

OC DEVELOPMENT SERVICES REPORT

DATE: October 7, 2021

TO: Orange County Zoning Administrator

FROM: OC Development Services / Planning Division

SUBJECT: Planning Application PA20-0175 for a Use Permit

PROPOSAL: The applicant is seeking a Use Permit for over height walls located within the side setback.

ZONING: 125-E4-20,000 “Small Estates”

GENERAL PLAN: 1B “Suburban Residential”

LOCATION: The project is located at 1901 Park Skyline Rd. within the Third (3rd) Supervisorial District (APN 502-071-12)

APPLICANT: Evelyn and Mike Wong, Property Owner
Anders Lasater, Architect

STAFF CONTACT: Cynthia Burgos, Contract Staff Planner
Phone: (714) 667-8898 E-mail: Cynthia.Burgos@ocpw.ocgov.com

RECOMMENDED ACTION(S):

OC Development Services/Planning recommends the:

1. Receive the staff report and public testimony as appropriate
2. Find that the proposed project is exempt from CEQA because the Class 3 (New Construction) Section 15303, consists of construction of limited numbers of new structures (One single-family residence) and Section 15304, Class 4 (Minor Alterations to Land).
3. Approve Planning Application PA20-0175 for a Use Permit subject to the Findings and Conditions of Approval provided as attachments #1 and #2 to this report.

BACKGROUND AND EXISTING CONDITIONS:

The subject property, portion of lot C of Tract Map 61, is located within an area designated 125-E4-20,000 "Small Estates" District in the unincorporated Santa Ana area. The subject site is located on a hillside and faces Park Skyline Road along the west and Skyline Drive along the east. The vacant lot is generally a rectangular shaped through lot and is 0.48 acres in size. The lot has an average depth of 180 feet and an average width of 102 feet.

Proposed Project

The applicant is requesting a Use Permit to allow for the construction of over height walls located within the side setback. The proposed walls would begin at a maximum height of 18 feet and would reduce in height as they head towards the street following the sloping grade of the lot. As per Section 7-9-64 (c)(1) of the Zoning Code no fences or walls over six-feet tall are permitted within the side setback area unless approved by the Zoning Administrator.

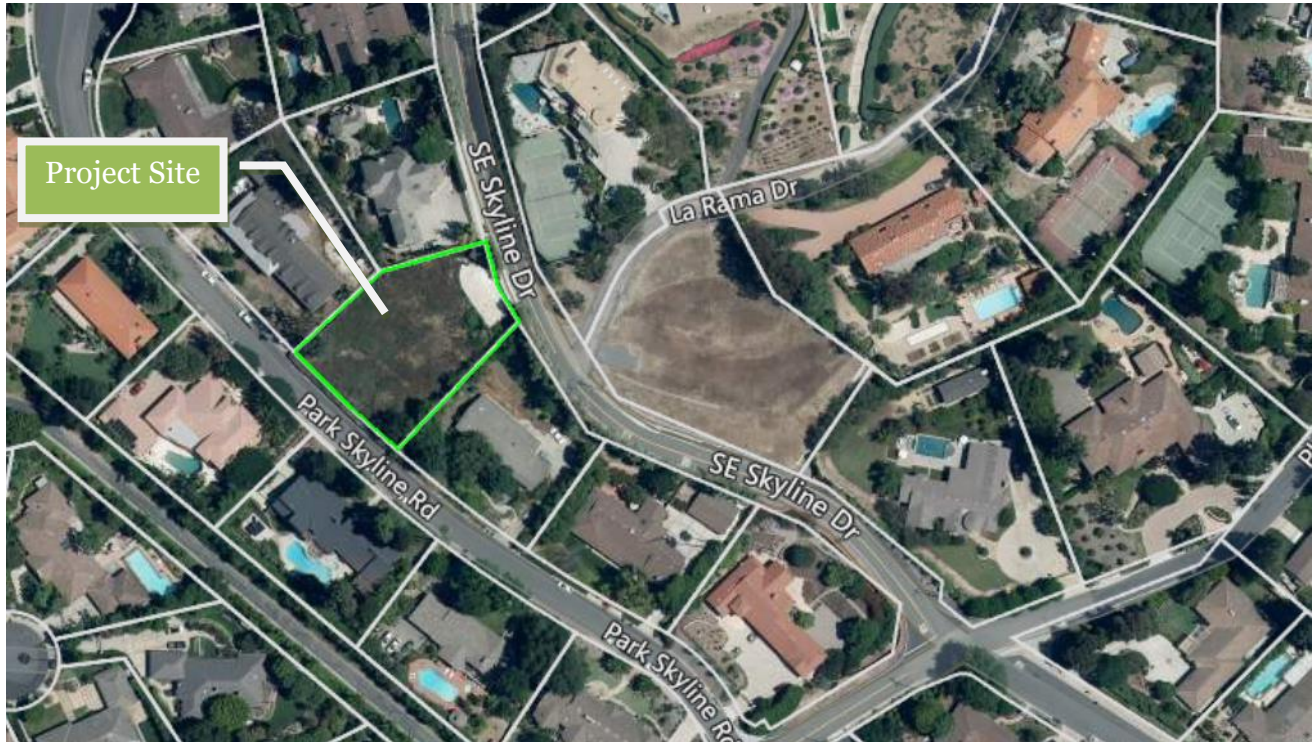
SURROUNDING LAND USES:

Zoning and existing land uses for the project site and for other surrounding properties beyond are as follows.

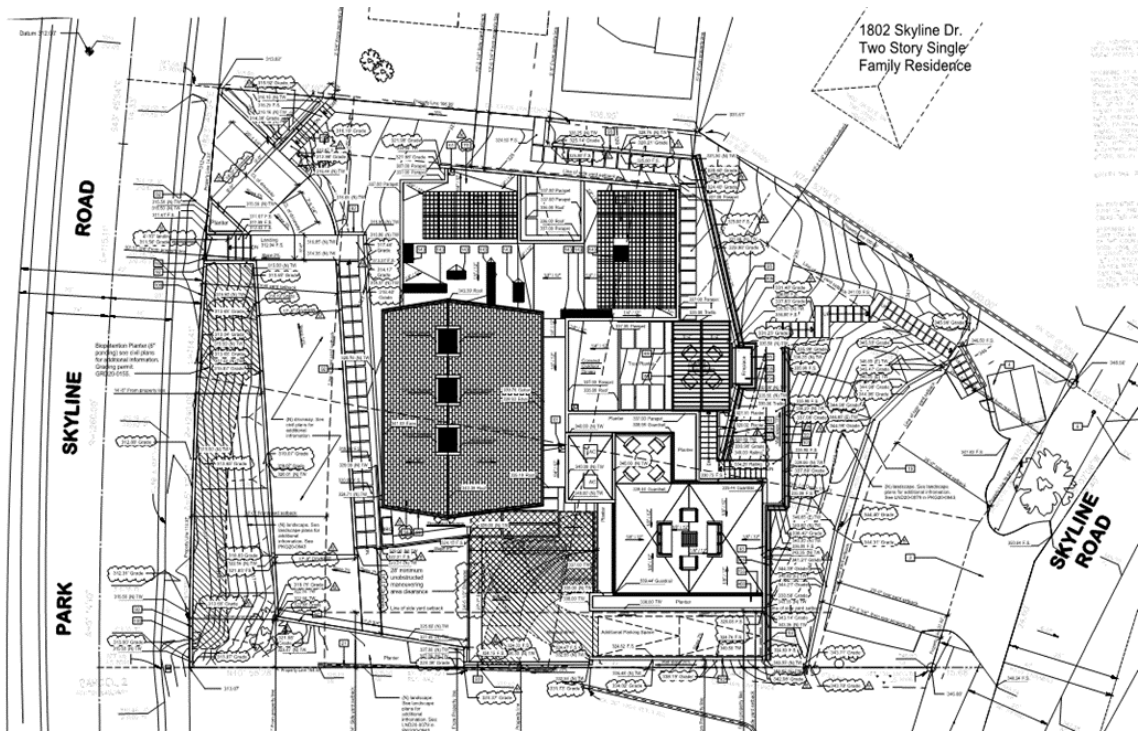
DIRECTION	ZONING DISTRICT	EXISTING LAND USE
Project Site	125-E4-20,000 "Small Estates" District	Vacant
North	125-E4-20,000 "Small Estates" District	Single Family Dwelling
South	125-E4-20,000 "Small Estates" District	Single Family Dwelling
East	125-E4-20,000 "Small Estates" District	Single Family Dwelling
West	125-E4-20,000 "Small Estates" District	Single Family Dwelling

Aerial of Project Site

An aerial photograph of the Project site and surrounding properties within unincorporated Santa Ana is provided below.



SITE PLAN



3D ELEVATION



DISCUSSION/ANALYSIS:

Below is a table comparing the development standards for the 125-E4-20,000 “Small Estates” District with the Applicant’s proposal.

STANDARD	PERMITTED	PROPOSED
Building Site Area	10,000 minimums	0.48 acres (existing)
Maximum Fence and Wall Height	3 1/2 feet (within the front setback area) 6 feet (within side or rear setback)	2’10” to 18’ block wall (proposed)*
Structural Front Setback	30’ minimum	19’ block wall (proposed)* 41’ house (proposed)
Structural Side Setback	12’ (Side setback is ten (10) percent of average ultimate net width of building site - maximum twenty (20) feet)	7” block wall right side (proposed)* 16’ house right side (proposed) 12’6” house left side (proposed)
Structural Rear Setback	25’	27’5” block wall (proposed) 39’ house (proposed)

*Indicates deviation from Site Development Standards

Over Height Walls

The applicant is proposing to build a new single-family house on a sloped lot. The slope of the property requires retaining walls that exceed the allowed height along the south side of the property. The retaining walls in question form the back of the garage and the side service yard adjacent to the garage. The maximum height of the retaining walls will be 18 feet but will reduce in height as they head towards the street following the sloping grade of the lot. Per the County of Orange Zoning Code any deviation from the maximum height shall require approval of a Use Permit to the Zoning Administrator. Consequently, the applicant is requesting approval to allow the height of the walls to exceed the maximum allowable height within the side setback area.

County of Orange Zoning Code Section 7-9-64(f), state that exceptions and modifications to the wall height provisions may be permitted by approval of a Use Permit by Zoning Administrator if the following findings can be made:

- A. *That the height and location of the fence or wall as proposed will not result in or create a traffic hazard.*
- B. *The location, size, design and other characteristics of the fence or wall will not create conditions or situations that may be objectionable, detrimental or incompatible with other permitted uses in the vicinity.*

The proposed walls have been reviewed by traffic engineering and since the walls reduce in height from a maximum of 18’ in the rear of the property to 2’10” within the front setback area it has been determined that the walls will not result in or create a traffic hazard. Furthermore, since the walls follow the slope of the property only a maximum of 2’8” of the walls will be visible from the adjacent neighborhood’s property. The location, size and design of the walls are consistent with similar improvements throughout

the area. As a result, this project will not be objectionable, detrimental or incompatible with other permitted uses in the vicinity.

Additionally, similar projects in the area have been proposed and approved. Below is a table of similar project approved in the last ten (10) years.

APPLICATION	LOCATION	PERMITTED	HEIGHT
PA180008	1505 Skyline Dr.	Use Permit for an over height fence and gate within the front setback area.	5'
PA170018	12421 Newport Ave.	Use Permit for an over height wall along a side setback area.	10'
PA100035	11322 Vista Del Lago	Use permit for an over height wall within a side setback area.	9'

REFERRAL FOR COMMENT AND PUBLIC NOTICE:

A copy of the planning application and the proposed site plan were distributed for review and comment to appropriate County division. Staff has reviewed all comments received, and where appropriate, has addressed the comments through recommended Conditions of Approval, which are provided as Attachment 2. Public notices were mailed to all owners of record within 300 feet of the subject property, and posted in front of the project site, the Orange County Hall of Administration at 333 W. Santa Ana Blvd., and in the lobby at the County Administration South building located at 601 N. Ross Street, Santa Ana, CA 92701, at least ten days prior to this public hearing, as required by established public hearing posting procedures. As of the writing of this staff report, no comments raising issues with the project have been received from OCFA or other County divisions.

The North Tustin Advisory Committee (NTAC) reviewed the applicants request at its August 18, 2021 meeting. After reviewing the project, NTAC voted 4-0 to recommend approval of the project. Minutes from the meeting are included in the staff report as Attachment 7.

CEQA COMPLIANCE:

The proposed project is exempt from CEQA because the Class 3 (New Construction) Section 15303, consists of construction of limited numbers of new structures (One single-family residence) and Section 15304, Class 4 (Minor Alterations to Land).

CONCLUSION:

Staff has reviewed the applicant's request for a Use Permit for over-height walls and found it to be compliant with the special findings necessary under Zoning Code Section 7-9-64(f). Staff recommends Zoning Administrator approval of Planning Application PA20-0175 for a Use Permit subject to the attached Recommended Findings and Conditions of Approval provided as Attachments 1 and 2.

Submitted by:



Richard Vuong, Planning Division Manager
OC Development Services/Planning

Concurred by:



Amanda Carr, Interim Deputy Director
OC Public Works/Development Services

ATTACHMENTS:

1. Recommended Findings
2. Recommended Conditions of Approval
3. Applicant's Letter of Justification
4. Environmental Documentation NOE PA20-0175
5. Site Photos
6. Site Plans
7. NTAC Meeting Minutes

APPEAL PROCEDURE:

Any interested person may appeal the decision of the Zoning Administrator on this permit to the OC Planning Commission within 15 calendar days of the decision upon submittal of required documents and a filing deposit of \$500 filed at the Development Processing Center, 601 N. Ross Street, Santa Ana. If you challenge the action taken on this proposal in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this report, or in written correspondence delivered to OC Development Services/Planning Division.

Attachment 1



Attachment 1 Findings PA20-0175

1	ZONING	PA20-0175
	That the use, activity or improvement(s) proposed, subject to the specified conditions, is consistent with the provisions of the Zoning Code, or specific plan regulations applicable to the property.	
2	COMPATIBILITY	PA20-0175
	That the location, size, design and operating characteristics of the proposed use will not create unusual conditions or situations that may be incompatible with other permitted uses in the vicinity.	
3	GENERAL WELFARE	PA20-0175
	That the application will not result in conditions or circumstances contrary to the public health and safety and the general welfare.	
4	ENVIRONMENTAL	PA20-0175
	That the proposed project is exempt from CEQA because the Class 3 (New Construction) Section 15303, consists of construction of limited numbers of new structures (One single-family residence) and Section 15304, Class 4 (Minor Alterations to Land).	
5	FISH & GAME	PA20-0175
	That pursuant to Section 711.4 of the California Fish and Game Code, this project is exempt from the required fees as it has been determined that no adverse impacts to wildlife resources will result from the project.	
6	GENERAL PLAN	PA20-0175
	That the use or project proposed is consistent with the objectives, policies, and general land uses and programs specified in the General Plan adopted pursuant to the State Planning and Zoning Law.	
7	PUBLIC FACILITIES	PA20-0175
	That the approval of the permit application is in compliance with Codified Ordinance Section 7-9-711 regarding public facilities (fire station, library, sheriff, etc.).	
8	OVER HEIGHT WALL 1	PA20-0175
	That the height and location of the fence or wall as proposed will not result in or create a traffic hazard.	

Attachment 1: Findings – PA20-0175

9

OVER HEIGHT WALL 1

PA20-0175

That the location, size, design and other characteristics of the fence or wall will not create conditions or situations that may be objectionable, detrimental or incompatible with other permitted uses in the vicinity.

Attachment 2



Attachment 2 Conditions of Approval PA20-0175

BASIC/APPEAL EXACTIONS - - Z06

SC

Pursuant to Government Code Section 66020, the applicant is hereby informed that the 90-day approval period in which the applicant may protest the fees, dedications, reservations or other exactions imposed on this project through the conditions of approval has begun.

BASIC/COMPLIANCE - - Z04

SC

Failure to abide by and faithfully comply with any and all conditions attached to this approving action shall constitute grounds for the revocation of said action by the Orange County Planning Commission.

BASIC/LAND USE PLAN - - Z03

SC

Except as otherwise provided herein, this permit is approved as a land use plan. If the applicant proposes changes regarding the location or alteration of any use or structure, the applicant shall submit a changed plan to the Director, OC Development Services, for approval. If the Director, OC Development Services, determines that the proposed change complies with the provisions and the spirit and intent of the original approval action, and that the action would have been the same for the changed plan as for the approved plot plan, he may approve the changed plan without requiring a new public hearing.

CONSTRUCTION NOISE

A. Prior to the issuance of any grading permits, the project proponent shall produce evidence acceptable to the Manager, Permit Services, that:

(1) All construction vehicles or equipment, fixed or mobile, operated within 1,000 feet of a dwelling shall be equipped with properly operating and maintained mufflers.

(2) All operations shall comply with Orange County Codified Ordinance Division 6 (Noise Control).

(3) Stockpiling and/or vehicle staging areas shall be located as far as practicable from dwellings.

B. Notations in the above format, appropriately numbered and included with other notations on the front sheet of the project's permitted grading plans, will be considered as adequate evidence of compliance with this condition.

BASIC/ZONING REGULATIONS - BASIC/ZONING REGULATIONS - Z01 BASIC

This approval constitutes approval of the proposed project only to the extent that the project complies with the Orange County Zoning Code and any other applicable zoning regulations. Approval does not include any action or finding as to compliance or approval of the project regarding any other applicable ordinance, regulation or requirement.

INDEMNIFICATION (new one January 2018) - - Z05 SC

Applicant shall, at its own expense, defend, indemnify and hold harmless the County of Orange, its officers, agents and employees from any claim, action or proceeding against the County, its officers, agents or employees to attack, set aside, void, or annul any approval of the application or related decision, or the adoption of any environmental documents, findings or other environmental determination, by the County of Orange, its Board of Supervisors, Planning Commission, Zoning Administrator, Subdivision Committee, Director of OC Public Works, or Deputy Director of OC Development Services concerning this application. The County may, at its sole discretion, participate in the defense of any action, at the applicant's expense, but such participation shall not relieve applicant of his/her obligations under this condition. Applicant shall reimburse the County for any court costs and attorney's fees that the County may be required to pay as a result of such action. If litigation is filed challenging the Project, the County may, at its sole discretion, require the Applicant to post a bond, enter into an escrow agreement, obtain an irrevocable letter of credit from a qualified financial institution, or provide other security, to the satisfaction of the County, in anticipation of litigation and possible attorney's fee awards. The County shall promptly notify the applicant of any such claim, action or proceeding.

BASIC/TIME LIMIT - - Z02 SC

This approval is valid for a period of 36 months from the date of final determination. If the use approved by this action is not established within such period of time, this approval shall be terminated and shall thereafter be null and void.

EROSION AND SEDIMENT CONTROL PLAN

Prior to the issuance of any grading or building permit, the applicant shall submit an Erosion and Sediment Control Plan (ESCP) in a manner meeting approval of the Manager, Building and Safety Division, to demonstrate compliance with the County's NPDES Implementation Program and state water quality regulations for grading and construction activities. The ESCP shall identify how all construction materials, wastes, grading or demolition debris, and stockpiles of soil, aggregates, soil amendments, etc. shall be properly covered, stored, and secured to prevent transport into local drainages or coastal waters by wind, rain, tracking, tidal erosion or dispersion. The ESCP shall also describe how the applicant will ensure that all BMPs will be maintained during construction of any future public right-of-ways. The ESCP shall be updated as needed to address the changing circumstances of the project site. A copy of the current ESCP shall be kept at the project site and be available for County review on request.

Attachment 3



ANDERS LASATER
ARCHITECTS

February 8, 2021

Re: Justification for retaining wall exceeding 8 feet in height
1901 Park Skyline Road,
Santa Ana, CA 92705

Dear Planners,

The retaining wall in question forms the back of the garage and the side service yard adjacent the garage.

The wall is an integral part of the proposed garage structure which is oriented on the site in such a way that the back of the garage is cut into the sloping lot by as much as 18 feet. This back retaining wall then extends out from the garage into the south side-yard setback and returns along the south property line creating a service yard adjacent to the garage. The retaining wall quickly reduces in height as it heads west, toward the street, following the sloping grade of the lot.

If we are not allowed to have this retaining wall as proposed the south service yard outside the garage would not be possible.

Regards,

Anders Lasater, AIA
President
ANDERS LASATER ARCHITECTS, INC.

Attachment 4

CEQA Exemption Exceptions Worksheet

Project Name: Wong Residence

Project Number: PA 20-0175

Project Location: 1901 Park Skyline Road, Santa Ana, CA (APN 502-071-12)

Project: The applicant is proposing to build a new single-family house on a sloped lot.

Eligible Orange County Local CEQA Exemption(s)	Analysis
None	None
Eligible State CEQA Guidelines Exemption(s)	Analysis
Class 3 – New Construction Class 4 - Minor Alterations to Land	Section 15303(a) - one single-family residence, or a second dwelling unit in a residential zone. I Section 15304 - minor private alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry or agricultural purposes
Exemption Exceptions (Guidelines §15300.2)	Analysis
§15300.2(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.	This exception does not nullify the use of the Class 3 or 4 exemption.
§15300.2(b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.	This exception does not nullify the use of the Class 3 or 4 exemption. The construction project does not include or require additional or successive projects to implement the proposed project.

CEQA Exemption Exceptions Worksheet

Eligible Orange County Local CEQA Exemption(s)	Analysis
<p>§15300.2(c) Significant Effect due to Unusual Circumstances. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.</p>	<p>This exception does not nullify the use of the Class 3 or 4 exemption.</p> <p>In the 2015 California Supreme Court Case (Berkeley Hillside Preservation v. City of Berkeley) the court created a two-part test to determine if unusual circumstances are operative that would nullify the use of an exemption: 1) Is there an unusual circumstance? 2) If yes, is there a reasonable possibility it will create a significant impact?</p> <ul style="list-style-type: none"> • The project is within a developed commercial shopping center. • The proposed improvements are similar to the existing uses on the shopping center. • Project implementation will not result in significant impacts. <p>The test for Unusual Circumstances has not been met because unusual circumstances are not present.</p>
<p>§15300.2(d) Scenic Highways. A categorical exemption shall not be used for a project, which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.</p>	<p>This exception does not nullify the use of the Class 3 or 4 exemption.</p> <p>The project site is not located near scenic resources.</p>
<p>§15300.2(e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.</p>	<p>This exception does not nullify the use of the Class 3 or 4 exemption.</p> <p>The project site is not located near any hazardous waste sites.</p>
<p>§15300.2(f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.</p>	<p>This exception does not nullify the use of the Class 3 or 4 exemption.</p> <p>The project site is not a historical resource.</p>

Attachment 5





Google



Street View



Google

Image capture: Feb 2019 © 2020 Google United States Terms Report a problem



1901 Park
23 min drive

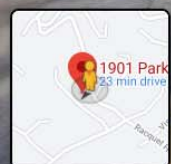
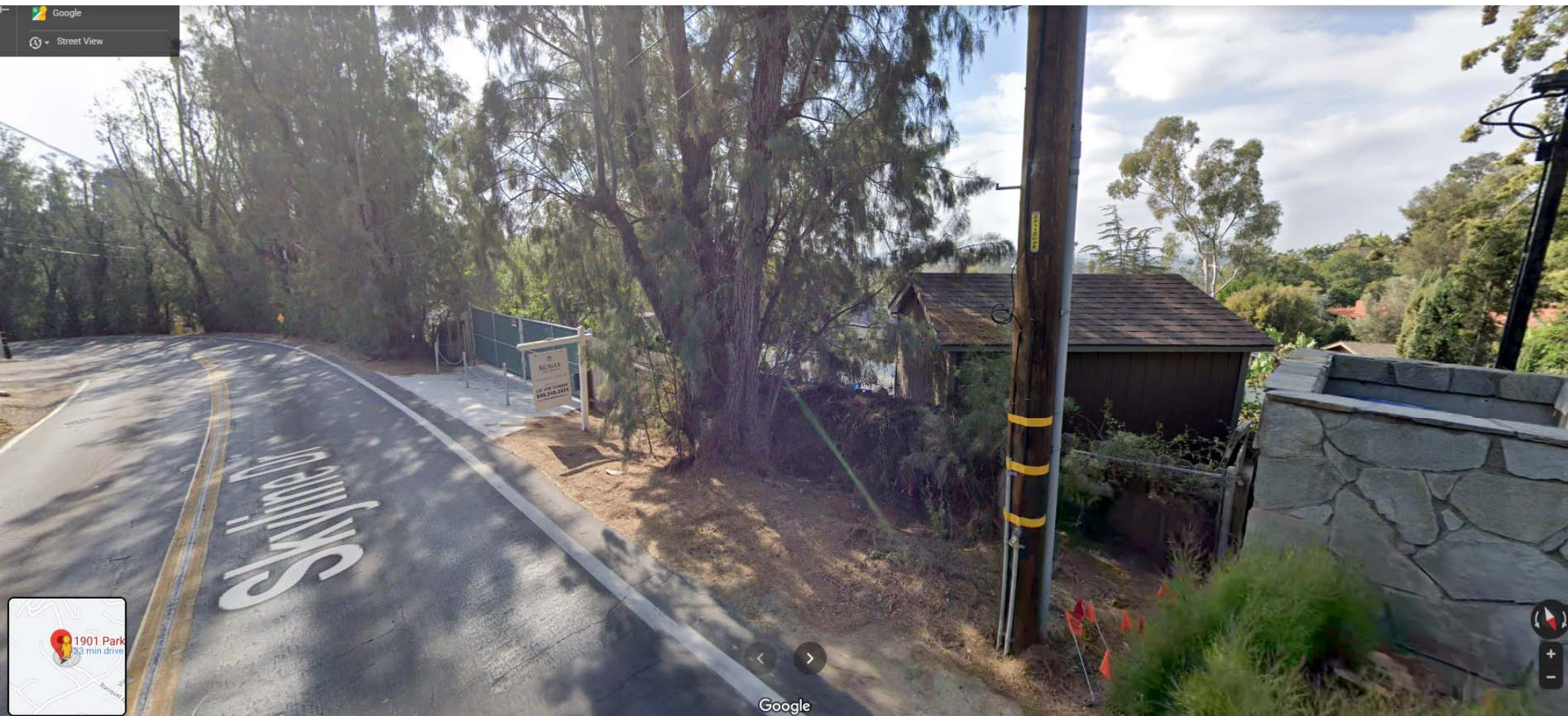
Google

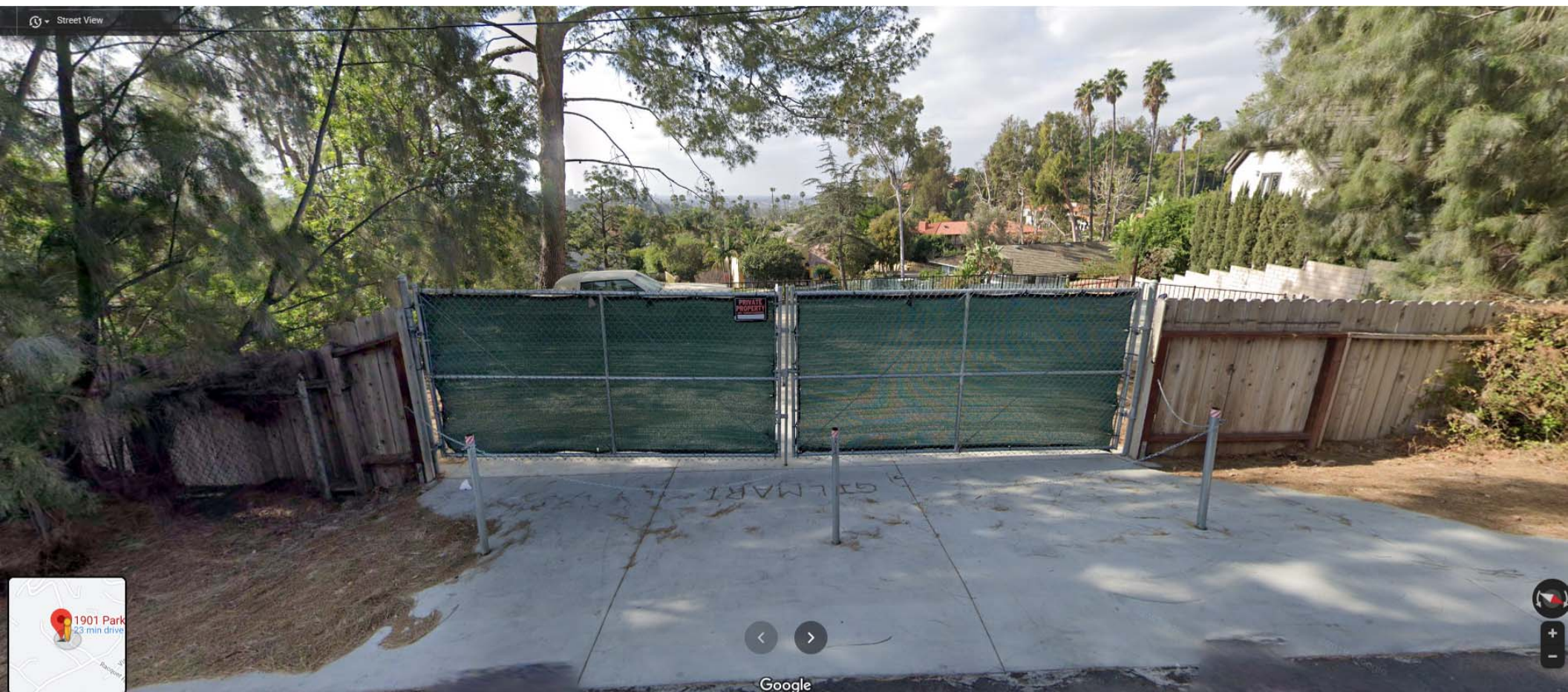
Street View



Google







Google



Attachment 6

Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705



Note: "There shall be no trenches or excavations 5 feet or more in depth into which a person is required to descend, or obtain permit from State of California, Division of Occupation Safety and Health (Cal/OSHA). This permit and any other safety permit shall be obtained prior to commence of any work."



ANDERSLASATERARCHITECTS.COM
384 FOREST AVENUE, SUITE 12
LAGUNA BEACH, CA 92651
949 497 1827

These drawings and specifications, and the designs and ideas contained herein are the property of ALA and shall not be duplicated, altered or utilized in any way by anyone other than the OWNER whose name appears in the title block and with whom ALA is contracted. Said contract is a license for the OWNER to use these Instruments of Service solely for completing the Project scope defined in the contract between ALA and the OWNER.

ALA reserves all rights including the copyright. Any unauthorized duplication or alteration of these drawings and specifications is a violation of said copyright and is subject to full civil liabilities and penalties. In the case of such unauthorized use ALA shall be held harmless and approved of all liability related to the use of these drawings and specifications.

Written dimensions shall take preference over scaled dimensions and shall be verified in the field. Any discrepancy or error shall be brought to the attention of the Architect prior to the commencement of any work.



Wong Residence
New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County

Printed

7/8/2021 11:37:43 AM

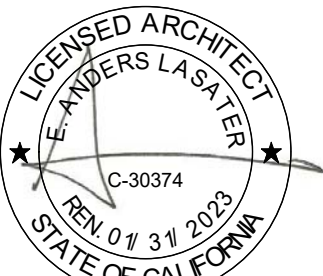
Cover Sheet

A0.0

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GENERAL NOTES

NOTE TO GENERAL CONTRACTOR - This set of construction documents is an interrelated and cross-referenced package of information that should not be separated into constituent parts for distribution to sub trades. It is the sole responsibility of the general contractor to ensure that all subtrades received all pertinent and relevant information related to their work as defined within these construction documents.

- The contractor is responsible to make himself familiar with California Building Code as applicable to this project. All construction must meet the **2019** CBC.
- This project shall comply with the **2019** California Building Code, **2019** California Residential Code and **2019** California Fire Code. (see Building Code Data below for more information) and City Ordinances.
- New utilities and communication lines to be under grounded to the nearest existing utility location.
- Contractor to stake-out and verify with Architect the building setbacks, floor, pad and roof elevations, and driveway prior to start of construction.
- Surface water shall drain away from building at a minimum of 1/4" per foot.
- All site elements, flat work, and landscape to be coordinated with landscape architect and their documents.
- Contractor shall locate all existing utilities (whether shown herein or not) and protect them from damage. Contractor shall bear all expense of repair or replacement in conjunction with the execution of this work.
- Prior to commencement of construction, all applicable provisions related to brush clearance in the uniform fire code shall be fully complied with, to the satisfaction of City Fire Department.
- Contractor shall sign and post a notice on the building certifying that the installed insulation complies with the California state standards.
- All chimneys shall be equipped with spark arrestors which will permit the passage of objects no greater in size than one-half inch nor obstruct the passage of objects smaller than three-eighths inch.
- Contractor to verify all existing pad and finish floor elevations. If any discrepancies are discovered, Contractor shall notify the Architect before the start of construction.
- All exposed non-finished metal is to be primed and painted including shop or factory primed surfaces. Architect to approve final color.
- Contractor may not change design materials or details without permission of the Architect.
- Written dimensions to take precedence over scaled dimensions.
- Contractor shall verify all details and dimensions prior to the start of construction and shall notify the Architect of any omissions, errors, or discrepancies.
- Residence to be pre-wired for cable television per city policy.
- All grading must comply with City Municipal Code and Appendix Chapter 70 of the CBC.

- Upon completion of grading, an as-built grading plan shall be provided by the civil engineer. The Geologist and Soils Engineer must certify that the site is suitable for the intended use at the completion of grading and prior to building construction.
- Civil Engineer shall certify that the elevation of the graded pad of the future finish floor does not vary by more than 2/10ths of a foot from the approved elevations prior to start of building construction.
- This project shall comply with all provisions of the **2019** California Green Building Standards as enforced by the municipality in which the project resides.
- Licensed Civil Engineer who prepared the drainage plan shall certify at the completion of the project that the site drainage is in substantial compliance with the approved drainage plan.
- CAL OSHA permit shall be obtained for all excavations deeper than 5 feet. A copy of the permit shall be provided to the city prior to issuance of building permit.
- Deputy Inspector (as required) to obtain Building Department clearance prior to commencement of structural steel field welding.
- Prior to the issuance of a Building Permit, the Contractor shall have a certificate of current workmen's compensation insurance coverage on file with the Building Department.
- House street number shall be visible and legible from street. Minimum 4" height with a stroke width of not less than 0.5" (CRC R319.)
- Separate review and permit(s) is/are required for pools, spas, walls, fences, patio covers and other freestanding structures
- Shower compartments and walls above bathtubs with shower heads installed shall be finished with a smooth, nonabsorbent surface to a height of not less than 72" above the floor. CRC R307.2
- Handrails shall satisfy the following:
 - provide a minimum of one continuous handrail on stairways with 4 or more risers and at all open sides. R311.7.8
 - handrail height shall be 34 to 38 inches above the nosing of treads. R311.7.8.1
 - handrail with circular cross-section shall have a diameter of 1.25 to 2 inches. R311.7.8.3 item 1
 - handrails with other than circular cross-sections shall have a perimeter dimension of 4 to 6.25 inches with a maximum cross-section of 2.25 inches. R311.7.8.3 item 1
 - handrails with a perimeter greater than 6.25 inches shall comply with R311.7.8.3 item 2.
 - handrail shall be continuous without interruption by newel post or other obstruction, except at the landing, volute, or turnout on lowest tread. R311.7.8.2, exception 1&2
 - clear spaces between handrail and wall shall be 1.5 inches minimum R311.7.8.2
- Attic space with ceiling heights greater than 6 feet - " Not to contain any air registers, electrical outlets, or lighting other than is required by Code. Not to contain any insulation, drywall, or similar interior wall finishing material."
- Contractor to provide a detectable warning product sample to the Building Inspector for approval of color contrast with finish surface.

PROJECT SUMMARY TABLE

Use	SFD	Zone	E4	Lot Slope (%)	28.10%
Zoning Standards	Required	Existing	Proposed	Conforms	
Lot Area	20,095 SF	20,095	no change	Yes	
Lot Width (Avg.)	121.83	121.83	no change	Yes	
Lot Depth (Avg.)	176.73	176.73	no change	Yes	
Setbacks:					
Front Yard	30'	30'	no change	Yes	
Rear Yard	25'	6' 10"	25' to proposed building	Yes	
Side Yards (combi each)	12'-2.196' each	1'-7" 10'-5"	12'-2 1/4" each	Yes	
Lot Coverage (BSC)	35% (7033.25SF)	123.83 SF (0.6%)	5,831 SF (29.02%)	Yes	
Project Data	Existing	Removed	Proposed	Total	
Living Area					
Lower Living Area	0	0	3709	3709	
Total Living Area	0	0	3709	3709	
Carport	0	0	0	0	
Garage	0	0	1102	1102	
Elevated Deck / Terrace	0	0	1004	1004	
Mechanical	0	0	16	16	
Storage	123.83	0	0	123.83	

Side Yard Setback Calculation

Average Site Width : 121.83'
10% of side width: 121.83 x 10% = 12.183'
Side yard setback : 12' - 2.196' at each side

Note: "There shall be no trenches or excavations 5 feet or more in depth into which a person is required to descend, or obtain permit from State of California, Division of Occupation Safety and Health (Cal/OSHA). This permit and any other safety permit shall be obtained prior to commence of any work."

SCOPE OF WORK FOR PLANNING APPLICATION (PA20-0175)

- New site retaining walls
- Site shoring walls
- New driveway access to the house
- 25' minimum unobstructed maneuvering area clearance from garage door
- Soils Report
- See sheet SWN1 to SW5 for Site wall notes, site wall foundation plan, site wall and shoring details
- See floor plans on A2.1 & A2.2
- See Section drawings on sheet A3.3 to A3.7 for reference

SCOPE OF WORK FOR ROAD ENCROACHMENT PERMIT (RE21-0082)

- Make changes to the curb and side walk, driveway access to the house.

OCCA PERMIT (SR291302)

- fire department access through out the house.
- fire sprinkler is a deferred submittal

PLANNING INFORMATION

Zone: 125-E4-20000 "Small Estates"
Lot Area: 20,095 SF
APN: 562-071-12
Legal Description: PARCEL 1:
THAT PORTION OF LOT C OF TRACT NO. 61, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 10, PAGE 5 MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE NORTHEASTERLY LINE OF SAID LOT C, NORTH 32°12'30" WEST, 128.05 FEET FROM THE SOUTHEASTERLY TERMINUS OF THAT CERTAIN COURSE ON SAID NORTHEASTERLY LINE SHOWN AS "COURSE 51, NORTH 32°12'30" WEST 102.65 MEAS" ON A MAP OF SURVEY, RECORDED IN BOOK 23 PAGE 50, RECORD OF SURVEY, IN THE OFFICE OF THE COUNTY RECORDER OF SAID ORANGE COUNTY, THENCE ALONG SAID NORTHEASTERLY LINE, NORTH 32°12'30" WEST, 24.60 FEET, AND NORTH 15°16'18" WEST, 37.40 FEET, THENCE, SOUTH 74°42'45" WEST, 115.00 FEET, THENCE, SOUTH 60°13'30" WEST, 127.36 FEET, THENCE, SOUTH 43°58'30" EAST, 15.46 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 1260.00 FEET, THENCE SOUTHEASTERLY, 115.14 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 5°14'09" TO A POINT TO WHICH A RADIAL LINE BEARS, SOUTH 49°47'21" WEST, THENCE NORTH 40°47'21" EAST, 200.84 FEET TO THE POINT OF BEGINNING.
EXCEPT THAT PORTION THEREOF INCLUDED WITHIN THE RIGHT OF WAY OF SKYLINE DRIVE.
PARCEL 2:
AN EASEMENT FOR ROAD PURPOSES AND UTILITY PURPOSES OVER A STRIP OF LAND 20.00 FEET IN WIDTH LYING 20.00 FEET NORTHEASTERLY (MEASURED RADIALY), OF THE FOLLOWING DESCRIBED LINE:
BEGINNING AT THE NORTHEASTERLY TERMINUS OF THE CENTER LINE OF THAT CERTAIN 40.00 FOOT WIDE STRIP OF LAND DESCRIBED IN THE DEED OF THE COUNTY OF ORANGE, RECORDED DECEMBER 8, 1969 IN BOOK 5005, PAGE 300, OFFICIAL RECORDS, SAID POINT BEING ON THE MISC OF A CURVE, CONCAVE NORTHEASTERLY, AND HAVING A RADIUS OF 1260.00 FEET (A RADIAL THROUGH SAID POINT BEARS SOUTH 37°03'30" WEST), THENCE NORTHEASTERLY, 80.22 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 3°38'51" TO A POINT THROUGH WHICH A RADIAL BEARS, SOUTH 40°47'21" WEST, SAID POINT BEING THE MOST SOUTHERLY CORNER OF THE HEREIN ABOVE DESCRIBED PARCEL 1.

BLDG. CODE

Description of Use: Single Family Residence
Occupancy: R3 / U
Number of Stories: 2
Construction Type: V-B
Fire Sprinklers: Yes - The new building will be protected by an automatic sprinkler system.
Codes: 2019 California Building Code (CBC)
2019 California Residential Code (CRC)
2019 California Mechanical Code (CMC)
2019 California Plumbing Code (CPC)
2019 California Electrical Code (CEC)
2019 California Green Building Standards Code (CCBS)
2019 California Energy Efficiency Standards (CEES)
2019 California Fire Code (CFC)
County of Orange Regulations & Ordinances

SCOPE OF WORK FOR BUILDING PERMIT (BLD20-2220) & BUILDING PACKAGE (PKG20-0941)

- (N) one-story single family residence w/ attached 4-car garage (1,084 SF)
- House Floor area 3,709 SF
- New Deck area above garage 1,004 SF
- New Mechanical area 16 SF
- New Solar plan E1.1 and electrical plans E0.1 to E4.0 (ELE20-1516)
- New Indoor fireplace
- New outdoor fireplace
- New attached Trellis to the house
- See Architectural plans from A0.0 to AC2
- See Structural plan from SN1 to SD3.0
- See House Structural calculations
- Soils Report
- Structural site wall sheets are for reference only
- New mechanical plans M-0.1 to M-4.1 (MEC20-0921)
- New plumbing plans P-0.1 to P5.1 (PLB20-1455)

SCOPE OF WORK FOR GRADING (GRD20-0155) AND LANDSCAPE PACKAGE (PKG20-0943)

- New Landscape area (LND20-0079)
- New Grading plan (GRD20-0155)
- New driveway access to the house
- WQMP (WQ20-0077)
- Hydrology Study
- Soils Report
- See Civil drawings from C1 to C8
- See Landscape drawings from LT1.0 to LW-1

SCOPE OF WORK FOR RETAINING WALLS AND SHORING PACKAGE (BLD21-0527)

- New site retaining walls
- Site shoring walls
- New driveway access to the house
- Soils Report
- See sheet SWN1 to SW5 for Site wall notes, site wall foundation plan, site wall and shoring details
- See site wall structural calculation sheets
- See existing and new site plan on sheet A1.0 and A1.1
- See Section drawings on sheet A3.3 to A3.7 for reference

SCOPE OF WORK FOR OUTDOOR FIREPLACE

- Exterior gas only fireplace

DEFERRED SUBMITTAL

- Flag sprinkler
- Site retaining walls
- Shoring walls
- Wind load calculation for full high glazing
- Portion of existing wall that is to remain unchanged may cross the property line. General Contractor to verify location of existing wall as it relates to the property line and, if possible, remove that portion of the wall that extends beyond the property line. Contractor to obtain a written permission from the adjacent property owner before doing any work that is not in the 1901 Park Skyline Road property. See keynote #20 on Sheet A1.0 for location of the wall.

SEPARATE PERMIT

- Grading plan
- Landscape & Irrigation
- Exterior gas only fireplace
- Site retaining walls and shoring
- Encroachment permit for the proposed curb and side walk, driveway access to the house

Below are all the ongoing permits # that related to the 1901 Park Skyline Road project for your reference.

