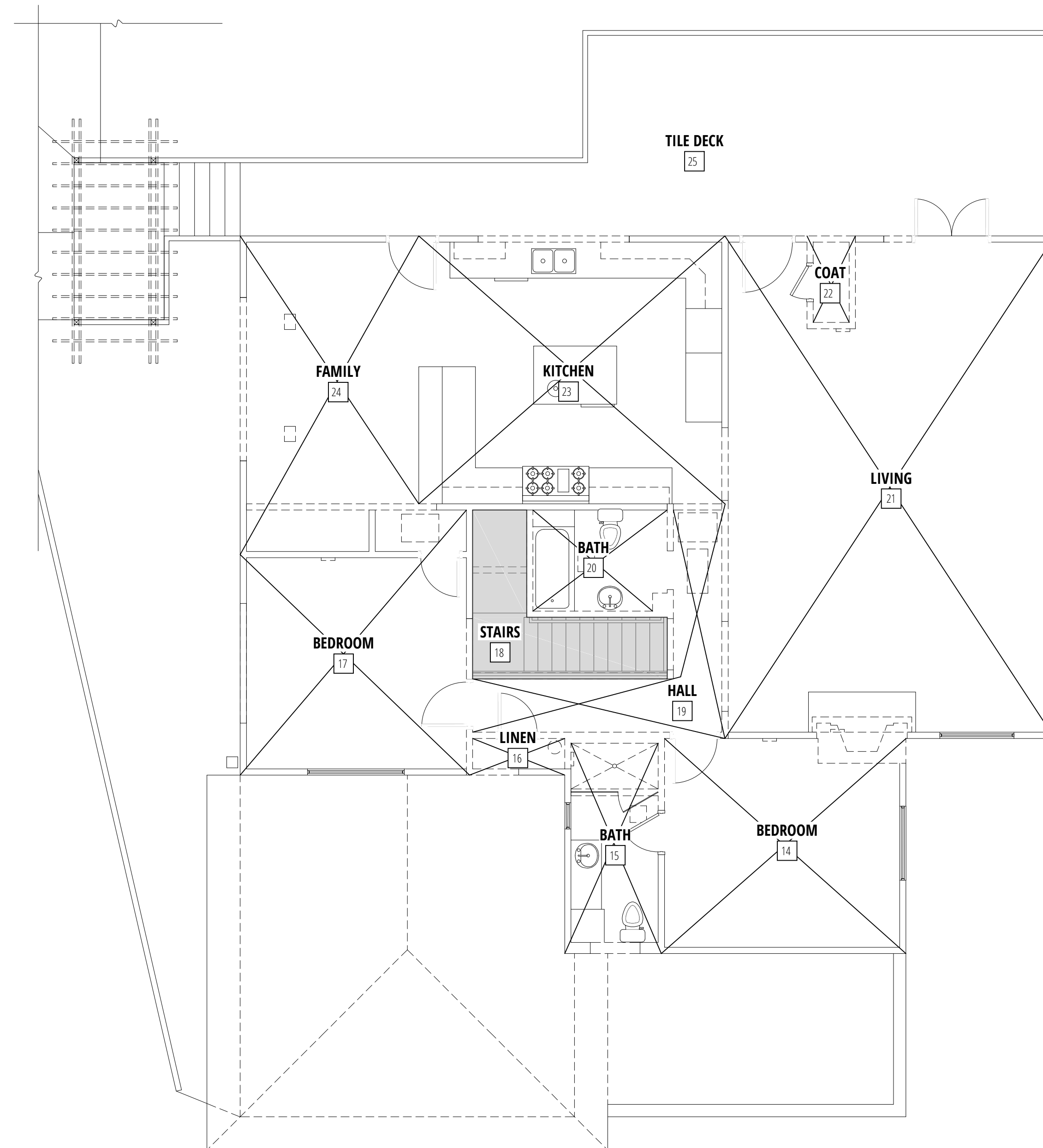
| EXTG. BLDG. AREA LOWER FLOOR | |
|------------------------------|-------------|
| AREA | FLOOR AREA |
| 1 GARAGE | 460.69 SF |
| 3 BEDROOM | 150.42 SF |
| 4 BATH | 42.25 SF |
| 5 SITTING | 178.18 SF |
| 6 STAIRS | 53.90 SF |
| 7 MECHANICAL | 186.87 SF |
| 8 HALL | 52.73 SF |
| 9 LAUNDRY | 117.27 SF |
| 10 BEDROOM | 166.89 SF |
| 11 BATH | 60.37 SF |
| 12 BEDROOM | 335.17 SF |
| 13 BATH | 151.62 SF |
| TOTAL BLDG. AREA | 1,956.36 SF |

| LEGEND | |
|--------|------------------------------|
| | FLOOR AREA COUNTED AS F.A.R. |
| | NOT COUNTED AS F.A.R. |

NOTE:
THE MAJORITY OF THE WALLS AT THE LOWER LEVEL ARE 13-1/8" THK.



3 (E) LOWER LEVEL EXTERIOR WALLS
SCALE: 3/8" = 1'-0"



2 EXISTING FAR UPPER FLOOR PLAN
SCALE: 3/16" = 1'-0"

| EXTG. BLDG. AREA UPPER FLOOR | |
|------------------------------|-------------|
| AREA | FLOOR AREA |
| 14 BEDROOM | 190.87 SF |
| 15 BATH | 73.59 SF |
| 16 LINEN | 12.65 SF |
| 17 BEDROOM | 195.64 SF |
| 18 HALL | 81.40 SF |
| 20 BATH | 46.26 SF |
| 21 LIVING | 584.44 SF |
| 22 COAT | 16.31 SF |
| 23 KITCHEN | 297.50 SF |
| 24 FAMILY | 197.14 SF |
| TOTAL BLDG. AREA | 1,695.96 SF |

| LEGEND | |
|--------|------------------------------|
| | FLOOR AREA COUNTED AS F.A.R. |
| | NOT COUNTED AS F.A.R. |

| TOTAL EXISTING - BLDG. AREA | |
|-------------------------------|--------------|
| LOWER FLOOR | 1,956.36 SF |
| UPPER FLOOR | 1,695.96 SF |
| TOTAL | 3,652.32 SF |
| GARAGE CREDIT | <460.69> SF |
| 18 STAIRS | <64.43> SF |
| LOWER LEVEL THICK WALL CREDIT | <114.75> SF |
| TOTAL FLOOR AREA | 3,012.45 SF |
| LOT SIZE | 23,000.00 SF |
| F.A.R. | .14 |



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AP# 049-142-10
Existing FAR Calculations
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Date: 10/21/2021