- PKG20-0941
 - Building permit: BLD20-2220
 - Mechanical permit: MEC20-0901
 - Electrical permit: ELE20-1516
 - Plumbing permit: PLB20-1455
 - Solar permit: SLR21-0231

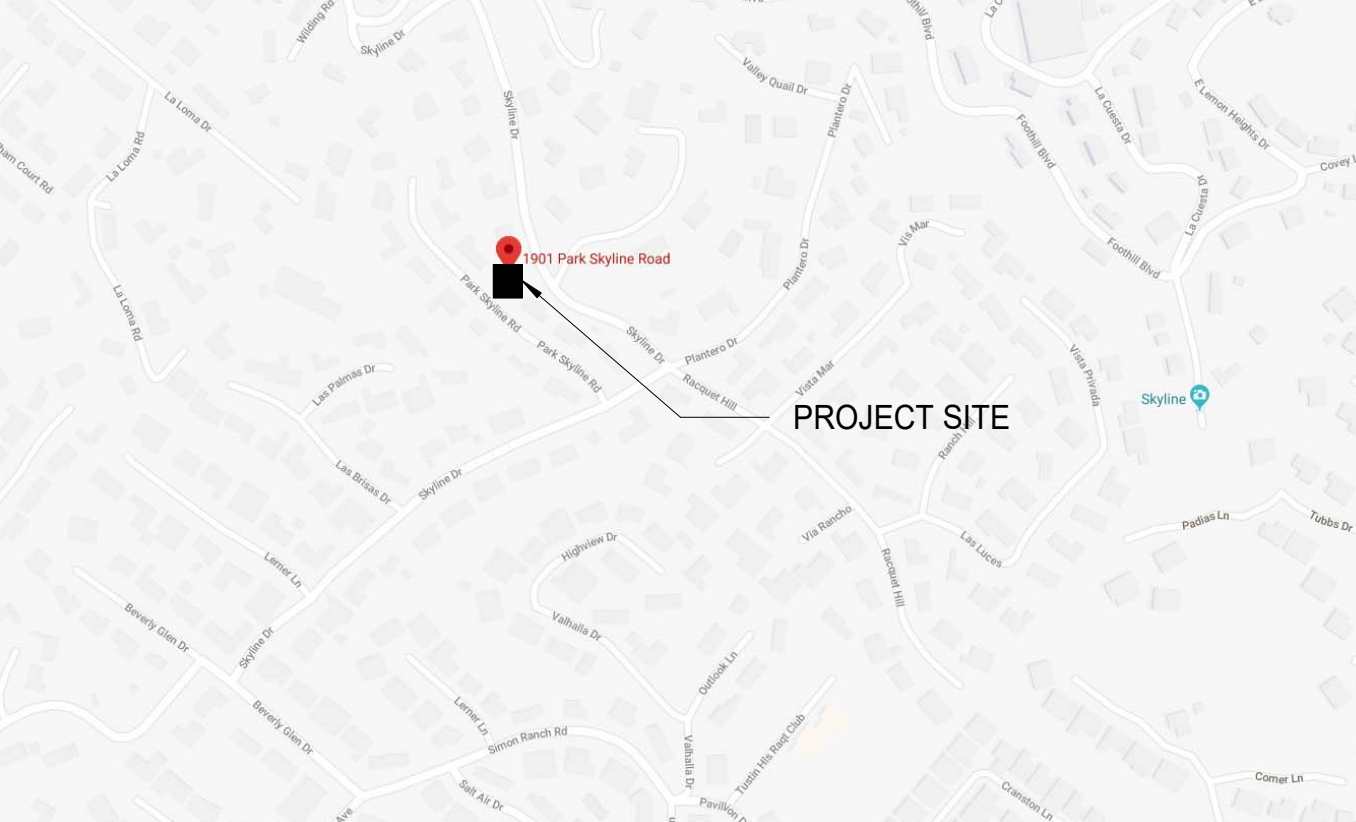
PKG20-0943

- Grading permit: GRD20-0155
- Landscape permit: LND20-0079
- WQ permit: WQ20-0077

Other Individual permits are:

- Planning permit: PA20-0175
- Retaining and shoring wall permit: BLD21-0527
- Road Encroachment permit: RE21-0082
- OCCA permit: SR201302

VICINITY MAP



PROJECT TEAM

PROJECT ARCHITECT:	Anders Lasater Architects, Inc. 384 Forest Avenue, Suite 12 Laguna Beach, CA 92651 949 497 1827 Office anders@anderslasaterarchitects.com hnm@anderslasaterarchitects.com	STRUCTURAL ENGINEER:	Burke Structural Engineers P.C. 151 Kalmaus Drive, Bldg. E-140, Costa Mesa, CA 92626 657 289 0450 Phone tom@bursk.com chris@bursk.com
PROJECT OWNER:	Mike & Evelyn Wong 116 Homestead Irvine, CA 92602 949 701 1133 Mike 714 227 1007 Evelyn dmwong@gmail.com evewyong@me.com	LANDSCAPE ARCHITECT:	M.D. Wilkes Design and Consulting Michael Wilkes 690 Thalia St. Laguna Beach, CA 92651 wilkesmichael@gmail.com 949 657 1050
SURVEYOR:	G & G Engineering, Inc. Andrew Gredtula 1251 N. Manservoso St., Ste. 402 Anaheim, CA 92807 714 970 1220 info@mygmg.com	SOILS ENGINEER:	GeoFirm Kevin Trigg 801 Gleneyre St., Suite F Laguna Beach, CA 92651 949 484 2122 ktrigg@geofirm.com
CIVIL ENGINEER:	Civilscapes Engineering, INC Viji Raju 28052 Camino Capistrano, Suite 213 Laguna Niguel, CA 92677 949 484 8110 viji@civilscapes.com	TITLE 24 ENGINEER:	Build Smart Group Nick Brown 400 Los Altos Ave Long Beach, CA 90814 714 584 3397 nick@buildsmartgroup.com
MEP ENGINEER:	Riverside Engineering Mark Alexander 17875 Von Karman Ave, Suite 250 Irvine, CA 92614 888 401 7483 Office 949 538 3940 Cell markalexander@riv-eng.com	CONTRACTOR:	-

NPDES NOTES

- In case of emergency, call
Contractor Name: TBD
Cell Phone: -
Email: -
- Sediment from areas disturbed by construction shall be retained on site using structural controls to the maximum extent practicable.
- Stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking, or wind.
- Appropriate BMP's for construction-related materials, wastes, spills shall be implemented to minimize transport from the site to streets, drainage facilities, or adjoining properties by wind or runoff.
- Runoff from equipment and vehicle washing shall be contained at construction sites unless treated to reduce or remove sediment and other pollutants.
- All construction contractor and subcontractor personnel are to be made aware or the required best management practices and good housekeeping measures for the project site and any associated construction staging areas.
- At the end of each day of construction activity all construction debris and waste materials shall be collected and properly disposed in trash or recycle bins.
- Construction sites shall be maintained in such a condition that an anticipated storm does not carry wastes or pollutants off the site. Discharges of material other than stormwater only when necessary for performance and completion of construction practices and where they do not cause or contribute to a violation of any water quality standard; cause or threaten to cause pollution, contamination, or nuisance; or contain a hazardous substance in a quantity reportable under Federal Regulations 40 CFR Parts 117 and 302.
- Potential pollutants include but are not limited to: solid or liquid chemical spills; wastes from paints, stains, sealants, glues, limes, pesticides, herbicides, wood preservatives and solvents; asbestos fibers, paint flakes or stucco fragments; fuels, oils, lubricants, and hydraulic, radiator or battery fluids; fertilizers, vehicle/equipment wash water and concrete wash water; concrete, detergent or floatable wastes; wastes from any engine/equipment steam cleaning or chemical degreasing and super chlorinated potable water line flushing. During construction, permittee shall dispose of such materials in a specified and controlled temporary area on-site, physically separated from potential stormwater runoff, with ultimate disposal in accordance with local, state and federal requirements.
- Dewatering of contaminated groundwater, or discharging contaminated soils via surface erosion is prohibited. Dewatering of non-contaminated groundwater requires a National Pollutant Discharge Elimination System Permit from the respective State Regional Water Quality Control Board.
- Graded areas on the permitted area perimeter must drain away from the face of slopes at the conclusion of each working day. Drainage is to be directed toward desilting facilities.
- The permittee and contractor shall be responsible and shall take necessary precautions to prevent public trespass onto areas where impounded water creates a hazardous condition.
- The permittee and contractor shall inspect the erosion control work and insure that the work is in accordance with the approved plans.
- The permittee shall notify all general contractors, subcontractors, material suppliers, lessors, and property owners: that dumping of chemicals into the storm drain system or the watershed is prohibited.
- Equipment and workers for emergency work shall be made available at all times during the rainy season. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of temporary devices when rain is imminent.
- All removable erosion protective devices shall be in place at the end of each working day when the 5-Day Rain Probability Forecast exceeds 40%.
- Sediments from areas disturbed by construction shall be retained on site using an effective combination of erosion and sediment controls to the maximum extent practicable, and stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking, or wind.
- Appropriate BMPs for construction-related materials, wastes, spills or residues shall be implemented and retained on site to minimize transport from the site to streets, drainage facilities, or adjoining property by wind or runoff.

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County
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Title Sheet

A0.1



1 General Requirements

1.1 All work and material shall conform to or exceed the minimum standards and requirements set forth by agencies having authority over any portions of the work, including the State of California Division of Safety, and those codes and standards listed in these drawings and specifications.

1.2 The Contractor and all Sub-Contractors shall possess active California State Contractors Licenses, City Business Licenses, current general liability insurance and workman compensation insurance and shall be in good standing.

1.3 It is the intent and meaning of these drawings and specifications to provide for and secure a first class, workmanlike job of high quality from all subcontractors. The contractor shall ensure that all incidental items necessary for the proper function and complete installation of the finished structures and systems described in these drawings are provided, correctly installed and adjusted.

1.4 The general contractor shall visit the site and review and verify all dimensions, elevations and site conditions prior to starting construction and shall notify the Architect of any discrepancies prior to commencement of construction.

1.5 Written dimensions shall take precedence over scaled dimensions. Drawings are not to be scaled for the purpose of construction. Notes and Details shall take precedence over these general specifications.

1.6 These construction documents represent the design intent of the finished structure. They do not indicate the method of construction. The design, adequacy and safety of erection, bracing, shoring, temporary supports, construction equipment, etc. are the sole responsibility of the contractor and shall not be considered by the Architect or Structural Engineer. The contractor is responsible for the stability of all structures and materials during the course of construction and shall provide all necessary bracing, shoring, temporary supports and construction equipment required, as required, until the project is complete. Observation visits by the Architect and Structural Engineer shall not include inspection or evaluation of bracing, shoring, temporary supports and construction equipment.

1.7 The contractor shall verify the location of all existing utilities, whether shown in the construction drawings or not, and to protect them from damage during the course of construction. The contractor shall be responsible for and shall bear the expense of repair or replacement of all utilities damaged during the course of construction in conjunction with the execution of the work described herein.

1.8 The contractor shall investigate the site prior to and during clearing of earthwork operations for filled excavations or buried structures such as cesspools, cisterns, foundations, or utility pipes or lines, or other items. If any such items are found the architect and structural engineer shall be notified immediately.

1.9 Construction materials shall be spread out if placed on framed floors or roof. Load shall not exceed the design live load per square foot nor cause more than normal deflection of such structure. Adequate shoring and/or bracing shall be provided where structure has not attained design strength.

1.10 All factory or shop built items such as cabinets, custom skylights, window systems, structural and ornamental steel, precast concrete, and other items not mentioned requiring shop drawings shall have shop drawings submitted to the architect for review and approval prior to ordering or fabricating or installing such item.

1.11 Contractor to make no changes in design, materials, details except with permission of the Architect. Items which are not specified on the plans shall be brought to the attention of the architect for review and/or approval if required.

1.12 Contractor to field verify topography and existing pad elevations, finish floor elevations, and ceiling heights prior to commencement of construction. Any discrepancies shall be reported immediately to the Architect.

1.13 If owner supplies any product or service needed for the construction of the residence he is to do so in a timely manner and coordinate delivery of goods and services with the general contractor.

Sample Requirements

1.20 Contractor to provide samples for review and approval by the architect and owner prior to order and installation of any of the following materials:

1.21 Stucco
12" x 12" smooth troweled finish UNO
3 various color samples per each different color proposed, architect to specify colors,

1.22 Paint
3" x 3" painted sample of selected colors
prime finish prior to paint application provide a two-color-coat finish for the sample

1.23 Floors
Provide a min. 6" x 6" sample of each Stone / Tile / Wood / Carpet / Concrete product specified
Additional samples in larger sizes may be required

1.24 Ceilings
Provide a min. 6" x 6" sample of each finish product specified
Additional samples in larger sizes may be required

1.25 Veneers
Provide a min. 6" x 6" sample of each Stone/ Tile veneer product specified
Additional samples in larger sizes may be required

1.26 Windows
Window provider to supply a corner sample of proposed window frame and finish, color, and glass type etc.

1.27 Electrical outlets and switches
Electrical contractor to provide one sample each of the switches, outlets, and dimmers to be installed

1.28 Recessed Light Fixtures
Electrical contractor to provide one sample each of the recessed light fixtures and trims to be installed

1.29 Millwork
Provide a min. 12" x 12" sample of each product specified

1.30 Stone and Solid Surface Countertops
Provide a min. 6" x 6" sample of each product specified

2 Site Work

2.1 For additional information and specifications see civil engineering drawings, "C sheets" as prepared by:
See Title sheet for additional contact information

Civil Engineer: Civilscares Engineering, Inc.
28052 Camino Capistrano, Suite 213
Laguna Niguel, CA 92677
9494648115
will@civilscares.com

2.2 The geotechnical investigation report (soils report) has been prepared by:
See Title sheet for additional contact information

Soils Engineer: GeoFirm
Kevin Trigg
801 Glennevre St, Suite F
Laguna Beach, CA 92651
949 494 2122
ktrigg@geofirm.com

2.3 The soils report is not a part of the construction documents prepared by the Architect and Structural Engineer for this project, but shall be considered a part of the contract document set for this project. In addition to general earthwork, grading, over-excavation, and geotechnical recommendations, the soils report has requirements that are unique to this project. It is the responsibility of the General Contractor to secure a copy of the report from the owner or his agent, and become thoroughly familiar with its requirements and recommendations. It is the responsibility of the General Contractor to secure a copies of the report for use by the Sub-contractors as required.

2.4 The General Contractor and Sub-contractor(s) including the Grading, Foundation (concrete), and Shoring Sub-contractor shall review and coordinate all the requirements and recommendations and summaries of the soils report and its amendments. Any discrepancies between the soils report recommendations and the construction documents shall be brought to the immediate attention of the Architect.

2.5 Existing structures to remain, if any, and adjacent public and private properties shall be adequately protected in place during all demolition and debris removal operations.

2.6 Demolition of existing structures shall include the demolition of related foundations unless noted otherwise.

2.7 All demolition debris shall be shall be removed from the site and transported to a legal dumpsite per applicable municipal and or county codes or requirements.

2.8 The site shall be left in a neat and orderly condition after the completion of demolition and debris removal operations.

2.9 If a soils report has been prepared that soils engineer shall verify that earthwork at the site is in accordance with the recommendations and conclusions set forth in the soils report. All grading, excavation and re-compaction shall be checked and approved by a qualified soils engineer prior to the placement of any concrete to ensure compliance with the requirements of the soils report. A field memo prepared by the Soils Engineer and outlining the findings of the Soils Engineer in this regard shall be maintained on site at the time of inspection and a copy shall be submitted to the architect for record and to local agencies as required.

2.10 Where concrete expansion joints, construction joints and control joints are not indicated on the plans, their location shall be coordinated with the Architect and placed at intervals to divide slabs into max. 400 square feet sections.

2.11 Structural concrete and reinforcing steel specifications shall be as indicated herein under separate sections. See structural drawings "S sheets" for additional information and specifications.

2.12 All imported foreign soil material for fill or backfill shall be approved by the project Soils Engineer prior to placement. The General Contractor shall bear all costs associated with rejected fill material.

2.13 During construction, if unexpected underground utilities, underground water, or other unusual items are discovered, the general contractor shall notify the Architect and the project soils engineer immediately.

2.14 Foundation shall be provided in specified depths into approved native or compacted soil, or bedrock per soils engineer report recommendations. If loose materials exist on site, they shall be removed in accordance with the soils engineer report and recommendations.

2.15 General Contractor to provide finish grading of site which provides proper drainage of site away from building at min. of 1/8" per foot or as specified in accordance with the grading / drainage plan and shall leave site clean of materials and debris.

2.16 Site drains, trench drains, area drains, deck drains, and catch basins shall be provided with grates to prevent the entrance of foreign material or debris into the drainage system. Roof drains may lie into underground system. Pipe fittings shall include only sanitary T's and along 90-degree bends.

2.17 All new utility services shall be installed per utility company requirements and the General Contractor shall obtain all required utility company inspections prior to backfilling.

2.18 Water service where required shall be min. 1" diameter copper pipe from meter to full port ball valve at building with T's and separate shut off for irrigation (location to be coordinated with Architect or per landscape drawings). An appropriate pressure regulator shall be provided where required for excessive water pressure.

2.19 Where connecting to an existing sewer lateral, contractor shall ensure that the connection is secure and the existing lateral is unobstructed.

3 Exterior and Interior Concrete.

3.0 All concrete work shall conform to the American Concrete Institute (ACI) and American Society of Concrete Contractors (ASCC) standards and guidelines.

3.1 All non-structural exterior concrete slabs shall be a min. of 5" thick with #4 deformed bar reinforcement placed at 18" on center each way in the middle third of the slab thickness, and shall be placed over a min. of 2" bed of clean sand. Slabs shall be formed and finished to slope as indicated on plan to within 1/4" of specified elevations.

Exterior slabs shall receive a light "acid washed" finish using Top Cast #3 concrete retarder unless noted otherwise on plans. All exterior flatwork is to slope away from the structure with a minimum slope of 1/4" per foot.

3.2 Exterior and interior concrete slabs to be saw cut per plan to a depth of 1" (one inch). General Contractor to snap out grid for Architect's review + approval prior to saw cutting. Whenever possible, concrete is to be cut the same day as the pour to prevent cracking. Any panels with an excessive amount of cracks are to be replaced with care taken to match adjacent panels for color and finish. Concrete is to be protected in accordance with 3.4 to avoid damage.

3.3 Interior concrete slab to be 5" thick - or as specified in the structural plans - see structural drawings (S sheets) for more info. Finish to be verified with Architect prior to pour. "Acid washed" using Top Cast #3 concrete retarder or polished finish per architect prior to framing. Sample of finish to be submitted to Architect for approval.

3.4 Provide adequate protection of concrete slab surface with gypsum board panels, taped at seams to prevent damage to concrete surface during the remainder of the construction process.

3.5 At the end of the job clean concrete surface with "TSP" cleaner. Interior concrete to be sealed after curing with CRP Clear Glaze (finish per architect). Prepare surfaces and apply product per manufacturer recommendations and specifications.

3.6 Board Formed Concrete or plywood formed concrete where indicated shall be placed as "architectural grade", suitable as exposed finish material and protected in place during construction. General Contractor to provide mock up of formwork for review and approval by Architect.

3.7 Post tension slab - note to General Contractor regarding post-tension slab use caution!

General Contractor shall be responsible for X-raying or otherwise examining the foundation to locate the existing post-tension strands prior to demolition of any kind, trenching for new plumbing or electrical, or the installation of any petotoff epoxy anchor bolts or other hardware. Failure to do so may result in great damage to existing foundation.

It is advised that a minimum of 9 inches of concrete is maintained to either side of each post-tensioned strand.

It is further advised that the General Contractor consult with a Post-tension Slab Engineer or Specialty Consultant to determine the best manner of working in and around the strands, and to determine if they should be relieved of their tension during the demolition and construction process.

4 Masonry

4.1 See structural drawings "S sheets" for additional information and specifications

4.2 Install bricks in accordance with the appropriate standards from the Masonry Institute of America "Masonry Design Manual" and the Brick Institute of America.

4.3 Install concrete masonry units in accordance with standards set forth in the Masonry Institute of America "Masonry Design Manual" and the Brick Institute of America.

4.4 All exposed concrete masonry walls and columns where occurs are to be constructed in a manner that is suitable for "Architectural" masonry. All due care and diligence required to ensure a consistent and quality assembly is the responsibility of the Masonry Contractor. Any installation or erection of exposed masonry not meeting this standard is to be removed and re-installed at the direction of the Owner, Architect, or General Contractor. Blocks of different color, texture, or manufacturer shall not be mixed.

4.5 Stone veneer, where occurs, to be installed in accordance with the appropriate standards. See structural drawings for details and method of attachment to structure. Masonry Contractor to provide a "mock - up" of wall assembly for approval by Architect prior to construction of main structure.

4.6 Exposed concrete masonry units, where occurs, to be assembled in a running bond with flush - tooled joints unless noted otherwise.

4.7 Masonry Fireplace Contractor to verify fireplace design opening size and structural strapping with Architect and Structural Engineer prior to construction

5 Metals

5.1 Structural Steel. See structural drawings "S sheets" for additional information and specifications.

5.2 The Structural Steel Fabricator shall submit shop drawings of all steel elements to the Architect and Structural Engineer for review and approval for conformance to the design intent of the construction documents prior to fabrication and erection.

5.3 All structural field welding shall be continuously inspected by a registered Deputy Inspector provided by the Steel Fabricator.

5.4 All welds shall be ground smooth and primed ready for painting. Dents in the steel shall be filled and sanded ready for painting.

5.5 All exterior exposed structural steel and exterior steel guard rails and assemblies shall be shop metalized and all structural welds to be field galvanized prior to painting.

5.5 Exterior and interior exposed structural steel finish to be Benjamin Moore Iron Clad "Deep Bronze", unless noted otherwise. Architect to verify and approve color and finish. Apply finish per manufacturer recommendations and specifications.

5.6 Plates or embeds behind exterior plaster, where occurs, shall be pre-painted with a rust inhibitor paint before plastering. A Bituthene pad with the paper backing still a fixed at the edges shall be placed between the plate and framing and overlap the building paper on the bottom. The building paper shall overlap the bituthene pad on top. Caulking shall be applied around the perimeter of the plate.

5.7 Steel railing assembly, where occurs, shall have all welds ground smooth and polished to an even finish. Color to be Benjamin Moore Iron Clad "Deep Bronze", unless noted otherwise. Architect to verify and approve color and finish. Apply finish per manufacturer recommendations and specifications.

5.8 Class "A" Standing Seam Metal Roof where occurs to be "Cee-Lock" roof panels by Berrige, installed o/ 2 layers #30 ASTM D 226 asphalt saturated organic felt o/ plywood sheathing, ICC-ES Report ESR-3486. Install per manufacturer recommendations

5.9 All steel should be delivered to the site primed and ready to paint

6 Woods and Plastics

6.1 See structural drawings "S sheets" for additional information and specifications.

6.2 All wood fabrication shall conform to the appropriate standards established in the American Wood Preservers Association Publications (AWPA), the American Wood Preservers Bureau (AWPB) and the Woodworkers Institute of California (WIC) custom grade.

6.3 All wood shall be a minimum of 8" above finish grade per CBC and shall be pressure treated when in contact with concrete or masonry per CBC.

6.4 All plywood sheathing for floors and decks to be glued to joists with an approved adhesive and nailed immediately per structural drawings while adhesive is fresh.

6.5 General Contractor to provide, adequately nail, and verify location of proper backing for deck rails, windows or glazing, fixtures, supports in walls, roofs, and ceilings prior to covering with roofing, drywall, or plaster.

6.6 All deck and roof sheathing to slope to drain by a minimum of 1/4" per foot by method called out in plans to drain.

6.7 Wood flooring to be solid hardwood - no veneer or laminates unless noted otherwise. Species and finish per Architect. General Contractor shall provide sample for approval prior to installation.

6.8 Install proper backing for all finish items and accessories. Install all bath accessories including: mirrors, towel bars, grab bars, tissue dispensers, coat hooks, trash receptacles, etc. Install all finish hardware including: latches, locks, closers, hinges, weather stripping, cabinet pulls, glides, etc. Install all wood base, handrails, casing, trim, moldings, paneling, etc. as described on drawings.

6.9 All fasteners in architectural woodwork shall be countersunk and plugged or filled to match surrounding finish surfaces unless noted otherwise.

6.10 All installed architectural wood fabrications shall be clean and neat and free of tooling marks, scratches and other defacements of visible finish surfaces.

6.11 A minimum of (2) sets of shopdrawings for all millwork shall be provided to the architect for review and approval prior to fabrication and installation of cabinetry. The General Contractor shall field verify all dimensions for millwork prior to the development of shop drawings.

6.12 A finished sample of all proposed wood species and finishes shall be provided to Architect for review and approval prior to fabrication of millwork.

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

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- 10/30/2020 - Orange County

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Architectural Specifications



7 Thermal and Moisture Protection

- 7.1 "Bituthene" where called out, shown in plans, or referred to in these specifications shall be Bituthene Ice and Water Shield waterproofing by Grace Construction Products, W.R. Grace & Co.
- 7.2 Waterproofing system for retaining walls shall be a Mira drain composite system over Itesdri waterproof membrane over Miradri mastic and Miradri primer as recommended by soils report, grading and drainage plan, and shown in retaining wall details. All products by Mirafi moisture protection company of Norcross, Georgia (800) 234-0484. Installation to be under constant supervision of a Mirafi certified inspector and installed by a certified installer per manufacturer specifications. Contact Ruta Bandziulis Engineering Business Manager - Southwest | TenCate Geosynthetics. 562-480-7948.
- 7.3 Sub-drain at retaining walls to be Mirafi "Quick Drain" drain mat and discharge manifold. Installation to be under constant supervision by a Mirafi certified inspector and installed by a certified installer per manufacturer specifications. Contact Ruta Bandziulis Engineering Business Manager - Southwest | TenCate Geosynthetics. 562-480-7948.
- 7.4 Waterproofing at slab on grade to be Mirafi "Mirclay" bentonite pad over "Mira drain 6000x" drain mat with fabric side down. Installation to be by Mirafi certified installer and inspected by Mirafi certified inspector. Contact Ruta Bandziulis Engineering Business Manager - Southwest | TenCate Geosynthetics. 562-480-7948.
- 7.5 Waterproofing at horizontal deck surfaces to be covered with stone or tile shall be Mirafi "Miradri 200x" fabric over "Miradri 860" membrane (UL 790). Installation to be by Mirafi certified installer and inspected by Mirafi certified inspector. Contact Ruta Bandziulis Engineering Business Manager - Southwest | TenCate Geosynthetics. 562-480-7948.
- 7.6 Waterproofing at horizontal deck surfaces not to be covered with stone or tile shall be "Weather Deck" walking surface by Mer-Ko Products. Installation shall be by Merko certified installer and inspected by Merko certified inspector. Contact WICR, Inc. @ 888-429-2909. Color per Architect.
- 7.7 Metal flashing where indicated on plans shall be minimum 16# copper flashing. All seams to be properly soldered.
- 7.8 15 lbs. Fiberglass roofing paper to be used as underlayment at the roof. "Moistop" shall be used as an underlayment for all other conditions.
- 7.9 Sealants and caulking where indicated on plans or referred to in these specifications shall be "Vulkem" one part polyurethane manufactured by Maneco International, Cleveland, Ohio.
- 7.10 See Title 24 sheet for required R-values of exterior walls, floors, and ceilings. All interior wall partitions shall receive R-11 batt insulation. All interior floors shall receive R-19 batt insulation.
- 7.11 Skylights to be curb or ledger mounted per plan and made of extruded aluminum. Color to match window frames. Architect to approve sample for color and finish. All base extrusions to have condensation gutters and integral weep drainage system. General Contractor to provide skylight shop drawings to architect for review and approval prior to ordering.
- 7.12 All protrusions through exterior building finish shall be flashed with Bituthene pad around the perimeter of the protrusion. The pad shall lap the lath paper on the bottom and the lath paper shall lap the sides and top and be affixed to the Bituthene on all sides.
- 7.13 Built-up flat roofs, and metal roofing underlayment for slopes of 3:12 and less to be 2-ply fiberglass, Class "A" built-up roof comprised of 3 layers 30# sheet felt. Minimum 6" overlap toward eaves with hot asphalt between layers and followed by hot asphalt finish layer - per roofing product manufacturer's spec. GenFlex EZ TPO by Genflex Single-Ply Roofing Membrane - ESR-2631 (or equal).
- 7.14 Kalwall skylight, where / if occurs, to be provided by Carmel Architectural Sales, 1173 N. Armando St., Anaheim, CA 92806-2609, (714) 630-7221 contact: Dave Traino. Architect to approve frame color and shop drawings prior to ordering. Install skylight, flashings and attachments per manufacturer's specifications.
- 7.15 Waterproofing at exterior plaster shall be 2 layers grade "D", or better, tar impregnated building paper or other approved weather resistive material such as 1 layer Tyvek "Home Wrap" over 1 layer Tyvek "Stucco Wrap", or 2 layers Tyvek "Home Wrap". Install per manufacturer's specifications.
- 7.16 All protrusions through the building paper or Tyvek are to be caulked with Vulkem and flashed with Bituthene or other manufacturer approved sealant and tape so as to provide a moisture barrier at the protrusion.
- 7.17 All parapets shall be wrapped with 2 layers of Bituthene. Flat surfaces are to be covered with Bituthene waterproofing under finish material.
- 7.18 "Shingle" siding, if called out on the plans, to be fiber cement HardieShingle as manufactured by James Hardie Siding Products - U.N.O. ESR-2290. Install over approved waterproofing and substrate per manufacturer's specifications and recommendations. Contact James Hardie Siding Products directly for further information:

James Hardie
6300 La Alameda, Suite 250
Mission Viejo, California 92691
Tel: 1-888 J-HARDIE (1-888 542-7343)
- 7.19 "Board and Batten" siding if called out on the plans to be fiber cement HardiePanel vertical siding as manufactured by James Hardie Siding Products - U.N.O. ESR-2290. Install over approved waterproofing and substrate per manufacturer's specifications and recommendations. Contact James Hardie Siding Products directly for further information:

James Hardie
6300 La Alameda, Suite 250
Mission Viejo, California 92691
Tel: 1-888 J-HARDIE (1-888 542-7343)

- 7.20 "Horizontal Siding" as called out on the plans to be fiber cement HardiePanel horizontal siding as manufactured by James Hardie Siding Products - U.N.O. Install over approved waterproofing and substrate per manufacturer's specifications and recommendations. Contact James Hardie Siding Products directly for further information:

James Hardie
6300 La Alameda, Suite 250
Mission Viejo, California 92691
Tel: 1-888 J-HARDIE (1-888 542-7343)
- 7.21 "Comp. Shingle Roof" to be GAF Timberline Ultra HD in charcoal U.N.O. ESR-1475 over 2 layers GAF "Versa Shield" ESR-2053

8 Doors And Windows

- 8.1 Door and Window frame assemblies shall meet or exceed quality standards set forth in by: the Woodwork Institute of California or the National Wood Window and Door Association and shall be delivered free of defects in material and workmanship.
- 8.2 All fire rated door assemblies indicated on drawings shall bear appropriate labeling indicating their fire resistance as determined by the Underwriter's Laboratories. Fire rated doors shall be provided with smoke gaskets at head and jams and an approved seal at the threshold.
- 8.3 General Contractor shall protect all doors and windows from damage after installation until construction is complete.
- 8.4 Exterior access doors and panels are to be weather tight.
- 8.5 All access doors and panels located in fire rated walls, ceilings and partitions where permitted shall be of appropriate fire resistance for application and shall bear appropriate labeling indicating their fire resistance as determined by the Underwriter's Laboratories.
- 8.6 All access doors and panels shall be placed and sized to allow for adequate working space to service items being accessed. General Contractor shall coordinate location of all access doors and panels with Architect prior to installation.
- 8.7 All door, window and skylight frames, material, size, operation, rating, performance and hardware shall be as indicated in the door, window, and skylight schedules respectively. General Contractor to compare plans and schedules and notify Architect of discrepancies prior to ordering material.
- 8.8 Door and window assemblies and hardware packages shall be complete in every detail including all incidental items required for proper fit, finish and function. Door hardware to be specified & approved by Architect - install per manufacturer specifications.
- 8.9 All aluminum door and window assemblies to be Fleetwood products unless noted otherwise. Aluminum window frame, where occurs, finish to be "Dark Bronze Anodized" unless noted otherwise.
- 8.9.1 All aluminum clad door and window assemblies to be Jeld-Wen products unless noted otherwise. Aluminum window frame, where occurs, finish to be "Dark Bronze Anodized" unless noted otherwise. Wood window frame, where occurs, to be stain grade Walnut or equal, unless noted otherwise.
- 8.10 All door and window assemblies to be installed per manufacturer recommendations and specifications.
- 8.11 All exterior door and window assemblies shall be installed for a watertight condition including proper caulking of joints, screw holes and weather stripping.
- 8.12 New glazing style and color to match existing unless noted otherwise - verify with Architect.
- 8.13 All windows to be flashed with "Moist Stop" and caulked around entire perimeter with "Vulkem".
- 8.14 All window and door frames are to sit in a 3 sided copper sill pan - see door and window details for further information.
- 8.15 Isolate all metal door and window frames from dissimilar metals with approved gasket material to prevent electrolysis.
- 8.16 Aluminum break metal (finish and color to match window frames) to be provided per elevations and details.
- 8.17 For all field glazed window systems (storefront, curtain wall, multiple frame & sash), general contractor shall provide Architect with shop drawings and calculations, including glass strength and thickness. Storefront details shall include waterproofing details, electrolysis prevention, and thermal expansion control. No installation of field glazed window systems shall commence without Architect's review and approval of shop drawings.
- 8.18 For window systems fabricated from storefront components, General Contractor shall have Consultant provide shop drawings and calculations for window system which include the following design criteria:
A) Calculations for glass strength and deflection under wind load.
B) Storefront design to consider thermal expansion and provide relief to minimize related expansion sounds.
C) Storefront to structure interface details indicating how to flash windows from moisture intrusion.
D) Glass type with UV and shading considerations.
E) All sliding or operating components to be in accordance with manufacturer's specifications, and must be approved for "wet" location use as intended.
F) Separations of dissimilar materials to prevent electrolysis, for example, aluminum to steel.

9 Finishes

- 9.1 Gypsum wallboard at walls and ceilings to be 5/8" Type "X" unless noted otherwise where indicated on plans shall have a "smooth" finish.
- 9.2 All gypsum wall board shall be installed in accordance with the provisions of the state and local codes. Reference the Gypsum Board Association publication GA-216 "Recommended Specifications for Application and Finish of Gypsum Board" for clarification as needed.
- 9.3 Install gypsum board only over dry framing and insulation. If weather conditions are such that rain or other moisture has caused the framing to become saturated, general contractor shall allow ample time for the wood to dry. See specification 17.6 for more info. If batt insulation becomes damp due to rain or other moisture it shall be replaced prior to installation of gypsum board.
- 9.4 If mold or moisture related problems should occur due to the installation of gypsum board over damp framing or insulation, general contractor to be held solely responsible for the removal and repair of damaged areas.
- 9.5 Dye added to touch-up mud to be kept light enough not to show through paint color.
- 9.6 All corners to be square & plum with metal corner bead.
- 9.7 Shadow base metal to be provided at all hard surface floors and properly attached at the correct height to maintain even reveal. See details for further info.
- 9.8 Exterior stucco, where indicated on the plans shall have a smooth steel trowel finish unless noted otherwise. 12"x12" samples of color to be submitted to architect for review and approval.
- 9.9 All stucco and plaster shall conform to the CBC Ch. 25
- 9.10 Contractor to take all provisions necessary to eliminate cracking. Proper time is to be allowed after brown coat application for curing and for any cracks to occur and be patched before the finish coat is applied. Contractor to water scratch and brown coat daily between applications and before application of color coat.
- 9.11 All expansion joints, vent screeds and plaster milcor to be plastic "Vinyl Tech" by Plastic Components Inc., of Florida unless noted otherwise. Paint to match stucco color.
- 9.12 Expansion joints to be applied per plans with a level and string line. If no expansion joints are shown, contractor to notify architect for specific locations prior to plastering. Layout of expansion joints to be approved by architect before scratch coat is applied. The brown coat is to be tooled into the expansion joint to prevent separation of the color coat from the expansion joint. All outside corner meetings of the expansion joints are to be mitered, and all perpendicular meetings are to be kept flat and without gaps. All corner aid is to be applied straight and level. Panels to be rodged to keep walls as flat as possible. All expansion joints are to be left clean and free of plaster.
- 9.13 All exterior windows, railings, trim, and fixtures are to be masked off with plastic and red vinyl tape before any plastering is done. No tapes that leave a residue are to be used and any such residue shall be removed without damaging the effected surface. Where interior plastering is to be done, blue painter's masking tape is to be used. Interior floors or exterior flatwork in proximity to plastering are to be protected with plastic and roofing felt. All masking is to be promptly removed after plastering is complete.
- 9.14 Exterior stucco, concrete walls, and flatwork to be sealed with "Rainshield" by Omega Products, Ph# 714-556-3830. Install per manufacturer's specs. Allow 14 days cure time of stucco before application of product.
- 9.15 Counter top finishes and cabinet material to be selected by owner. Submit shop drawings and samples for all millwork and countertops to Architect for review and approval prior to installation and or fabrication.
- 9.16 Paint - Unless Otherwise Noted or specified shall be as follows:

Gypsum wallboard ceilings:
1st coat sprayed: prep coat plus
2nd coat sprayed: Walltone w 420 as a sealer
3rd coat sprayed: Behr Ultra Pure White 1850
4th coat sprayed: Behr Ultra Pure White 1850

Walls:
1st coat sprayed: prep coat plus
2nd coat sprayed: Walltone w 420 as a sealer
3rd coat sprayed: Behr Ultra Pure White PR-W15
4th coat rolled or sprayed / back-rolled: Behr Ultra Pure White PR-W15

Interior doors and jams if painted:
1st coat sprayed: Unikoat w 707
2nd coat sprayed: split coat Walltone / Behr Ultra Pure White PR-W15
3rd coat sprayed: Behr Ultra Pure White PR-W15 Satin Enamel

Exterior jams if painted:
1st coat sprayed: E-Z Prime w 708
2nd coat sprayed: Evershield w 701
3rd coat sprayed: Evershield w 701
4th coat sprayed: Optional color coat, color per architect

Exterior metal doors:
1st coat sprayed: corrobarr 43-5
2nd coat sprayed: Evershield w 701
3rd coat sprayed: Evershield w 701
4th coat sprayed: Optional color coat, color per architect

Final interior wall color, U.N.O. to be Benjamin Moore as selected by architect.

Exposed structural or decorative steel shall be primed with 2 part epoxy primer and painted with 2 coats: Benjamin Moore - Iron Clad. Color to be "Deep Bronze".

- 9.17 Protect all pre finished surfaces, lawns, plants, and adjacent surfaces against paint and damage. Furnish sufficient drop cloths and plastic covers to prevent over spray and splattering from damaging surfaces not being painted. Masking tape used shall not leave a residue on protected surfaces.
- 9.18 The number of coats specified is the minimum that shall be applied. Apply additional coats when undercoats, stains, or other conditions show through final paint coat until paint film is of uniform finish, color and appearance. Finish exterior doors on top, bottom, and edges same as faces. All protrusions from the exterior plaster such as stack vents or louvers shall be primed and painted to match adjacent plaster. Architect to approve sample for color and finish. Painting contractor to provide touch-up and refinishing to paint as required.

9 Finishes (cont.)

- 9.18 The number of coats specified is the minimum that shall be applied. Apply additional coats when undercoats, stains, or other conditions show through final paint coat until paint film is of uniform finish, color and appearance. Finish exterior doors on top, bottom, and edges same as faces. All protrusions from the exterior plaster such as stack vents or louvers shall be primed and painted to match adjacent plaster. Architect to approve sample for color and finish. Painting contractor to provide touch-up and refinishing to paint as required.
- 9.19 Shower compartments and walls above bathtubs with shower heads installed shall be finished with a smooth, non-absorbent surface to a height of not less than 72" above the floor per CRC R307.2. General Contractor to verify material and height with Architect in field prior to installation.
- 9.20 Contractor to provide waterproofing, uncoupling membrane, movement joints, and termination / transition profiles at all tile installations. Verify location and type with Architect prior to installation.
- 9.21 Provide Schluter-DITRA or DITRA-XL uncoupling and waterproofing membrane, or equal, at all tile floors. Install per manufacturer specifications and recommendations.
- 9.22 Provide Schluter-KERDI waterproofing membrane at all tile wall installations. Install per manufacturer specifications and recommendations.
- 9.23 Provide Schluter Schiene edge profile at all tile terminations and material transitions. Size per tile, verify finish with Architect and owner prior to purchase or installation.
- 9.24 Provide DILEX-EZ movement joint by Schluter Systems or equal as required per TCNA standards. Size per tile selection, color per owner, confirm location and profile with Architect in field prior to installation. Install per manufacturer specifications and recommendations.

Revisions

- 12/10/2020 County PC rev 1
03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County

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Architectural Specifications

A0.3

These drawings and specifications, and the designs and ideas contained herein are the property of ALA and shall not be duplicated, altered or utilized in any way by anyone other than the "OWNER" whose name appears in the title block and with whom ALA is contracted. Said contract is a license for the OWNER to use these Instruments of Service solely for completing the Project scope defined in the contract between ALA and the OWNER.

ALA reserves all rights including the copyright. Any unauthorized duplication or alteration of these drawings and specifications is a violation of said copyright and is subject to full civil liabilities and penalties. In the case of such unauthorized use ALA shall be held harmless and approved of all liability related to the use of these drawings and specifications.

Written dimensions shall take preference over scaled dimensions and shall be verified in the field. Any discrepancy or error shall be brought to the attention of the Architect prior to the commencement of any work.



10 Specialties

- 10.1 Fan systems exhausting air from the building to the outside shall be provided with closable damper to maintain constant temperature inside the building.
- 10.2 Heating registers and grills to be "Metalaire" series 2000 adjustable linear bar diffusers. Unless noted otherwise finish to be satin aluminum anodized. Substitutions shall be considered and must be approved by Architect prior to installation.
- 10.3 All chimneys to have spark arrestors which permit the passage of objects no larger than 1/2" nor obstruct the passage of objects smaller than 3/8".
- 10.4 Provide metal address numbers on street side elevation - 4 inches minimum, or per local code and CBC requirements for visibility. Submit sample to Architect for approval prior to ordering or installation.

11 Equipment

- 11.1 See Mechanical, Electrical, and Plumbing drawings "M, E, and P sheets" for additional information and specifications.

12 Furnishings

- 12.1 No specifications.

13 Special Construction

- 13.1 Media room soffit / ceiling to be sound proofing system by SoundAway or equal. See application SACJ12 or SACJ14 consisting of sound proofing insulation between framing members, sound isolation clips or sound isolation tape applied to underside of framing members, 2 layers of sound proofing drywall with green glue / sound proofing adhesive between, and acoustical caulk sealant at edges of ceiling. See www.soundaway.com for additional information. Verify system with Architect and Owner prior to installation.
- 13.2 Provide mass loaded vinyl barrier (MLV) underlayment at all wood floors.

14 Conveying systems

- 14.1 Elevators, where occurs, U.N.O. on plans, to be "Cemcolift" residential elevator by: Inclinator Co. of California
8116-A Byron Road, Whittier, CA 90606
phone: 800-201-1212. attn. Ron Woodward
- 14.2 General Contractor to provide shop drawings detailing elevator cab dimensions, finishes, and specifications to Architect for review and approval prior to ordering.
- 14.3 Dumbwaiter, where occurs to be "Home Wailer 120" residential dumbwaiter by Inclinator Co. of California
8116-A Byron Road, Whittier, CA 90606
phone: 800-201-1212. attn. Ron Woodward
- 14.4 General Contractor to provide shop drawings detailing elevator cab dimensions, finishes, and specifications to Architect for review and approval prior to ordering.

15 Mechanical & Plumbing

- 15.1 See Mechanical drawings (either M sheets for engineer's mechanical plans, or AE sheets for architectural ducting and venting plan) for additional specifications.
- 15.2 All work shall be in accordance with all codes, rules and regulations of the governing agencies and most recent adopted codes.
- 15.3 See T-24 sheet for specifications, size, and make of FAU, AC units, and water heater.
- 15.4 Plumbing fixtures and fittings shall be selected by Owner and approved by the Architect prior to ordering. Submit cut sheets of fixtures to Architect for approval. Plumbing fixtures for public facilities shall meet California T-24 accessibility standards and federal ADA requirements. Toilet fixtures to be low flush per current CRC.
- 15.5 Roof drains shall be Thunderbird Copper roof drains with raised overflow, I.A.P.M.O. #2441. Roof drains are to exit the building below grade and be tied into the site drainage system. Overflows are to exit the building 6" above grade and outlet onto a splash block or other dissipating surface. All piping penetrating exterior walls to be properly caulked with "Vulkem".
- 15.6 Plumbing vents shall not be located closer than 10 feet to any property line or operable skylight.
- 15.7 In the case of a tanked water heater a hot water recirculating system with pump shall be installed and properly insulated when below the slab.
- 15.8 Tanked water heaters shall be properly seismically strapped. See plumbing drawings ("P" sheets) for specifications and strap details.
- 15.9 Temperature and pressure relief valve shall be installed on water heater.
- 15.10 Two 3/4" water lines shall be installed from the water heater to the most advantageous location of future solar water heating panels. The lines shall be capped and flashed at the roof penetration and insulated when in un-conditioned space.
- 15.11 Fan systems exhausting air from the building to the outside shall be provided with closable damper to maintain constant temperature inside the building.
- 15.12 Heating registers and grills to be "Metalaire" series 2000 adjustable linear bar diffusers. Unless noted otherwise finish to be satin aluminum anodized. Substitutions shall be considered and must be approved by architect prior to installation.

16 Electrical

- 16.1 See Electrical drawings (either E sheets for engineer's electrical plans, or A7 sheets for architectural lighting and outlet plan) for additional specifications.
- 16.2 All work shall be in accordance with all most recent adopted codes, rules and regulations of the governing agencies.
- 16.3 All electrical equipment installed outdoors and exposed to weather shall be weather proof.
- 16.4 Prior to running wire to fixtures and outlets, electrical contractor to notify Architect who shall field verify and adjust, if necessary, all lighting fixtures, floor outlets, lighted mirrors, and recessed lighting prior to final installation.
- 16.5 All switch and outlet locations to be field verified by Architect. Color of switch and outlet plates to match adjacent wall color unless noted otherwise.
- 16.6 Lighting and electrical control system (if indicated on the A7 sheets - architectural electrical plans) to be "Home Works" as manufactured by Lutron Electronics Company, (949) 249-8020. System to be fully dimmable and controlled by "Graphic Eye" controllers and key pads. All timed circuits are to be tied to an astronomical time clock. Electrical contractor to verify all circuits with Architect.
- 16.7 All switches and outlets to be by "Legrand" u.n.o.

17 California Green Building Standards

See 2019 California Green Building Standards Code on Sheet A0.5 + A0.6

Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County

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Architectural Specifications

A0.4

AIA
California

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

July 14, 2020

Mike and Evelyn Wong
28 Brookhollow
Irvine, California 92602

Subject: **Geotechnical Update Report for Revised Design**
Proposed Single-Family Residence
1901 Park Skyline Road
Santa Ana, California

Reference: Geofirm, 2019, "Preliminary Geotechnical Investigation, Proposed Single-Family Residence, 1901 Skyline Road, Santa Ana, California", Project No. 72472-00, dated November 19.

INTRODUCTION

This report presents select updated geotechnical criteria for the design of proposed site improvement in accordance with the 2019 California Building Code. Recommendations for this update report are based on the revised architectural plans prepared by Anders Lasater Architects and the results of our previous geotechnical investigation (referenced). The conclusions and recommendations provided in the referenced report remain valid and appropriate, except as revised herein.

Proposed Development

Based on a review of the revised architectural plans prepared by Anders Lasater Architects, the proposed development includes a new single-story residence with roof deck. Proposed exterior improvements include construction of landscape retaining walls to accommodate proposed landscape grades along front and sides of the residence.

The proposed improvements may utilize conventional foundations constructed in new engineered fill locally deepened to an adequate slope setback where necessary. Caisson foundations supporting structural slabs may alternatively be utilized as presented in the referenced report.

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Report No: 20-8740

July 14, 2020

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UPDATED RECOMMENDATIONS

Remedial Grading

Where non-bedrock soils are encountered, remedial grading at least 5'-feet deep is recommended below design pad elevations to expose competent weathered bedrock prior to backfill and recompaction. Locally deeper removals may be necessary pending field review by the geologist. Bedrock may be locally exposed at design pad grades and should be over-excavated at least 3 feet to minimize potential differential settlement. Over-excavation, moisture, conditioning and re-compaction should be observed and approved in writing by a representative of this firm.

Remedial grading may be omitted provided improvements utilize structural slabs supported on deep foundation systems (caissons) constructed in bedrock as recommended in the referenced report.

Shoring Design

Shoring should be designed for areas where slope layback is unfeasible. It is anticipated that shoring may be integrated into permanent retaining wall construction. Shoring should consider topographic and structural surcharges of the adjacent properties. Shoring design should also consider the depth of remedial grading, which is recommended to extend 5 feet deep below design pad grades.

Temporary and permanent cantilever shoring may be designed using an equivalent fluid pressure of 45 and 60 pounds per cubic foot, respectively. Shoring with sloping backfill up to 2:1 (horizontal: vertical) should add an additional 15 pounds per cubic foot to the pressure above. Lateral resistance may be computed utilizing 200 pounds per cubic foot equivalent fluid density for engineered fill and 400 pounds per cubic foot for competent bedrock, acting on a tributary area of twice the caisson diameter.

Vibratory techniques for placement of piles or steel sheet lagging should not be utilized, as damage to adjoining property improvements may otherwise occur. It is the contractor's responsibility to develop appropriate means and methods of construction to avoid damage to adjacent properties. We also suggest that ground vibration monitoring be performed during construction due to the close proximity of adjacent improvements and the relatively high cost of real estate in the area.

If temporary shoring elements are to be removed, the builder and homeowner must be aware that such removal could result in settlement and possible damage to improvements on the adjacent property. The adjacent property owners must be advised of the risks and the builder should provide arrangements to repair any possible damages.

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The contractor should also recognize the risk of leaving voids during removal of shoring elements. Lagging plates and piles should therefore be removed slowly and the voids created should be filled immediately. Consideration should be given to continuously injecting grout at the base of the piles and plates as they are being removed to fill the resultant voids.

Proper installation of shoring is the responsibility of the contractor. The adjacent property owners must be advised of the risks and the owner and builder should provide arrangements to repair any possible damages.

Conventional Foundation System

Conventional foundations should be designed in accordance with the 2019 California Building Code. Conventional spread footings should be embedded into recompacted engineered fill. Footings founded in fill may be designed for an allowable bearing value of 2,000 pounds per square foot, with a minimum width of 18-inches and a minimum embedment of 18-inches below the lowest adjacent grade. The design value may be increased one-third for short duration wind or seismic loading.

Lateral loads may be resisted by passive pressure forces and by friction acting on the bottom of footings. The allowable passive pressure forces may be computed in fill using an equivalent fluid density of 150 pounds per cubic foot, up to a maximum of 1,500 pounds per square foot. A coefficient of friction of 0.25 may be used in computing the frictional resistance. Friction resistance and passive pressure may be combined without reduction.

Slabs should be underlain by 4 inches of ½ to ¾ inch open graded gravel. Slab underlayment is deferred to the project architect; however, in accordance with the American Concrete Institute, we suggest that slabs be underlain by a 15-mil thick vapor retarder barrier (Stego Wrap or equivalent) placed over the gravel in accordance with the requirements of ASTM E-1745 and E-1643.

Pre-moistening of slab subgrade soils is required prior to construction of slabs.

Spa

Earth pressure forces acting on the spa walls should be designed using an equivalent fluid density of 60 pounds per cubic foot for onsite materials. These recommendations may be modified pending verification of soil conditions during construction. Surcharge loads, both topographic and structural, should be considered by the pool engineer.

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Slope Setback

The bottom of new foundation elements supporting near or on-slope construction should be setback a minimum lateral distance of 10 feet from the nearest slope face.

Seismic Design

Based on the geotechnical data and site parameters, the following is provided by the USGS (ASCE 7-16) to satisfy the 2019 CBC design criteria:

Table 1. Site and Seismic Design Criteria	
Design Parameters	Recommended Values
Site Class	C
Site Longitude (degrees)	-117.7849
Site Latitude (degrees)	33.7557
Ss (g) B	1.327
S1 (g) B	0.473
SMs (g) C	1.593
SM1 (g) C	0.709
SDs (g) C	1.062
SD1 (g) C	0.473
Fa	1.2
Fv	1.5
Seismic Design Category	D
PG-3a	0.6

The structural engineer should review the above parameters and the California Building Code to evaluate the seismic design.

Seismic Design of Retaining Walls

The site is classified as being in Seismic Design Category D (Type II occupancy, SDs ≥ 0.5g, SD1 ≥ 0.2g). Seismic design of retaining walls over 6 feet high may be based on the Mononobe-Okabe method, as updated by Atik and Sitar (2010), using an additional dynamic load of 19 pounds per cubic foot equivalent fluid pressure, acting at 1/3 H above the base of the wall. Final design requirements should be determined by the structural engineer.

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Thank you for this opportunity to be of continued service. If you have any questions, please contact this office.

Respectfully submitted,

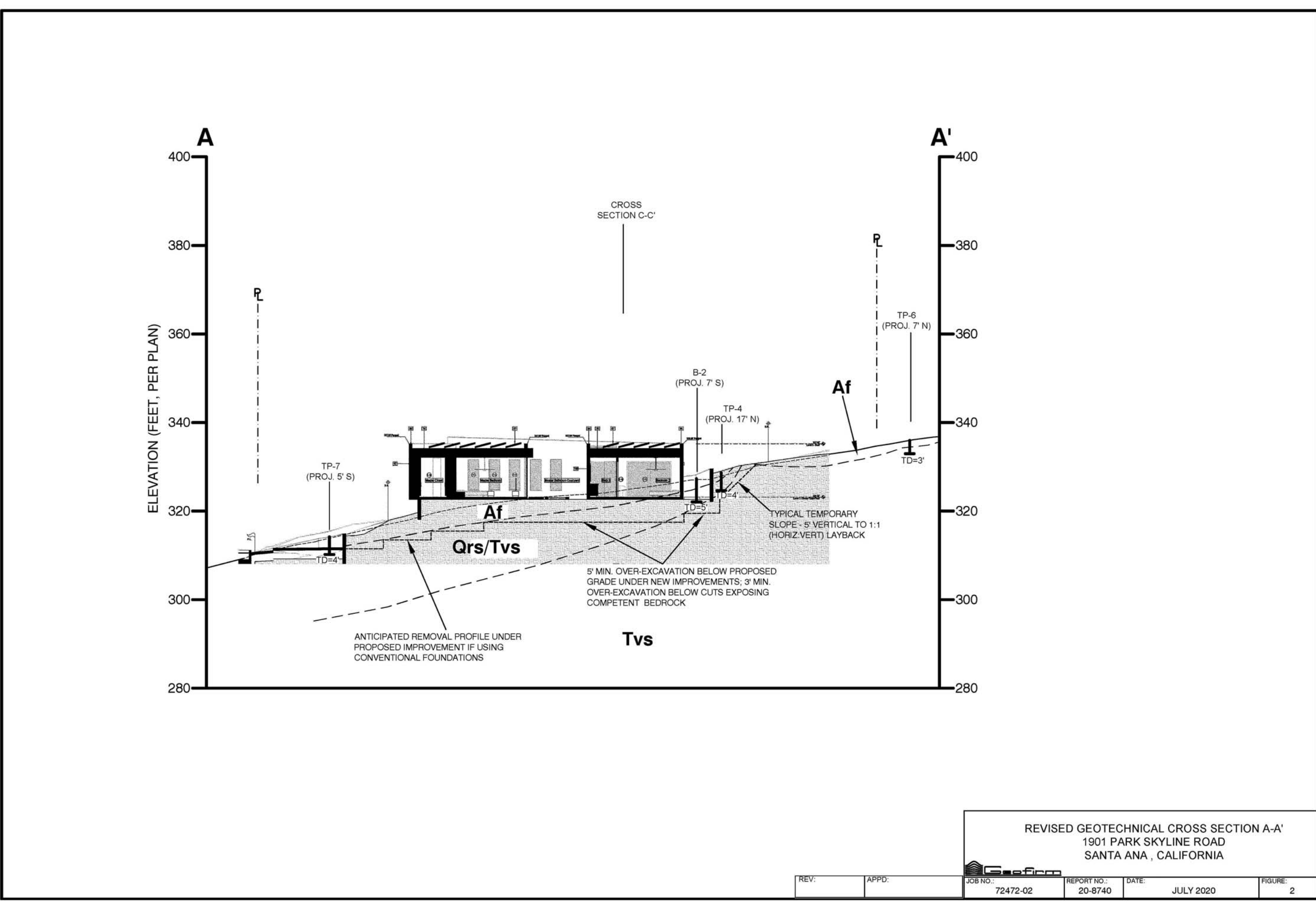
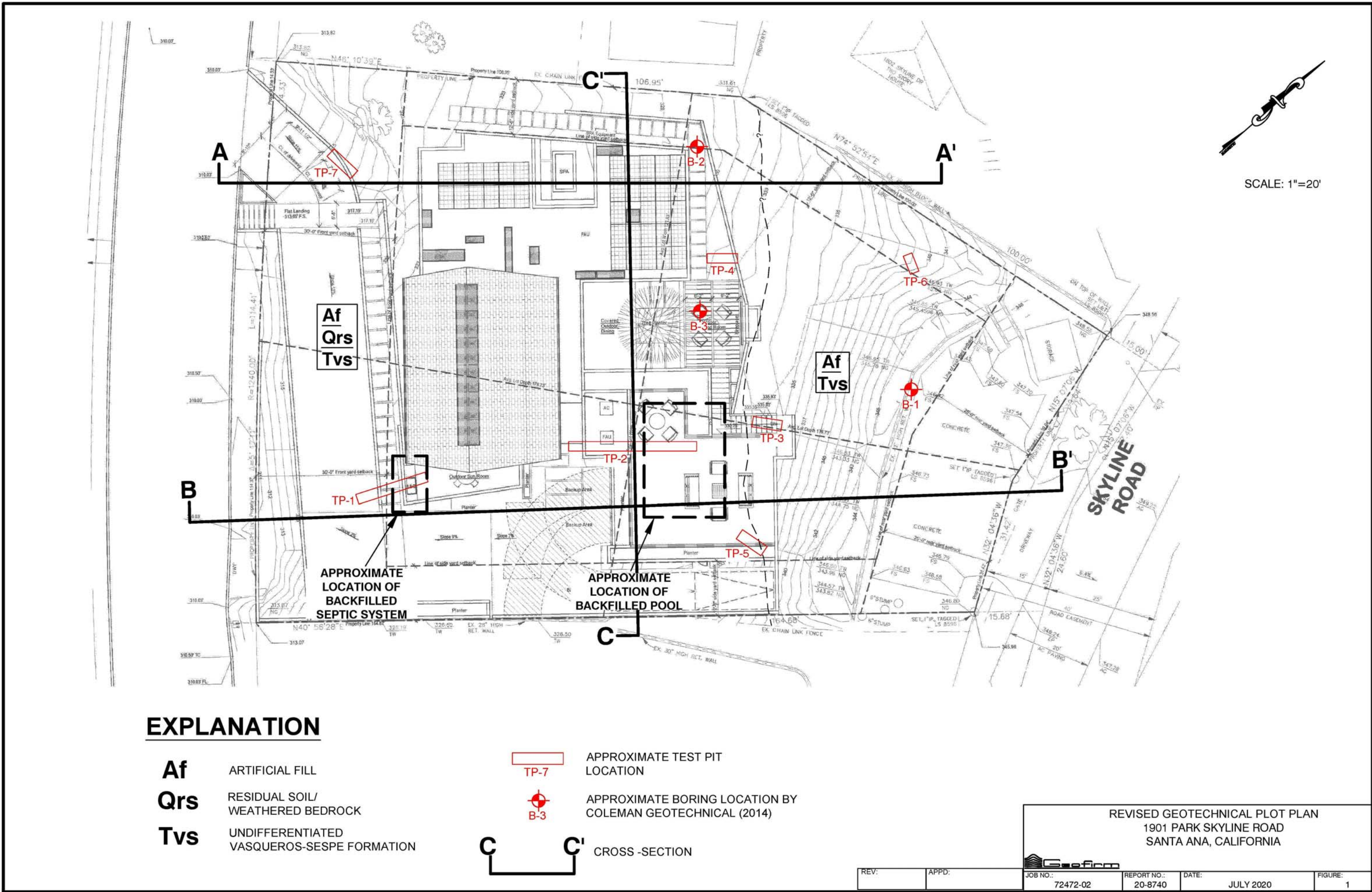
GEOTIRM

Erik R. Hilde, P.G., E.G. 2300
Associate Engineering Geologist
Zi Wang, R.C.E. 80199
Senior Engineer
Date Signed: 7/14/2020

ERH/ZW: np

Distribution: Addressee via email

Attachments: Figure 1 - Revised Geotechnical Plot Plan
Figure 2 - Revised Geotechnical Cross Section A-A'
Figure 3 - Revised Geotechnical Cross Section B-B'
Figure 4 - Revised Geotechnical Cross Section C-C'



Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

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- 10/30/2020 - Orange County
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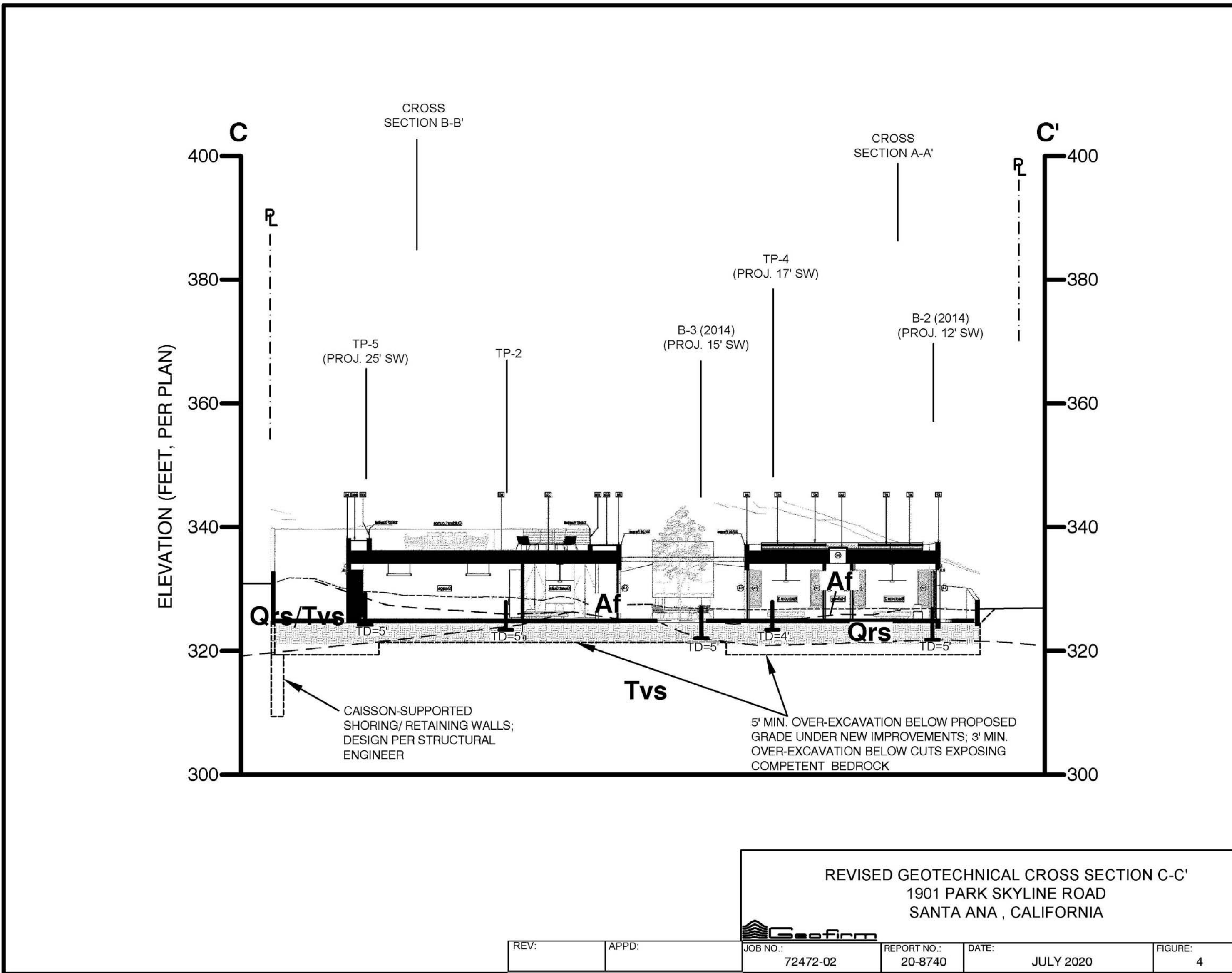
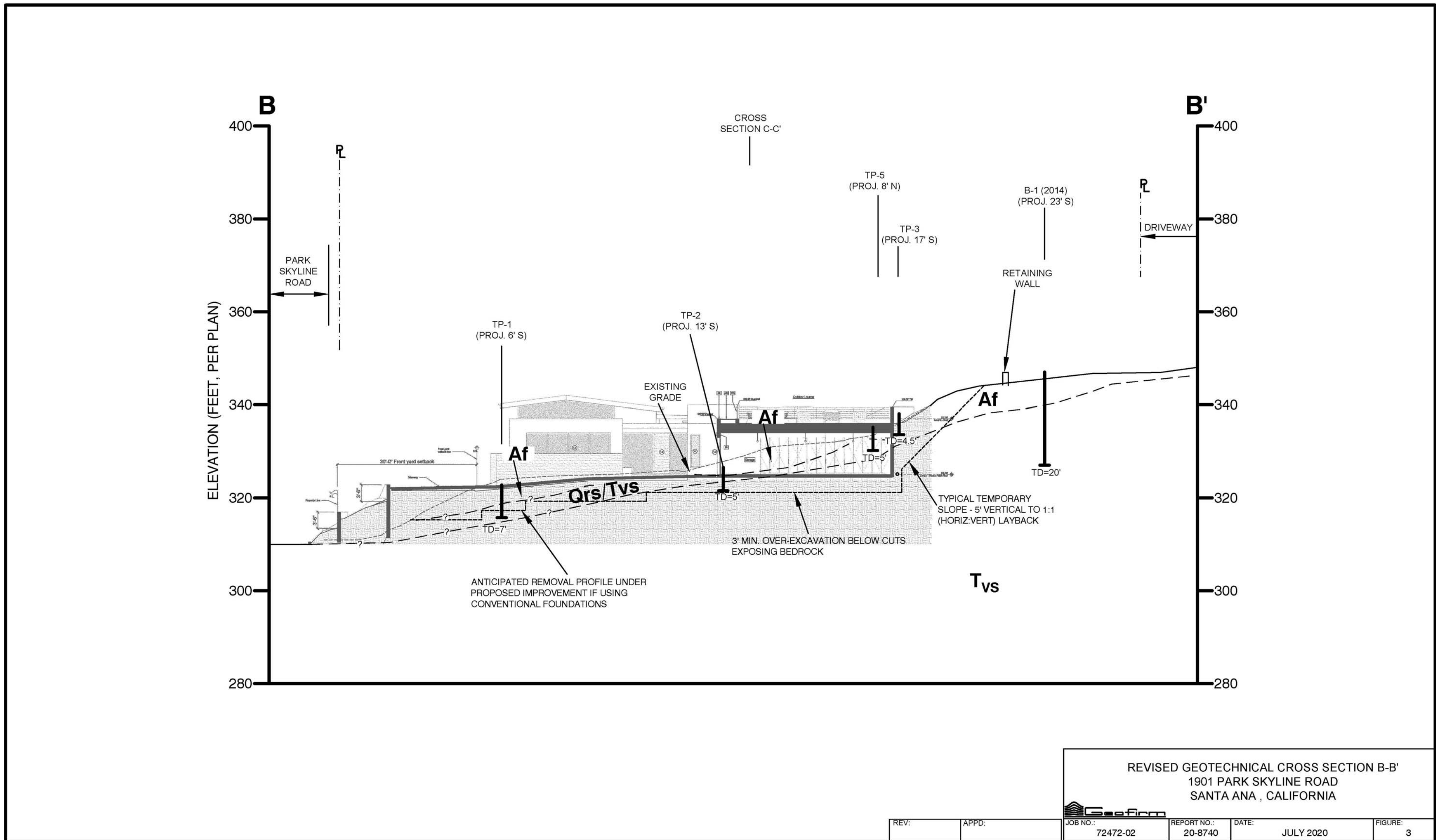
Soil Report -
Recommendation

A0.7

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Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

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Soil Report -
Recommendation

A0.8

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Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- ☐ A 12/10/2020 County PC rev
- ☐ B 03/26/2020 County PC rev
- ☐ C
- ☐ D
- ☐ E

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- ① 10/30/2020 - Orange County

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Existing Site Plan

A1.0

Average Site Width : 121.83'
10% of side width: 121.83' x 10% = 12.183'
Side yard setback : 12' - 2 196" at each side

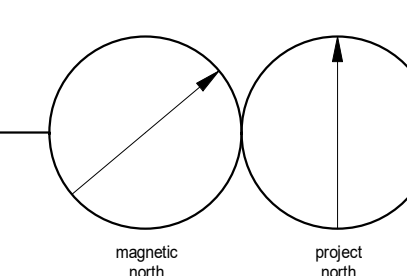
Keynotes

1891 Skyline Dr.
One Story Single Family
Residence

1802 Skyline Dr.
Two Story Single
Family Residence

1911 Park Skyline Rd.
Single Family Residence

1 Existing Site Plan





Side Yard Setback Calculation

Average Site Width : 121.83'
10% of side width: 121.83' x 10% = 12.183'
Side yard setback : 12' - 2.196' at each side

Keynotes

- Existing driveway to remain
- Existing storage to remain
- Existing power pole
- Existing retaining walls to remain
- Existing wall on neighbor property to be protected while in construction by General Contractor
- Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.26 solar reflectance and 0.91 thermal emittance on all the sloped roof area. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report 724.1.10 T24.2 for more information.
- Roof drain with overflow per specs
- Roof gutter painted dark bronze to match roof fascia. Gutter recess into the roof fascia.
- Potential solar panels. Provide SC325 or sim. solar panels by SolarCity. (N) 2x fire retardant treated wood trusses painted dark bronze
- Roofing of flat areas to be TPO roofing system from GAF-DuroGard
- ExtremaA8 TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Drawings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
- (N) metal frame painted dark bronze. Shop metalized and primed prior to erection. See structural drawings for more structural information.
- (N) retaining wall not to exceed 3'-6" above grade within front yard setback
- New retaining wall & foundation design per structural plans. See structural drawings for more information.
- 7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade 12" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- Retaining wall also act as a fence
- (N) Velux skylight w/ non-reflective glass and automatic sun shade (typ.) UL
- 1-5" dia. top rail with 3/8" dia. solid stock parallel railings @ 4" O.C. max. Contractor to provide shop drawings to architect prior to order and installation.
- Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.
- Gate for pedestrian entry not to exceed 36" above grade
- Gate for vehicles entry not to exceed 36" above grade
- Orn1 170 gas only fireplace. ANSI Z21.88/CSA 2.3-2018 See fireplace reports and specification on sheet A6.12 for more information. Any installed gas fireplace shall be a direct vent-sealed combustion type (CSA 4.303.1)
- V-Ditch, see civil engineering plan for more information.
- Landscape planters - see landscape plan for additional information

Site Plan Notes

- For additional information on grading and drainage, see civil engineering plans and sewer alignment plans prepared by:
Civildesign Engineering, Inc.
28052 Camino Capistrano, Suite 213
Laguna Niguel, CA 92677
949464115
wil@civildesign.com
- See all landscape & hardscape improvement plans prepared by:
M.D. Wilkes Design and Consulting
680 Thalia St.
Laguna Beach, CA 92651
wilkesmd@hotmail.com
949 637 1090
- For additional information on existing site conditions and elevations, see site survey plans prepared by:
O & G Engineering, Inc.
Andrew Grechuta
1251 N. Marinero St., Ste. 402
Anaheim, CA 92807
714 970 7220
info@ogeng.com
- The ground plane elevations, where indicated on this architectural site plan are for general site plan or for general reference only. For detailed elevation and drainage information refer to the grading and drainage plan prepared by civil engineering. The grading and drainage plan supersedes the architectural site plan.
- The discharge of pollutants to any storm drainage system is prohibited. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on construction sites or by construction activities shall be placed, conveyed or discharged into the street, gutter or storm drain system.
- Contractor to verify existing roof height, roof slope, and plate height. Notify architect of any discrepancies. New roof to match existing.
- Show all flatwork within 5' of structure 2'x away from structure. All flatwork to have min 1/2% slope.
- Lot shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6" within the first 10' where applicable.
- New utilities and communication lines to be under grounded to the nearest existing utility location
- See Roof Plan for specific information related to roof configuration, slope, material, etc.
- Contractor shall notify adjacent property owners by certified mail 10 days prior to starting the shoring or excavation work.
- Skylights, where occur, shall be installed per manufacturer recommendations and specifications
- Outdoor barbecues and grills to comply with the following:
a) All exterior flame producing devices, structures or equipment shall be gas burning only
b) Such devices, structures or equipment shall not be used for the disposal of rubbish, trash or combustible materials
c) Such devices, structures or equipment shall be located per the manufacturer recommendations relating to the separation from any combustible structure
d) Properties shall not be permitted to have such devices, structures or equipment within 10' of all non-fire-resistive vegetation or undeveloped wildland.

PLANNING INFORMATION

Zone: 125-E4-20000 "Small Estates"
Lot Area: 20,008 SF
APN: 502-071-12
Legal Description:
PARCEL 1:
THAT PORTION OF LOT C OF TRACT NO. 61, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 10, PAGE 8 MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE NORTHEASTLY LINE OF SAID LOT C, NORTH 32° 12' 30" WEST, 128.00 FEET FROM THE SOUTHEASTLY TERMINUS OF THAT CERTAIN COURSE ON SAID NORTHEASTLY LINE SHOWN AS COURSE 51, NORTH 32° 12' 30" WEST, 152.65 MEAS. ON A MAP OF SURVEY RECORDED IN BOOK 23 PAGE 50, RECORD OF SURVEY, IN THE OFFICE OF THE COUNTY RECORDER OF SAID ORANGE COUNTY, THENCE ALONG SAID NORTHEASTLY LINE, NORTH 32° 12' 30" WEST, 24.60 FEET, AND NORTH 15° 18' 15" WEST, 37.40 FEET, THENCE SOUTH 72° 54' 42" WEST, 115.00 FEET, THENCE SOUTH 60° 03' 30" WEST, 127.36 FEET, THENCE SOUTH 43° 58' 30" EAST, 15.46 FEET TO THE BEGINNING OF A TANGENT CURVE, CONCAVE NORTHEASTERLY, HAVING A RADIUS OF 1260.00 FEET, THENCE SOUTHEASTERLY, 115.14 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 5° 14' 09" TO A POINT TO WHICH A RADIAL LINE BEARS, SOUTH 40° 47' 21" WEST, THENCE NORTH 40° 47' 21" EAST, 200.84 FEET TO THE POINT OF BEGINNING.
EXCEPT THAT PORTION THEREOF INCLUDED WITHIN THE RIGHT OF WAY OF SKYLINE DRIVE.
PARCEL 2:
AN EASEMENT FOR ROAD PURPOSES AND UTILITY PURPOSES OVER A STRIP OF LAND 20.00 FEET IN WIDTH LYING 20.00 FEET NORTHEASTERLY (MEASURED RADIALY), OF THE FOLLOWING DESCRIBED LINE:
BEGINNING AT THE NORTHEASTLY TERMINUS OF THE CENTER LINE OF THAT CERTAIN 40.00 FOOT WIDE STRIP OF LAND DESCRIBED IN THE DEAD OF THE COUNTY OF ORANGE, RECORDED DECEMBER 8, 1999 IN BOOK 3005, PAGE 300, OFFICIAL RECORDS, SAID POINT BEING ON THE ARC OF A CURVE, CONCAVE NORTHEASTERLY, AND HAVING A RADIUS OF 1260.00 FEET (A RADIAL THROUGH SAID POINT BEARS SOUTH 37° 03' 00" WEST), THENCE NORTHEASTERLY, 80.22 FEET ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 3° 38' 51" TO A POINT THROUGH WHICH A RADIAL BEARS, SOUTH 40° 47' 21" WEST, SAID POINT BEING THE MOST SOUTHERLY CORNER OF THE HEREIN ABOVE DESCRIBED PARCEL 1.

Legend:
Area of flat roof
Area of new roof
Solar Panel

Wong Residence

Revisions

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Issued

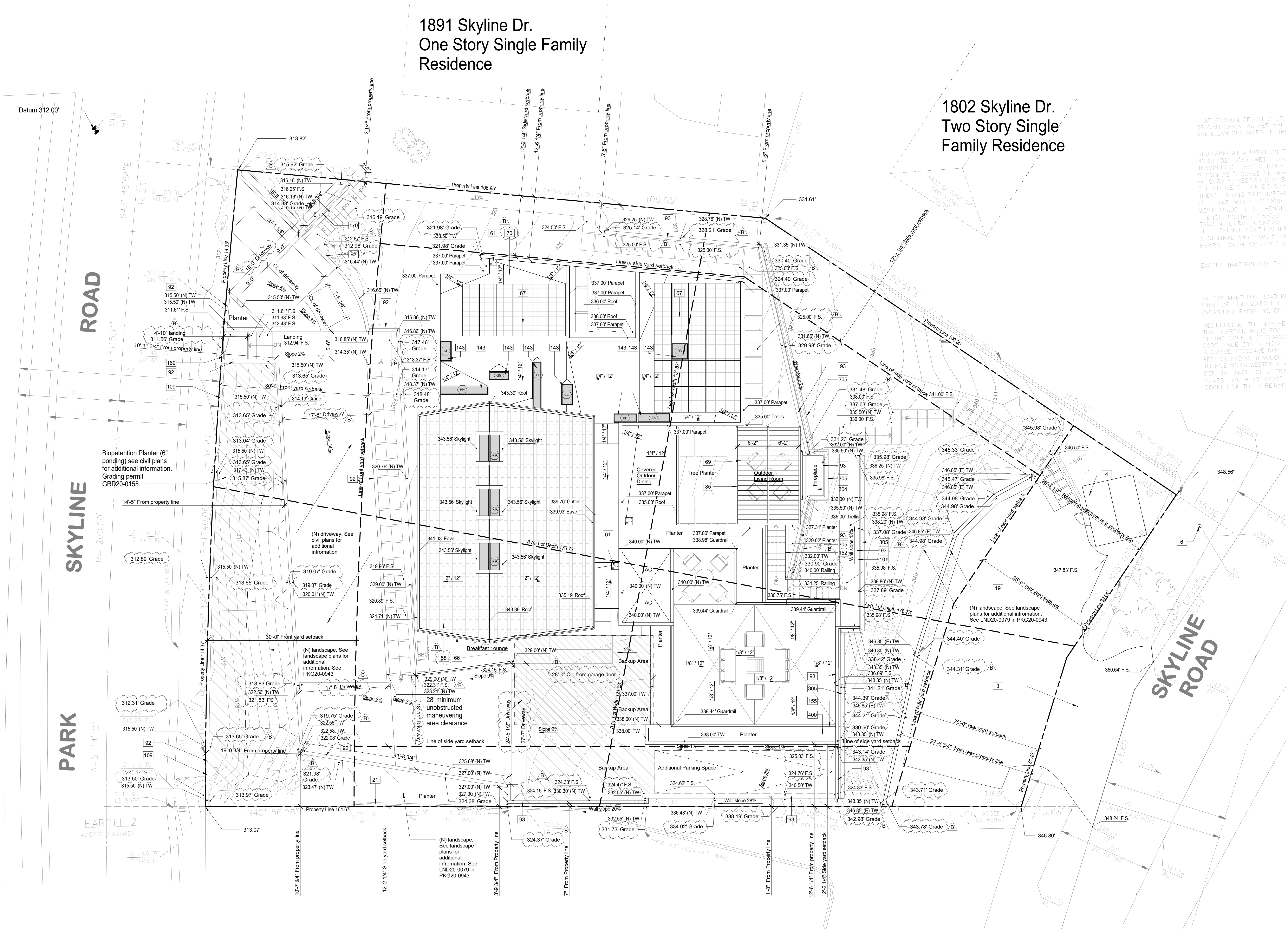
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New Site Plan

A1.1



ATTACHMENT 1

OCFA Fire Master Plan Notes (1-1-17)

All of the notes listed in the INSPECTION REQUIREMENTS and GENERAL REQUIREMENTS sections shall be placed, verbatim, on the plan under the heading "FIRE AUTHORITY NOTES." Include individual notes, as applicable, from the PROJECT-SPECIFIC REQUIREMENTS section.

INSPECTION REQUIREMENTS

- OCFA site inspections are required for this project. Please schedule all field inspections at least 48 hours in advance. Inspections cancelled after 1 p.m. on the day before the scheduled date will be subject to a re-inspection fee. Call OCFA Inspection Scheduling at (714) 573-5100.
- A lumber drop inspection shall be performed prior to bringing combustible materials (or combustible fixtures and finishes for structures of non-combustible construction). All-weather access roads capable of supporting 94,000 lbs., topped with asphalt, concrete, or equivalent shall be in place and hydrants operational at time of lumber drop inspection.
- For projects with fuel modification, a vegetation clearance inspection is required prior to a lumber drop inspection. Use the fuel modification plan service request number to schedule the vegetation clearance inspection.
- Phased installation of fire access roads requires additional inspections not covered by the fees paid in plan submittal. Contact Inspection Scheduling to arrange for additional inspections that may be needed and any fees that may be due.
- An original approved, signed, wet-stamped OCFA fire master plan shall be available on-site at time of inspection.
- Access roads and hydrants shall be maintained and remain clear of obstructions at all times during and after construction. Areas where parking is not permitted shall be clearly identified at all times. Obstruction of fire lanes and hydrants may result in cancellation or suspension of inspections.
- Temporary fuel tanks of 60 or more gallons shall be reviewed, inspected, and permitted by the OCFA prior to use.
- The project address shall be clearly posted and visible from the public road during construction.
- All gates in construction fencing shall be equipped with either a Knox or breakaway peddock.
- Buildings of four or more stories shall be provided with stairs and a standpipe before reaching 40 feet in height.

GENERAL REQUIREMENTS

- Fire lane widths shall be measured from top face of the curb to top face of the curb for fire lanes with standard curbs and gutters and from flow-line to flow-line for fire lanes with modified curb designs (e.g., rolled, ramped, etc.). The developer is responsible to verify that all approved public works or grading department street improvement plans or precise grading plans conform to the minimum street width measurements per the approved OCFA fire master plan and standards identified in OCFA Guideline B-09 for all portions of the fire access roads.
- Permanent, temporary, and phased emergency access roads shall be designed and maintained to support an imposed load of 94,000 lbs. and surfaced to provide all-weather driving capabilities.
- Fire lane signs and red curbs shall meet the specifications shown in OCFA Guideline B-09 and shall be installed as described therein. Additional fire lane markings may be required at the time of inspection depending on field conditions, new structures, or additional alterations to existing structures requires review and approval by the OCFA.
- All fire hydrants shall have a "Blue Reflective Pavement Marker" indicating their location per the OCFA standard. On private property markers are to be maintained in good condition by the property owner.
- Address numbers shall be clearly posted and be of a color and size so as to be plainly visible and legible from the roadway from which the building is addressed in accordance with OCFA Guideline B-09. Wayfinding signs, when required by the local AHJ, shall comply with the standards of that agency. When wayfinding signs are also required by the OCFA, they may be designed to local AHJ requirements provided that such standards facilitate location of structures, suites, and dwelling units by emergency personnel.

- Access gates shall be approved prior to installation and shall be in compliance with Chapter 5 of the CFC and OCFA guidelines.
- Approved access walkways shall be provided to all required openings and all rescue windows.
- Vegetation shall be selected and maintained in such a manner as to allow immediate access to all hydrants, valves, fire department connections, pull stations, extinguishers, sprinkler risers, alarm control panels, rescue windows, and other devices or areas used for firefighting purposes. Vegetation or building features shall not obstruct address numbers or inhibit the functioning of alarm bells, horns, or strobes.
- Dumpsters and trash containers larger than 1.5 cubic yards shall not be stored in buildings or placed within 5 feet of combustible walls, openings or combustible roof eave lines unless protected by an approved sprinkler system.
- Any future modification to the approved Fire Master Plan or approved site plan, including but not limited to road width, grade, speed humps, turning radii, gates or other obstructions, shall require review, inspection, and approval by the OCFA.
- Approval of this plan shall not be construed as approval of any information or project conditions other than those items and requirements identified in OCFA Guideline B-09 and related portions of the 2019 CFC and CBC. This project may be subject to additional requirements not stated herein upon examination of actual site and project conditions or disclosure of additional information.

PROJECT-SPECIFIC REQUIREMENTS (include only those notes that are applicable to the project as designed; some notes may need to be modified to address specific project conditions)

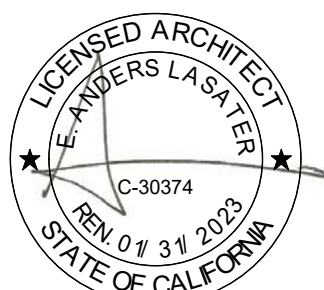
- An underground piping plan is required for the installation of an automatic fire sprinkler system or for a private fire hydrant system. A separate plan submittal is required.
- An architectural plan is required to be submitted to the OCFA for review and approval for projects containing A, C, E, F, H, I, L, and R-4 occupancies. A plan may also be required for R-1 and R-2 occupancies over two stories or those utilizing sprinklers or fire walls to increase the maximum building size allowed—see OCFA info Bulletin 02-15.
- A chemical classification and hazardous materials compliance plan shall be approved by the OCFA prior to any hazardous materials being stored or used on site. A separate plan submittal is required.
- Buildings used for high-piled storage shall comply with CFC requirements. A separate plan submittal is required if materials will be stored higher than 12 feet for lower-hazard commodities, or higher than six feet for high-hazard commodities such as plastics, rubber, flammable/combustible liquids, tires, carpet, etc.
- An automatic fire sprinkler system shall be installed in accordance with applicable codes and local ordinances, amendments, and guidelines. Sprinkler systems, other than those listed in CFC 003.4, shall be monitored by an approved central station. Separate plan submittals for the sprinkler and monitoring systems are required.
- Buildings containing industrial refrigeration systems shall comply with CFC requirements. A separate plan submittal is required if refrigerant quantities exceed thresholds.
- A fire alarm system shall be installed in accordance with applicable codes and local ordinances, amendments, and guidelines. A separate plan submittal is required.
- Structures located in a Fire Hazard Severity Zone or Wildland-Urban Interface area are subject to the construction requirements prescribed in Chapter 7A of the 2016 CBC and/or Section 337 of the 2016 CFC. Construction materials/methods are reviewed and inspected by the Building Department.
- One or more structures shown on this plan are located adjacent to a fuel modification area. Changes to the fuel modification zone landscaping, new structures, or additional alterations to existing structures requires review and approval by the OCFA.
- Projects located in State Responsibility Areas and in Local Responsibility Area VHFSS shall also comply with all applicable requirements from Title 14, Div. 1.5, Ch. 7, SubCh. 2—SRA Fire Safe Regulations and Guideline B-09a.
- Structures meeting the criteria in CFC 510.1 shall be provided with an emergency responder radio system. Refer to CFC 510.2 through 510.6.3 and DAS/BOA guidelines published by OC Sheriff's Communication and Technology Division for technical and submittal information.

Keynotes

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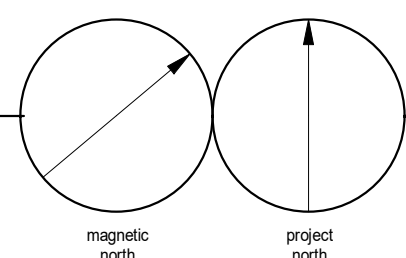
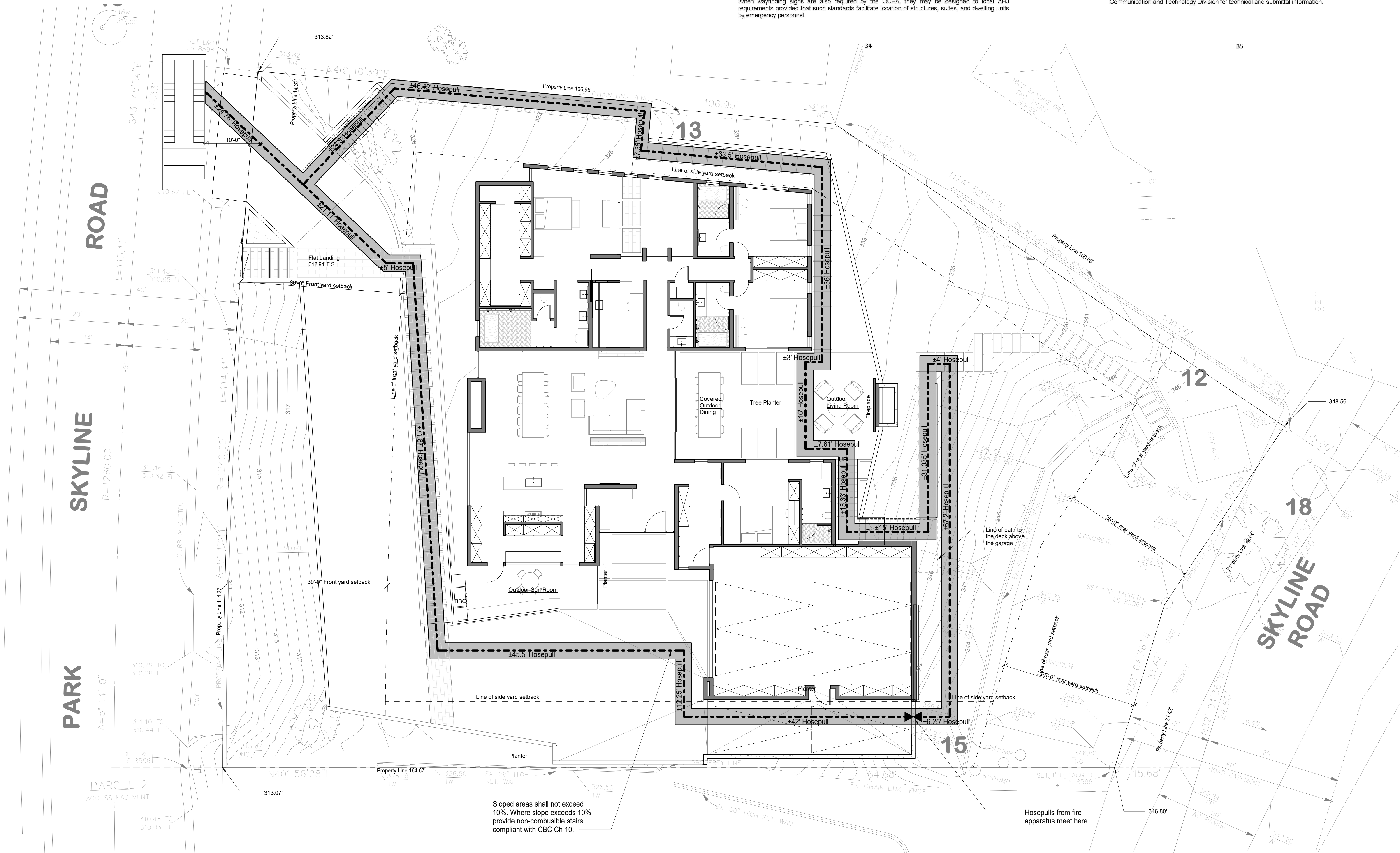


Hydrant Location Map



Fire Access Plan Notes

- A separate (deferred) submittal for fire sprinklers is required. System design must comply with the 2019 CFC and 2019 NFPA 13a standard. Plans must be designed and installed by a qualified Fire Protection Contractor. Plans shall be submitted to and approved by the OCFA, with permit issued and appropriate inspections conducted.
- All exterior fire places and fire pits must be gas fired ONLY. No solid fuel is allowed per the OCFA municipal code. Fire places and fire pits must be a minimum of 10' from combustible vegetation.
- Maintain jobsite safety during construction as per Chapter 33 of 2019 California Fire Code.
- Complete firefighter access around the building is required. See this sheet for details. This is subject to final fire inspection and required approval prior to occupancy.
- Address numbers must be placed on the exterior facing the street addressed to. Minimum size of numbers is 4", and they must contrast with the background.
- For Fire Department inspections, call (714) 573 6150 at least 2 to 5 days in advance to schedule. The following information will be needed when calling in for inspection:
 - OCFA Service Request Number for the plan that the inspection is based on
 - A contact name and number for the person who will be meeting the inspector at the job site
 - The building or suite number that will be included in the inspection if the plan covers more than one building
 - The scope of the inspection if it will not be the entire scope of the project shown on the approved plan
 - The number of devices that will be inspected: for sprinkler plans, the number of sprinkler heads; for alarm plans, the number of pull stations, smoke detectors, and/or strobes
 - If scheduling a reinspection because of a cancellation, failed inspection, or phased inspection, have a credit card available to pay the reinspection fee.
 - Final fire sprinkler inspections for plan types PR430 and PR435 will no longer require the contractor to be present during the inspection provided approved plans and job card are on site in a location readily accessible to the inspector. For all other plans types, the installing contractor or knowledgeable representative shall be present.
 - If you need to cancel an inspection, you must notify Inspection Scheduling at 714-573-6150 no later than 1 p.m. on an OCFA business day prior to your scheduled inspection.
- Fire apparatus road shall have an unobstructed width of 20 feet and an unobstructed vertical clearance of 13'-6".
- Fuel Mod and/or Fire apparatus access roads shall be provided prior to start of construction and/or lumber deliveries. CFC 504.1
 - Fuel Mod NOT required for this project
- Access to building openings and roof openings required by the 2019 CFC shall be accessible for emergency access, provide a 3 foot all weather access around structure, maximum slope shall not exceed 10% without stairs. CFC 504.1
- Sloped areas in excess of 10% shall have non-combustible stairs compliant with requirements outlined in CBC chapter 10.
- Fire flow requirements shall be determined by 2019 CFC Appendix B and comply with specific flow to be completed by water district.
- Fire hydrant systems and spacing shall comply with 2019 CFC Appendix C to be completed by water district. Maximum distance from hydrant to Hydrant 220', CFC 506.5
- Farthest point of building shall not be > 150 feet from fire apparatus access road. CFC 503.1.1
- Approved signs or other approved notices shall be provided for fire apparatus access roads to prohibit the obstruction thereof.
- Not shelter in place. Evacuate if threatened or requested to.
- Fire apparatus access roads shall be designed to support the imposed loads of fire apparatus (74,000 lbs) and shall be surfaced to provide all weather driving capabilities per CFC 503.2.