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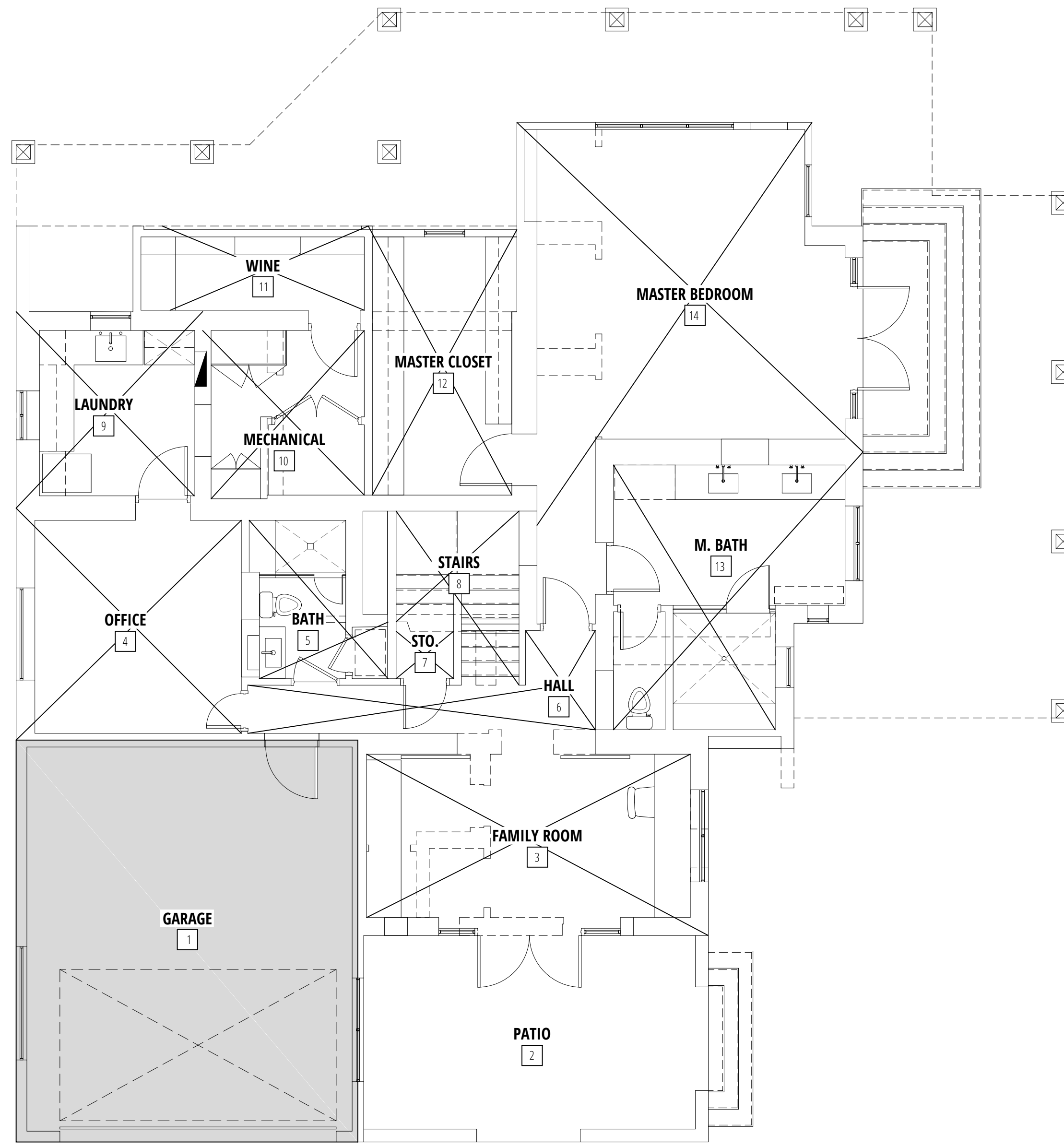
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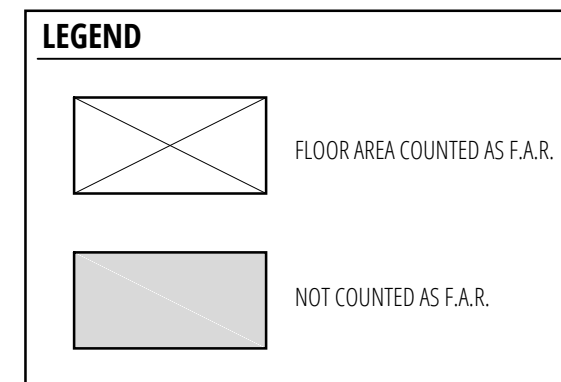
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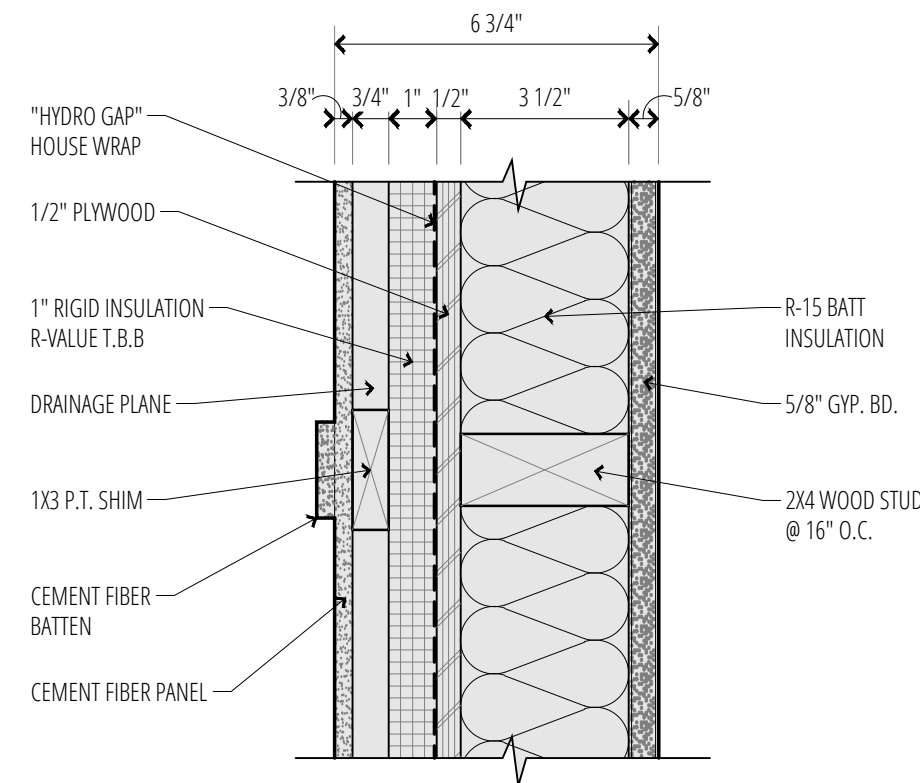


1 PROPOSED F.A.R. LOWER PLAN
A1.6 SCALE: 3/16" = 1'-0"

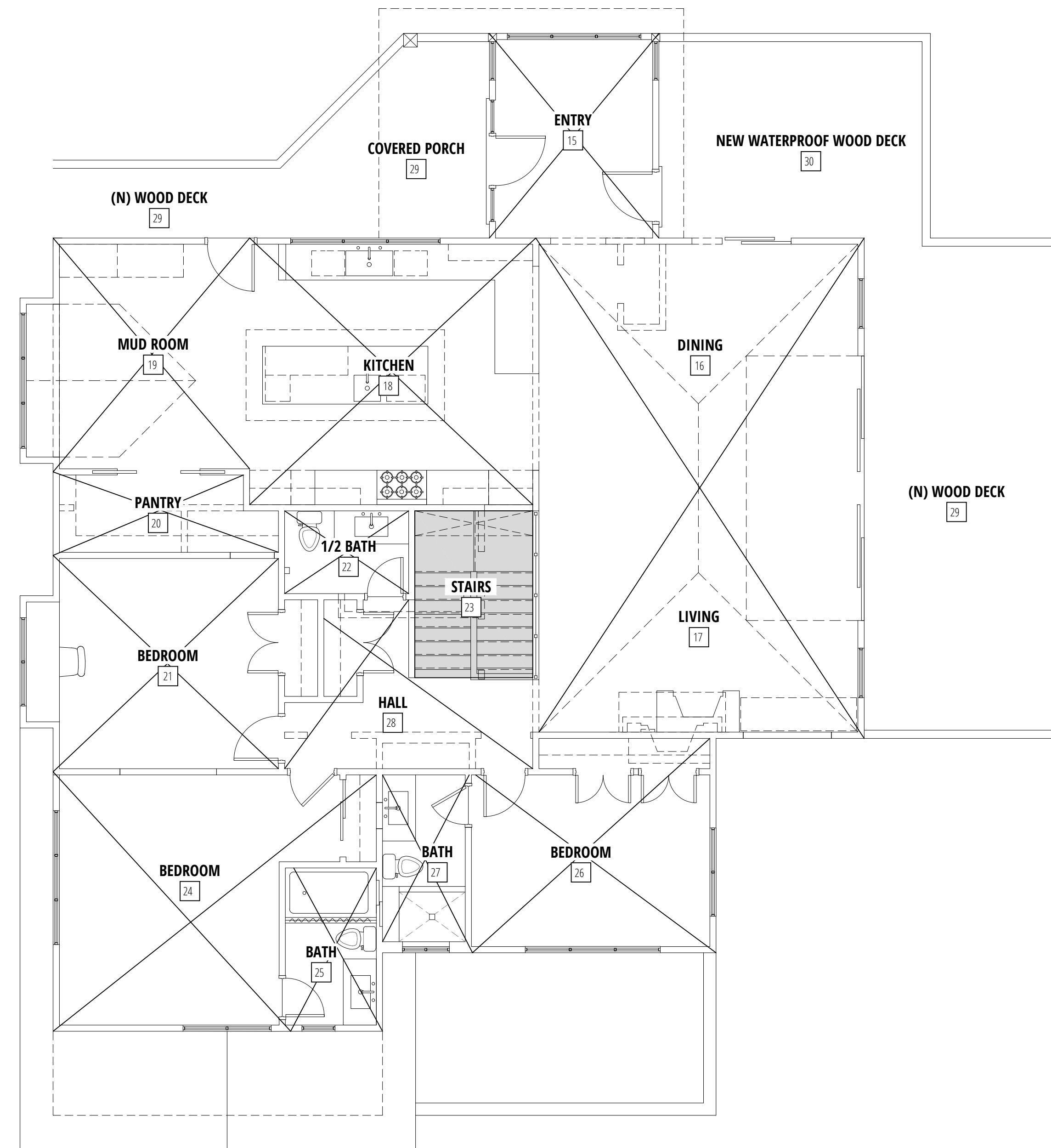
| AREA | FLOOR AREA |
|-------------------------|--------------------|
| 1 GARAGE | 460.59 SF |
| 3 FAMILY ROOM | 213.08 SF |
| 4 OFFICE | 175.21 SF |
| 5 BATH | 55.64 SF |
| 6 HALL | 67.61 SF |
| 7 STORAGE | 9.15 SF |
| 8 STAIRS | 59.99 SF |
| 9 LAUNDRY | 122.87 SF |
| 10 MECHANICAL | 96.31 SF |
| 11 WINE | 58.17 SF |
| 12 MASTER CLOSET | 130.92 SF |
| 13 M. BATH | 207.79 SF |
| 14 MASTER BEDROOM | 382.76 SF |
| TOTAL BLDG. AREA | 2,040.00 SF |



NOTE:
THE MAJORITY OF THE WALLS AT THE LOWER LEVEL ARE 13-1/8" THK.