Revisions

- | NO. | DATE | DESCRIPTION |
|-----|------------|-----------------|
| 1 | 12/10/2020 | County PC rev 1 |
| 2 | 03/26/2020 | County PC rev 2 |
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Fire Access Plan



Keynotes

- 81 Provide 5/8" type "X" gyp. bd. over 2x furring at garage retaining walls.
- 82 Fire retardant treated wood siding - verify color & finish with architect
- 86 Decorated wall/ wood wall
- 91 Exterior wall with R-21 wall insulation per T-24 Energy Report see T24-1 to T24-2 for more information.
- 93 New retaining wall & foundation design per structural plans. See structural drawings for more information.
- 95 Garage shall be separated from the dwelling unit by a vertical wall from the slab through the attic to the roof sheathing with 1 layer of 5/8" Type "X" gypsum board on the garage side - min. (Table R302.3)
- 96 Interior wall with R-19 wall insulation per T-24 Energy Report see T24-1 to T24-2 for more information.
- 100 7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath or 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 101 7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath or 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 131 Garage door shall be 1 3/8" solid core or min 20 minute fire rated door and self-closing and self-latching in sprinkler and non-sprinklered dwellings.
- 152 Steel handrail @ 36" above FF, metalized & painted dark bronze. Provide 1.5" dia. top rail with 3/8" dia. solid stock parallel railings @ 4" O.C. max. Contractor to provide shop drawings to architect prior to order and installation. Provide power for lighted mirror. See lighting plan for more information.
- 196 FAU - duct path will go within the roof package
- 220 Onal 170 gas only fireplace. ANSI Z21.88/CSA 2.33-2018 See fireplace reports and specification on sheet A6.12 for more information. Any installed gas fireplace shall be a direct vent-sealed combustion type (CGC 4.503.1)
- 323 Any installed gas fireplace shall be a direct vent-sealed combustion type (CGC 4.503.1) Fireplace shall be gas burning, direct vent with sealed combustion chamber. See the fireplace ANSI report and fireplace specification on A6.12. See separate permit submittal for outdoor gas only fireplace.
- 336 Linear shower Drain
- 337 Curbside shower
- 339 Shower bar with hand held Shower head per owner see plumbing notes on A7.1 for additional information.
- 341 Pory wall
- 344 Mirror
- 345 Barn-door with Mirror for safe room
- 500 Downdraft hood

FLOOR PLAN NOTES

- See Dimension Floor Plans for wall layout dimensions.
- See Door and Window schedules on A4.1, A4.2 and Title 24 energy report for additional door and window information.
- See detail 1/A6.6 for additional concrete slab waterproofing information.
- Provide shadow base detail @ all walls per detail 4/A6.6.
- Provide screed 2" above F.S. Follow angle of steps where occurs. See detail 3/A6.6 for additional information.
- Provide min. 5/8" drywall at ceiling between garage and habitable space per table R302.6.
- See Soil Report Recommendations on A0.7 and A0.8 in this plan set and see full soil report in a separate attachment for additional information.

Floor Legend

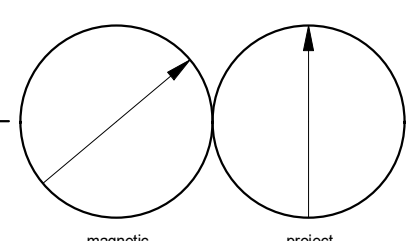
- Stone Floor
- Concrete Floor
- Tile Floor
- Gravel
- Planter Soil
- 28' minimum unobstructed maneuvering area clearance
- Backup areas for automobile from the garage

Wall Legend

- New low wall/ Wall below
- New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report
- New 2x6 wall. Framing per structural & Insulation per T-24 Energy Report
- New furring wall. Framing per structural & Insulation per T-24 Energy Report
- New retaining wall. Framing per structural.
- 11hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report.

1 Main Floor Plan

1/4" = 1'-0"



Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

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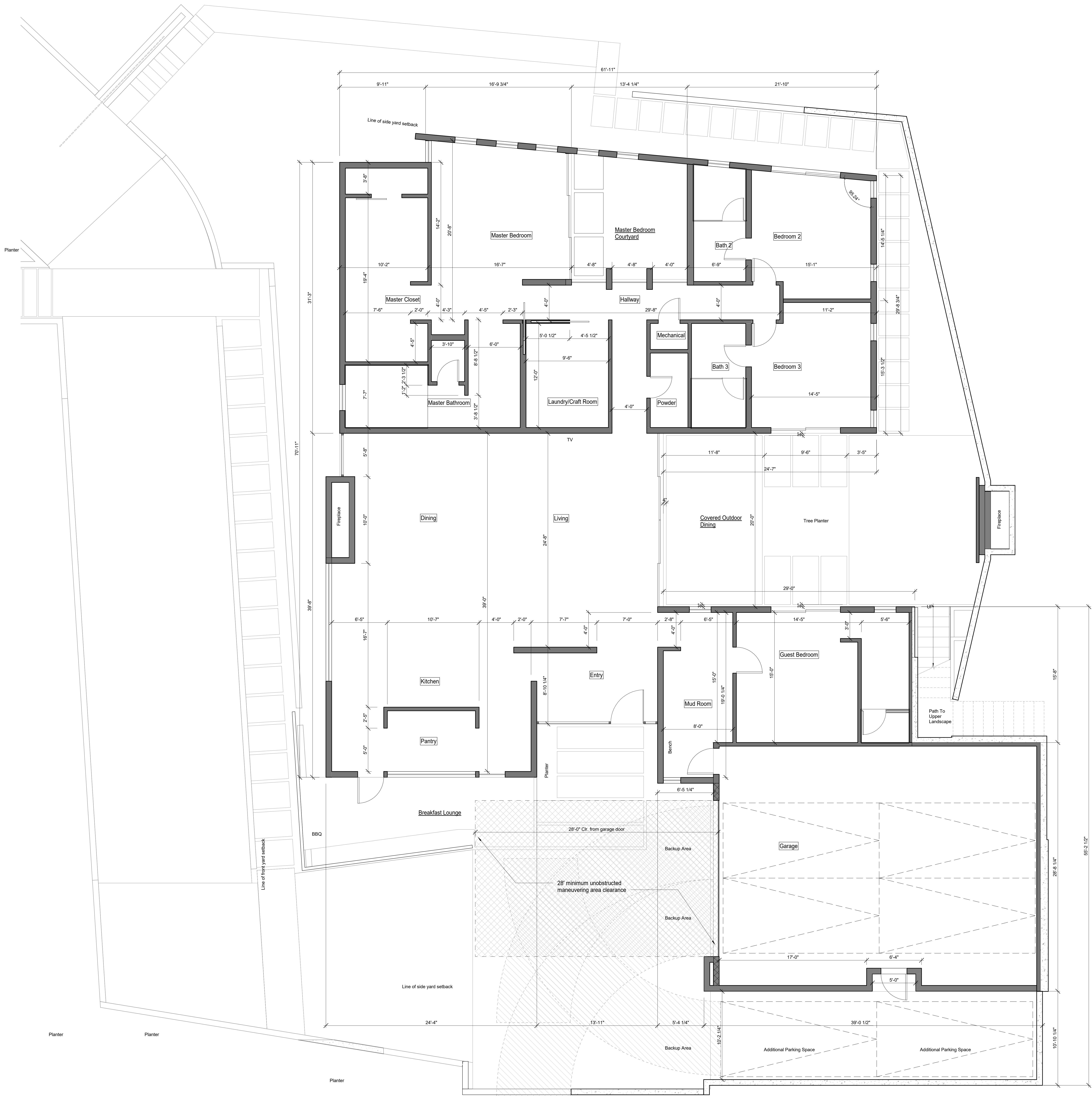
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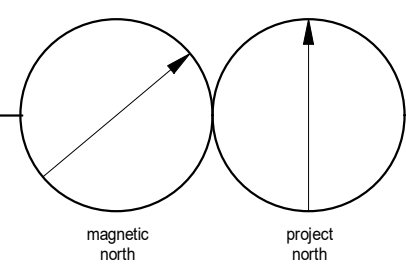
Main Floor Plan

A2.1



1 Main Floor Dimension Plan

1/4" = 1'-0"



Note: All dimensions are dimensioned to finish materials u.n.o.



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384 FOREST AVENUE, SUITE 12
LAGUNA BEACH, CA 92651
949 497 1827

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Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County
- 1
- 2
- 3
- 4
- 5

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Main Floor Dimension Plan

A2.2



Revisions

1	12/10/2020 County PC rev 1
2	03/26/2020 County PC rev 2
3	
4	
5	

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1	10/30/2020 - Orange County
2	
3	
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Clerestory Windows Plan

A2.3

Keynotes

61	Roof drain with overflow per specs
83	Column per structural plans. Columns to be installed, primed and painted dark bronze
101	7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade 3" building paper. Verify slope control joint locations and codes with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
142	Clerestory windows
320	AC compressors with 3'-6" high AC enclosure screen on a 3" min. concrete base pad - AC compressors to have 2 forms of sound attenuation: (1) Base isolator and (2) sound attenuation blanket. Means for disconnecting the electrical supply to the air-conditioning appliance shall be provided within sight of and not over 50 feet from the air conditioner. [CMC 903.7]

FLOOR PLAN NOTES

- See Dimension Floor Plans for wall layout dimensions.
- See Door and Window schedules on A4.1, A4.2 and Title 24 energy report for additional door and window information.
- See detail 1/A6.6 for additional concrete slab waterproofing information.
- Provide shadow base detail @ all walls per detail 4/A6.6.
- Provide screed 2" above FS. Follow angle of steps where occurs. See detail 3/A6.6 for additional information.
- Provide min. 5/8" drywall at ceiling between garage and habitable space per table R302.6.
- See Soil Report Recommendations on A0.7 and A0.8 in this plan set and see full soil report in a separate attachment for additional information.

Floor Legend

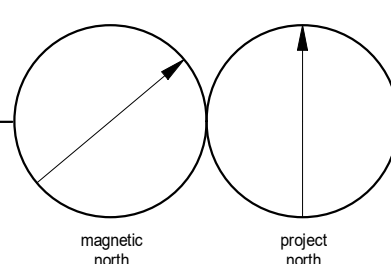
	Stone Floor
	Concrete Floor
	Tile Floor
	Gravel
	Planter Soil
	28' minimum unobstructed maneuvering area clearance
	Backup areas for automobile from the garage

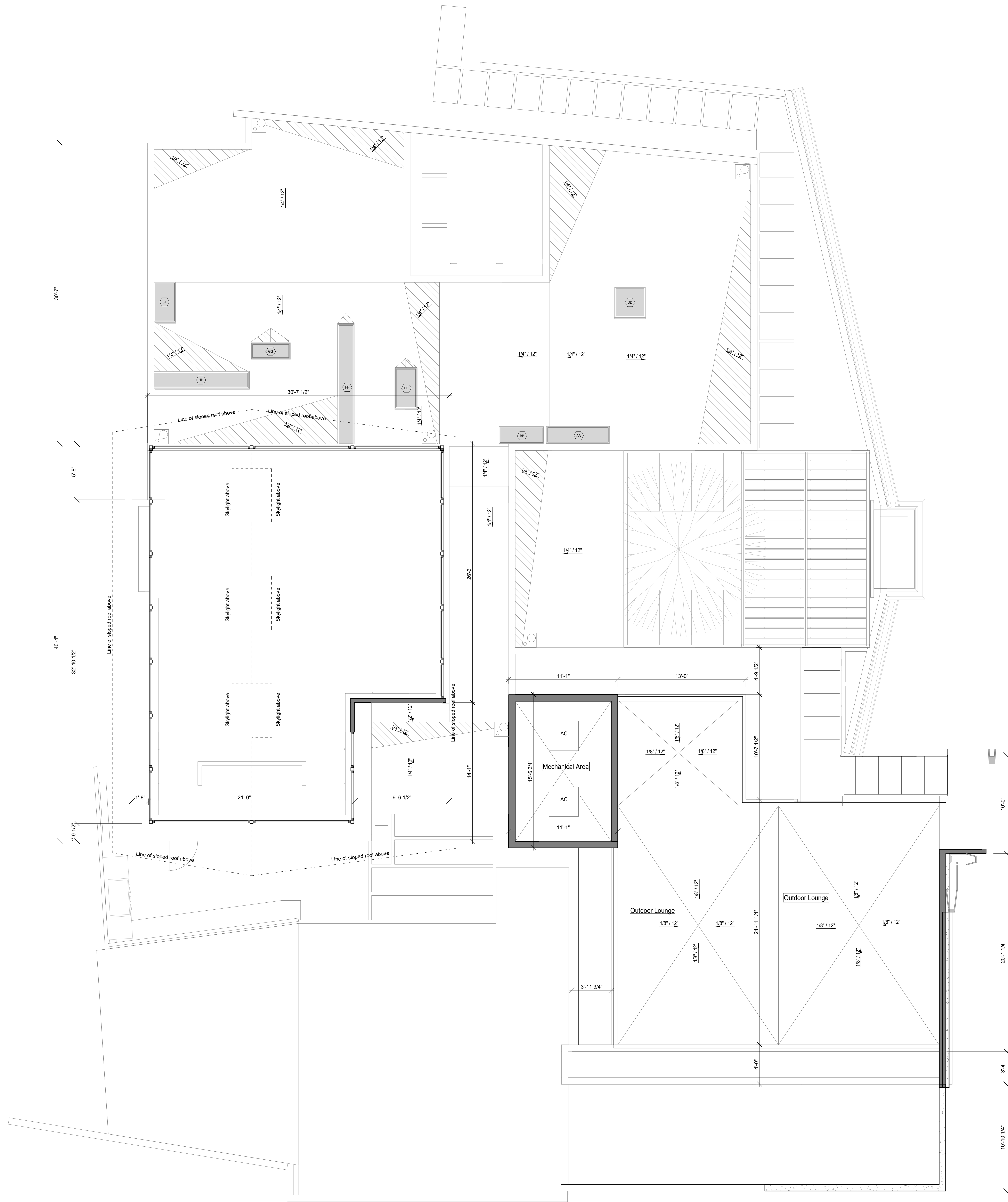
Wall Legend

	New low wall/ Wall below
	New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report
	New 2nd wall. Framing per structural & Insulation per T-24 Energy Report
	New furring wall. Framing per structural & Insulation per T-24 Energy Report
	New retaining wall. Framing per structural
	11-hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report

1 Clerestory Windows Plan

1/4" = 1'-0"





1 Clerestory Windows Dimension Plan
1/4" = 1'-0"

Note: All dimensions are dimensioned to finish materials u.n.o.



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Clerestory Windows
Dimension Plan

A2.4



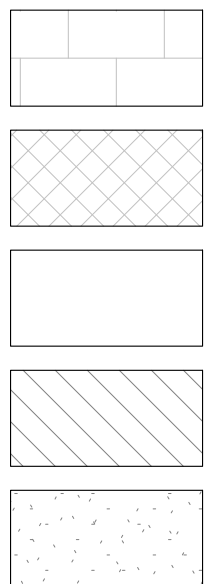
Keynotes

- 58 Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.26 solar reflectance and 0.91 thermal emittance on all the sloped roof area. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
61 Roof gutter painted dark bronze to match roof fascia. Gutter recess into the roof fascia.
62 Cricket - slope to drain 1/4" / 8" min.
66 Roof gutter painted dark bronze to match roof fascia. Gutter recess into the roof fascia.
67 Potential solar panels. Provide SC325 or sim. solar panels by SolarCity.
69 (N) 2x4 tie-reinforced treated wood trills painted dark bronze.
70 Roofing at flat areas to be TPO roofing system from GAF EverGuard Extreme® TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Ductings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
82 Fire resistant treated wood siding - verify color & finish with architect.
85 (N) metal frame painted dark bronze. Shop metalized and primed prior to erection. See structural drawings for more structural information.
86 Parapet.
93 New retaining wall & foundation design per structural plans. See structural drawings for more information.
95 Garage shall be separated from the dwelling unit by a vertical wall from the slab through the attic to the roof sheathing with 1 layer of 5/8" Type "X" gypsum board on the garage side - min. (Table E0302.5)
96 Stone wall.
100 7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
101 7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
143 (N) Veneer slights w/ non-reflective glass and automatic sun shade (typ.) - UL Listing E82661. See Title 24 report for additional information. See manufacturer specification A6.13 for more information.
152 Steel handrail @ 38" above FF, metalized & painted dark bronze. Provide 1.5" dia. top rail with 3/8" dia. solid stock parallel railings @ 4" O.C. max. Contractor to provide shop drawings to architect prior to order and installation.
154 Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.
304 Ortol 170 gas only fireplace. ANSI Z21.86/CSA 2.33-2018 See fireplace reports and specification on sheet A6.12 for more information. Any installed gas fireplace shall be a direct vent-sealed combustion type (CDC 4.603.1)
320 AC compressors with 3-6" high AC enclosure screen on a 3" min. concrete base pad - AC compressors to have 2 forms of sound attenuation: (1) Base isolator and (2) sound attenuation blanket. Means for disconnecting the electrical supply to the air-conditioning appliance shall be provided within sight of and not over 50 feet from the air conditioner. (CMC 903.7)
400 Landscape planters - see landscape plan for additional information

ROOF PLAN NOTES

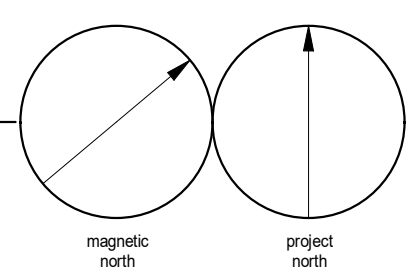
- Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.26 solar reflectance and 0.91 thermal emittance on all the sloped roof area. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
- Roofing at flat areas to be TPO roofing system from GAF EverGuard Extreme® TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Ductings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.

Roof Legend:



1 Roof Plan

1/4" = 1'-0"



Wong Residence

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- | | | |
|---|------------|-----------------|
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| 2 | 03/26/2020 | County PC rev 2 |

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| 1 | 10/30/2020 | Orange County |
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Roof Plan

A2.5



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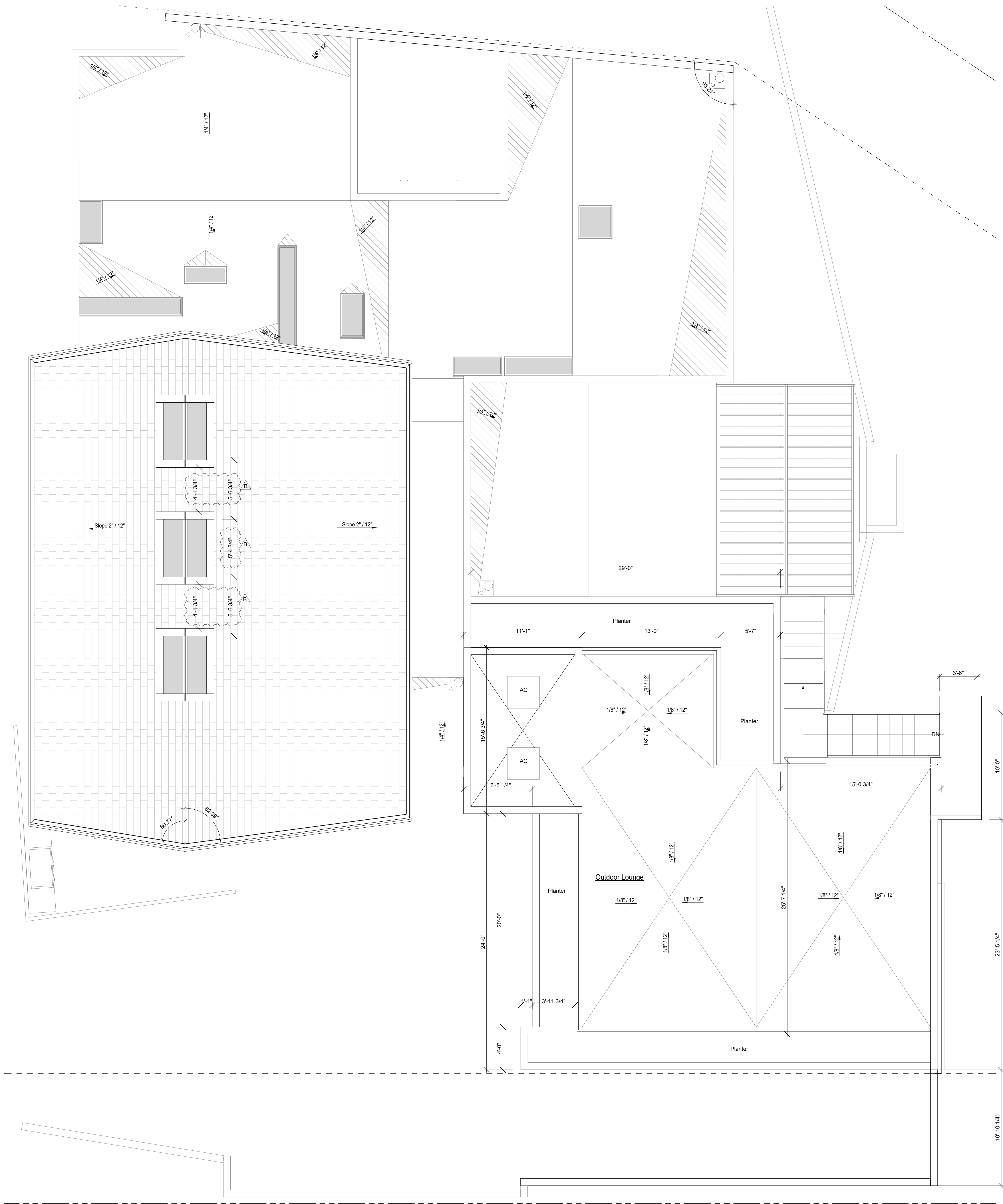
- 10/30/2020 - Orange County

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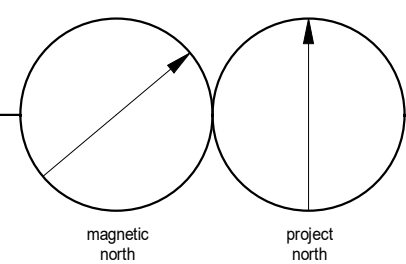
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Roof Dimension Plan

A2.6



1 Roof Dimension Plan
1/4" = 1'-0"



ROOF PLAN NOTES

- Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.26 solar reflectance and 0.91 thermal emittance on all the sloped roof area. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
- Roofing at flat areas to be TPO roofing system from GAF EverGuard Extreme® TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Cuttings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.

Roof Legend:

- Slate Roof
- Solar-Panels
- Flat Roof
- Circkel - slope to drain 1/4"/ft min.
- Planter Soil

Note: All dimensions are dimensioned to finish materials u.n.o.



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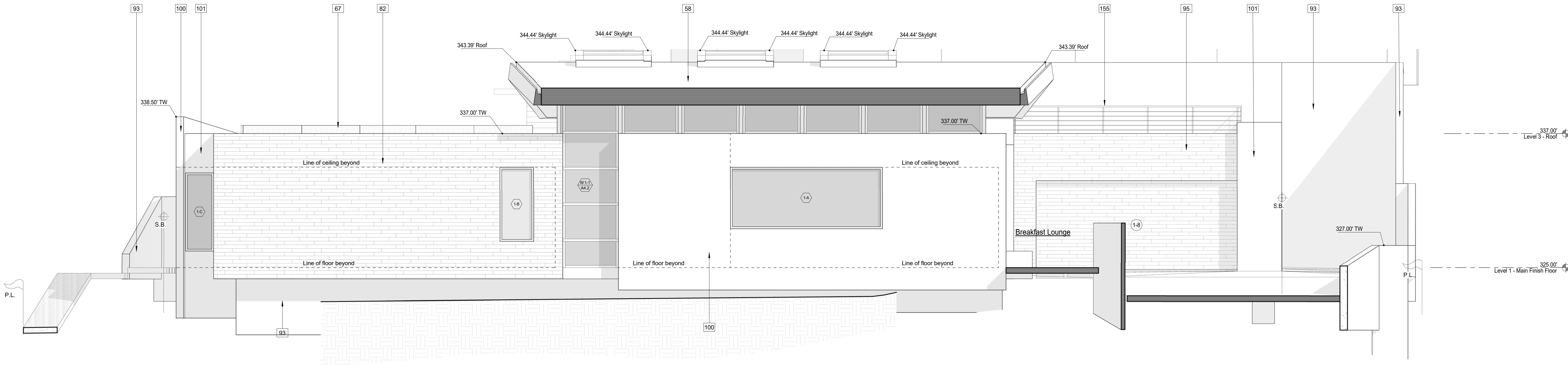
- 10/30/2020 - Orange County

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West + East Elevations

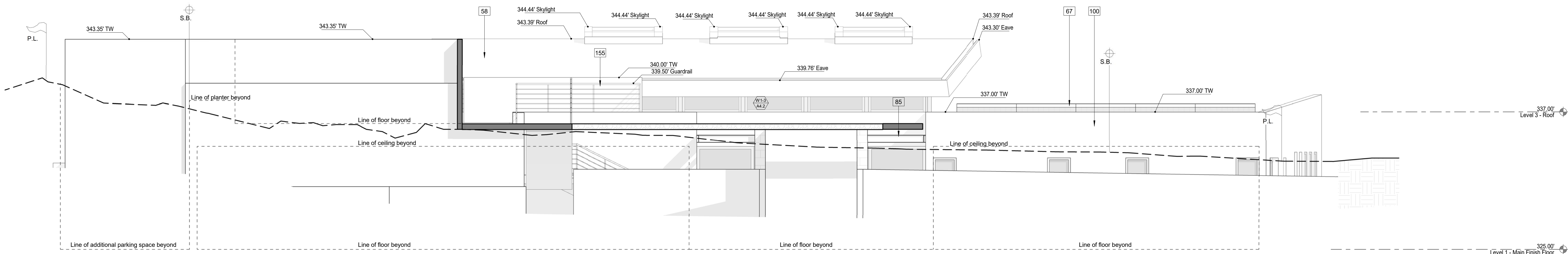
A3.1



Keynotes	
58	Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.25 solar reflectance and 0.91 thermal emittance on all the sloped roof area. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
67	Potential solar panels. Provide SC325 or sim. solar panels by SolarCity.
82	Fire retardant treated wood siding - verify color & finish with architect
95	(N) metal frame painted dark bronze. Shop metalized and primed prior to erection. See structural drawings for more information.
95	New retaining wall & foundation design per structural plans. See structural drawings for more information.
95	Garage shall be separated from the dwelling unit by a vertical wall from the slab through the attic to the roof sheathing with 1 layer of 5/8" Type "X" gypsum board on the garage side - min. (Table R302.6)
100	7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
101	7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
155	Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.

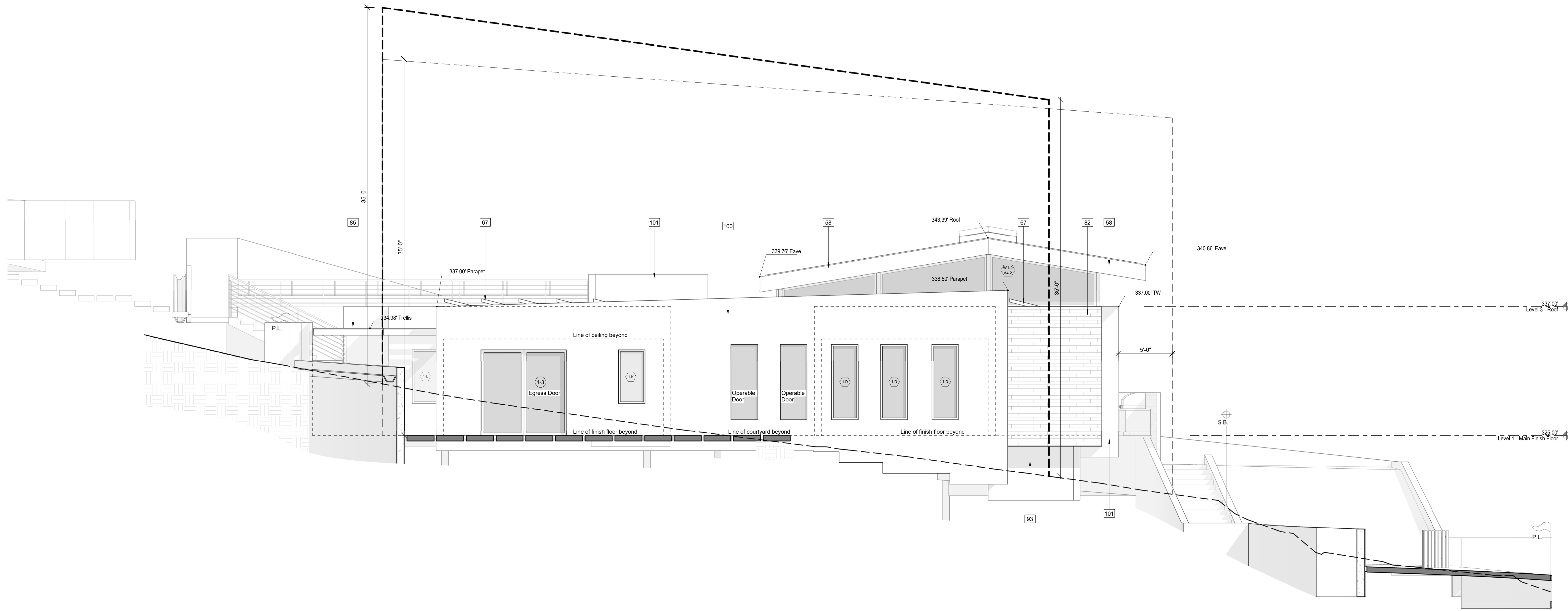
1 West Elevation

1/4" = 1'-0"

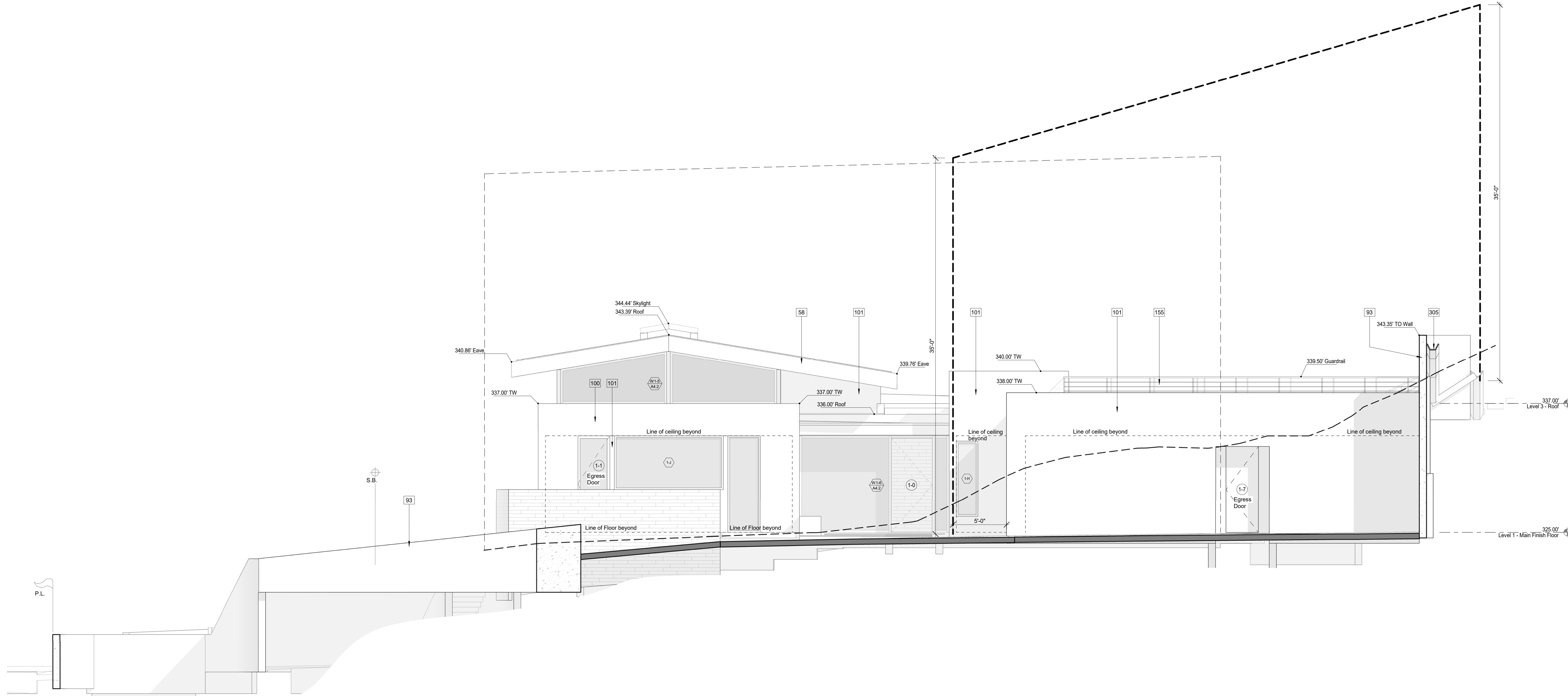


2 East Elevation

1/4" = 1'-0"



1 North Elevation
1/4" = 1'-0"



2 South Elevation
1/4" = 1'-0"

Keynotes

- 58 Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.28 solar reflectance and 0.91 thermal emittance on all the sloped roof area. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
- 67 Potential solar panels. Provide SC325 or sim. solar panels by SolarCity.
- 82 Fire retardant treated wood siding - verify color & finish with architect.
- 85 (N) metal frame painted dark bronze. Shop metalized and primed prior to erection. See structural drawings for more structural information.
- 93 New retaining wall & foundation design per structural plans. See structural drawings for more information.
- 100 7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath or 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 101 7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath or 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 155 Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.
- 305 V-Ditch, see civil engineering plan for more information.



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Wong Residence

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1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

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North + South Elevations

A3.2



Wong Residence

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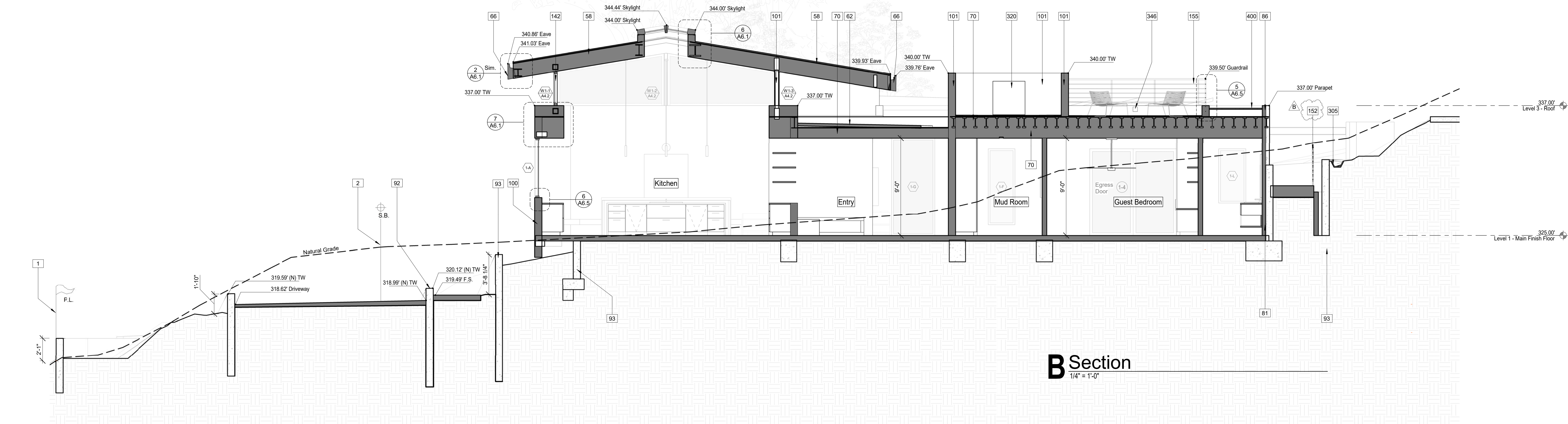
Section A+B+C

A3.3



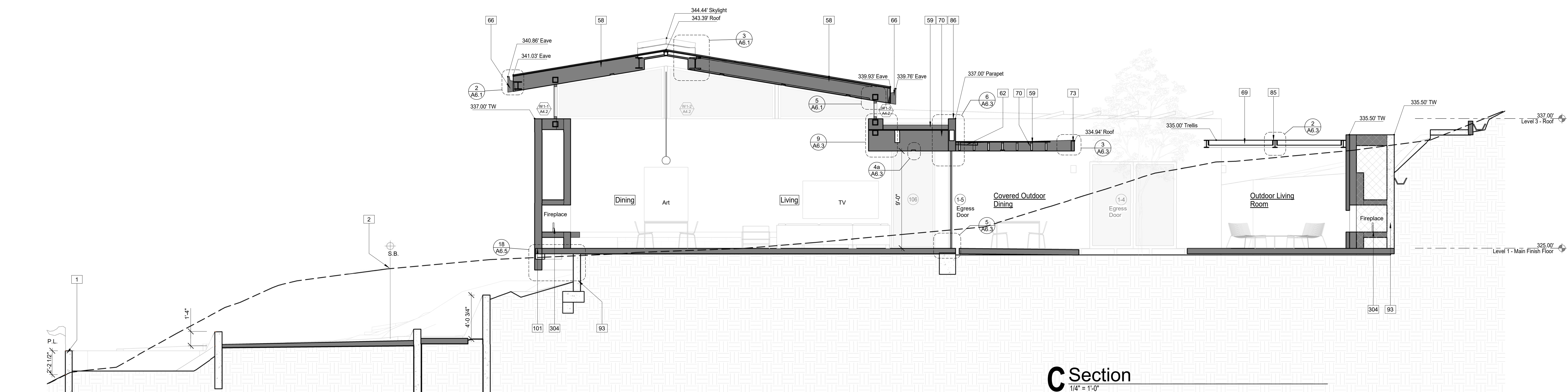
A Section

1/4" = 1'-0"



B Section

1/4" = 1'-0"



C Section

1/4" = 1'-0"

Keynotes

- Property Line
- Setback line - see site plan A1.1 for setback dimensions
- Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.25 solar reflectance and 0.91 thermal emittance on all the sloped roof areas. Provide min. R-30 + R-5 insulation @ all nodes except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
- Roof will be framed full with rippers and plywood above for drainage slope. Cricket - slope to drain 1/4"/ft min.
- Roof gutter painted dark bronze to match roof fascia. Gutter recess into the roof fascia.
- (N) 2x fire retardant treated wood trellis painted dark bronze
- Roofing at flat areas to be TPO roofing system from GAF EverGuard ExtremeAP TPO (Energy Gray) with 0.65 solar reflectance and 0.89 thermal emittance. Ductings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
- Structure framing per structure engineer
- Provide 5/8" type "X" gyp. bd. over 2x furring at garage retaining walls.
- (N) metal frame painted dark bronze. Shop, metalized and primed prior to erection. See structural drawings for more structural information.
- Parapet
- (N) retaining wall not to exceed 3'-6" above grade within front yard setback
- New retaining wall & foundation design per structural plans. See structural drawings for more information.
- Garage shall be separated from the dwelling unit by a vertical wall from the slab through the attic to the roof sheathing with 1 layer of 5/8" Type "X" gypsum board on the garage side - min. (Table R302.1)
- 7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- Clerestory windows
- Steel handrail @ 36" above FF, metalized & painted dark bronze. Provide 1.5" dia. top rail with 3/8" dia. solid stock parallel railings @ 4" O.C. max. Contractor to provide shop drawings to architect prior to order and installation.
- Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.
- Onal 170 gas only fireplace. ANSI Z21.88/CSA 2.23-2018 See fireplace reports and specification on sheet A6.12 for more information. Any installed gas fireplace shall be a direct vent sealed combustion type [CGC 4.503.1] V-Ditch, see civil engineering plan for more information.
- AC compressors with 3'-6" high AC enclosure screen on a 3" min. concrete base pad - AC compressors to have 2' terms of sound attenuation: (1) Base isolator and (2) sound attenuation blanket. Means for disconnecting the electrical supply to the air conditioning appliance shall be provided within sight of and not over 50 feet from the air conditioner. [CMC 903.7]
- Step light
- Landscape planters - see landscape plan for additional information

Wall Legend

- New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report.
- New 2x6 wall. Framing per structural & Insulation per T-24 Energy Report.
- New furring wall. Framing per structural & Insulation per T-24 Energy Report.
- New retaining wall & foundation. Framing per structural.
- 1-hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report.