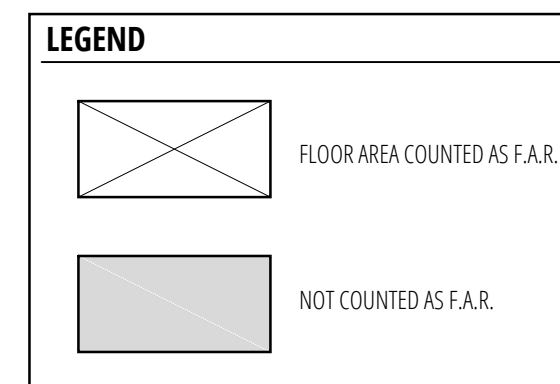


3 RETROFIT (E) EXTERIOR WALLS
A1.6 SCALE: 3" = 1'-0"



2 PROPOSED F.A.R. UPPER PLAN
A1.6 SCALE: 3/16" = 1'-0"

| AREA | FLOOR AREA |
|-------------------------|--------------------|
| 15 ENTRY | 126.78 SF |
| 16 DINING | 297.49 SF |
| 17 LIVING | 297.49 SF |
| 18 KITCHEN | 276.09 SF |
| 19 MUD ROOM | 188.01 SF |
| 20 PANTRY | 64.60 SF |
| 21 BEDROOM | 194.32 SF |
| 22 1/2 BATH | 37.50 SF |
| 23 STAIRS | 71.82 SF |
| 24 BEDROOM | 255.35 SF |
| 25 BATH | 53.08 SF |
| 26 BEDROOM | 181.82 SF |
| 27 BATH | 58.42 SF |
| 28 HALL | 103.16 SF |
| TOTAL FLOOR AREA | 2,205.93 SF |



| TOTAL PROPOSED - BLDG. AREA | |
|---|--------------------|
| LOWER FLOOR | 2,040.00 SF |
| UPPER FLOOR | 2,205.93 SF |
| TOTAL | 4,245.93 SF |
| GARAGE CREDIT <460.60> SF | |
| STAIR <71.82> SF | |
| LOWER LEVEL THICK WALL CREDIT <114.75> SF | |
| TOTAL FLOOR AREA | 3,598.77 SF |
| LOT SIZE | 23,000.00 SF |
| F.A.R. | .16 |



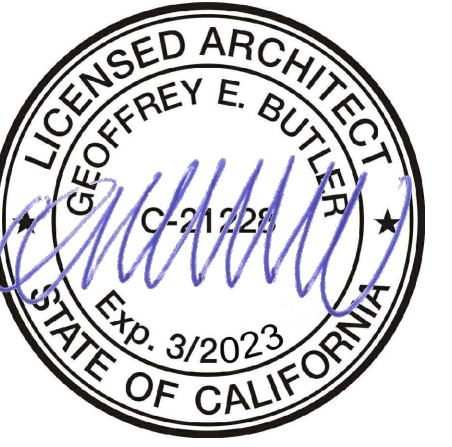
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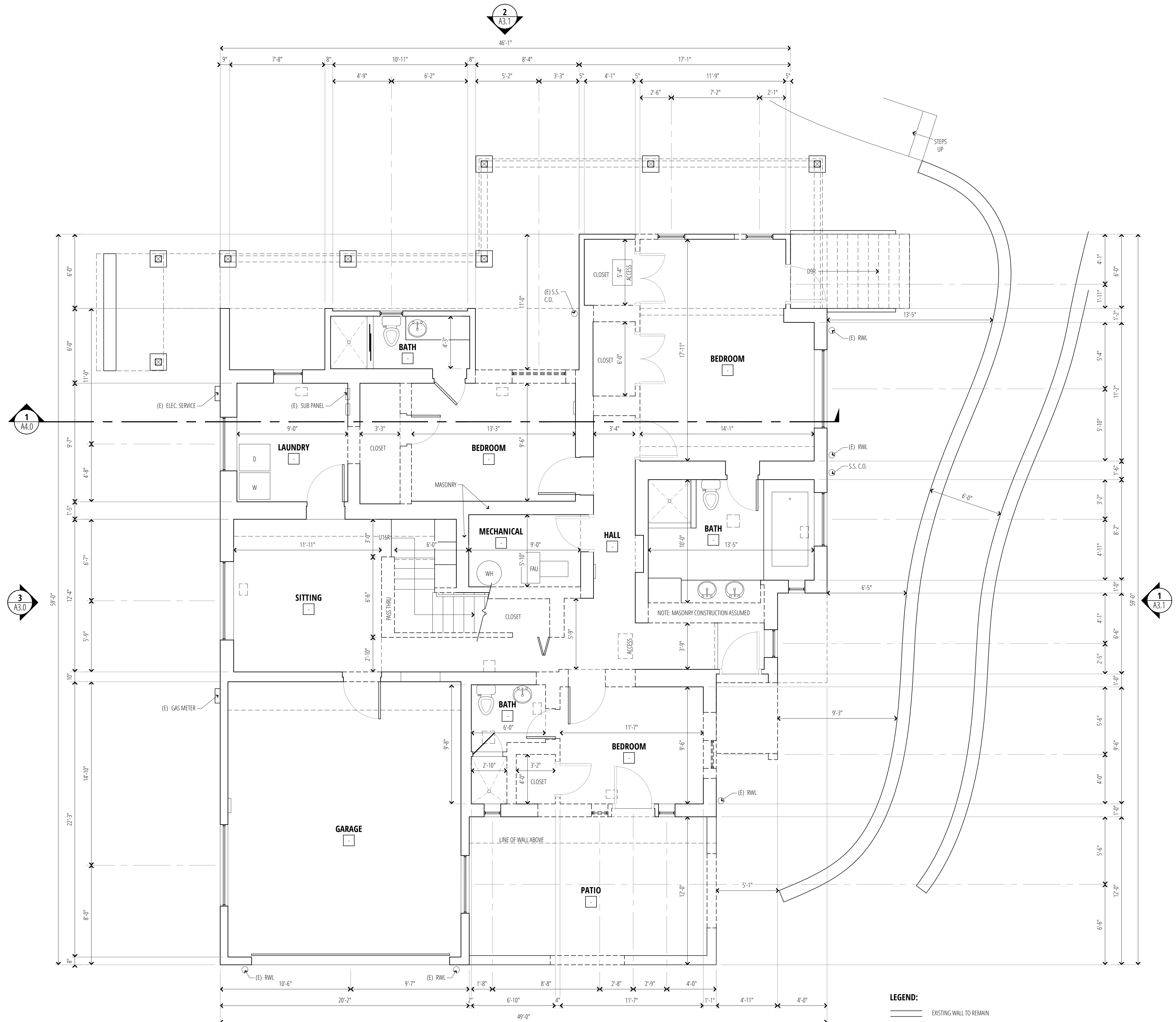
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EXISTING LOWER FLOOR / DEMO PLAN
SCALE: 1/4" = 1'-0"

LEGEND:
 ——— EXISTING WALL TO REMAIN
 - - - - - WALL TO BE DEMOLISHED



COPP RESIDENCE
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Existing Lower Floor / Demo Plan

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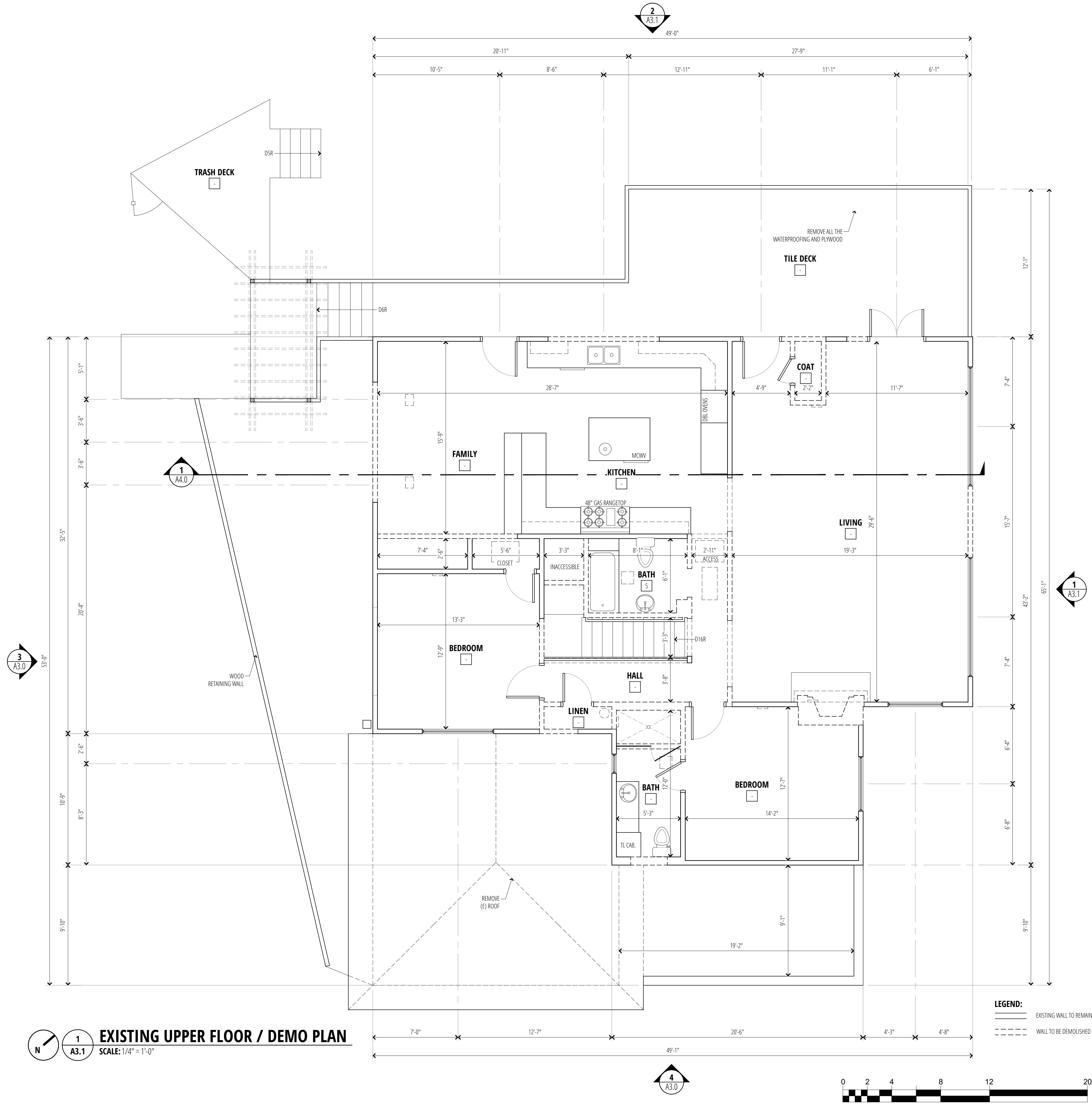
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1
A3.1 **EXISTING UPPER FLOOR / DEMO PLAN**
SCALE: 1/4" = 1'-0"

LEGEND:
— EXISTING WALL TO REMAIN
- - - WALL TO BE DEMOLISHED

COPP RESIDENCE
AP# 049-142-10
Existing Upper Floor / Demo Plan
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Mill Valley
CA 94941, USA

Drawn By: UR Studio
Date: 10/21/2021

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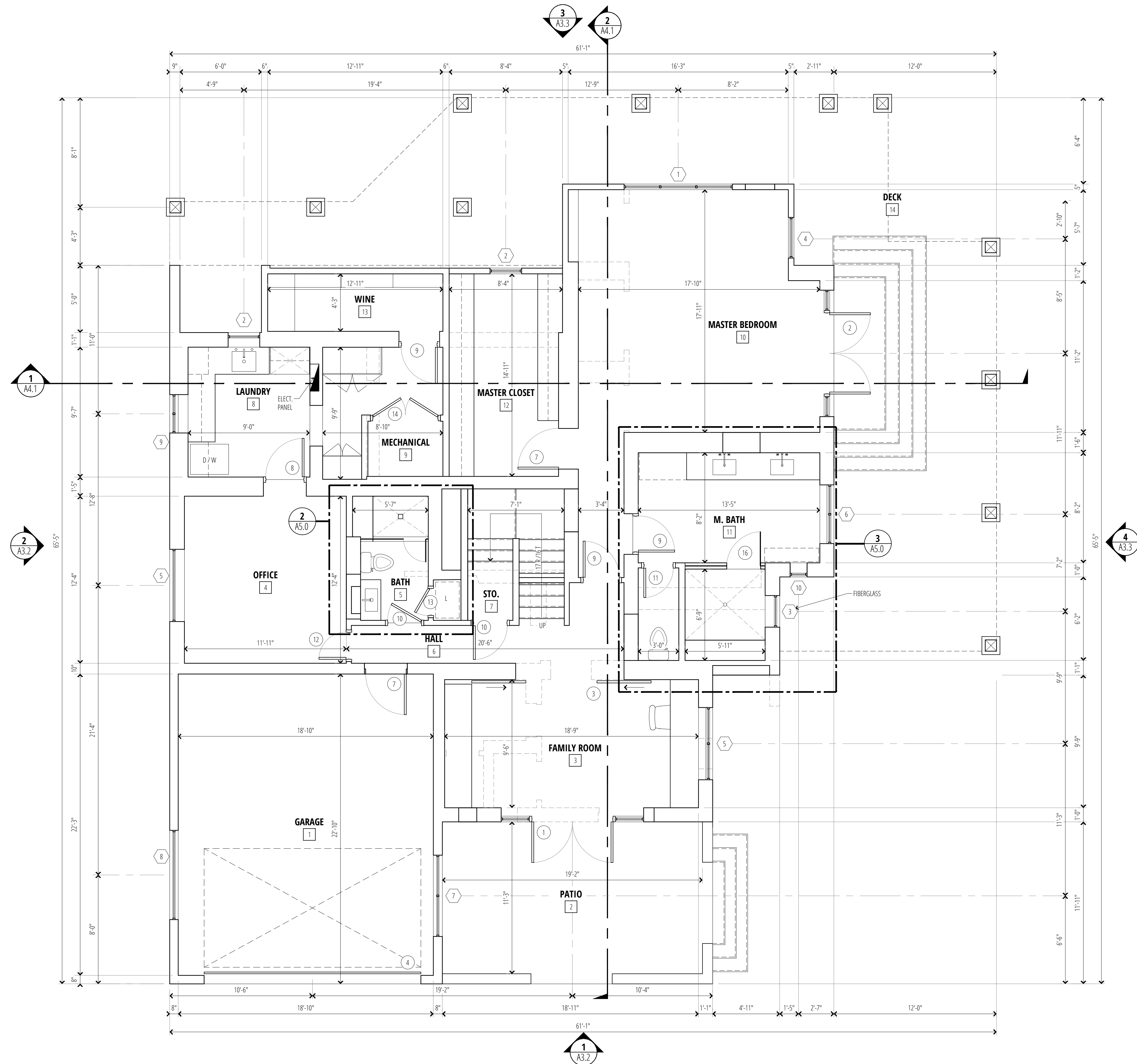
A2.1



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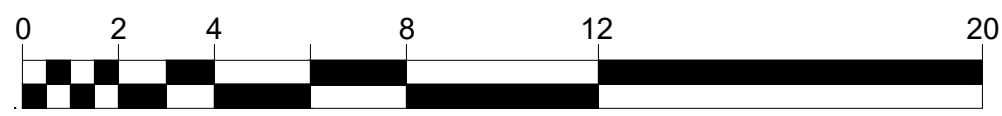
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PROPOSED LOWER FLOOR PLAN
SCALE: 1/4" = 1'-0"