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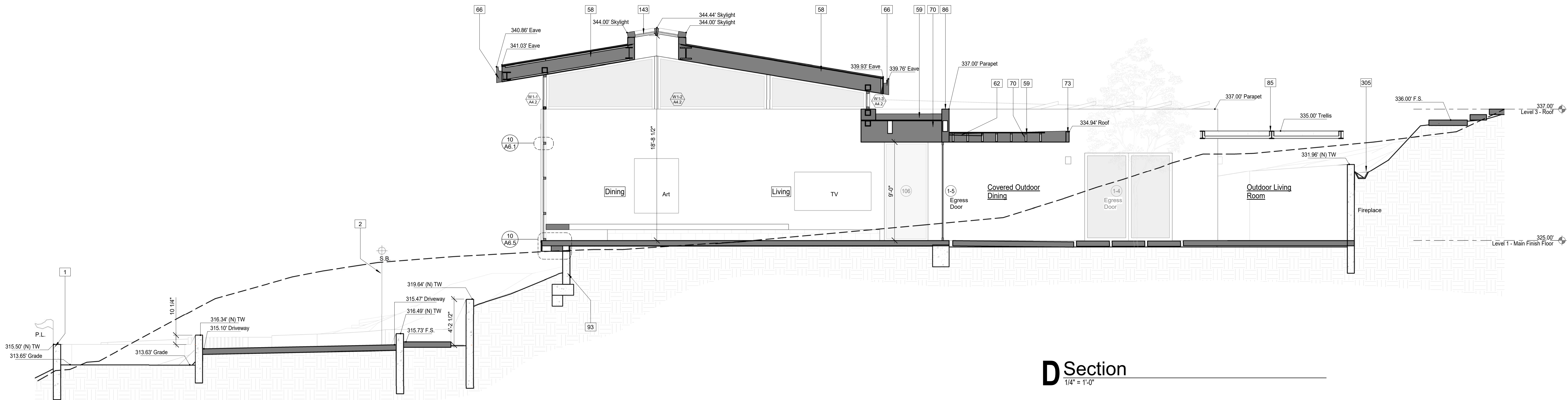
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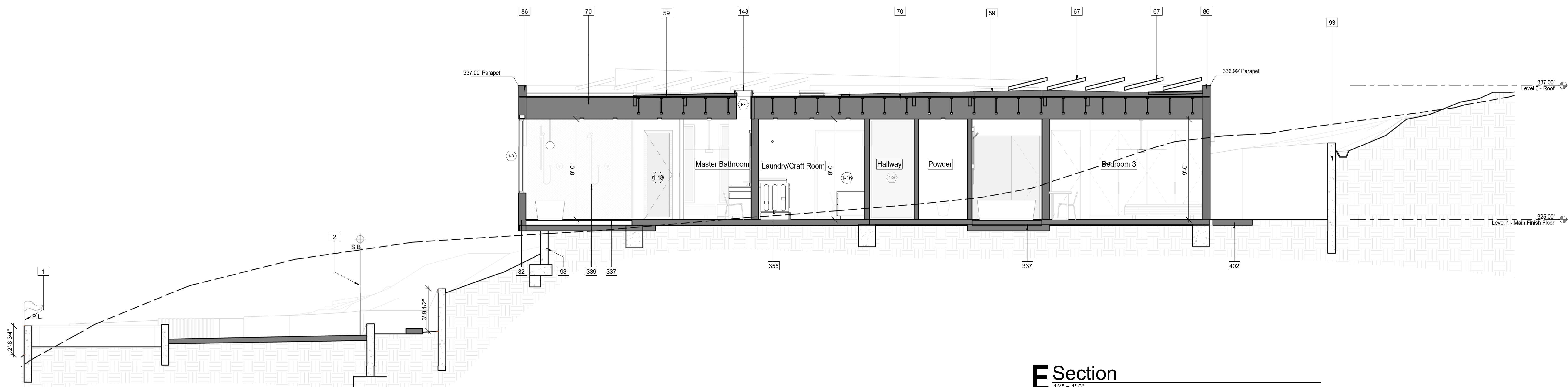
Section D+E+F

A3.4



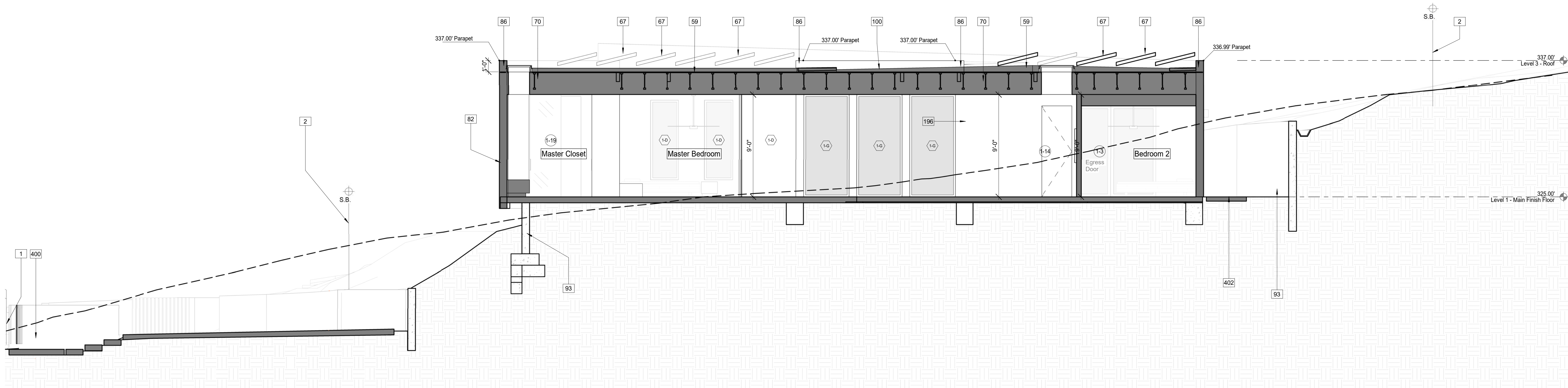
D Section

1/4" = 1'-0"



E Section

1/4" = 1'-0"



F Section

1/4" = 1'-0"

Keynotes

- 1 Property Line
- 2 Setback line - see site plan A1.1 for setback dimensions
- 58 Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.26 solar reflectance and 0.91 thermal emittance on all the sloped roof areas. Provide min. R-30 + R-5 insulation @ all nodes except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
- 59 Roof will be framed flat with rippers and plywood above for drainage slope. Cricket - slope to drain 1/4"/ft min.
- 66 Roof gutter painted dark bronze to match roof fascia. Gutter recess into the roof fascia.
- 67 Potential solar panels. Provide SC325 or sim. solar panels by SolarCity.
- 70 Roofing at flat areas to be TPO roofing system from GAF EverGuard Extreme45 TPO (Energy Gray) with 0.68 solar reflectance and 0.89 thermal emittance. Ductings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
- 73 Structure framing per structure engineer
- 82 Fire retardant treated wood siding - verify color & finish with architect
- 85 (N) metal frame painted dark bronze. Shop-metalized and primed prior to erection. See structural drawings for more structural information.
- 93 Parapet
- 93 New retaining wall & foundation design per structural plans. See structural drawings for more information.
- 100 7/8" Light smooth troweled Stucco w/ fiber mesh of expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 143 (N) Velux skylight w/ non-reflective glass and automatic sun shade (typ.) UL Listing E2651. See Title 24 report for additional information. See manufacturer specification A6.13 for more information
- 196 Provide power for lighted mirror. See lighting plan for more information.
- 305 V-Duct, see civil engineering plan for more information.
- 337 Curbside shower
- 339 Shower bar with hand held Shower head per owner see plumbing notes on A7.1 for additional information.
- 355 Washer & dryer
- 400 Landscape planters - see landscape plan for additional information
- 402 Concrete stepping pads

Wall Legend

- New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report.
- New 2x6 wall. Framing per structural & Insulation per T-24 Energy Report.
- New turring wall. Framing per structural & Insulation per T-24 Energy Report.
- New retaining wall & foundation. Framing per structural.
- 1Hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report.



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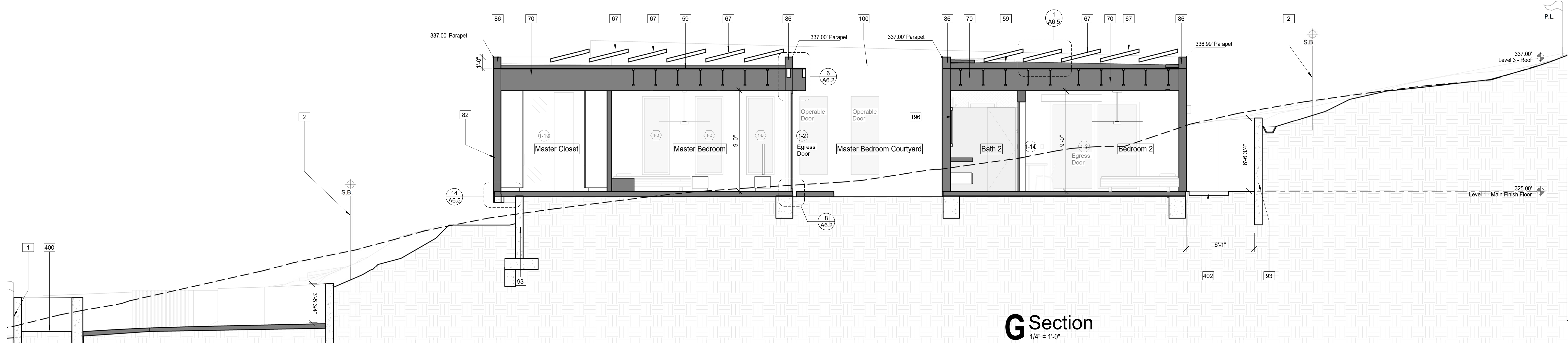
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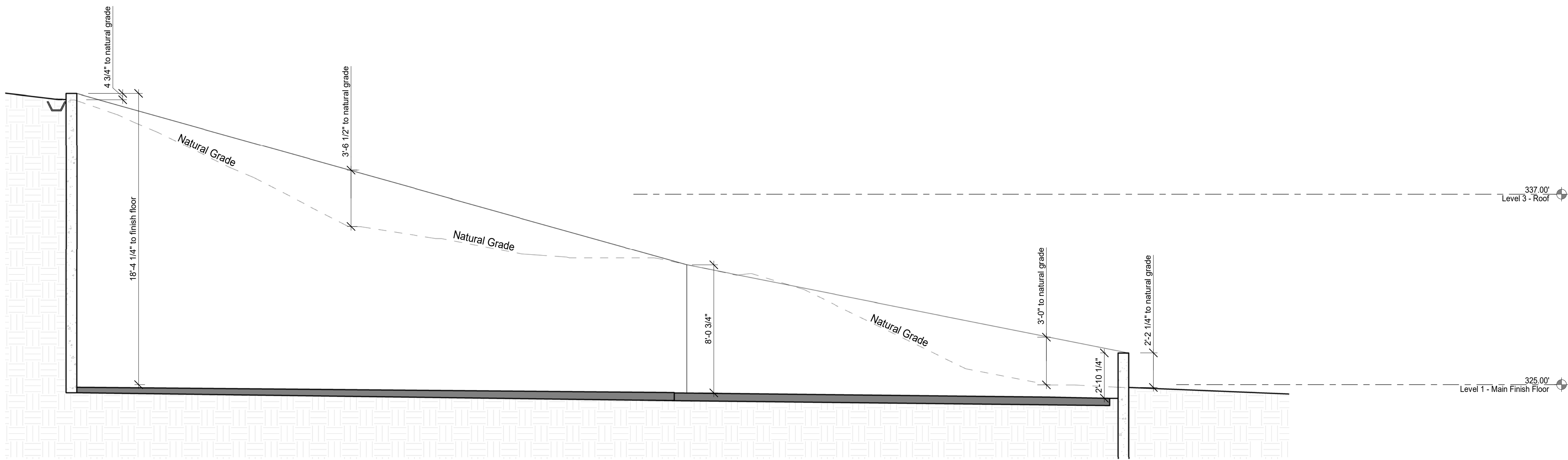
Sections G+H

A3.5



Keynotes	
1	Property Line
2	Subsack line - see site plan A1.1 for setback dimensions
59	Roof will be framed flat with rippers and plywood above for drainage slope.
67	Potential solar panels. Provide SC325 or sim. solar panels by SolarCity.
70	Roofing at flat areas to be TPO roofing system from GAF EverGuard. ExtremeA® TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Drawings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
82	Fire retardant treated wood siding - verify color & finish with architect
86	Parapet
93	New retaining wall & foundation design per structural plans. See structural drawings for more information.
100	7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath or 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
196	Provide power for lighted mirror. See lighting plan for more information.
400	Landscape planters - see landscape plan for additional information
402	Concrete stepping pads

G Section
1/4" = 1'-0"



H Section H
1/4" = 1'-0"

Wall Legend

- New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report.
- New 2x6 wall. Framing per structural & Insulation per T-24 Energy Report.
- New furring wall. Framing per structural & Insulation per T-24 Energy Report.
- New retaining wall & foundation. Framing per structural.
- 1Hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report.



Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

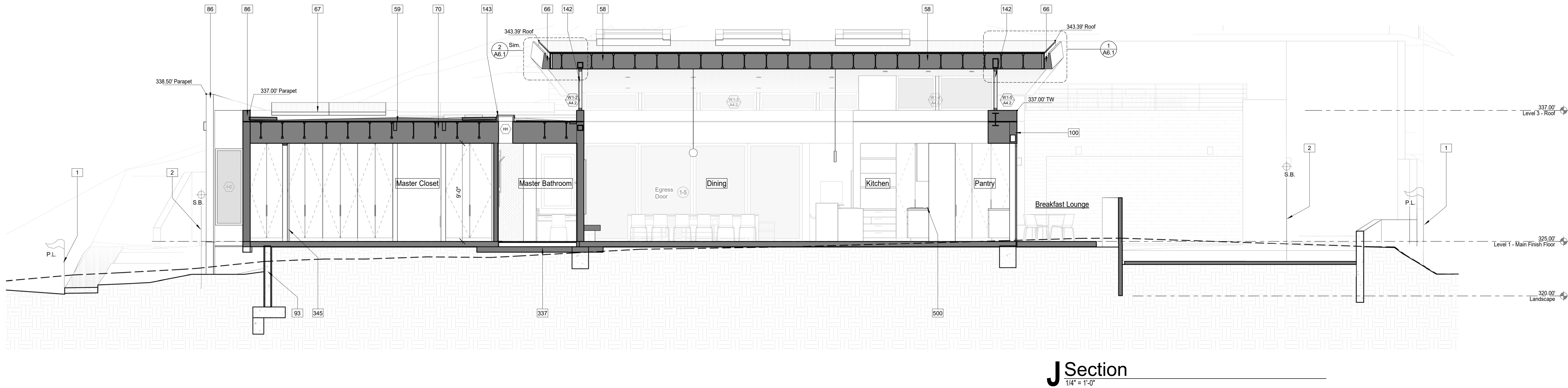
- 10/30/2020 - Orange County

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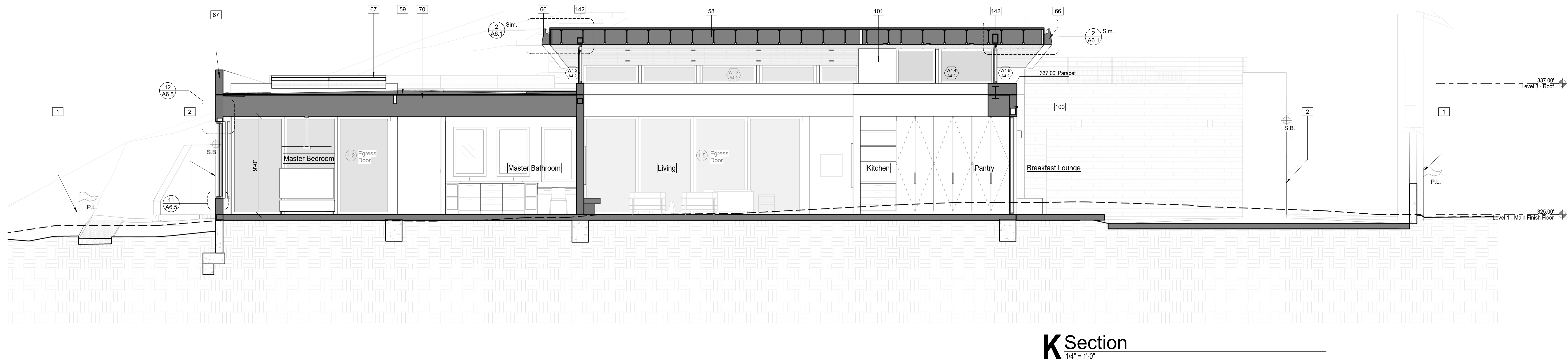
Section J+K+L

A3.6



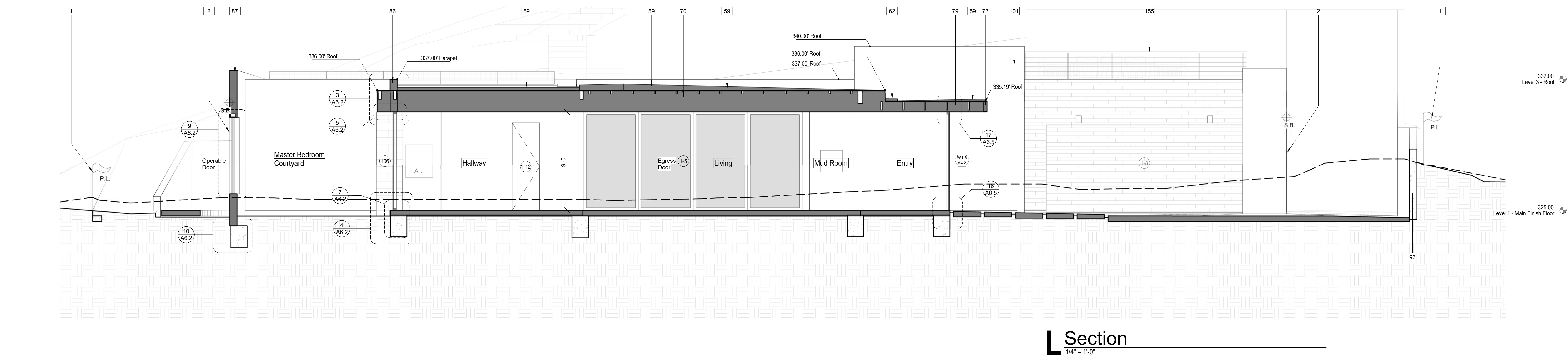
Keynotes

- 1 Property Line
- 2 Setback line - see site plan A1.1 for setback dimensions
- 58 Composition shingles roof from GAF Timberline Cool Series "Antique Slate" with 0.26 solar reflectance and 0.91 thermal emittance on all the sloped roof areas. Provide min. R-30 + R-5 insulation @ all roofs except the roof above the garage. See Title 24 report T24-1 to T24-2 for more information.
- 59 Roof will be framed full with rippers and plywood above for drainage slope. Cricket - slope to drain 1/4"/ft min.
- 66 Roof gutter painted dark bronze to match roof fascia. Gutter recess into the roof fascia.
- 67 Potential solar panels. Provide SC325 or sim. solar panels by SolarCity.
- 70 Roofing at flat areas to be TPO roofing system from GAF EverGuard ExtremeA6 TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Ductings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
- 73 Structure framing per structure engineer
- 79 Provide min. R-30 insulation @ all roofs except the roof above the garage. Provide a minimum of 2 inches of closed cell foam spray insulation to achieve unvented roof assembly. See Title 24 report T24-1 to T24-3 for more information.
- 86 Parapet
- 87 Sloped parapet/wall
- 93 New retaining wall & foundation design per structural plans. See structural drawings for more information.
- 100 7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 101 7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
- 142 Clerestory windows
- 143 (N) Velux skylight w/ non-reflective glass and automatic sun shade (typ.) UL Listing E2601. See Title 24 report for additional information. See manufacturer specification A6.13 for more information
- 155 Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.
- 337 Curbside shower
- 345 Barn door with Mirror for safe room
- 500 Downspout hood



K Section

1/4" = 1'-0"

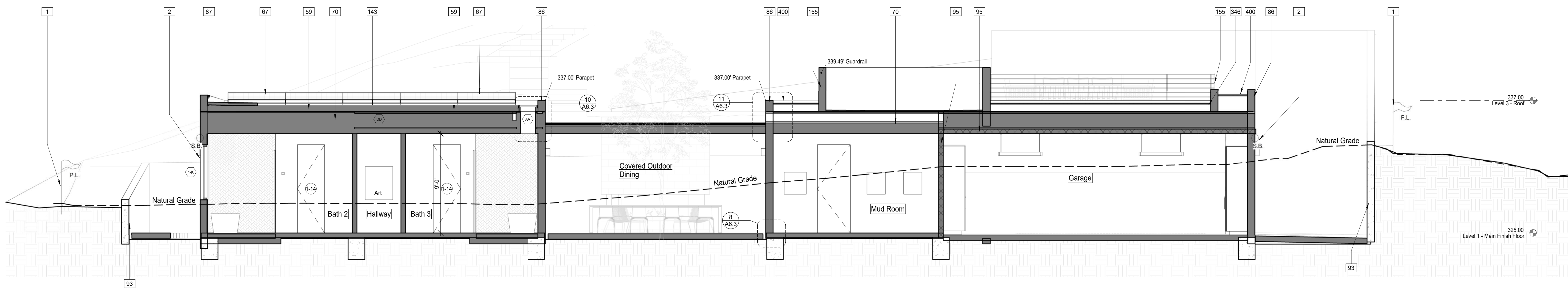


L Section

1/4" = 1'-0"

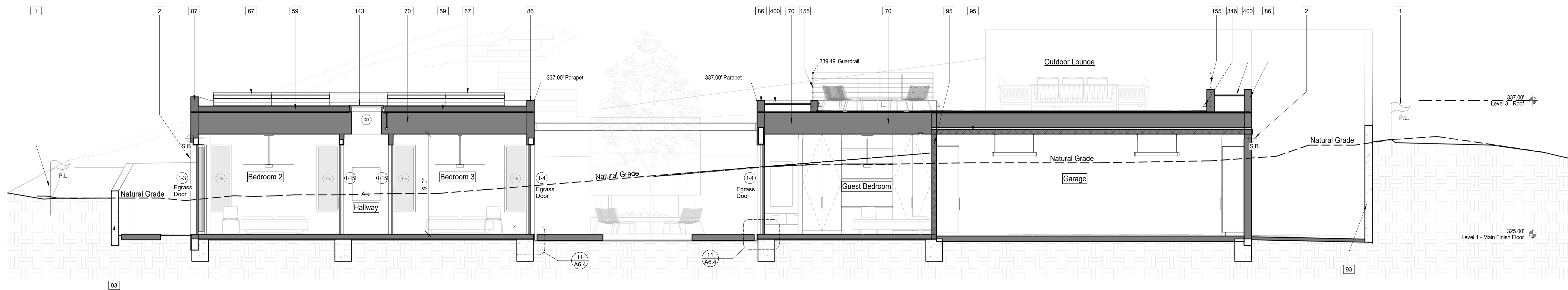
Wall Legend

- New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report.
- New 2x6 wall. Framing per structural & Insulation per T-24 Energy Report.
- New turring wall. Framing per structural & Insulation per T-24 Energy Report.
- New retaining wall & foundation. Framing per structural.
- 1Hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report.



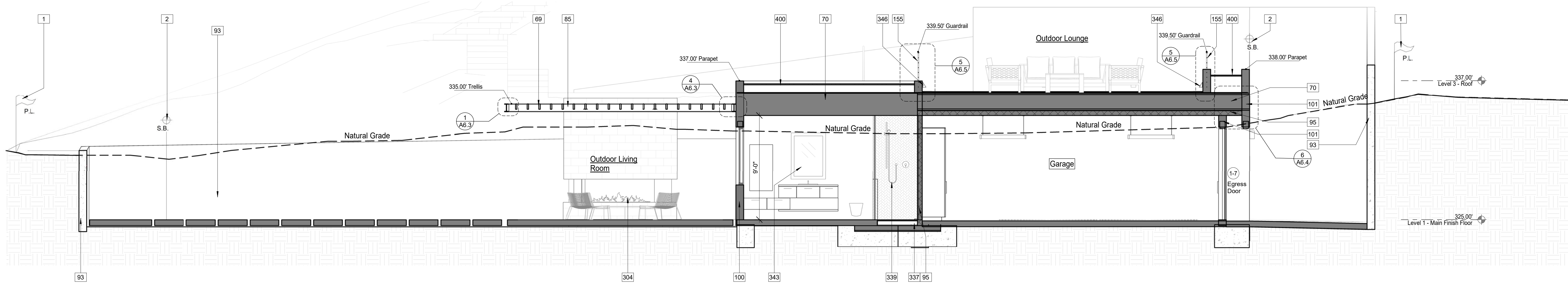
M Section

1/4" = 1'-0"



N Section

1/4" = 1'-0"



P Section

1/4" = 1'-0"

Keynotes

1	Property Line
2	Setback line - see site plan A1.1 for setback dimensions
59	Roof will be framed flat with rippers and plywood above for drainage slope.
67	Potential solar panels. Provide SC320 or sim. solar panels by SolarCity.
69	(N) 2x fire retardant treated wood trillis painted dark bronze
70	Roofing at flat areas to be TPO roofing system from GAF EverGuard
	Extremis TPO (Energy Gray) with 0.66 solar reflectance and 0.89 thermal emittance. Drawings will be below the structural framing where occurs. Install roofing per manufacturer requirements and specifications.
85	(N) metal frame painted dark bronze. Shop metalized and primed prior to erection. See structural drawings for more structural information.
86	Parapet
87	Slipped parapet/wall
93	New retaining wall & foundation design per structural plans. See structural drawings for more information.
95	Garage shall be separated from the dwelling unit by a vertical wall from the slab through the attic to the roof sheathing with 1 layer of 5/8" Type "X" gypsum board on the garage side - min. (Table R502.5)
100	7/8" Light smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
101	7/8" Dark smooth troweled Stucco w/ fiber mesh or expanded metal lath of 2 layers Grade "D" building paper. Verify stucco control joint locations and color with owner and architect. Contractor to provide 1"x1" color sample for owner and architect for approval prior to order and install.
143	(N) Velux skylight w/ non-reflective glass and automatic sun shade (typ.) UL Listing E20851. See Title 24 report for additional information. See manufacturer specification A6.13 for more information
155	Steel guardrail @ 42" above F.S., metalized & painted dark bronze. Contractor to provide shop drawings to architect prior to order and installation.
304	Ortal 170 gas only fireplace, ANSI Z21.88/CSA 2.33-2018 See fireplace reports and specification on sheet A6.12 for more information. Any installed gas fireplace shall be a direct vent-sealed combustion type [COC 4.503.1]
337	Curbless shower
339	Shower bar with hand held Shower head per owner see plumbing notes on A7.1 for additional information.
343	Lighted Mirror
346	Step light
400	Landscape planters - see landscape plan for additional information

Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

1	12/10/2020 County PC rev 1
2	03/26/2020 County PC rev 2
3	
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1	10/30/2020 - Orange County
2	
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Sections M+N+P

A3.7



Door and Window Notes

ALL GLAZING IN NEW DOORS AND WINDOWS TO BE DUAL PANE W/ AT LEAST ONE PANE TEMPERED

- The contractor is to field verify all door, window, skylight and fixture rough-ins prior to ordering.
- All glass and glazing to conform to Chapter 24 CBC.
- All glazing to be low-e unless otherwise noted.
- All new glazing to be installed with certifying label attached showing u-value.
- All exterior doors to be weather stripped.
- All glazing in shower and tub enclosures and within five feet of tub or shower floor shall be tempered or laminated safety glass.
- Safety glazing as described in CBC Section 2406 shall be provided in all hazardous locations as defined in CBC 2406.4, and specifically as follows:

Glazing in all ingress and egress doors
Glazing in both fixed and sliding panels of sliding door assemblies
Glazing in all swinging doors (except jalousies)
Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers and in any building wall enclosing these compartments where the bottom exposed edge of glazing is less than 60 inches above a standing surface.
Glazing in an individual fixed or operable panel adjacent to a door where the nearest exposed edge of the glazing is within a 24-inch arc of either vertical edge of the door in a closed position and where the bottom exposed edge of glazing is less than 60 inches above the walking surface.

Provide safety glazing at all glass handrail locations.
- Each pane of safety glazing installed in hazardous locations shall be identified (acid etched, sand blasted, ceramic fired, etc) by a manufacturer's designation, the manufacturer or installer and the safety glazing standard which it complies. Multipane assemblies shall be identified per CRC R308.1.
- All glazing to be tinted to match (e) building unless noted otherwise.
Double glazed windows to have (1) panel tinted to face exterior and (1) panel clear glass to face interior. Verify color with architect and provide sample prior to ordering and installation.
- Provide shop drawings including details and wind load calculations for all field assembled (storefront) window and door/window assemblies 30 days prior to installation for review and approval by architect. Shop drawings not produced by manufacturer must be reviewed and approved by manufacturer as meeting with manufacturer specifications and design intent.
- Exterior doors and windows shall conform with Building Security Code as adopted by local jurisdictions.
- Openings in attics, floors or other enclosed areas shall be covered with corrosion resistant wire mesh not greater than 1/4" in any dimension except where such openings are equipped with sash and doors.

- Contractor shall ensure the use of all materials, methods and inspections required to obtain manufacturers warranty on all new doors, windows, skylights, translucent panel assemblies, and glazing assemblies.
- Operable portion of emergency escape and rescue openings to have:
• Minimum 24" clear height
• Minimum 20" clear width
• Minimum net clear opening of 5.7 S.F. (5.0 S.F. for ground floor)
• Maximum 44" sill height
• Shall conform with Section 1029 CBC
• Window control opening device shall not reduce the required net clear opening area of the window R312.2.2
• Shall open directly into a public way, or to a yard or court that opens to a public way. Yard or court must comply with the definition, "An open space, unobstructed from the ground to the sky".
- All fire door assemblies with a minimum rating of 20 minutes to be: NFPA 252 or UL 10C listed, provided smoke seals, UL 1784 listed and installed per NFPA 105
- All glazing in new doors and windows to be dual pane except at but joint conditions.
- All fenestrations must have temporary and permanent labels. Temporary labels are to remain on windows until final inspections has been completed.
- All new windows and doors to be dark bronze metal frame w/ wood interior, unless noted otherwise.
- Glazing frames made of vinyl materials shall have welded corners and metal reinforcement in the interlock area.
- All exterior doors to comply with one of the following: (CBC 708A.3, CRC R337.8.3)
a) Noncombustible or ignition-resistant material.
b) Constructed of solid core wood and with the following requirements.L
c) Stiles and rails shall not be less than 1 3/8 inches thick.
c) Raised panels shall not be less than 1 1/4 inches thick, except for the exterior perimeter of the raised panel that may taper to a tongue not less than 3/8 inch thick.
e) 20 minute fire-resistance rating (listed and approved assembly).
- Handles, pulls, latches, locks, and other operable parts on doors and gates that are in a path of travel shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. Force required to activate such parts shall be 5 pounds' maximum. (11B-309.4). Operable parts of such hardware shall be 34" minimum and 44" maximum above the finish floor or ground (11B-404.2.7).
- Swinging door and gate surfaces within 10' of the finish floor shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/19" of the same plane as the other. (11B-404.2.10).
- Maximum force to for pushing or pulling open, exterior or interior hinged doors with closer and sliding or folding doors, shall not exceed five pounds. Minimum allowable opening force, for fire doors, not to exceed 15 pounds. (11B-404.2.9).

Door Schedule

NOTE:
THE DIMENSIONS INDICATED ON THIS SCHEDULE ARE THE INTENDED ROUGHT OPENING DIMENSIONS. HOWEVER, IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FRAMING STAGE PRIOR TO ORDERING WINDOWS AND DOORS. ALL EXTERIOR DOORS SHALL BE NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL. SEE TYPAL DOOR AND WINDOW PENETRATION ASSEMBLY AND DOOR AND WINDOW SILL DETAIL FOR ALL DOOR AND WINDOW INSTALLATIONS HEREIN.

Symbol	Width	Height	Door Material	U-factor	SHGC	Glazing	Rating	Door Finish	Frame Finish	Quantity	Swing	Tempered	Exterior / Interior	Remarks
1-0	3'-10"	8'-9 1/2"	Wood	0.5						1	No	No	Exterior	Entry Wood door
1-1	3'-0"	9'-0"	Glass	.33	.23					1	Yes	Yes	Interior	Egress Door, Bug screen
1-2	14'-6"	9'-0"	Glass	.33	.23					1	Yes	Yes	Exterior	Egress Door
1-3	8'-0"	8'-0"	Glass	.33	.23					1	Yes	Yes	Exterior	Egress Door, Bug screen
1-4	8'-0"	8'-0"	Glass	.33	.23					2	Yes	Yes	Exterior	Egress Door, Bug screen
1-5	10'-0"	9'-0"	Glass	.33	.23					2	Yes	Yes	Exterior	Egress Door, Bug screen
1-7	3'-0"	8'-0"	Wood	0.5						1			Exterior	Garage side door/ Egress door
1-8	18'-0"	8'-0"	Wood	0.5						1			Exterior	Garage Door
1-10	3'-0"	8'-0"	Wood	0.5						1			Interior	1 hour fire rated interior door
1-11	3'-0"	8'-0"	Wood							1			Interior	Guest bedroom door
1-12	2'-6"	8'-0"	Glass & Wood							1			Interior	Powder room door
1-13	2'-6"	8'-0"	Wood							1			Interior	Mech Door
1-14	2'-6"	8'-0"	Glass & Wood							2			Interior	Bathroom 2 & 3 doors
1-15	2'-8"	8'-0"	Wood							2			Interior	Bedroom 2 & 3 Doors
1-16	4'-6"	8'-0"	Glass & Wood							1			Interior	Laundry/ Craft Room Door
1-17	4'-0"	9'-0"	Wood							1			Interior	Master bedroom door
1-18	2'-6"	8'-0"	Glass & Wood							1			Interior	Master bath toilet door. Maybe opaque door
1-19	3'-6"	8'-10"	Glass & Wood							1			Interior	Door with Mirror.

Window Schedule

See Door and Window Notes #7 on A4.1 for the safety glazing as described in CBC Section 2406 shall be provided in all hazardous locations as defined in CBC 2406.4.

NOTE:
ALL NEW WINDOWS TO MATCH LOOK AND FINISH OF EXISTING UNLESS NOTED OTHERWISE.
THE DIMENSIONS INDICATED ON THIS SCHEDULE ARE THE INTENDED ROUGHT OPENING DIMENSIONS. HOWEVER, IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FRAMING STAGE PRIOR TO ORDERING WINDOWS AND DOORS. ALL EXTERIOR WINDOWS SHALL BE NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL. SEE TYPAL DOOR AND WINDOW PENETRATION ASSEMBLY AND DOOR AND WINDOW SILL DETAIL FOR ALL DOOR AND WINDOW INSTALLATIONS HEREIN.

All Storefront Type Windows: U-Factor = 0.32 SHGC = 0.28														
Symbol	Width	Height	Egress Requirements	U-Factor	SHGC	Glazing	Configuration	Exterior Frame Material	Interior Frame Material	Tempered				Remarks
1-A	13'-7"	5'-6"	No	.31	.24	D	Operable			Yes				Bug Screen
1-B	3'-0"	6'-8"	No	.31	.24	D	Operable			Yes				Bug Screen
1-C	2'-6"	7'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-D	2'-6"	7'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-E	2'-6"	6'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-F	2'-6"	7'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-G	4'-0"	9'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-H	2'-0"	7'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-J	10'-2"	8'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-K	2'-6"	5'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-L	2'-6"	5'-0"	No	.31	.24	D	Operable			Yes				Bug Screen
1-M	3'-0"	8'-0"	No	.31	.24	D	Operable			Yes				Bug Screen

Window Wall Schedule - See A4.2-A4.3

See Door and Window Notes #7 on A4.1 for the safety glazing as described in CBC Section 2406 shall be provided in all hazardous locations as defined in CBC 2406.4.

NOTE:
ALL NEW WINDOWS TO MATCH LOOK AND FINISH OF EXISTING UNLESS NOTED OTHERWISE.
THE DIMENSIONS INDICATED ON THIS SCHEDULE ARE THE INTENDED ROUGHT OPENING DIMENSIONS. HOWEVER, IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FRAMING STAGE PRIOR TO ORDERING WINDOWS AND DOORS. ALL EXTERIOR WINDOWS SHALL BE NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL. SEE TYPAL DOOR AND WINDOW PENETRATION ASSEMBLY AND DOOR AND WINDOW SILL DETAIL FOR ALL DOOR AND WINDOW INSTALLATIONS HEREIN.

All Storefront Type Windows: U-Factor = 0.32 SHGC = 0.28														
Symbol	Sheet	Egress Requirements	U-Factor	SHGC	Glazing	Exterior Frame Material	Interior Frame Material	Tempered						Remarks
W1-1	A4.2	NO	0.31	0.24	D			YES						Bug Screen
W1-2	A4.2	NO	0.31	0.24	D			YES						Bug Screen
W1-3	A4.2	NO	0.31	0.24	D			YES						Bug Screen
W1-4	A4.2	NO	0.31	0.24	D			YES						Bug Screen
W1-5	A4.2	NO	0.31	0.24	D			YES						Bug Screen
W1-6	A4.2	NO	0.31	0.24	D			YES						Bug Screen

Skylight Schedule

NOTE:
SKYLIGHTS TO BE PROVIDED BY VELUX. ALL NEW SKYLIGHTS IN THE CITY OF LAGUNA BEACH TO BE EQUIPPED WITH AUTOMATED NIGHT SHADES.

Type Mark	Width	Height	Type Comments	Tempered	Count	Glazing	Frame Finish	U-Factor	SHGC					Remarks
AA	6'-4"	1'-8"	Operable	Yes	1	D	P	0.48	0.27					
BB	4'-6"	1'-8"	Operable	Yes	1	D	P	0.48	0.27					
DD	2'-0"	19'-0"	Operable	Yes	1	D	P	0.48	0.27					
EE	4'-0"	2'-1"	Operable	Yes	1	D	P	0.48	0.27					
FF	1'-7"	12'-2"	Operable	Yes	1	D	P	0.48	0.27					
GG	3'-10"	1'-8"	Operable	Yes	1	D	P	0.48	0.27					
HH	9'-8"	1'-7"	Operable	Yes	1	D	P	0.48	0.27					
JJ	4'-0"	2'-2"	Operable	Yes	1	D	P	0.48	0.27					
KK	4'-0"	5'-3 3/4"	Operable	Yes	3	D	P	0.48	0.27					

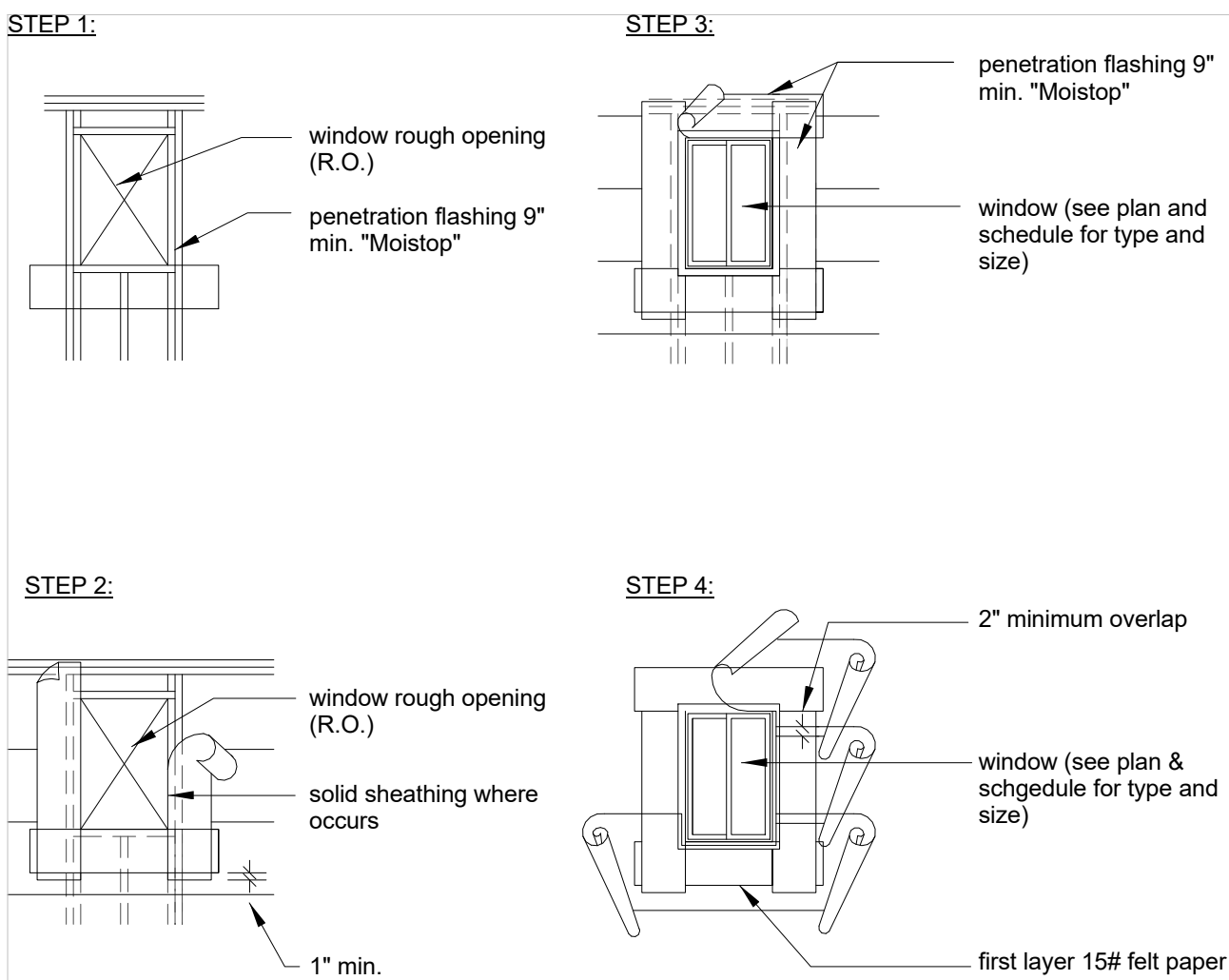
Door and Window Abbreviations

Egress: R - Required
NR - Not Required

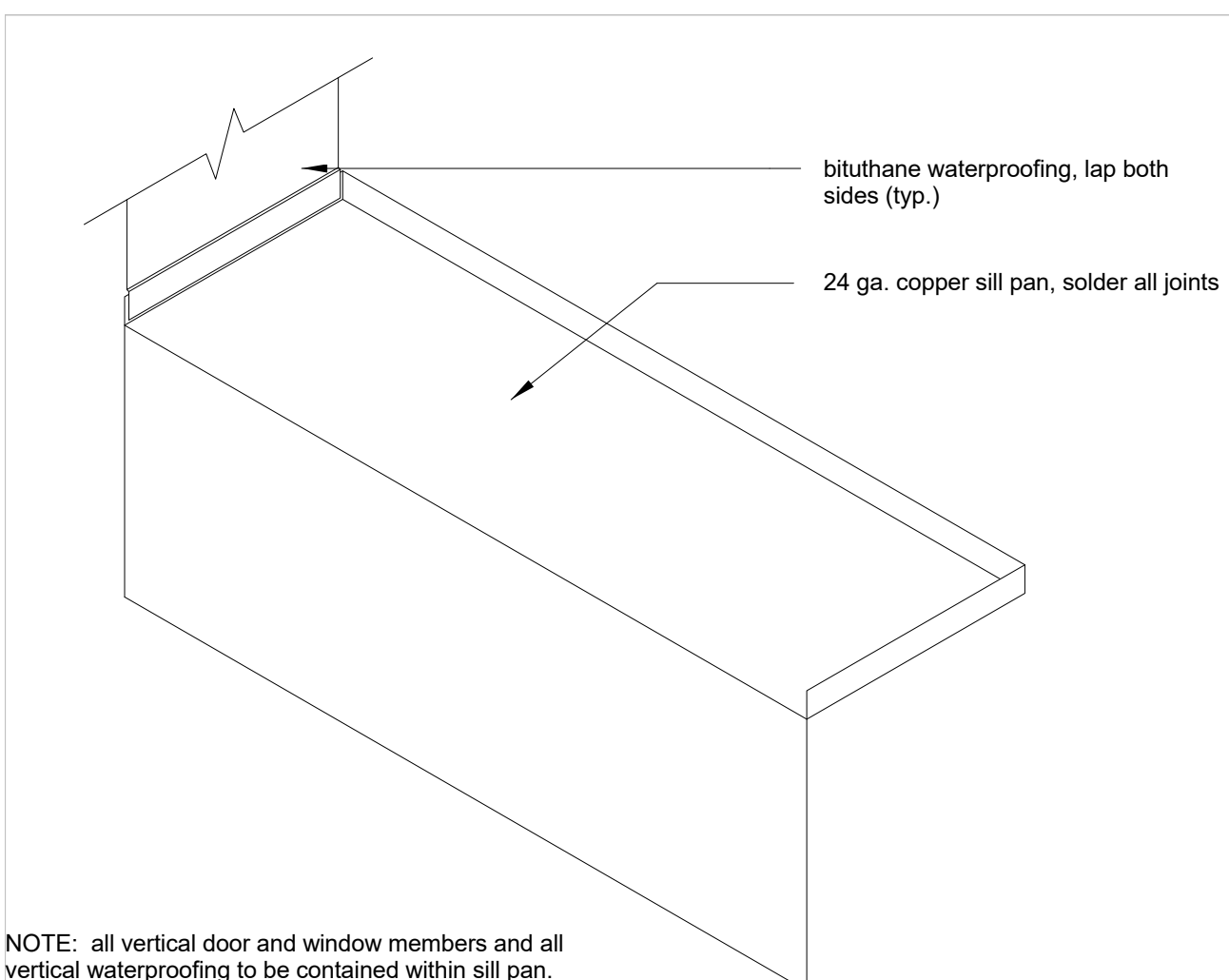
Glazing: D - Dual

Swing Type: OH - Overhead
SW - Swing
SL - Slide
PC - Pocket

General: TBD - To Be Determined



Typical Window Penetration 2
SCALE: 1 1/2" = 1'-0"



NOTE: all vertical door and window members and all vertical waterproofing to be contained within sill pan.