LEGEND:
 — NEW WALL
 - - - EXISTING WALL TO REMAIN

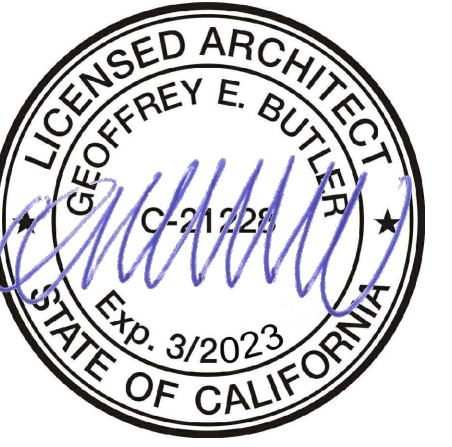


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Proposed Lower Floor Plan

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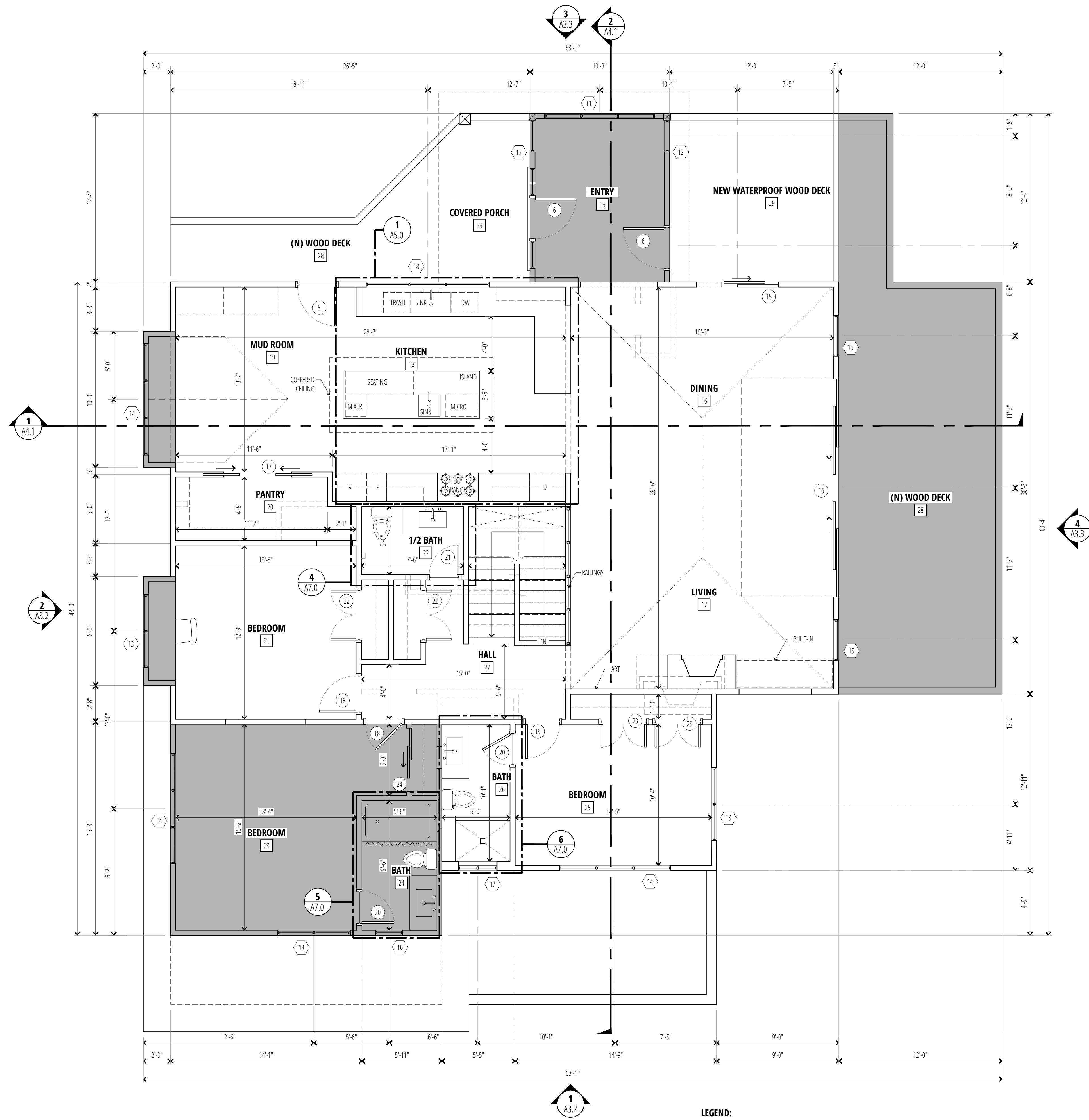
A2.2



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1
A2.3
PROPOSED UPPER FLOOR
SCALE: 1/4" = 1'-0"

LEGEND:
 NEW WALL
 EXISTING WALL TO REMAIN



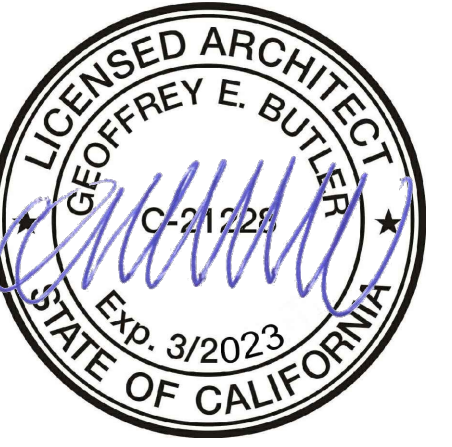
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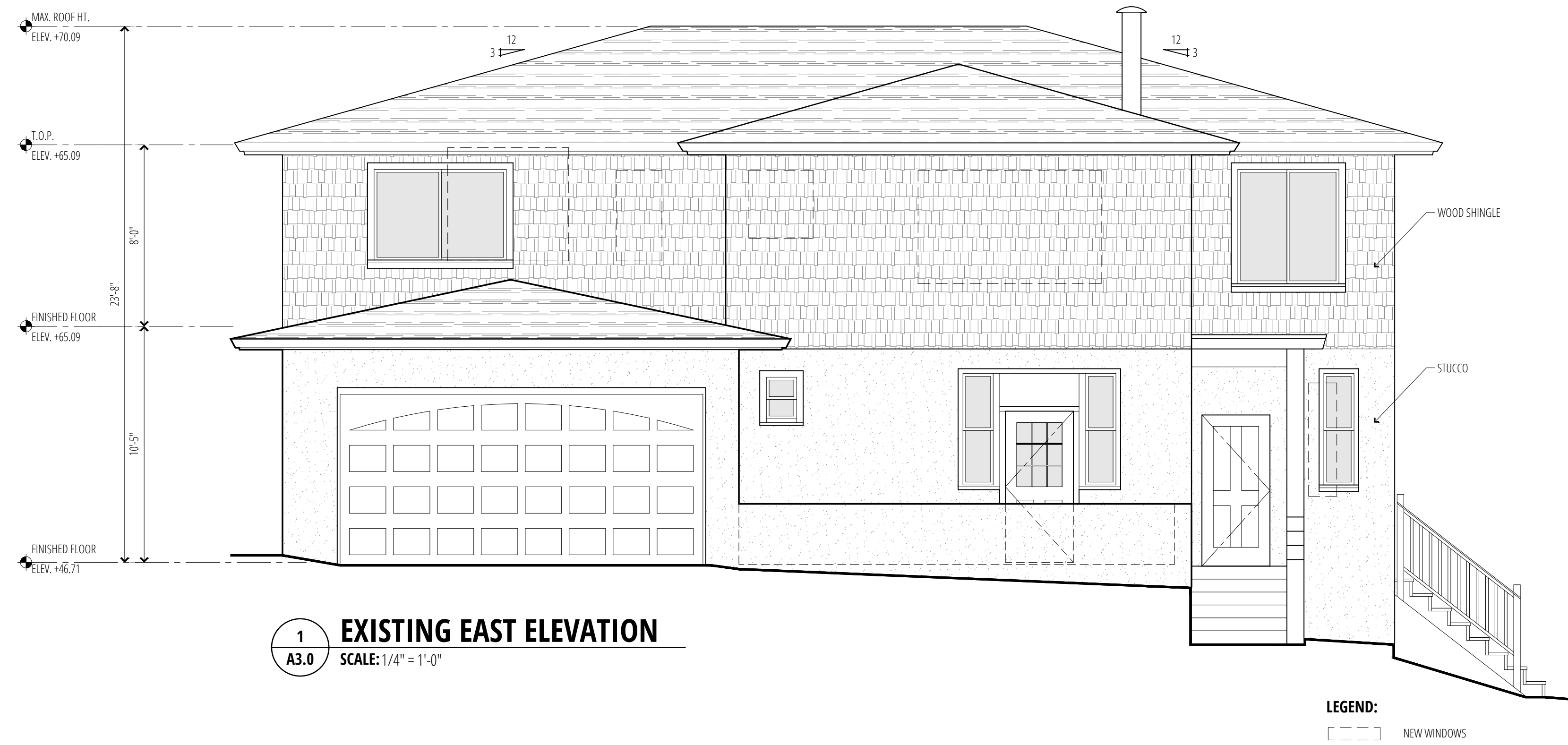
A2.3



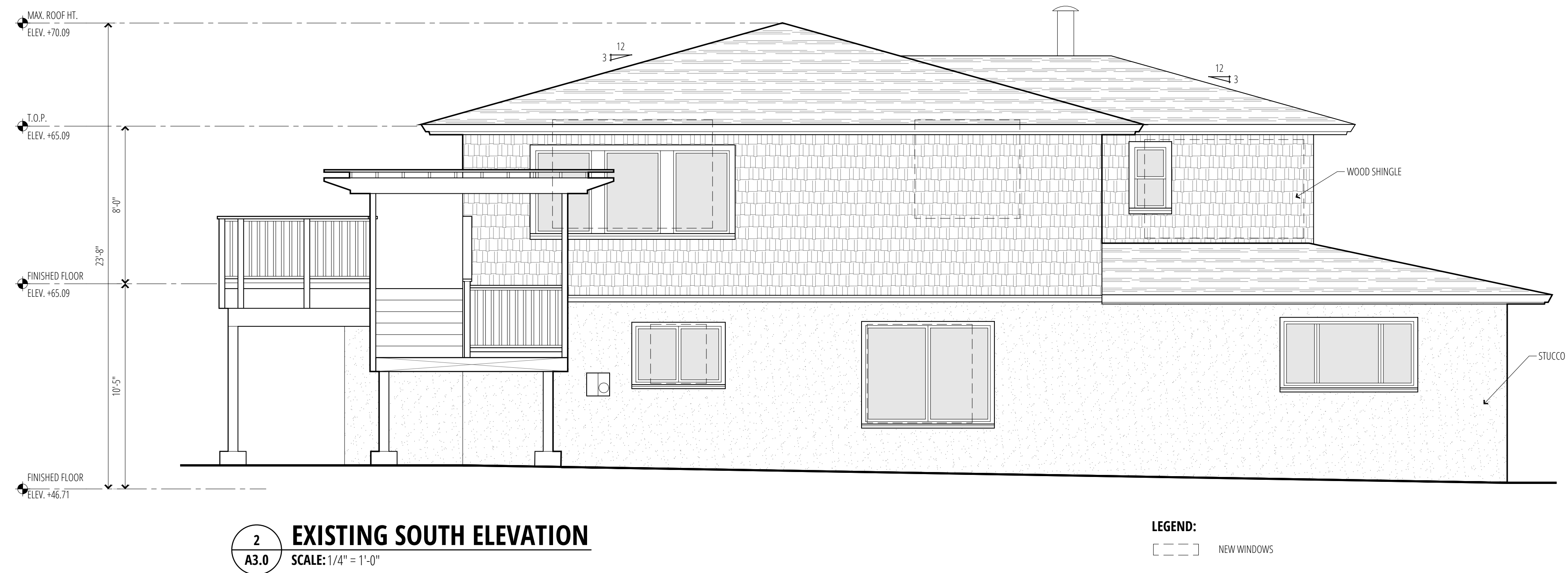
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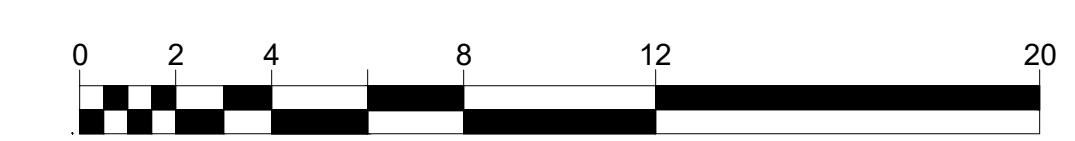
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1
A3.0 **EXISTING EAST ELEVATION**
SCALE: 1/4" = 1'-0"



2
A3.0 **EXISTING SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



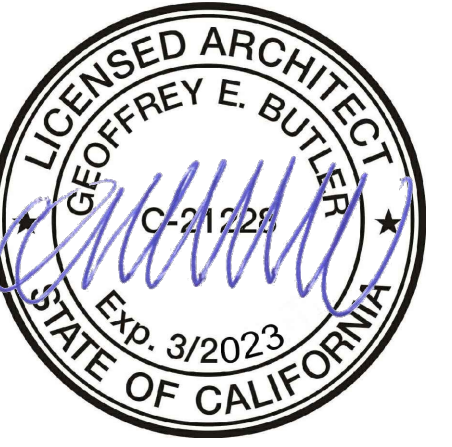
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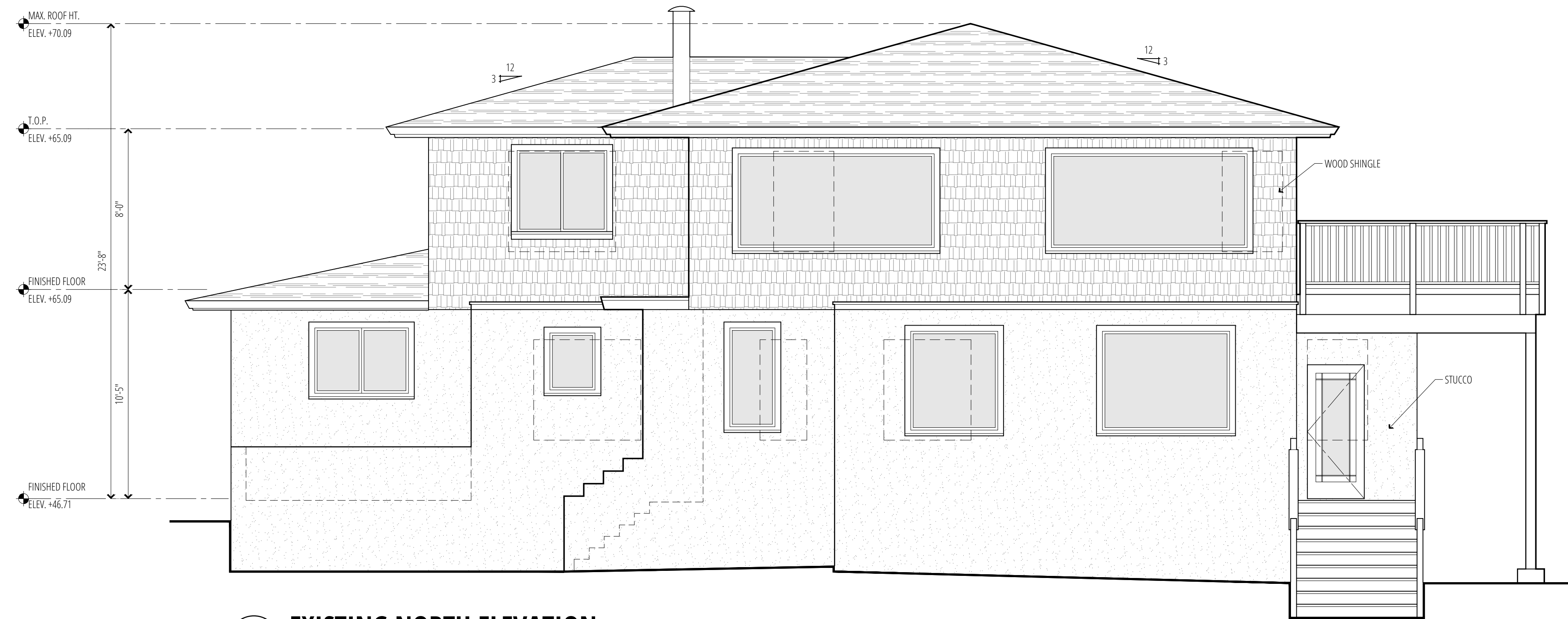
A3.0



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1 EXISTING NORTH ELEVATION
SCALE: 1/4" = 1'-0"