Sill Pan Door & Window 1
SCALE: 1 1/2" = 1'-0"

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2
-
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Issued

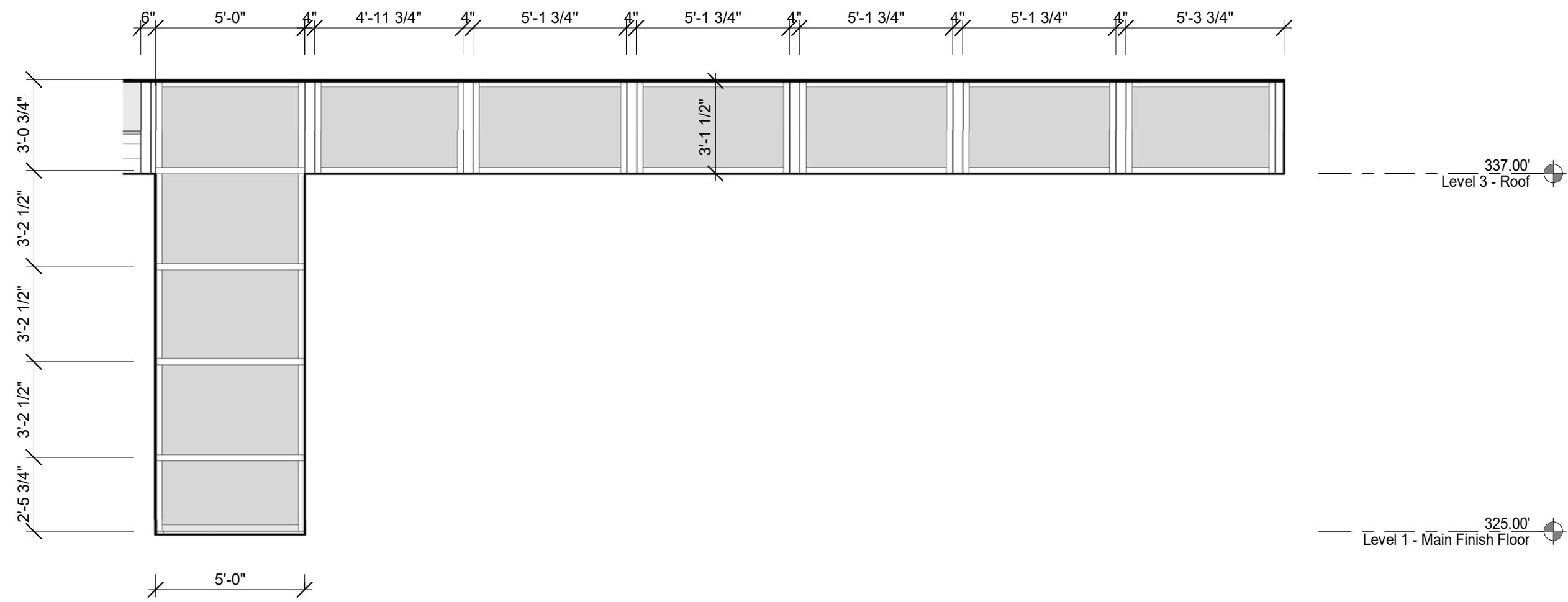
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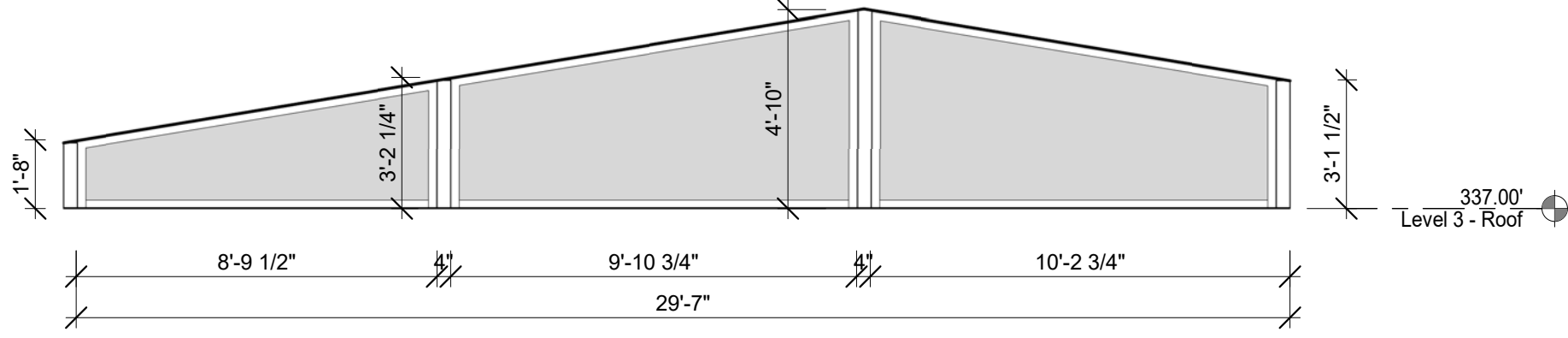
Door And Window Schedule/Notes

A4.1



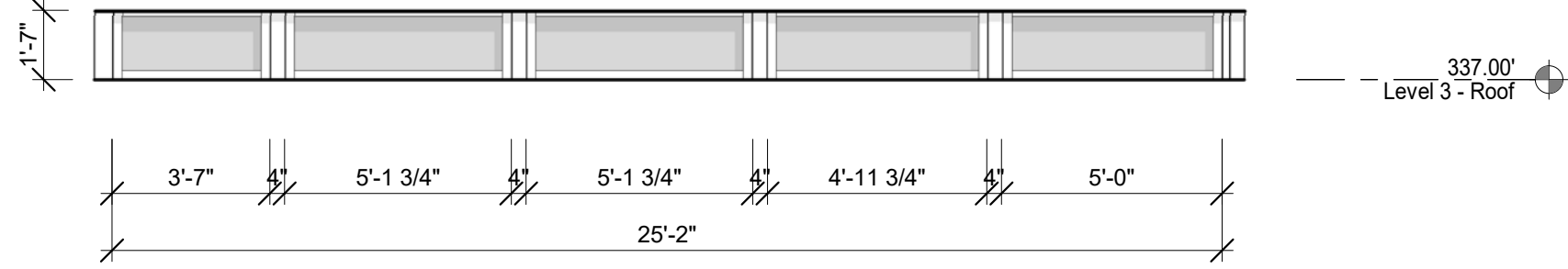
1 W1-1

1/4" = 1'-0"



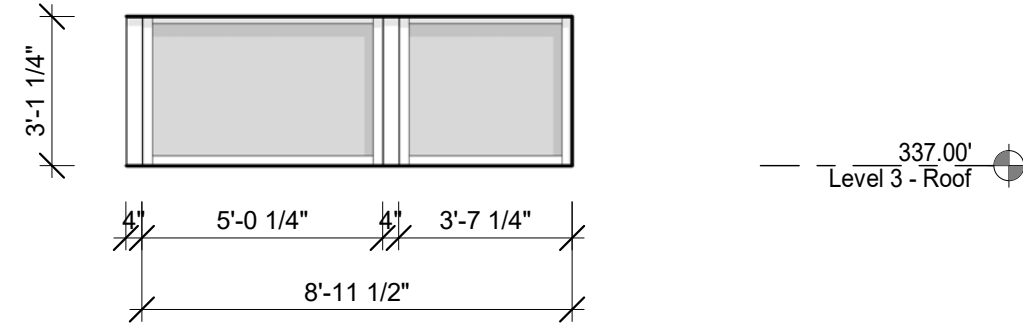
2 W1-2

1/4" = 1'-0"



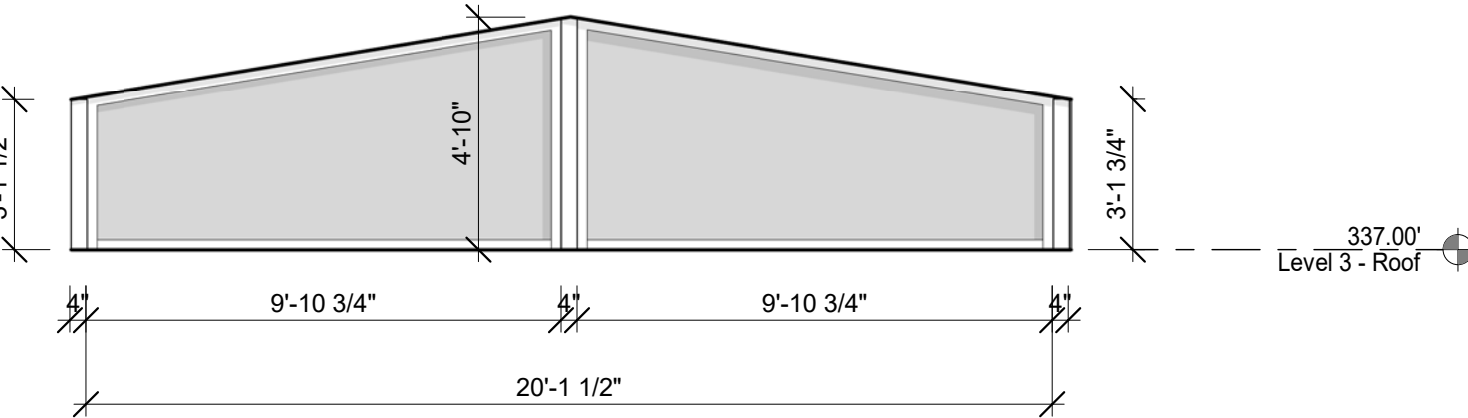
3 W1-3

1/4" = 1'-0"



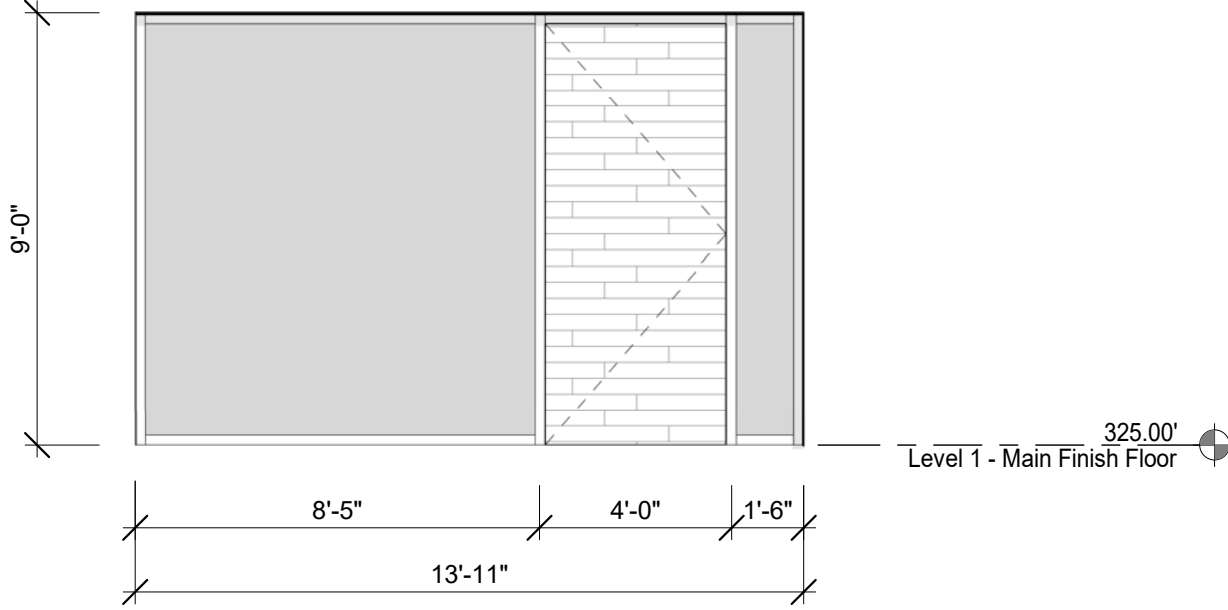
4 W1-4

1/4" = 1'-0"



5 W1-5

1/4" = 1'-0"



6 W1-6

1/4" = 1'-0"

See Door and Window Notes #7 on A4.1 for the safety glazing.



Wong Residence

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1901 Park Skyline Road,
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Revisions

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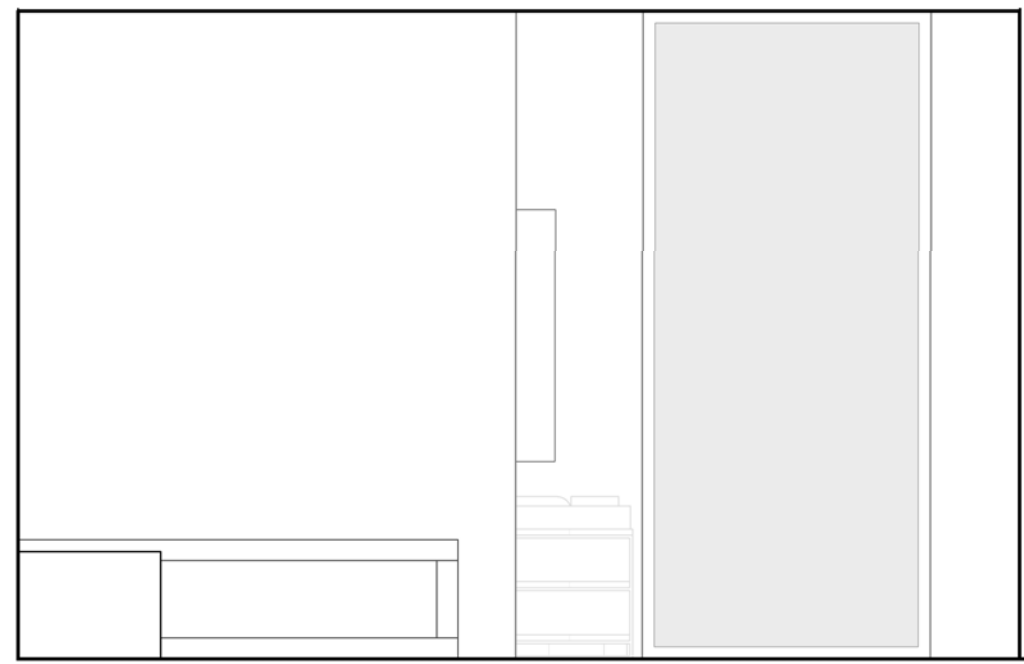
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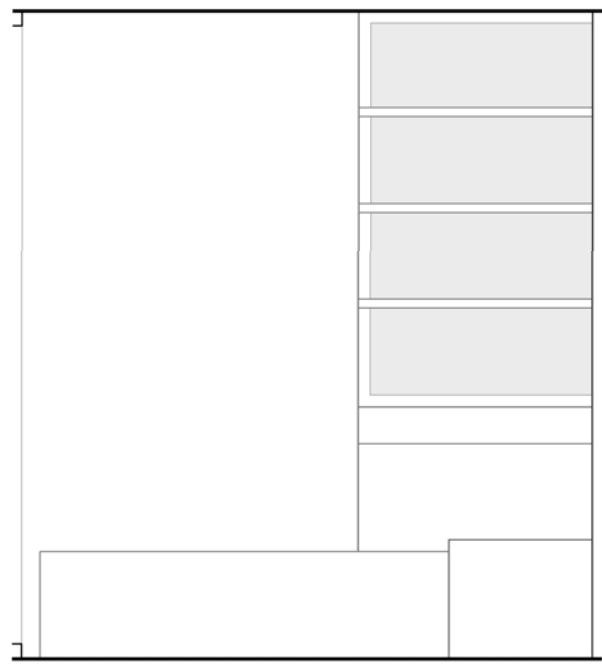
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Window Elevations

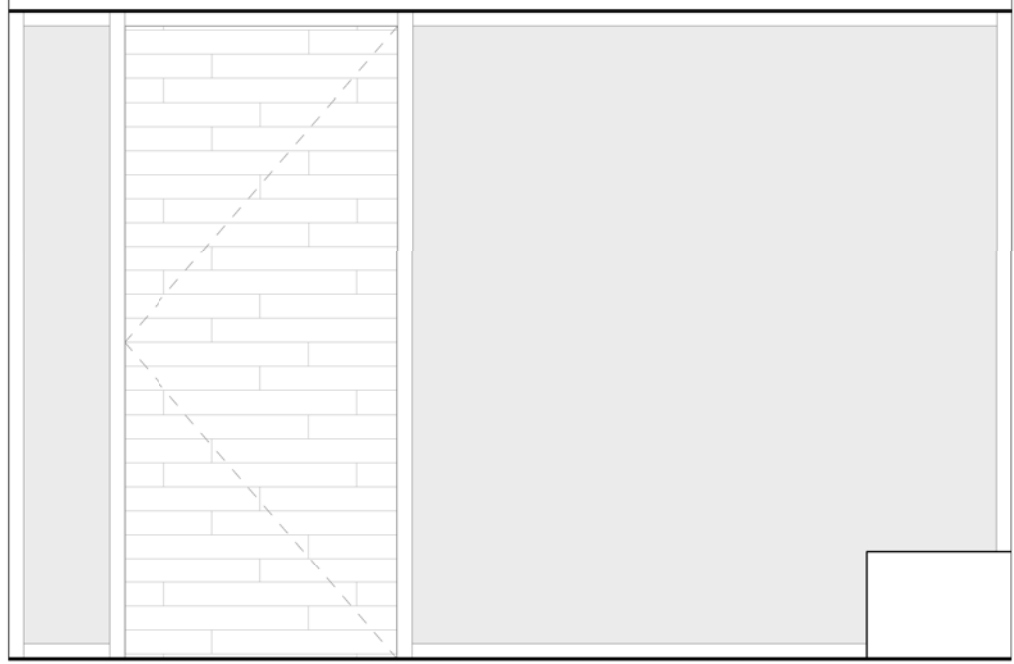
A4.2



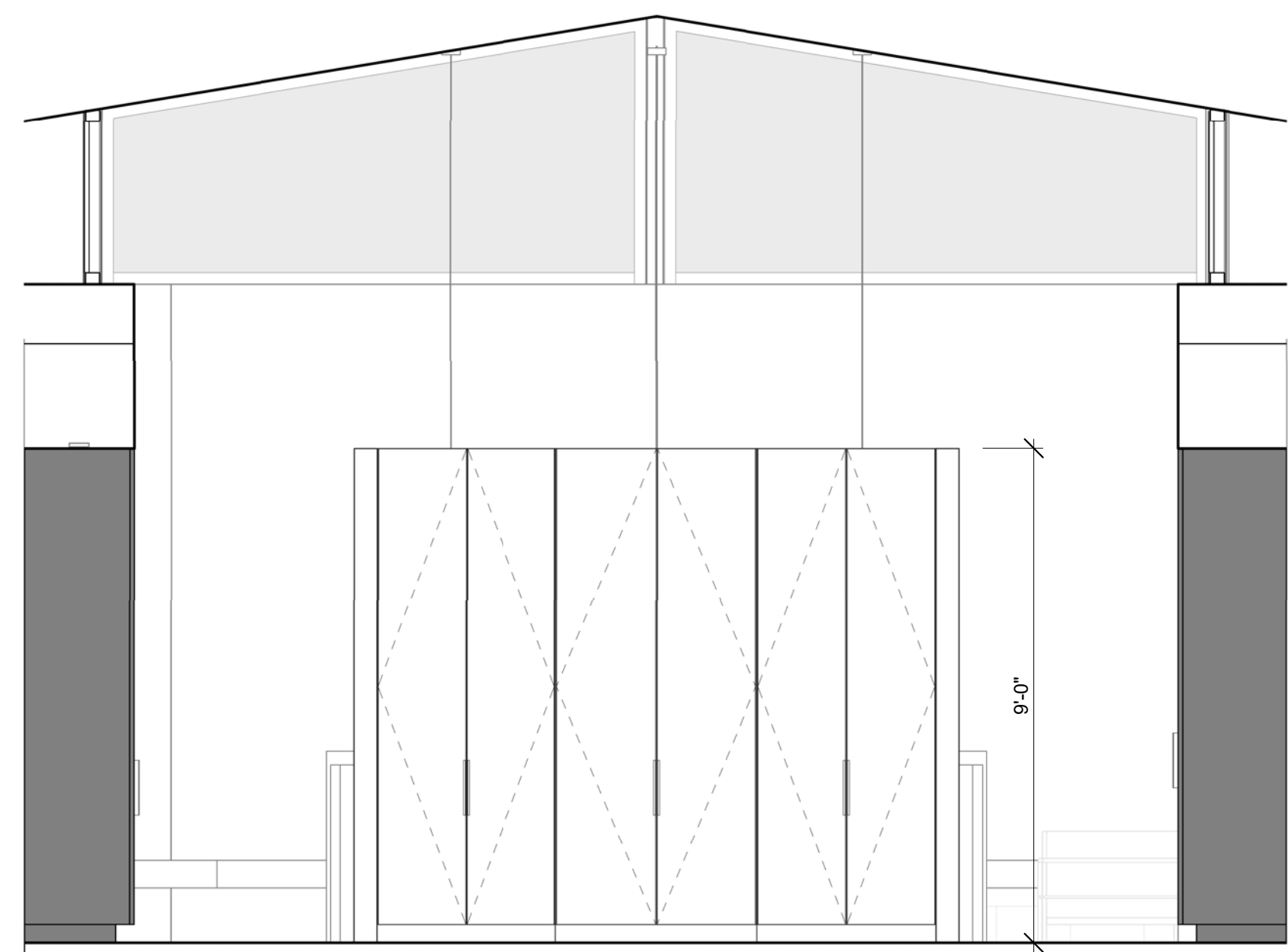
2 Entry
3/8" = 1'-0"



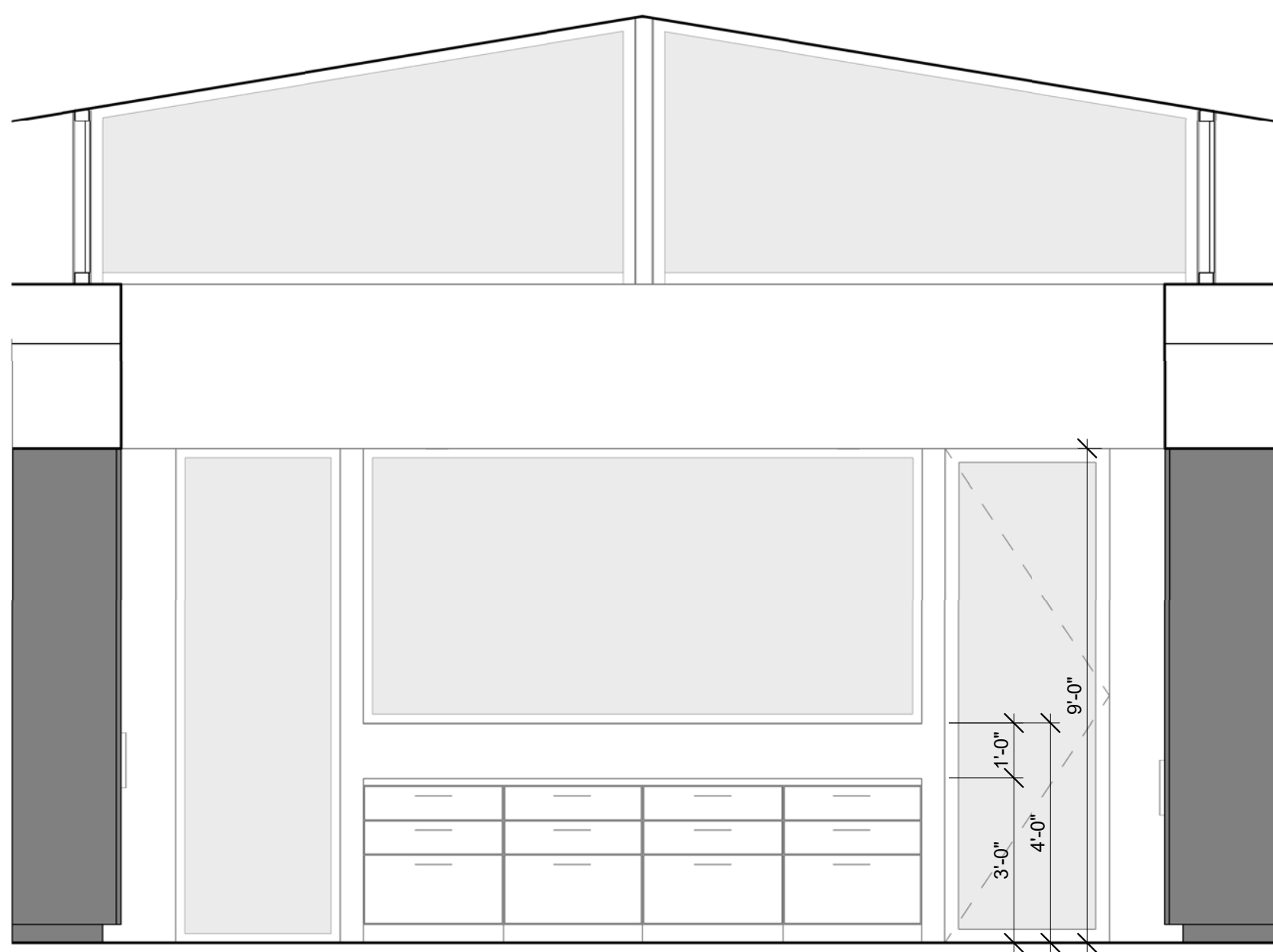
3 Entry
3/8" = 1'-0"



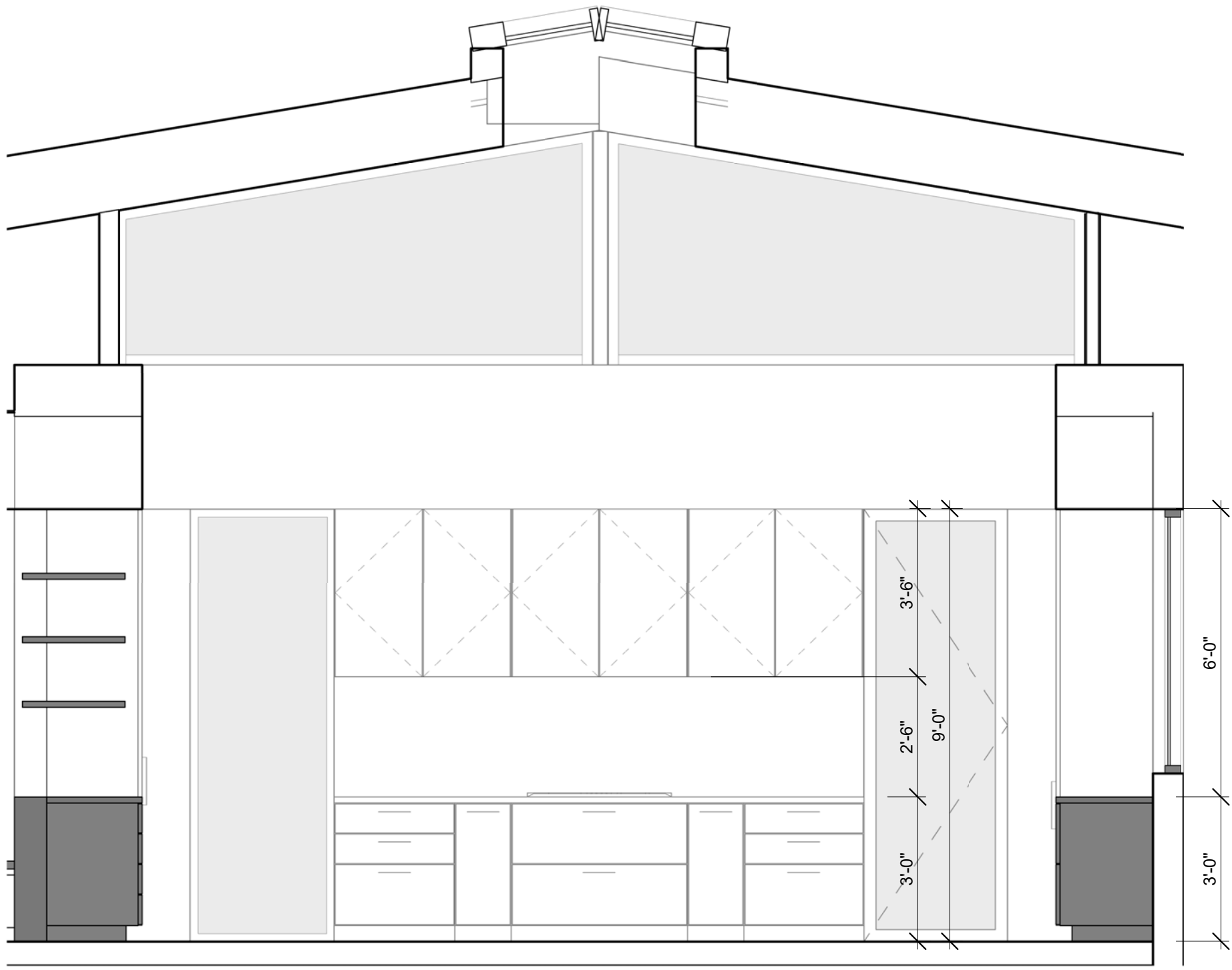
4 Entry
3/8" = 1'-0"



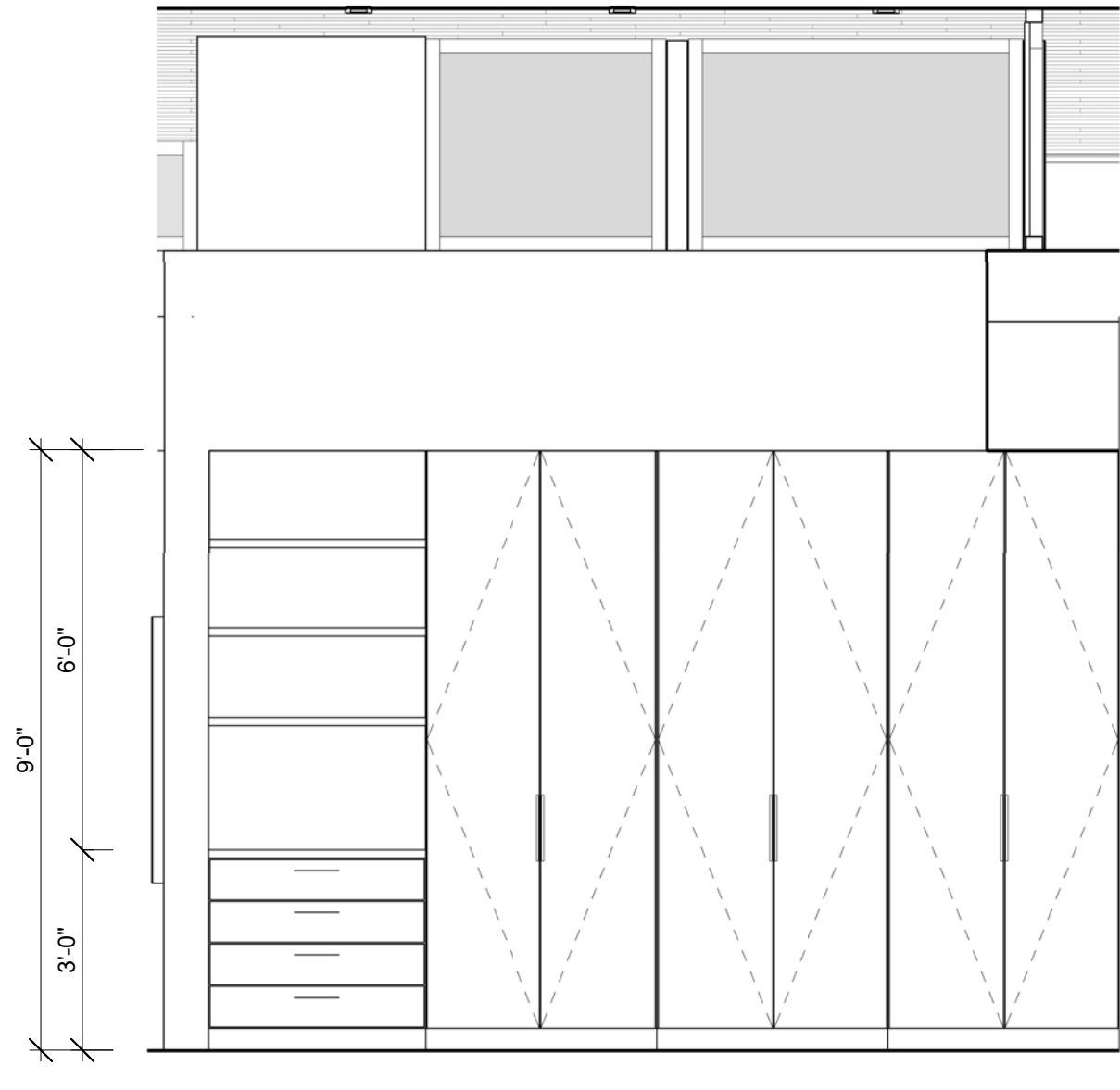
5 Pantry
3/8" = 1'-0"



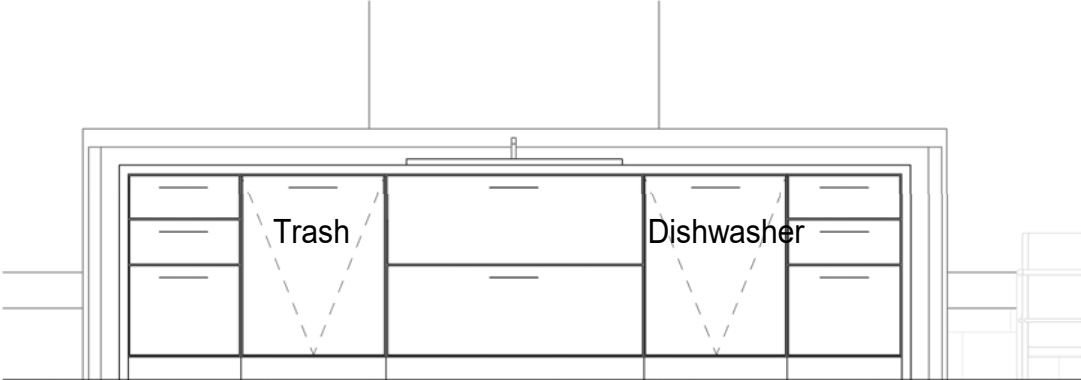
6 Pantry
3/8" = 1'-0"



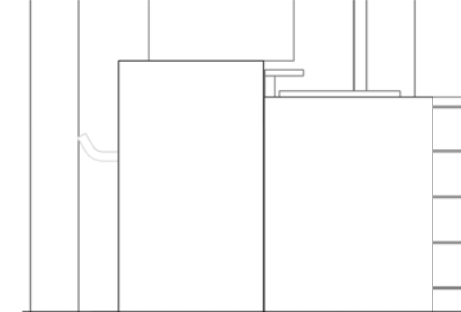
7 Kitchen
3/8" = 1'-0"



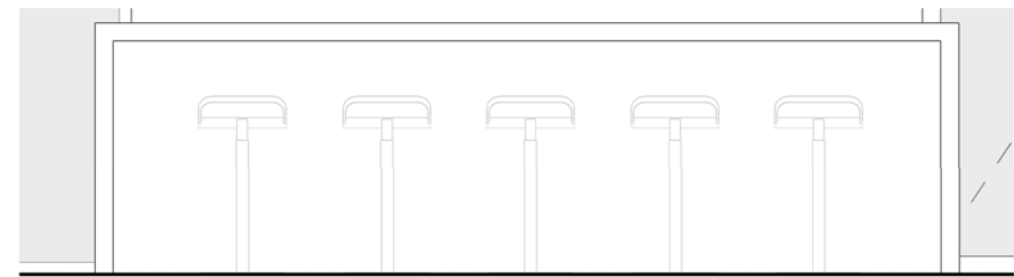
8 Kitchen/ Pantry
3/8" = 1'-0"



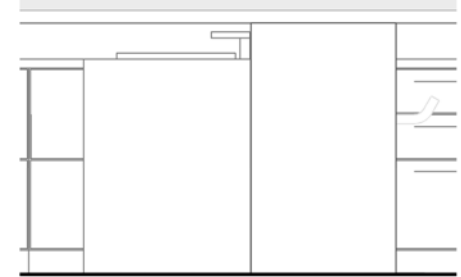
9 Kitchen Island
3/8" = 1'-0"



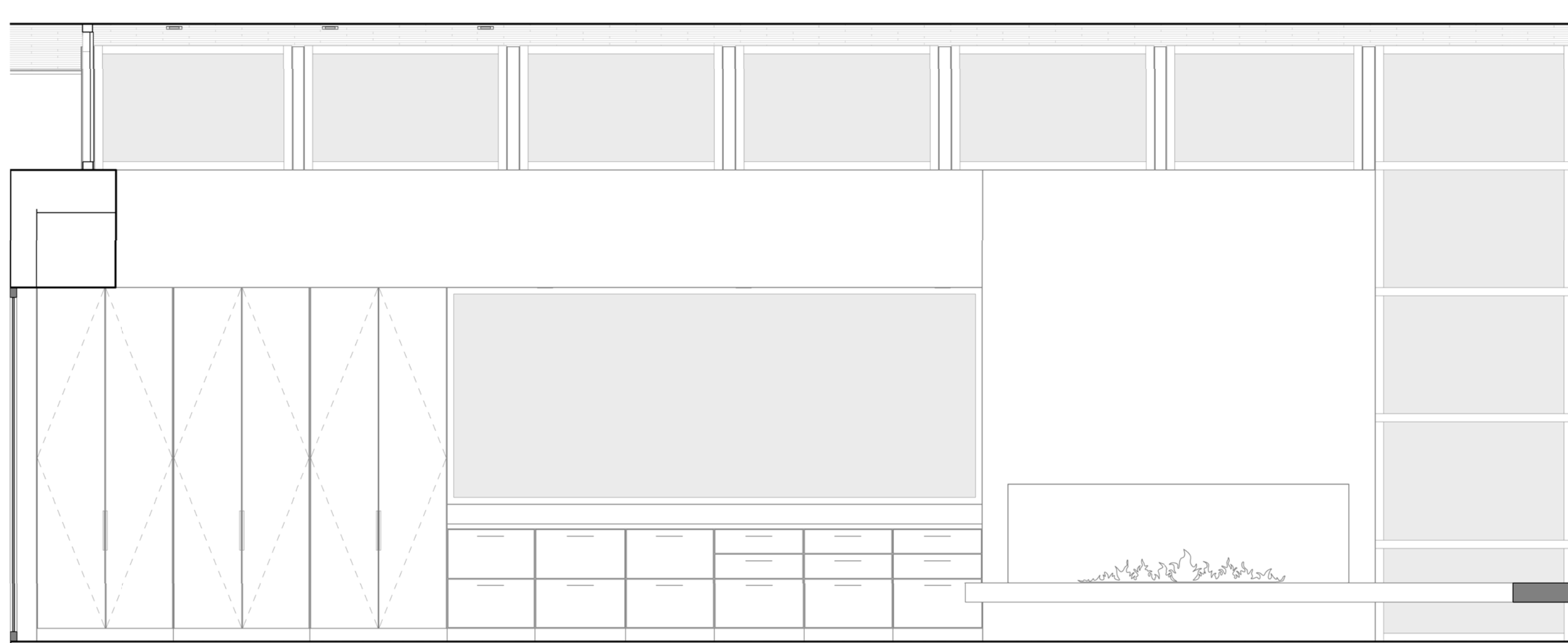
10 Kitchen Island
3/8" = 1'-0"



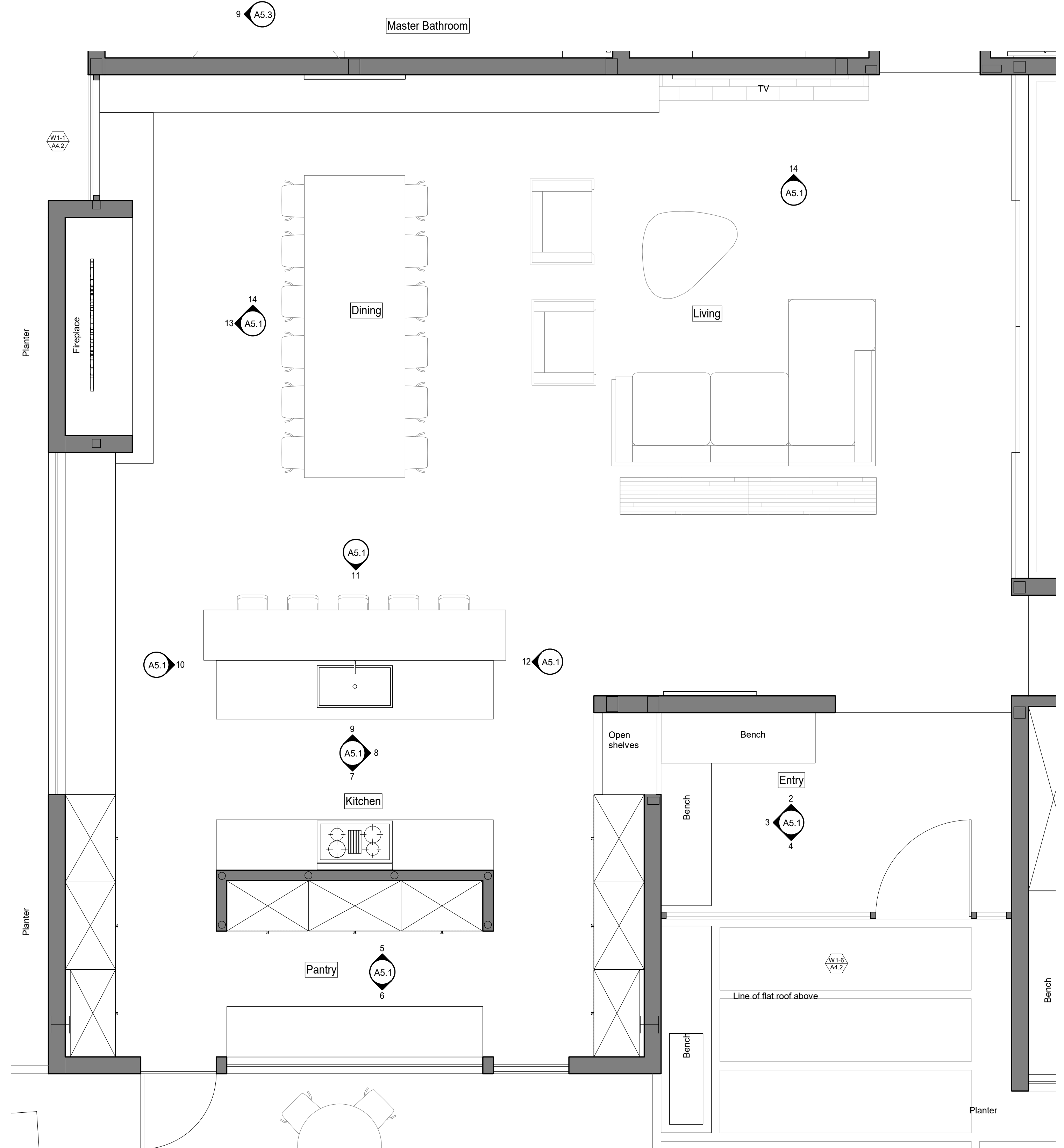
11 Kitchen Island
3/8" = 1'-0"



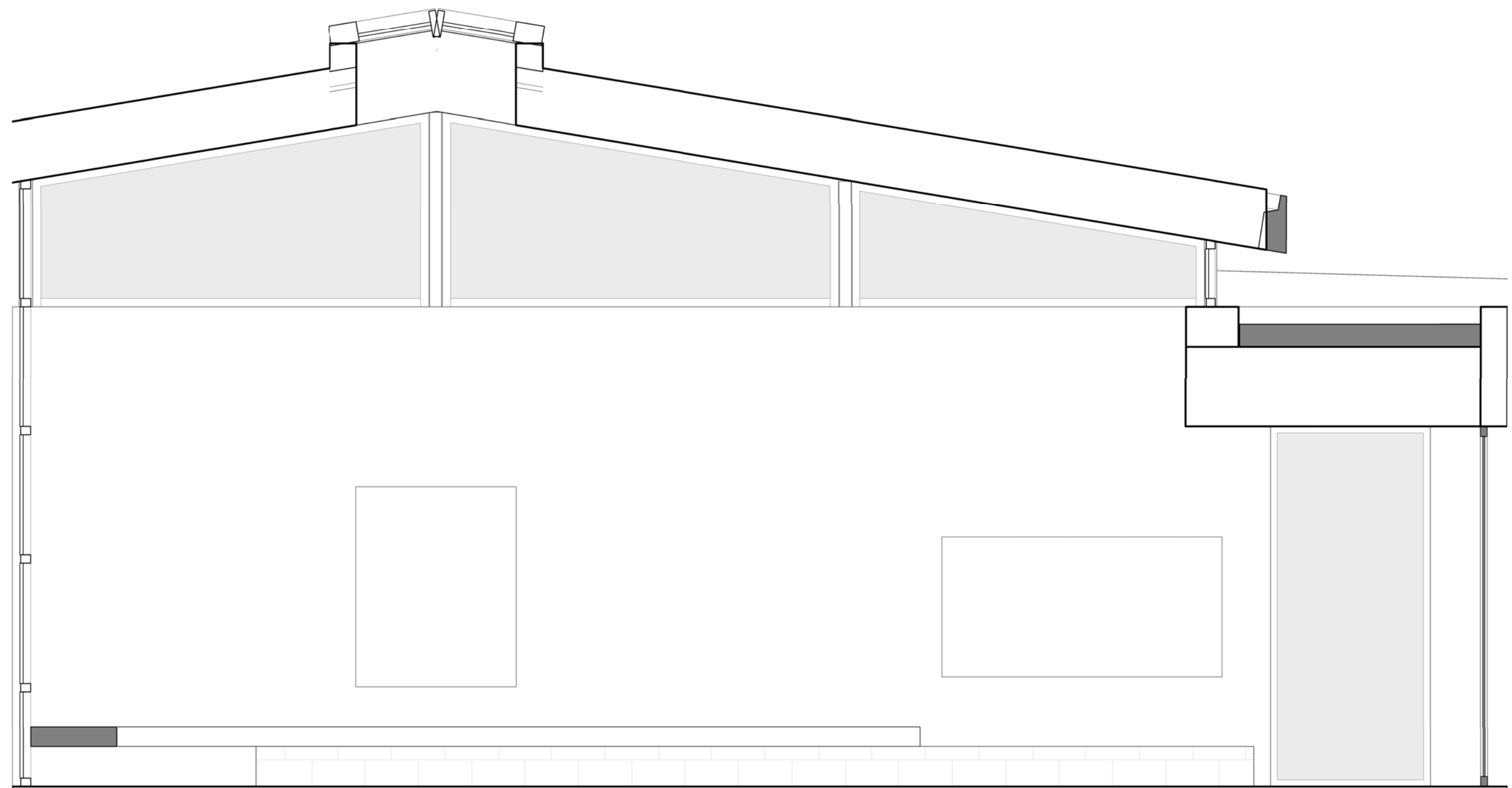
12 Kitchen Island
3/8" = 1'-0"