LEGEND:
[] NEW WINDOWS



2 EXISTING WEST ELEVATION
SCALE: 1/4" = 1'-0"

LEGEND:
[] NEW WINDOWS



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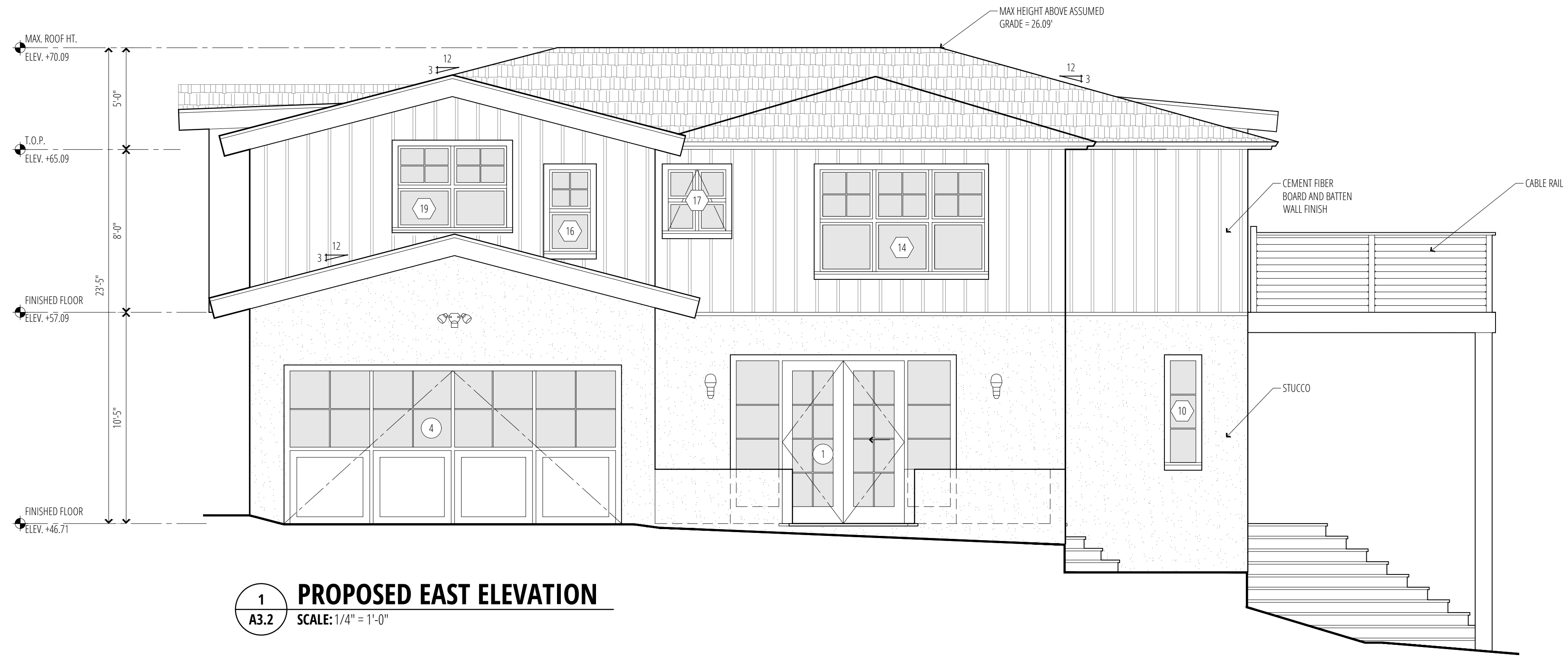
A3.1



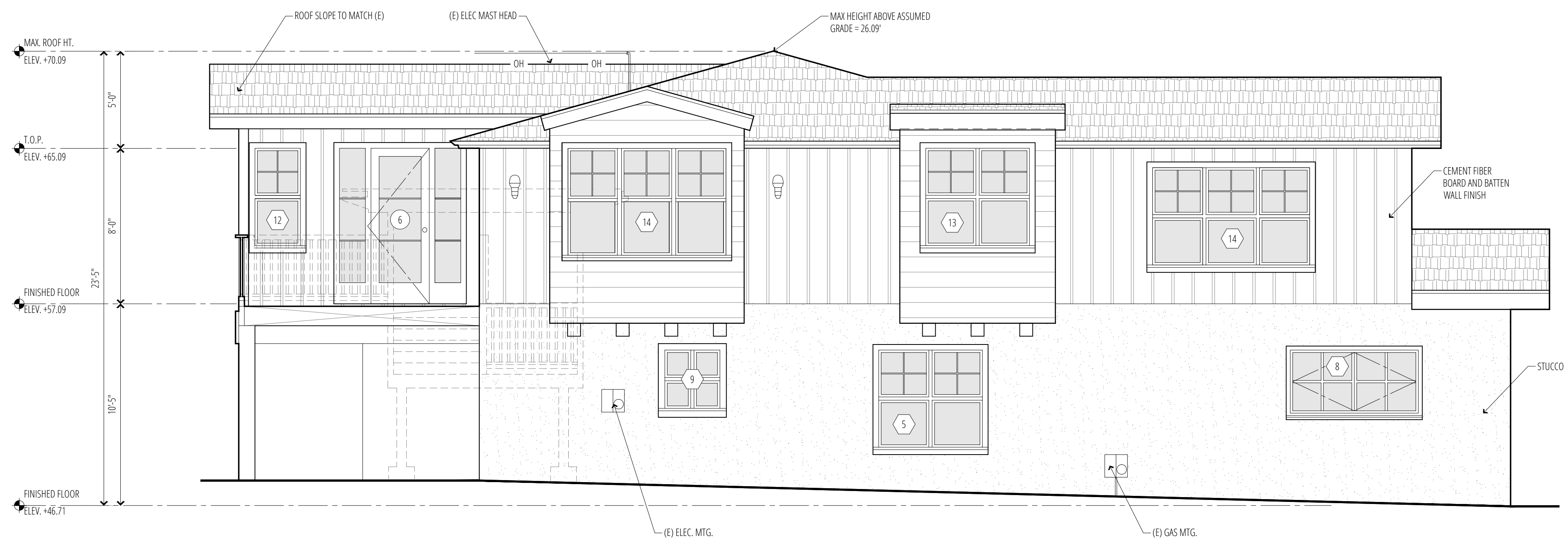
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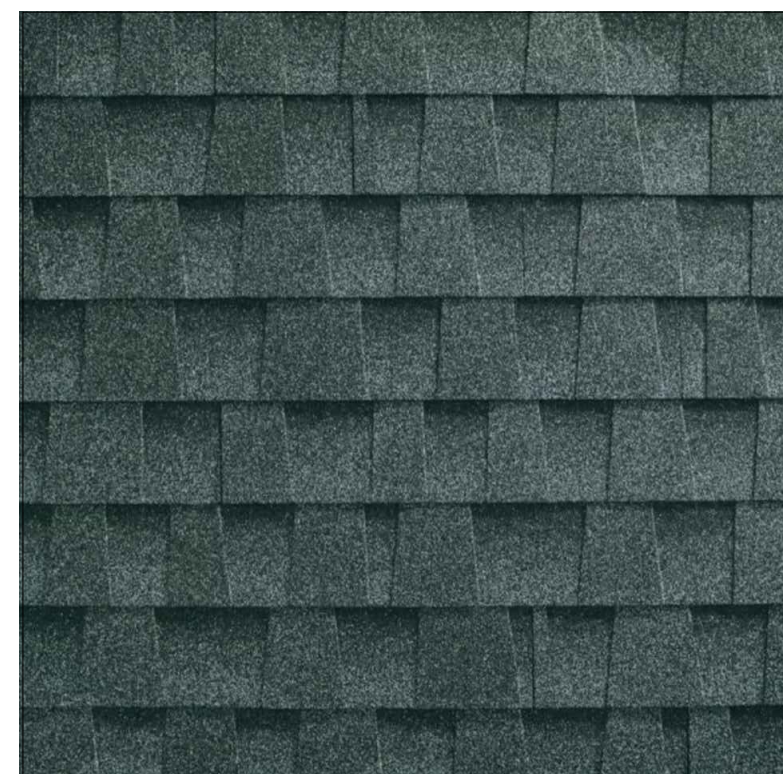
1 PROPOSED EAST ELEVATION
A3.2 SCALE: 1/4" = 1'-0"



2 PROPOSED SOUTH ELEVATION
A3.2 SCALE: 1/4" = 1'-0"



VIEW RAIL SIGNATURE SERIES



GAF TIMBERLINE HDZ REFLECTOR STONE



SIERRA PACIFIC BLACK - 023



SMOOTH STUCCO
BENJAMIN MOORE
ICE MIST OC-67



JAMES HARDI
BENJAMIN MOORE
ICE MIST OC-67



COPP RESIDENCE
AP# 049-142-10
Proposed Exterior Elevations

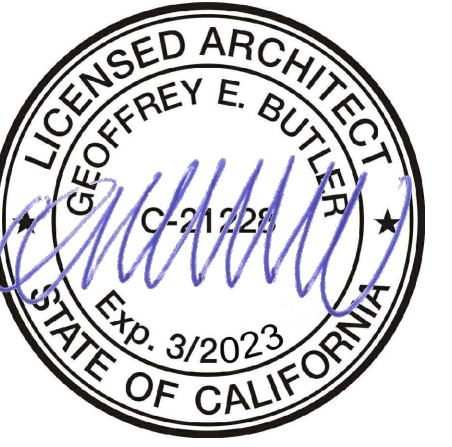
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A3.2