13 Pantry/Kitchen/Dining
3/8" = 1'-0"



1 House Floor Plan
3/8" = 1'-0"



14 Dining/Living
3/8" = 1'-0"

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

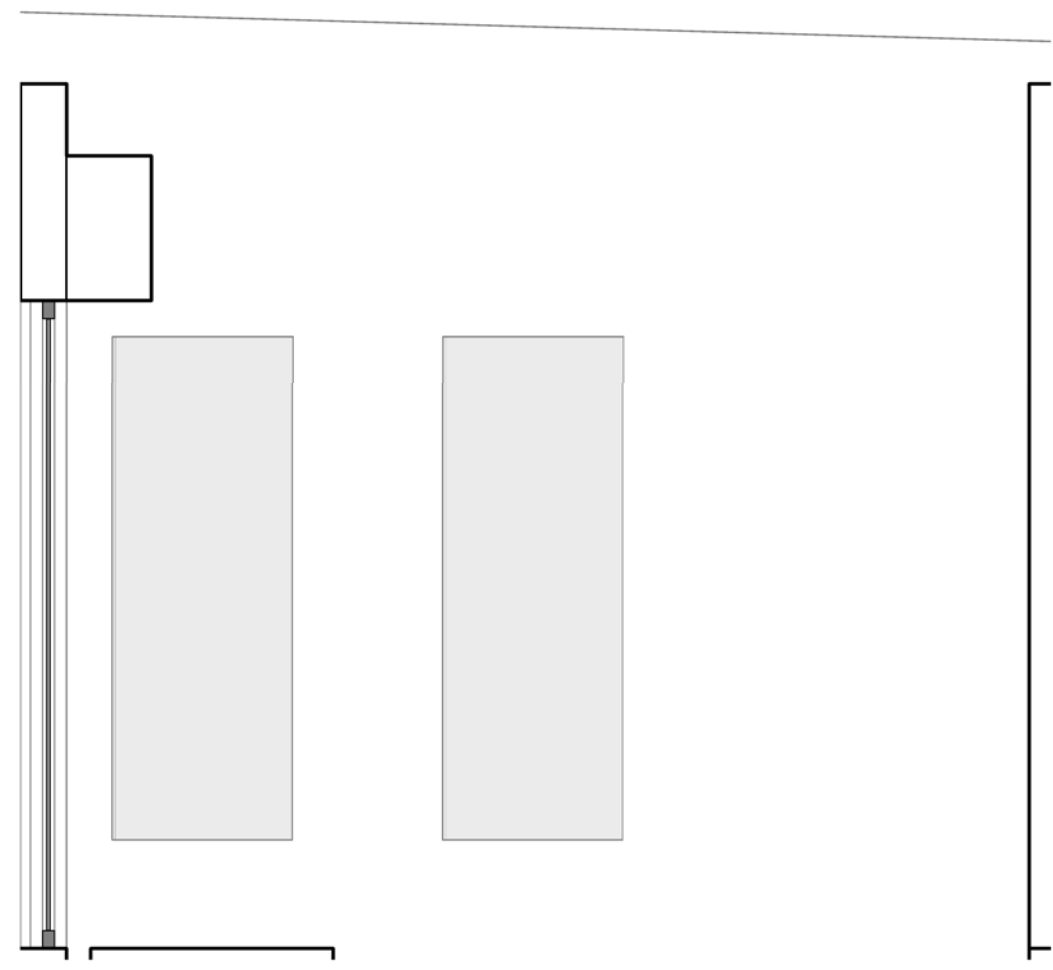
- 10/30/2020 - Orange County

Printed

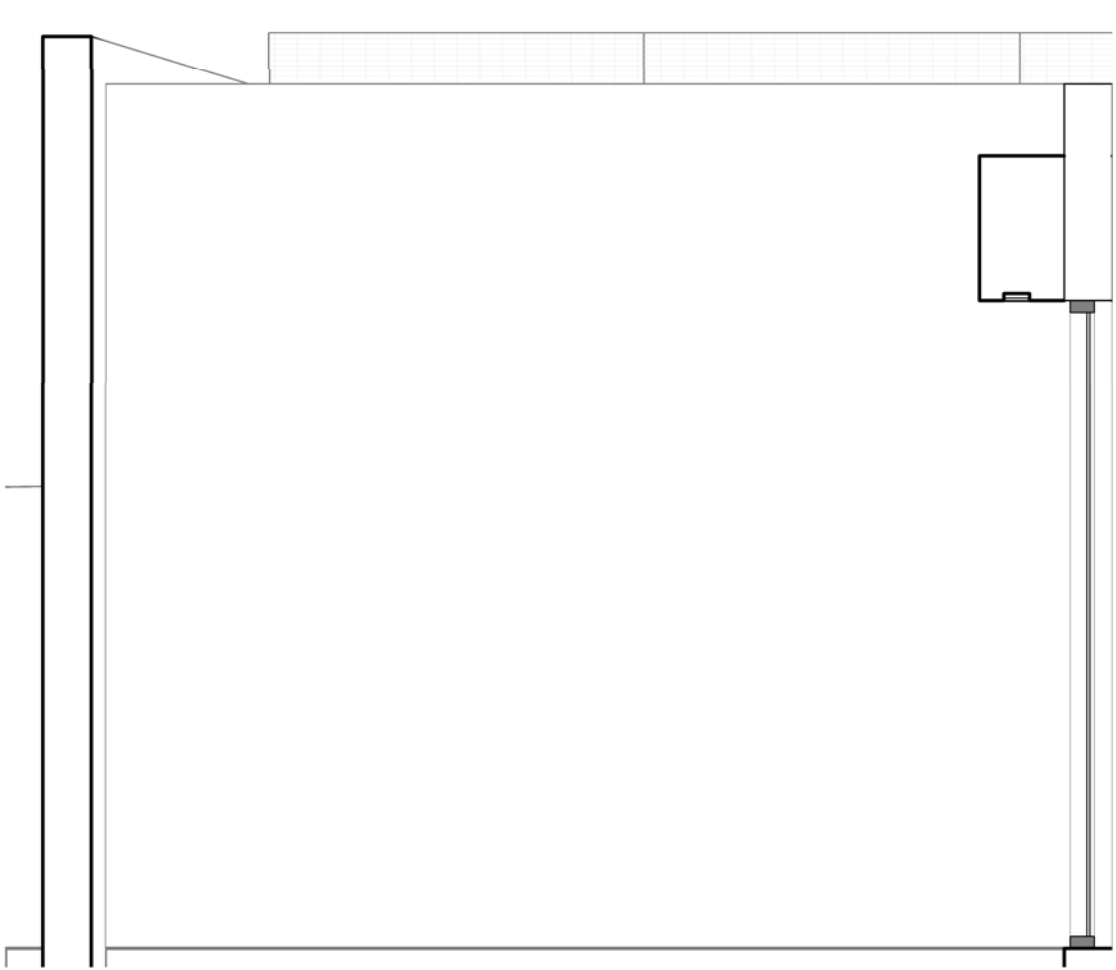
7/8/2021 11:41:46 AM

Interior Elevations

A5.1



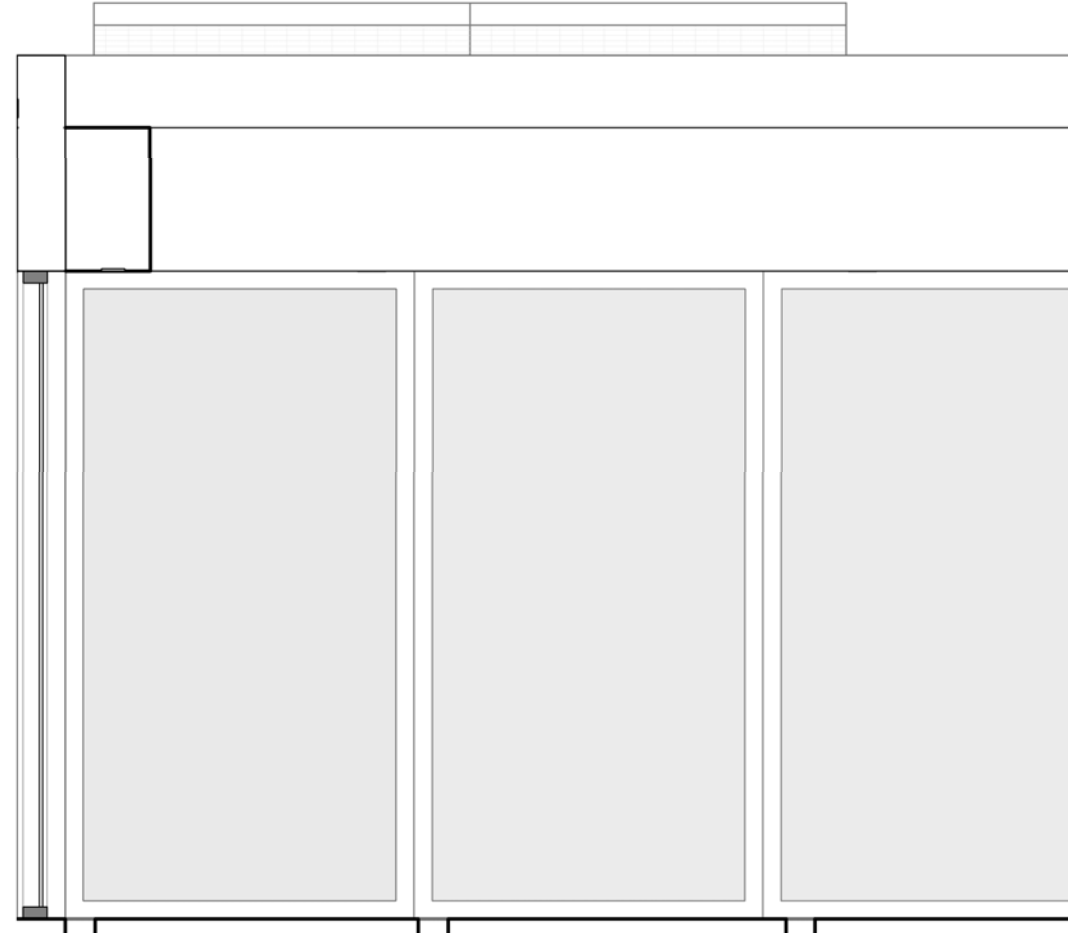
2 Master Bedroom Courtyard
3/8" = 1'-0"



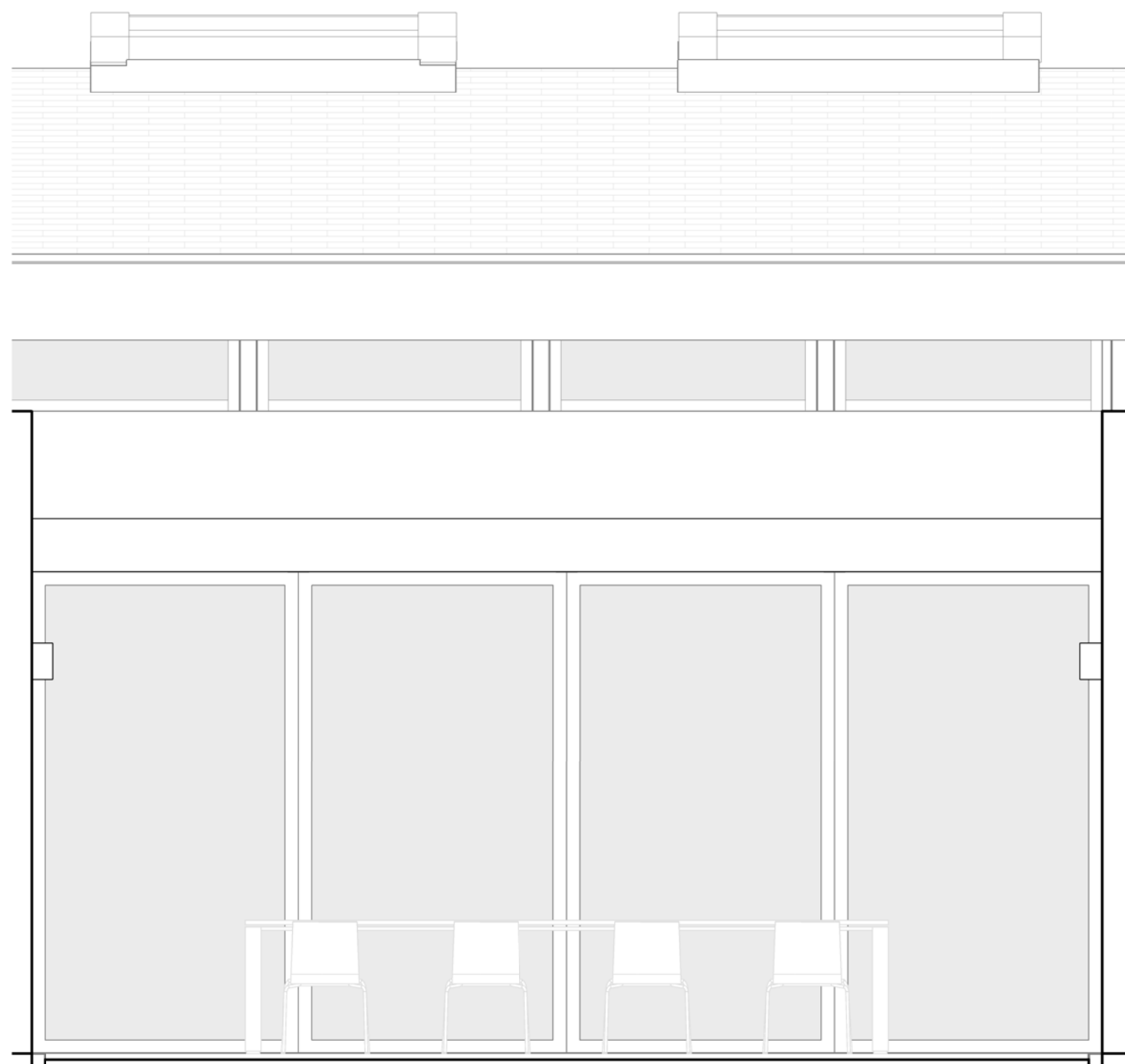
3 Master Bedroom Courtyard
3/8" = 1'-0"



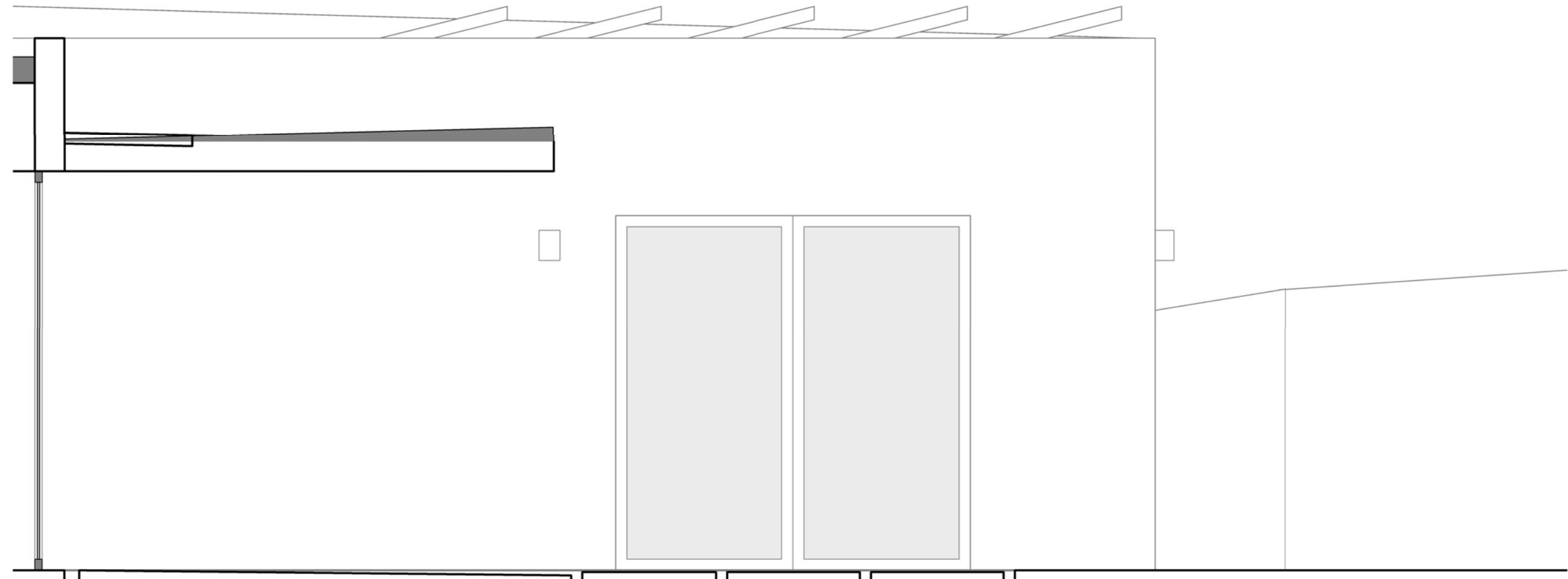
4 Master Bedroom Courtyard
3/8" = 1'-0"



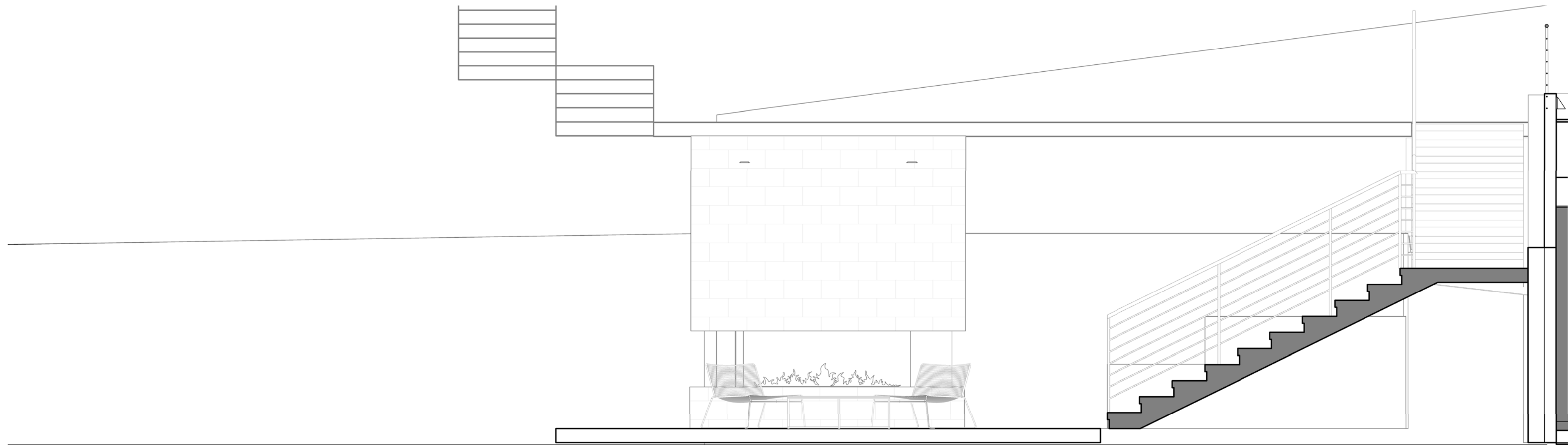
5 Master Bedroom Courtyard
3/8" = 1'-0"



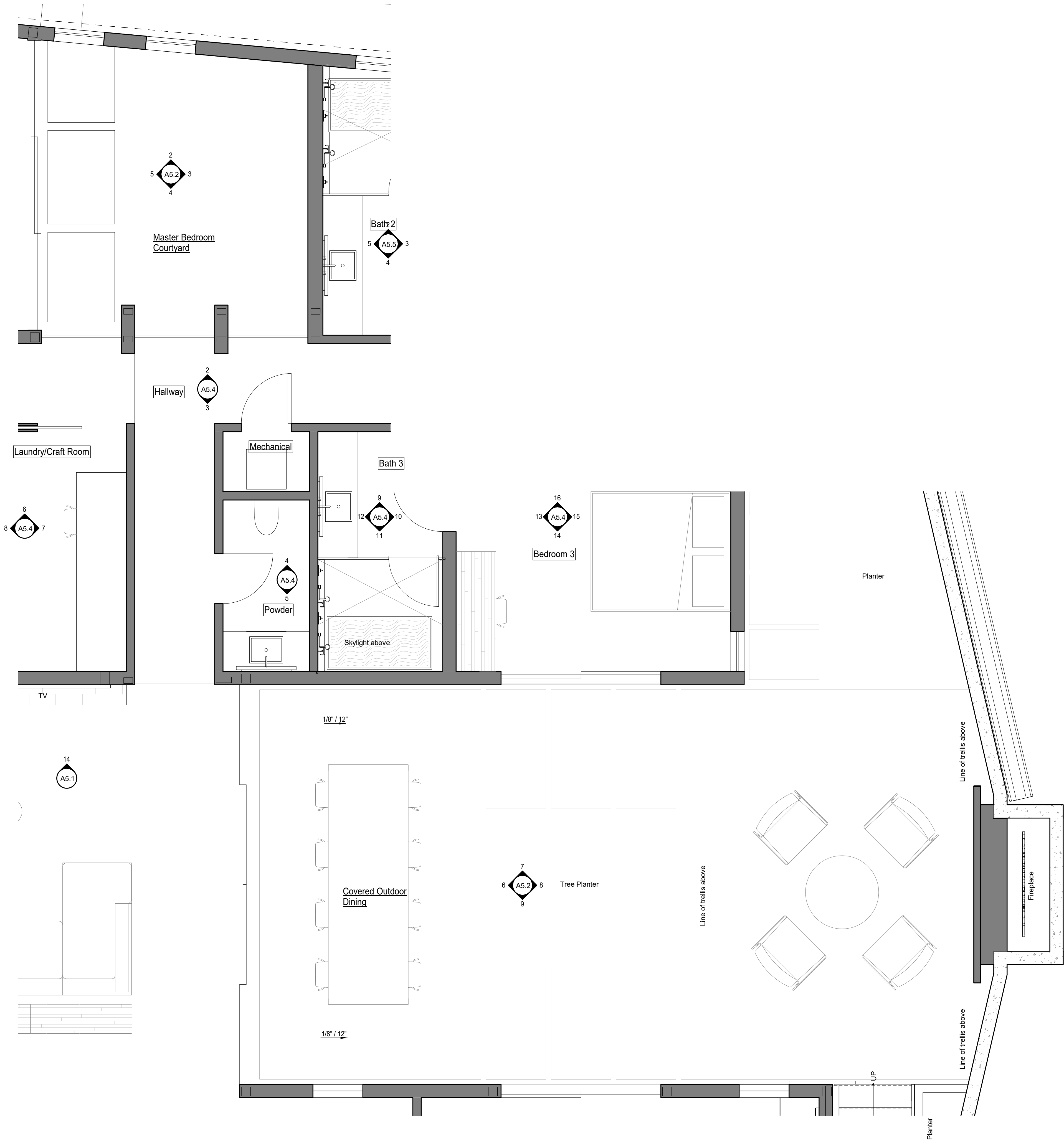
6 Main Courtyard
3/8" = 1'-0"



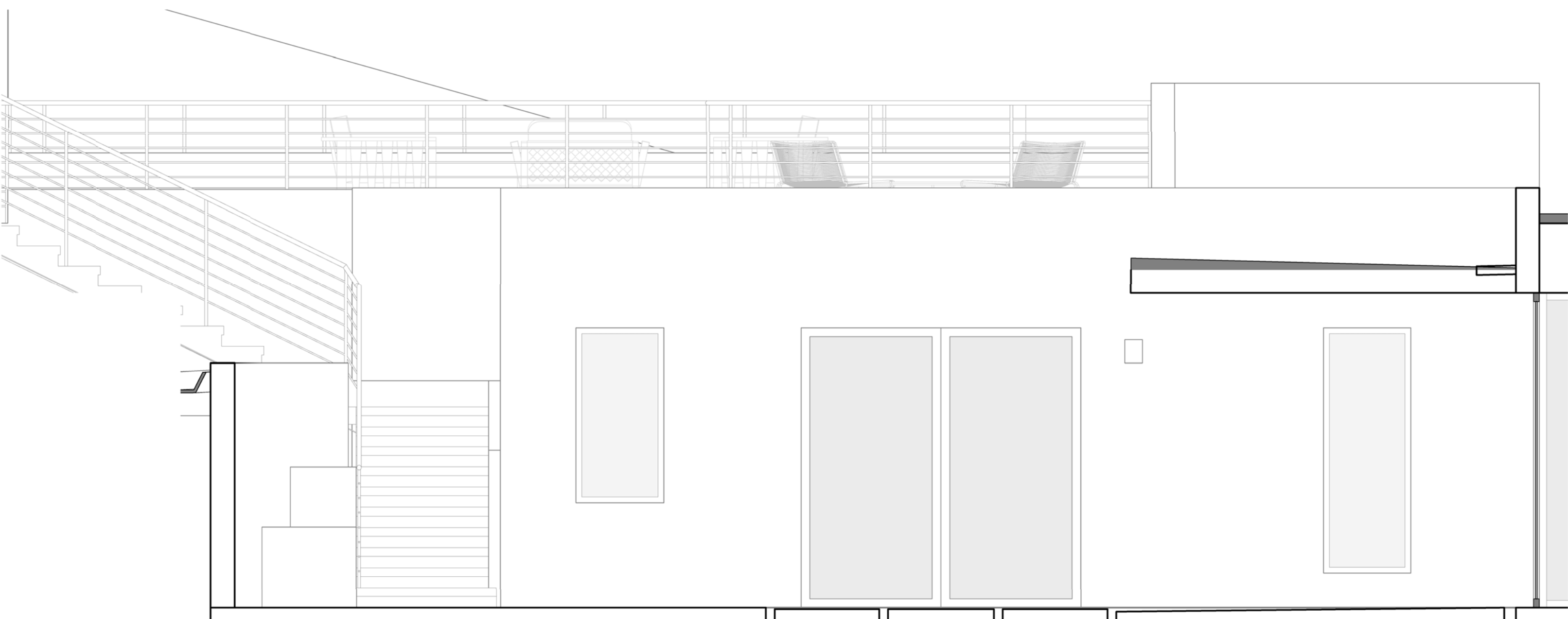
7 Main Courtyard
3/8" = 1'-0"



8 Main Courtyard
3/8" = 1'-0"



1 House Floor Plan
3/8" = 1'-0"



9 Main Courtyard
3/8" = 1'-0"

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

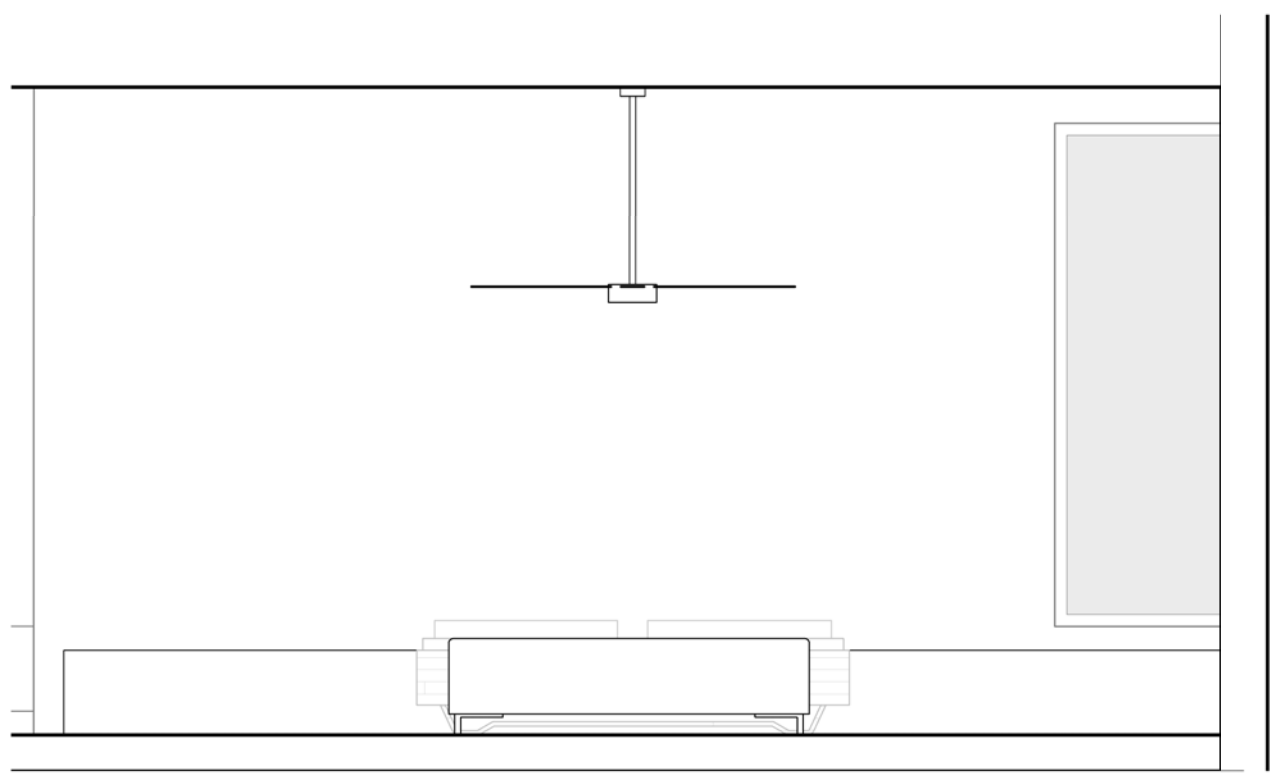
- 10/30/2020 - Orange County

Printed

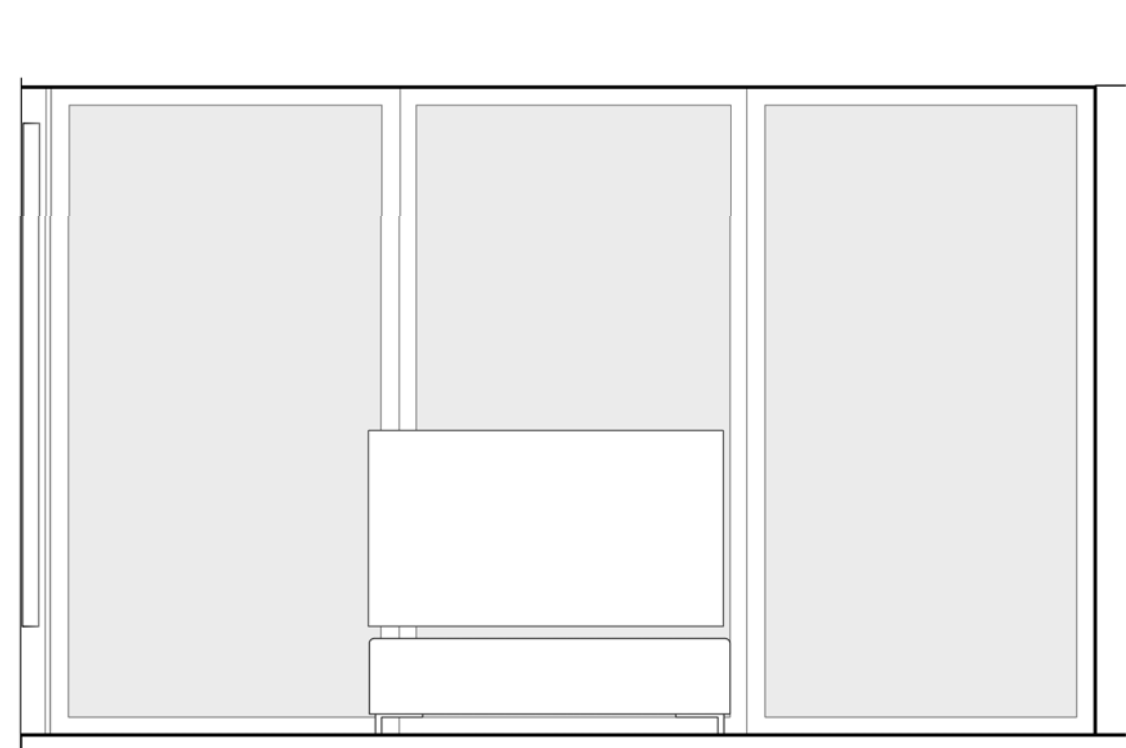
7/8/2021 11:42:06 AM

Interior Elevations

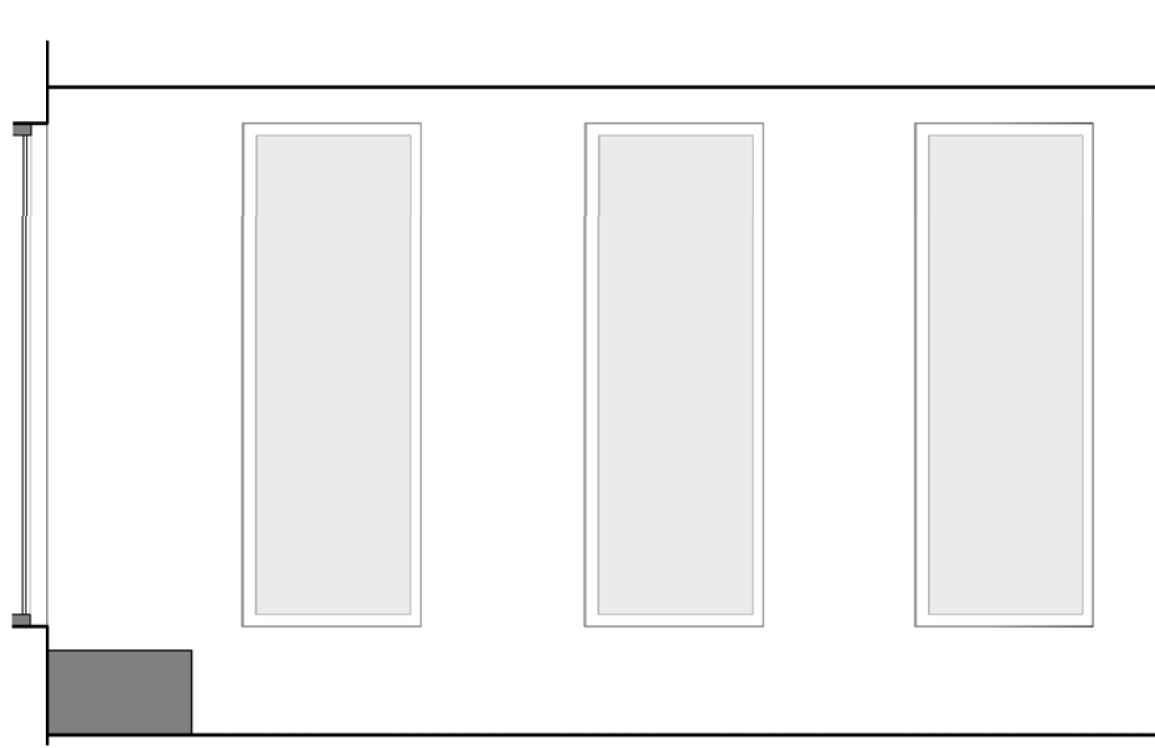
A5.2



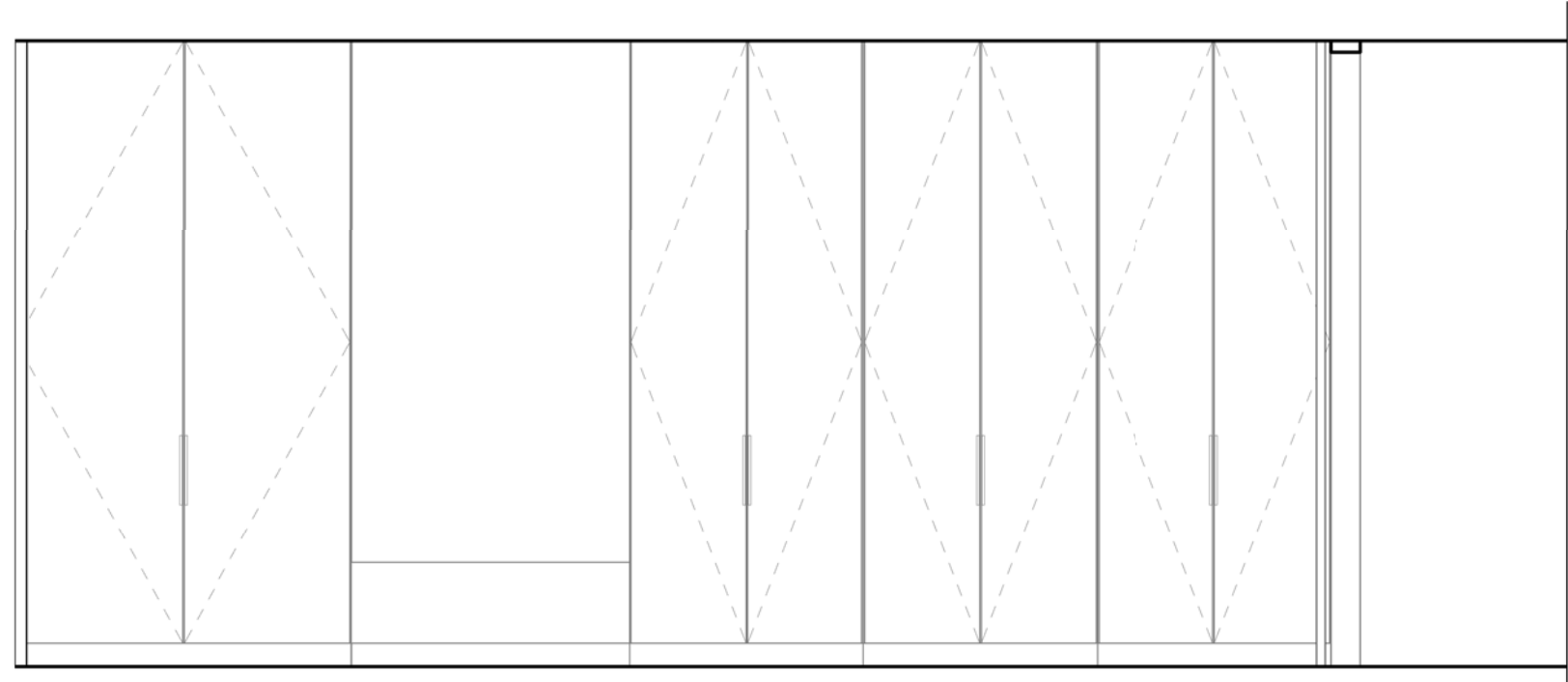
2 Master Bedroom
3/8" = 1'-0"



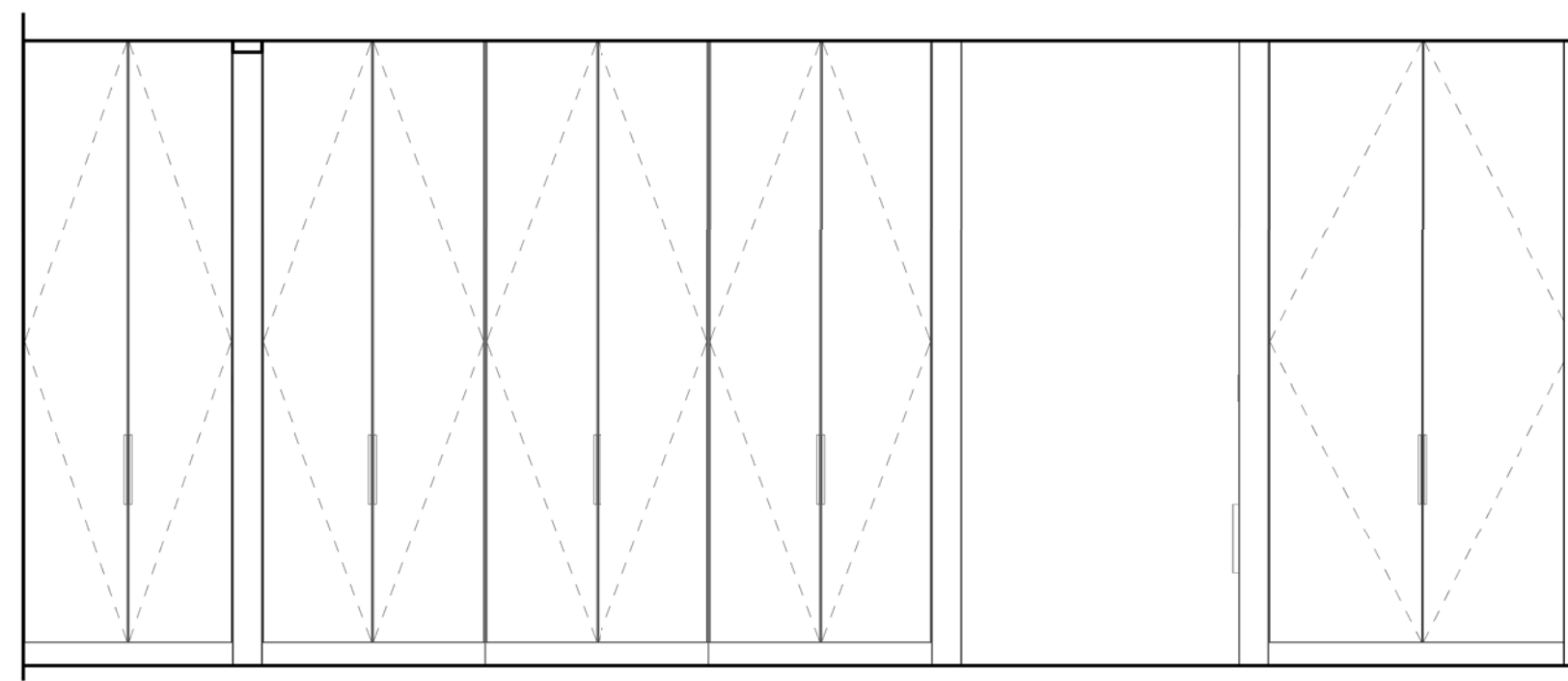
3 Master Bedroom
3/8" = 1'-0"



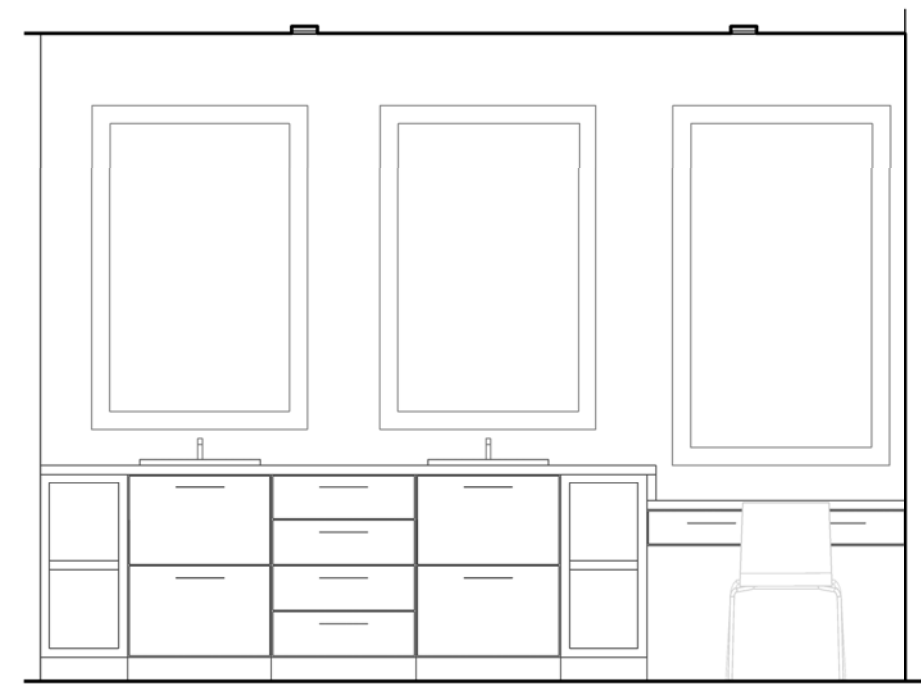
4 Master Bedroom
3/8" = 1'-0"