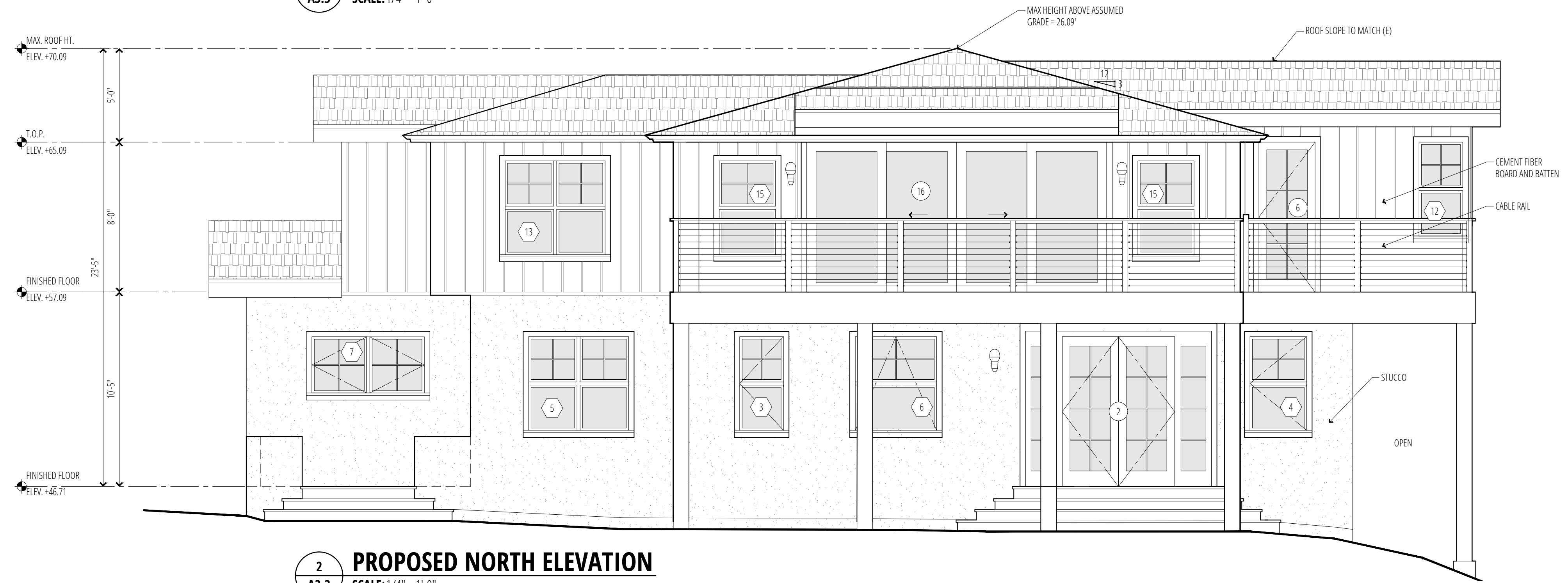
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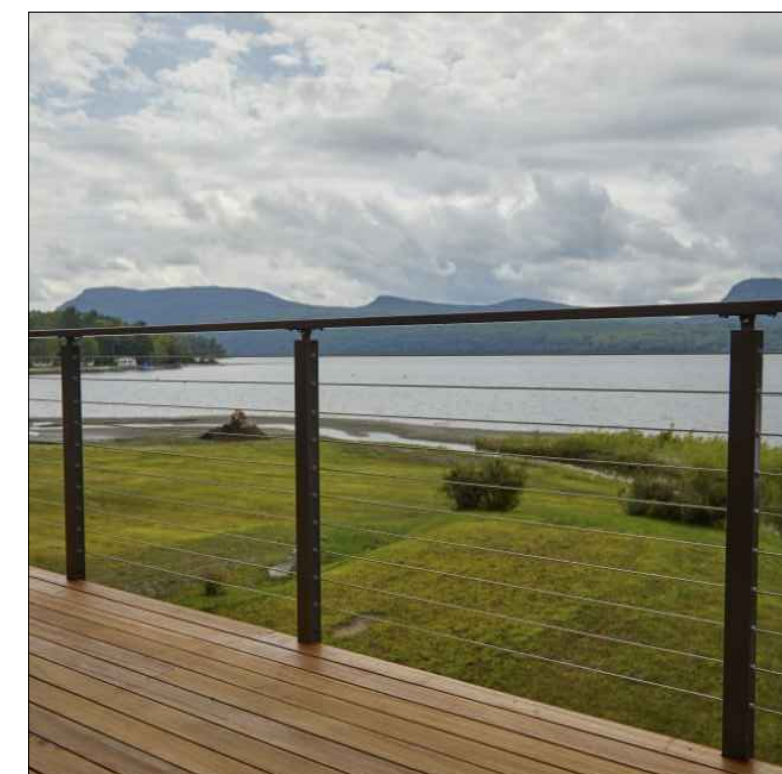
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1 PROPOSED WEST ELEVATION
A3.3 SCALE: 1/4" = 1'-0"



2 PROPOSED NORTH ELEVATION
A3.3 SCALE: 1/4" = 1'-0"



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ICE MIST OC-67



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Proposed Exterior Elevations

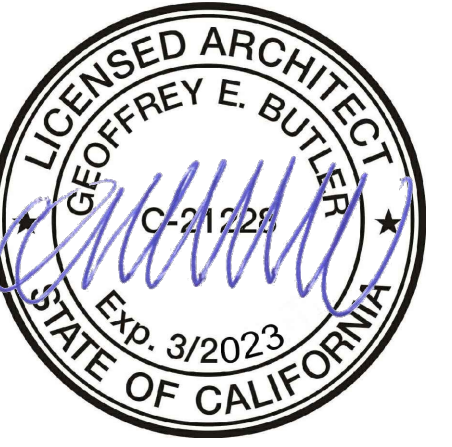
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A3.3



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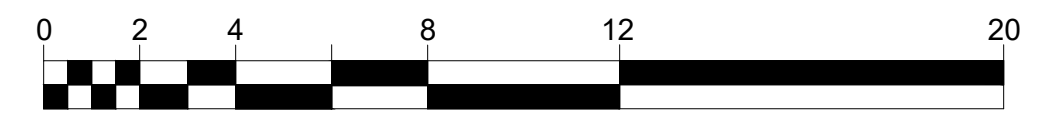
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1
A4.0 **EXISTING BUILDING SECTION**
SCALE: 1/4" = 1'-0"



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Existing Building Section
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1 PROPOSED BUILDING SECTION
A4.1 SCALE: 1/4" = 1'-0"



2 PROPOSED BUILDING SECTION
A4.1 SCALE: 1/4" = 1'-0"



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Proposed Building Sections
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A4.1



450 Marin Front Yard



450 Marin South Elevation



450 Marin South Elevation



450 Marin West Elevation



450 Marin West Yard



450 Marin Rear Yard



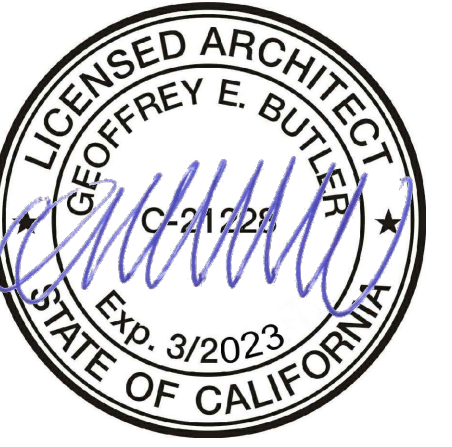
450 Marin West Yard



450 Marin Rear Yard



450 Marin North Elevation



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A6.0



450 Marin West Elevation



450 Marin East Elevation



450 Marin East Elevation



View from Marin Dr, Marin Ave and Live Oak Dr Intersection



View from Marin Dr, Marin Ave and Live Oak Dr Intersection



412 Ash St



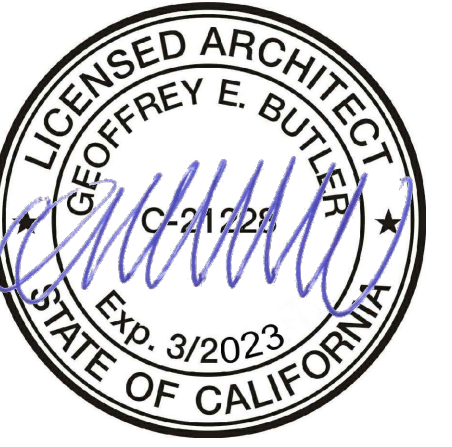
408 Spruce St



604 Green Glenn Way



604 Wanda Lane



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