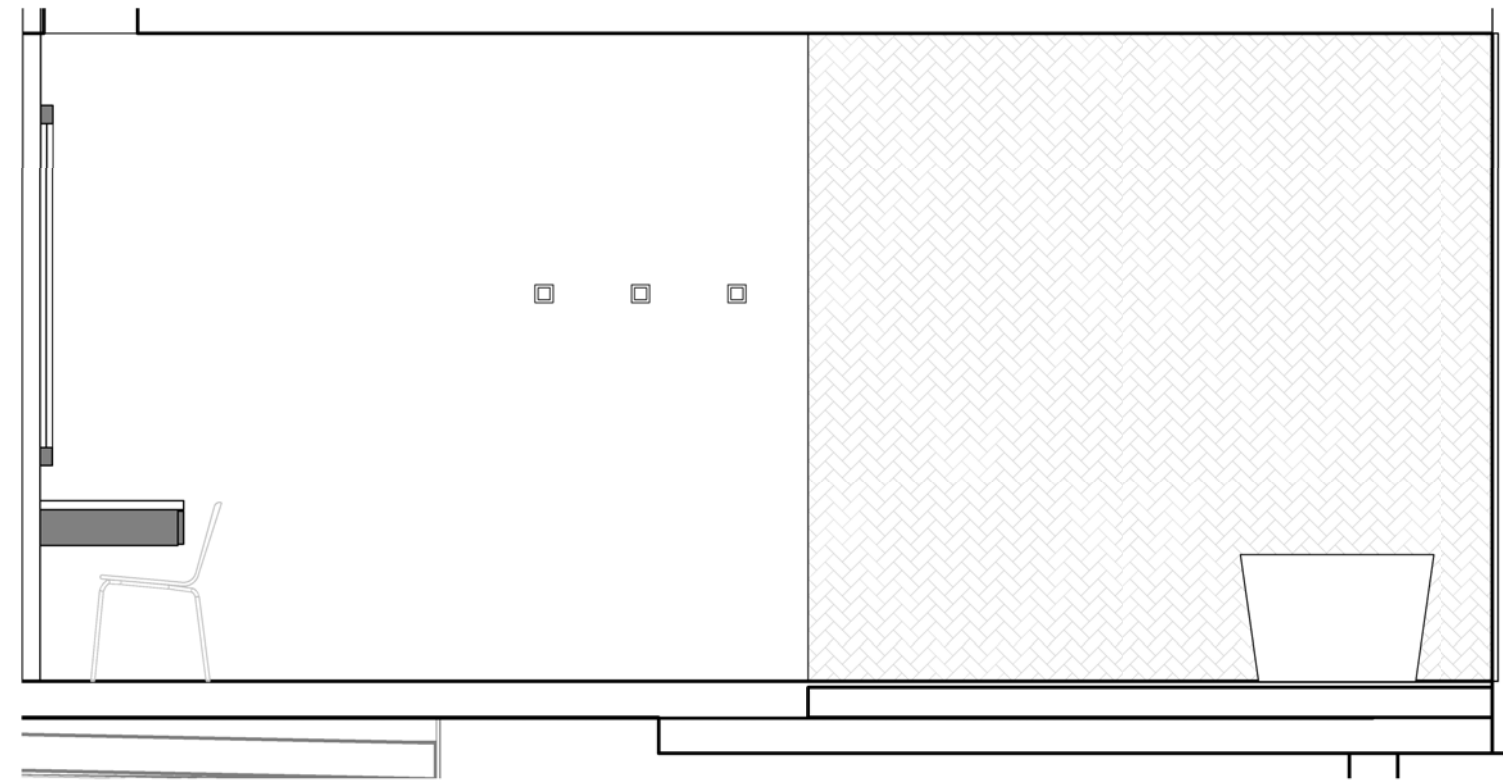
5 Master Closet
3/8" = 1'-0"



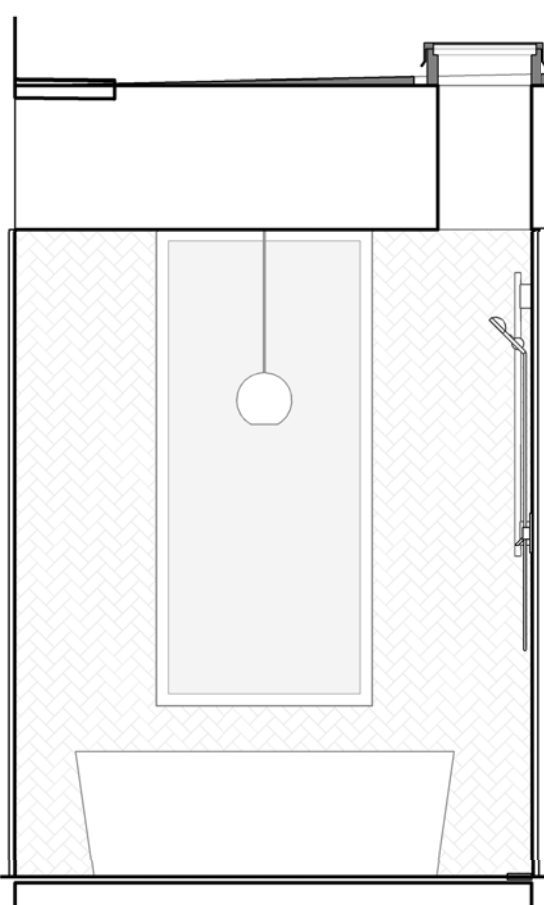
6 Master Closet
3/8" = 1'-0"



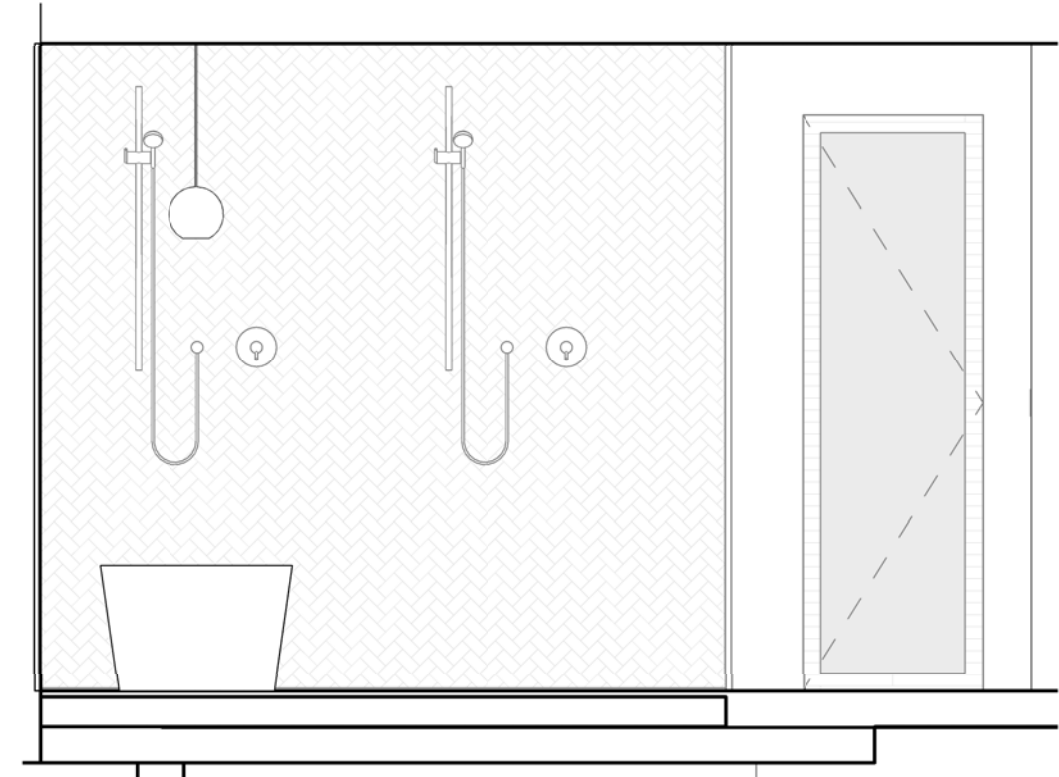
7 Master Vanity
3/8" = 1'-0"



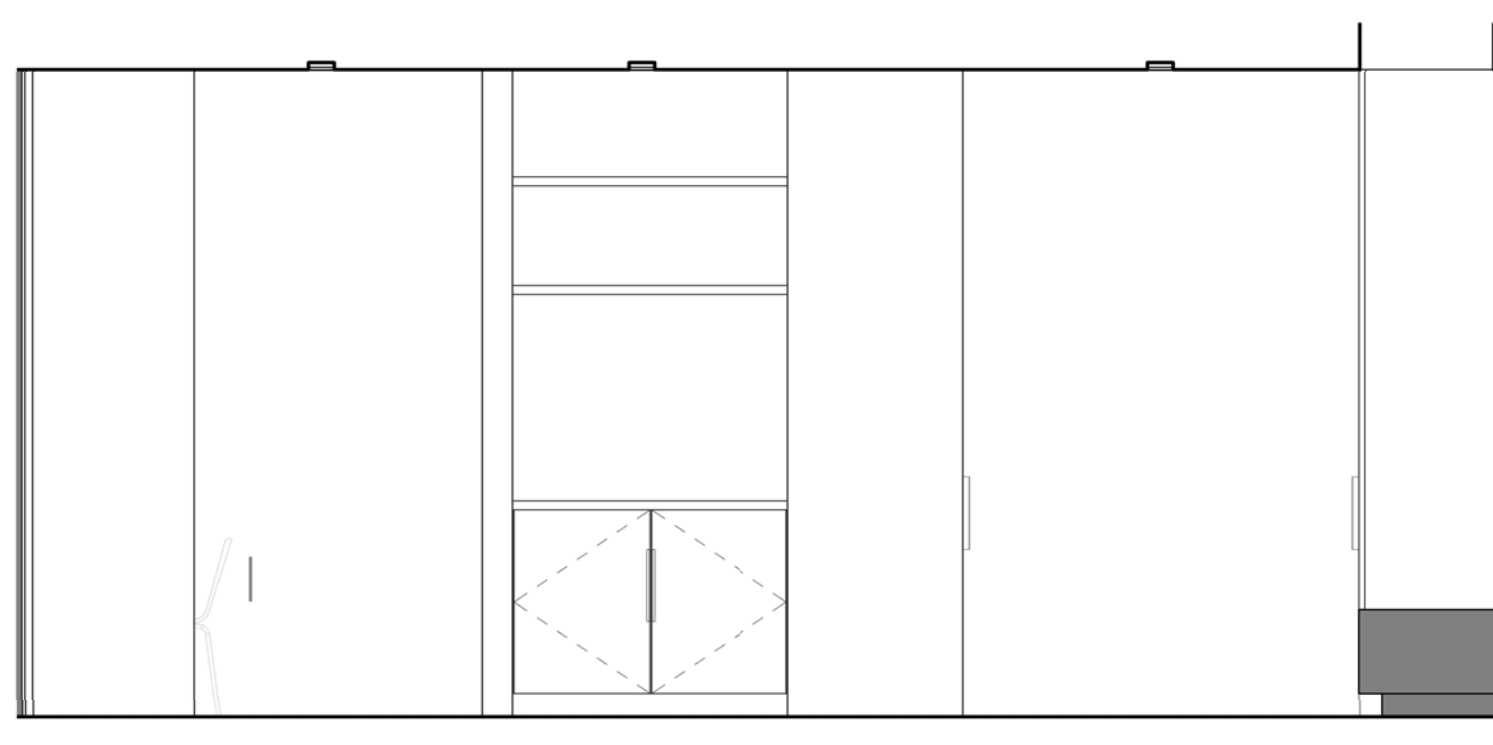
8 Master Bathroom Shower
3/8" = 1'-0"



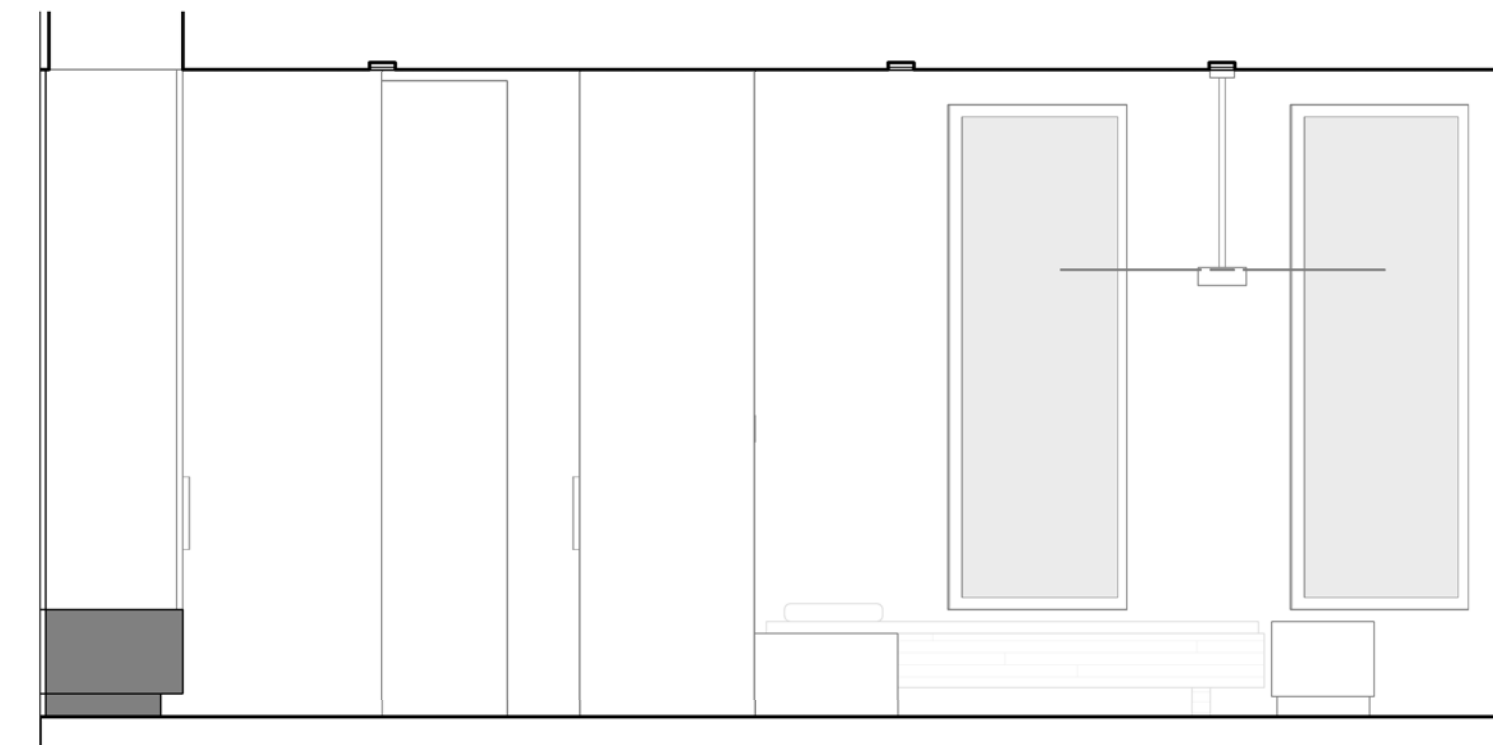
9 Master Bathroom Shower
3/8" = 1'-0"



10 Master Bathroom Shower
3/8" = 1'-0"



11 Master Hallway
3/8" = 1'-0"



12 Master Hallway
3/8" = 1'-0"



1 House Floor Plan
3/8" = 1'-0"

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

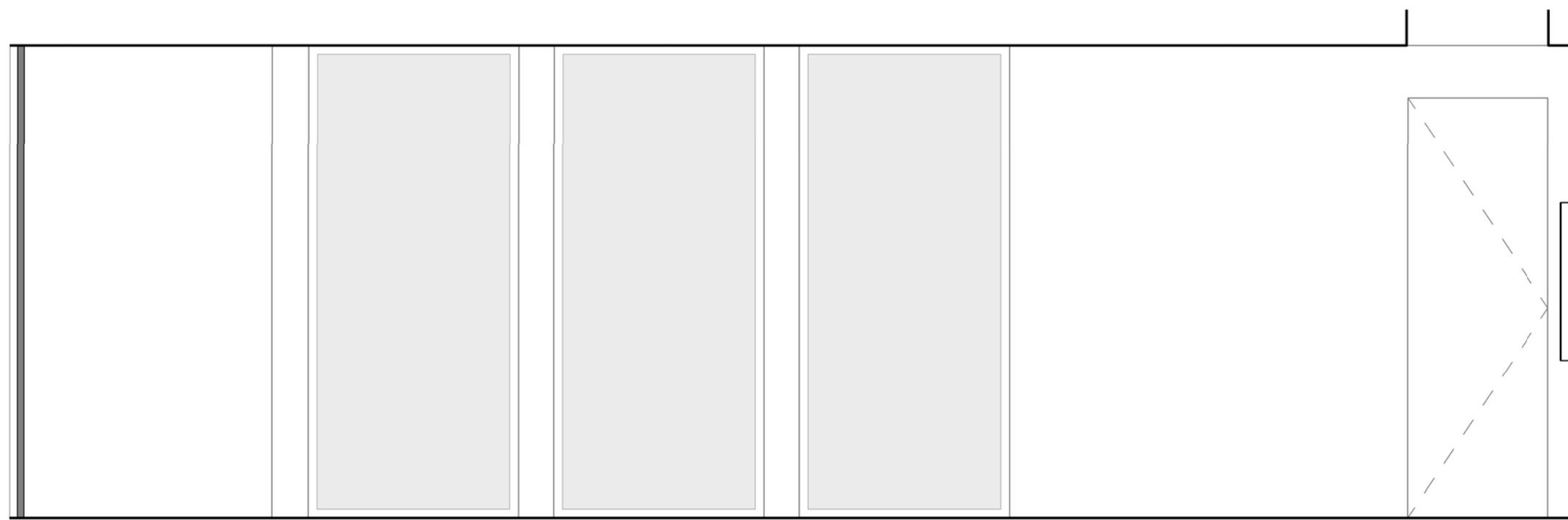
- 10/30/2020 - Orange County

Printed

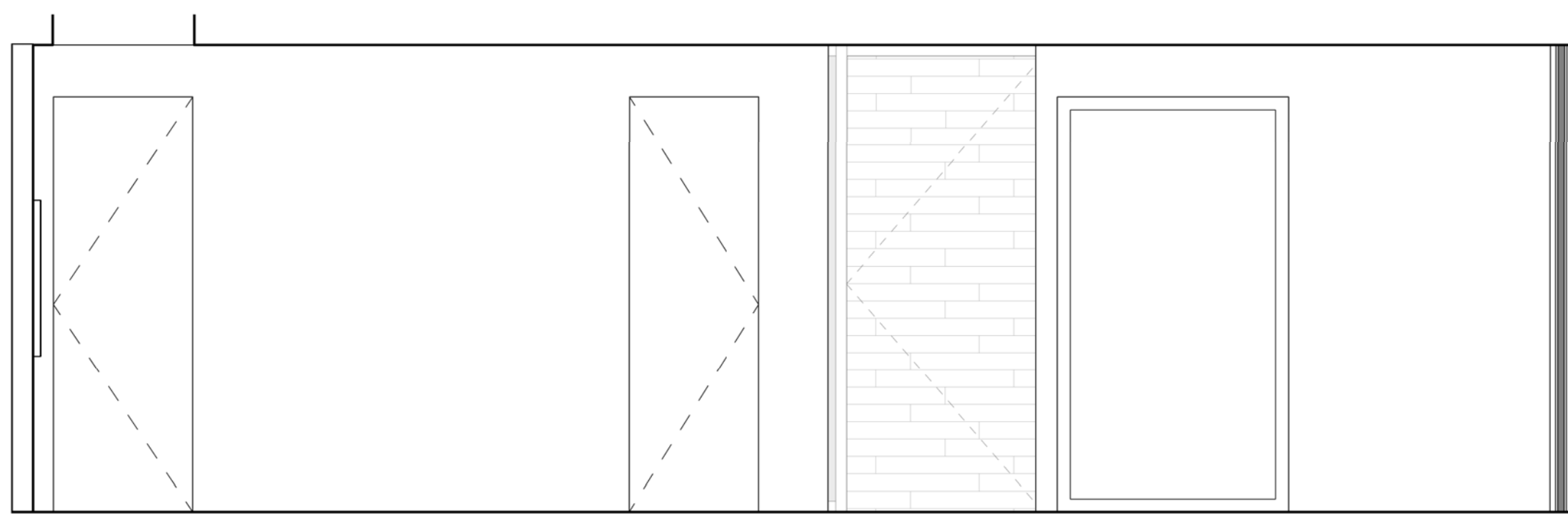
7/8/2021 11:42:18 AM

Interior Elevations

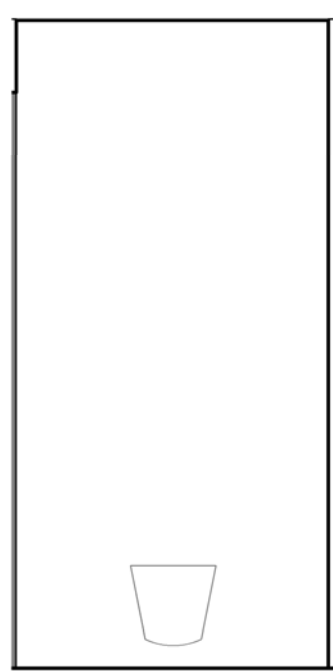
A5.3



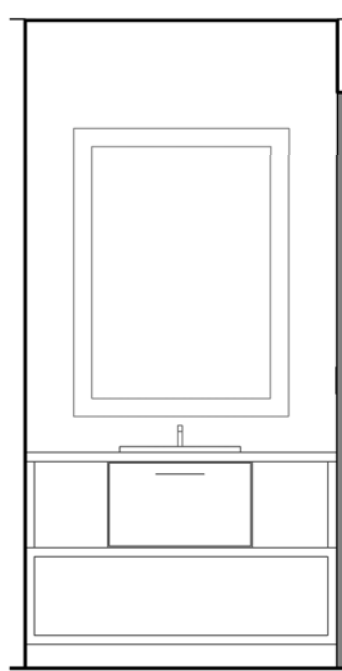
2 Hallway
3/8" = 1'-0"



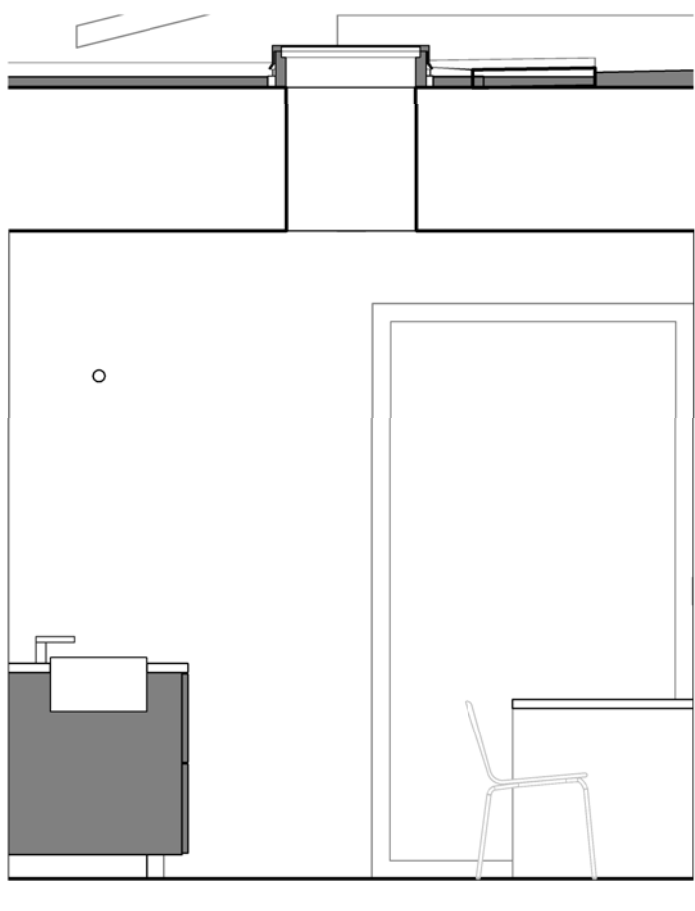
3 Hallway
3/8" = 1'-0"



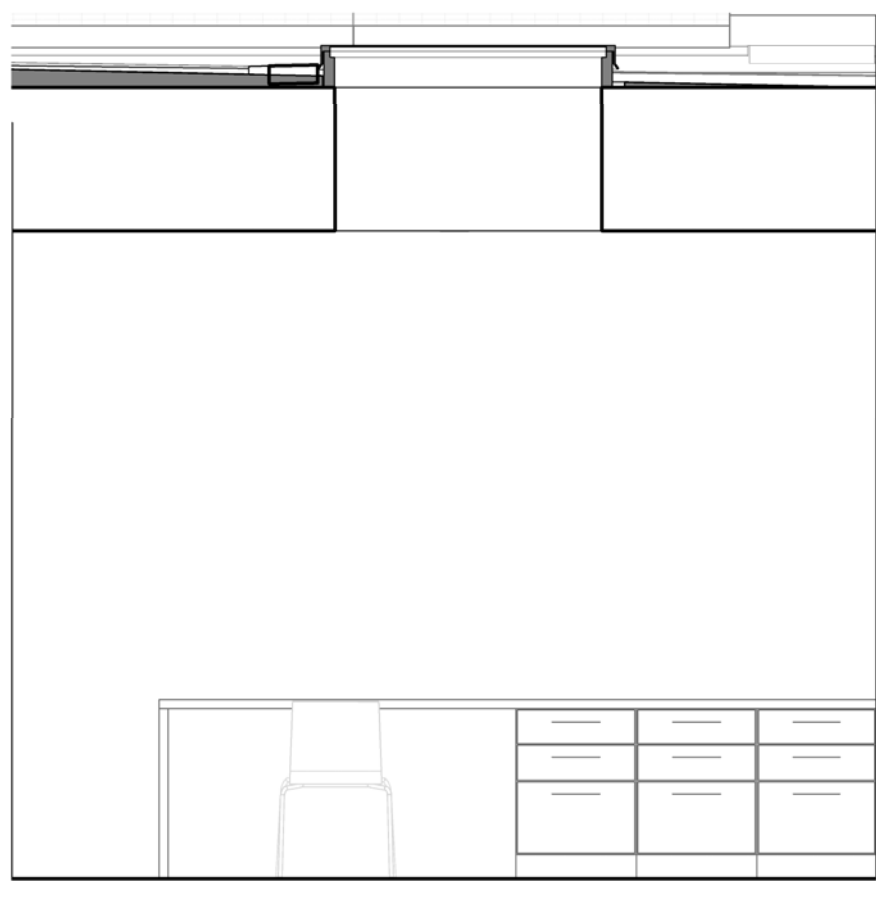
4 Powder Room
3/8" = 1'-0"



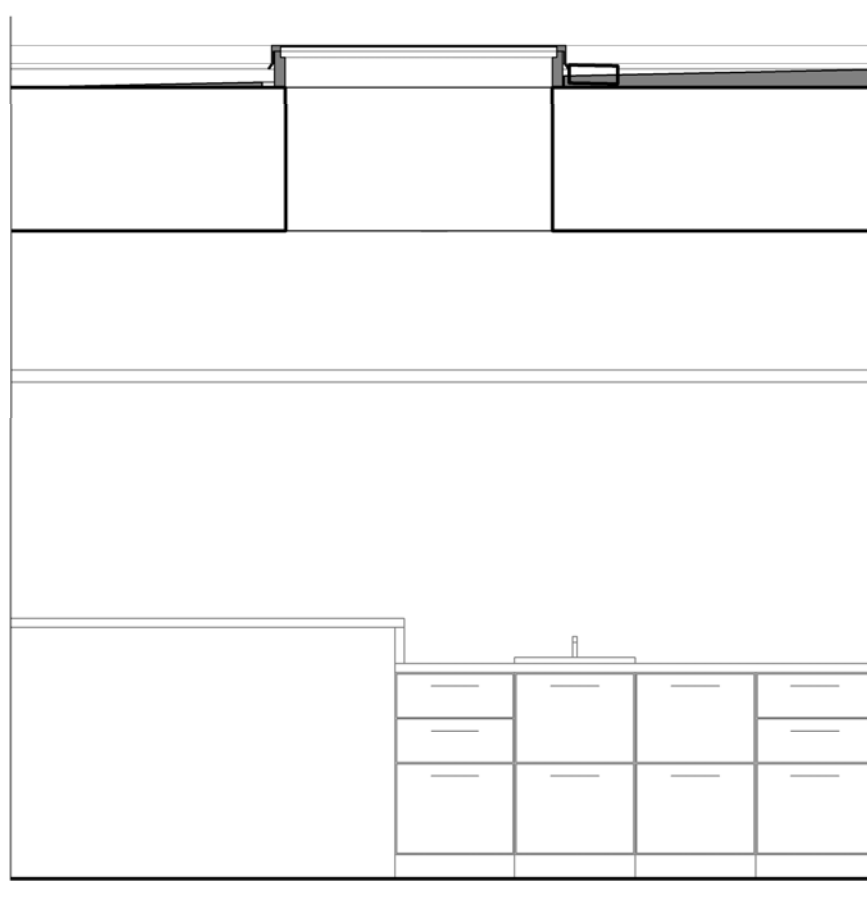
5 Powder Room
3/8" = 1'-0"



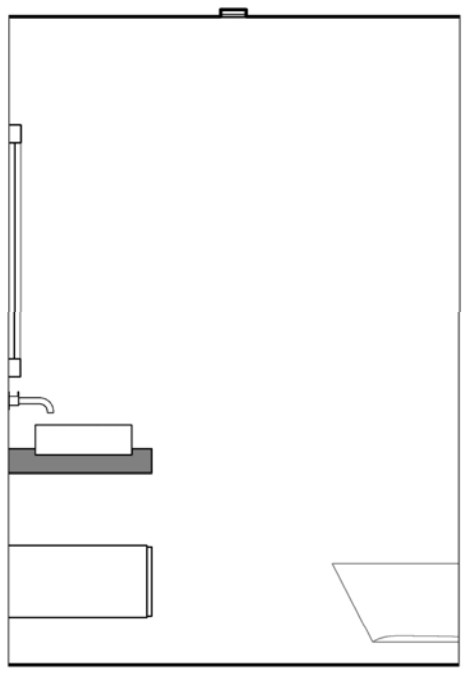
6 Laundry/Craft Room
3/8" = 1'-0"



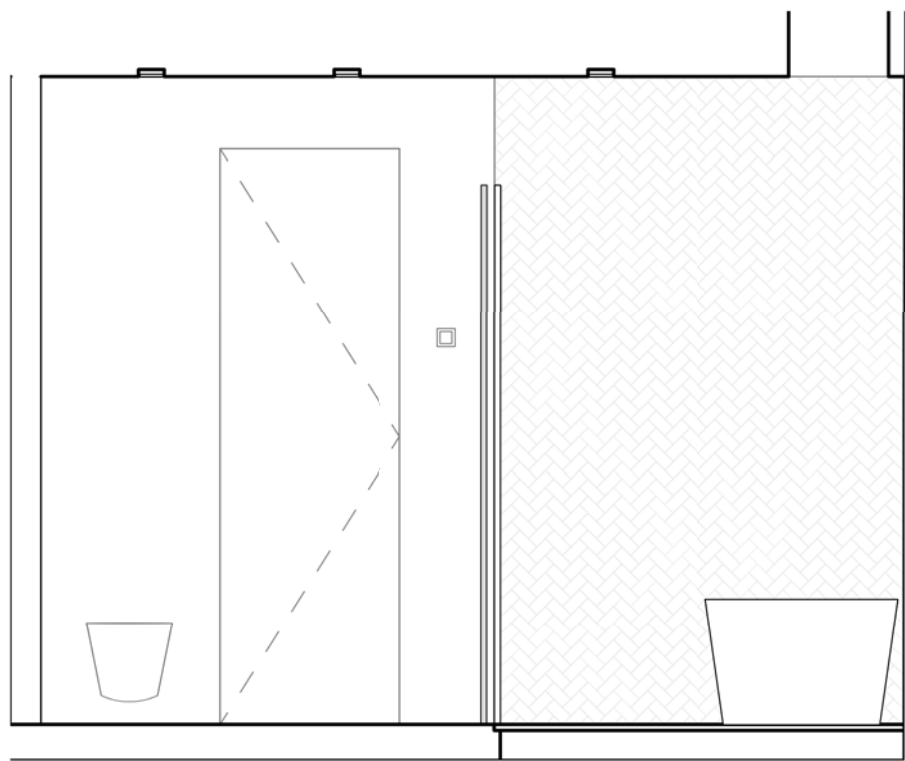
7 Laundry/Craft Room
3/8" = 1'-0"



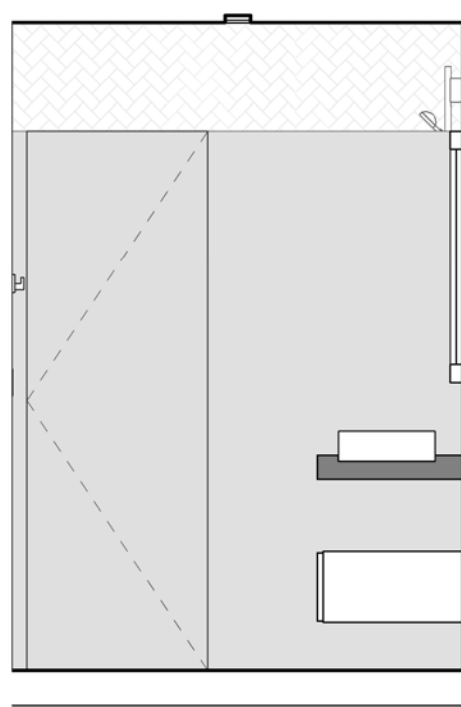
8 Laundry/Craft Room
3/8" = 1'-0"



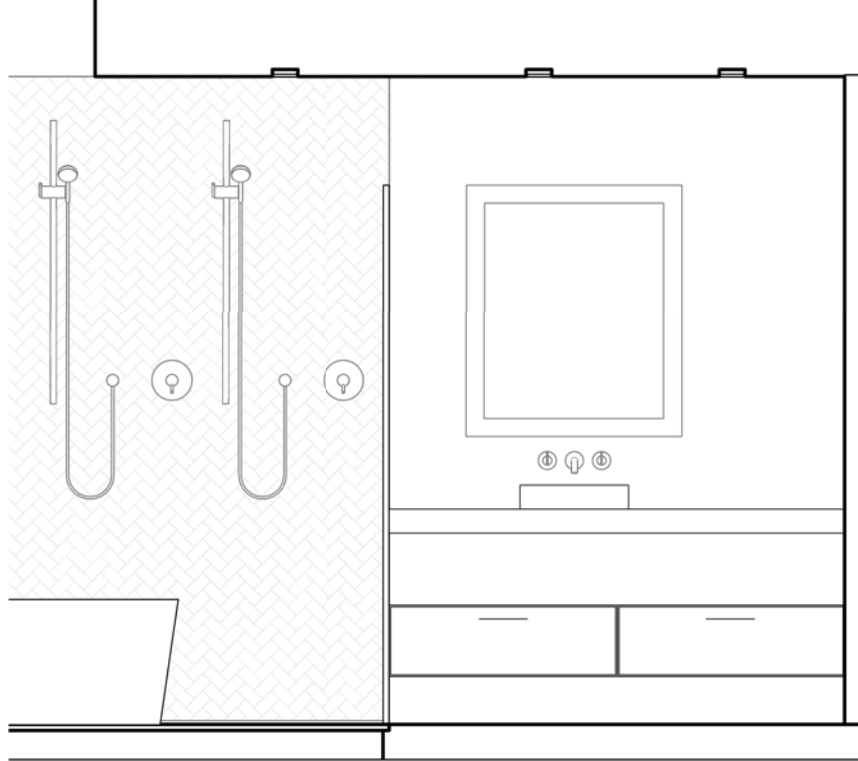
9 Bathroom 3
3/8" = 1'-0"



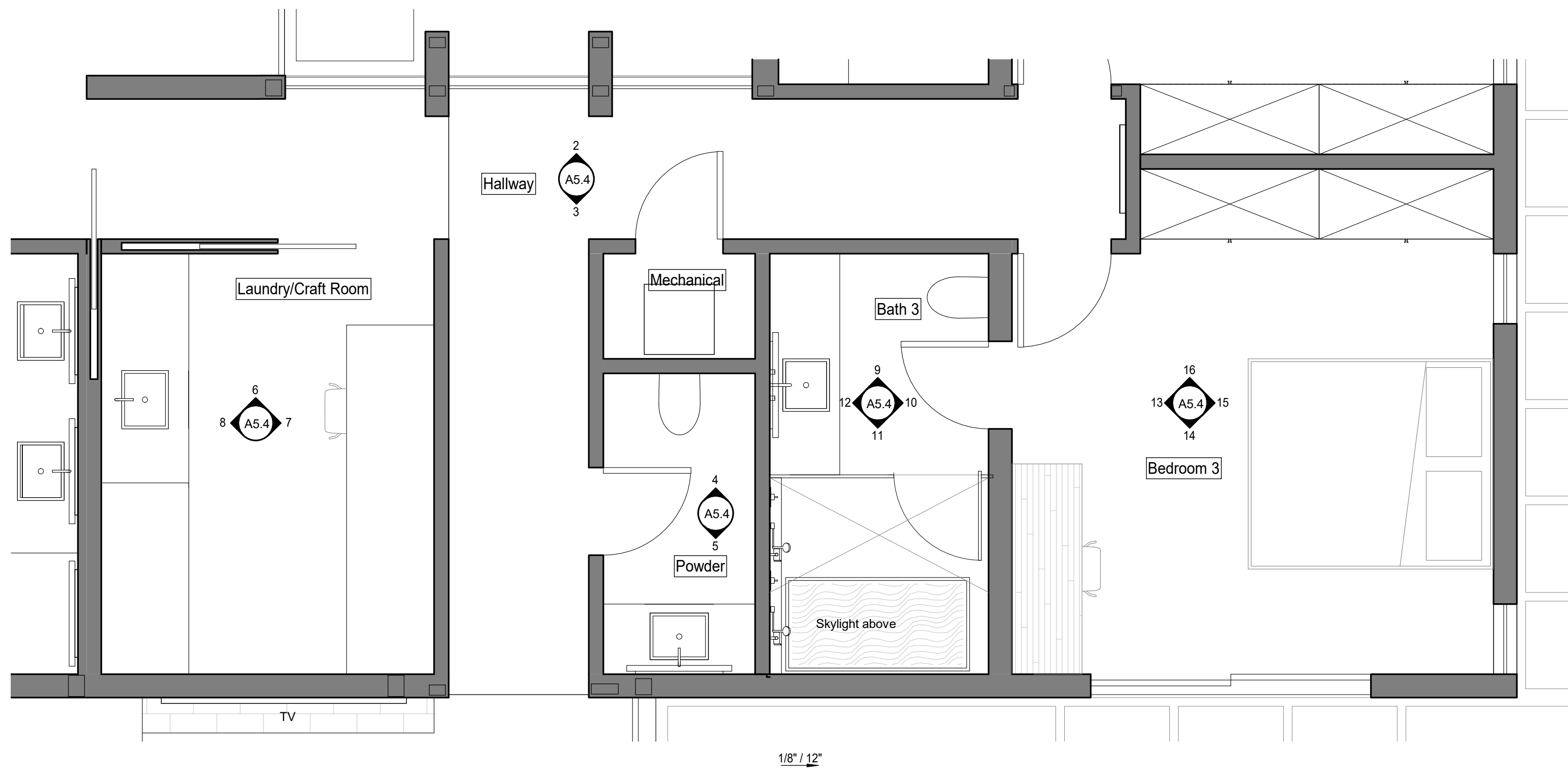
10 Bathroom 3
3/8" = 1'-0"



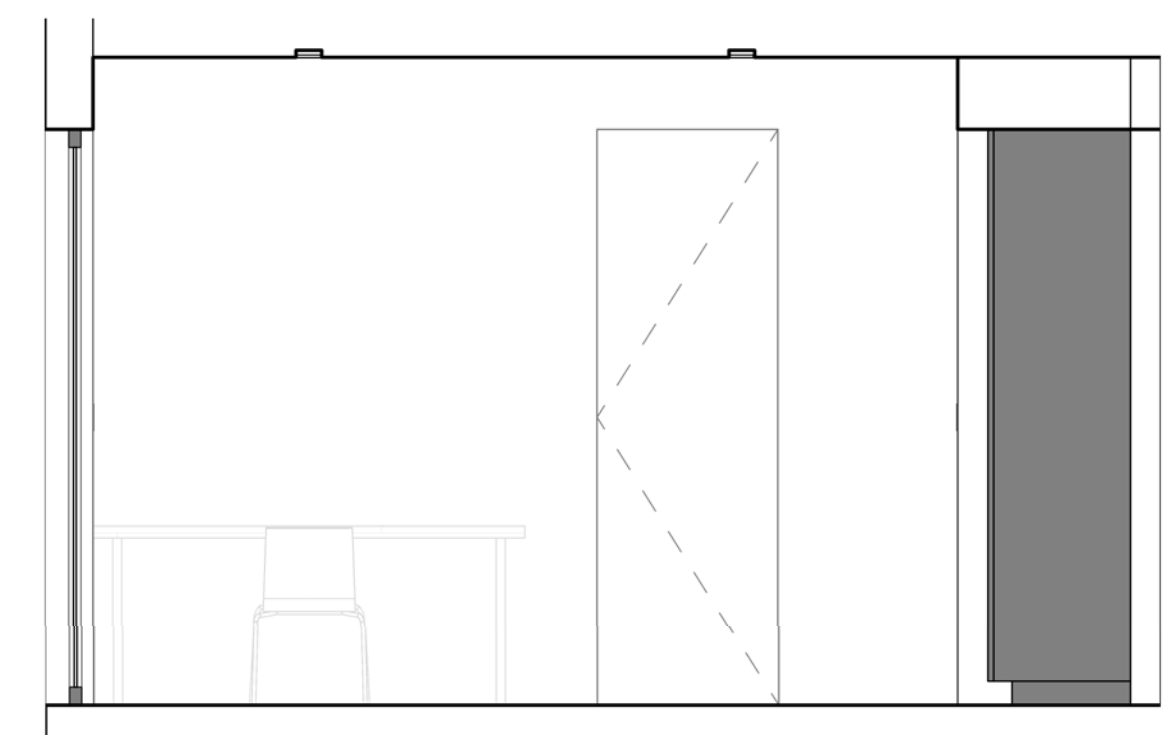
11 Bathroom 3
3/8" = 1'-0"



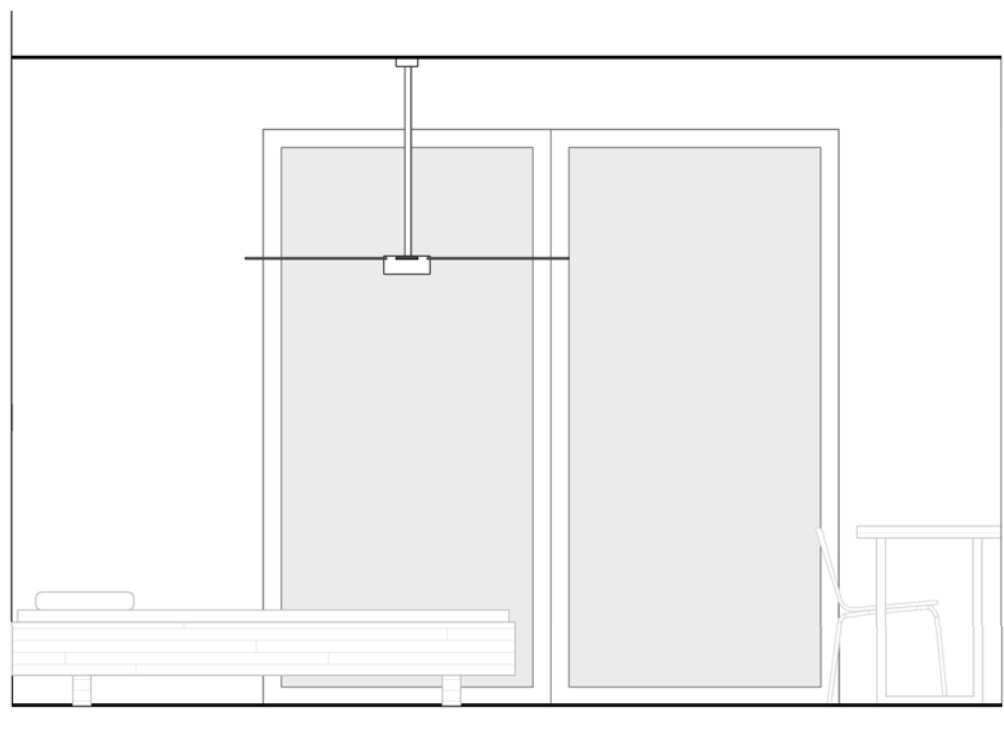
12 Bathroom 3
3/8" = 1'-0"



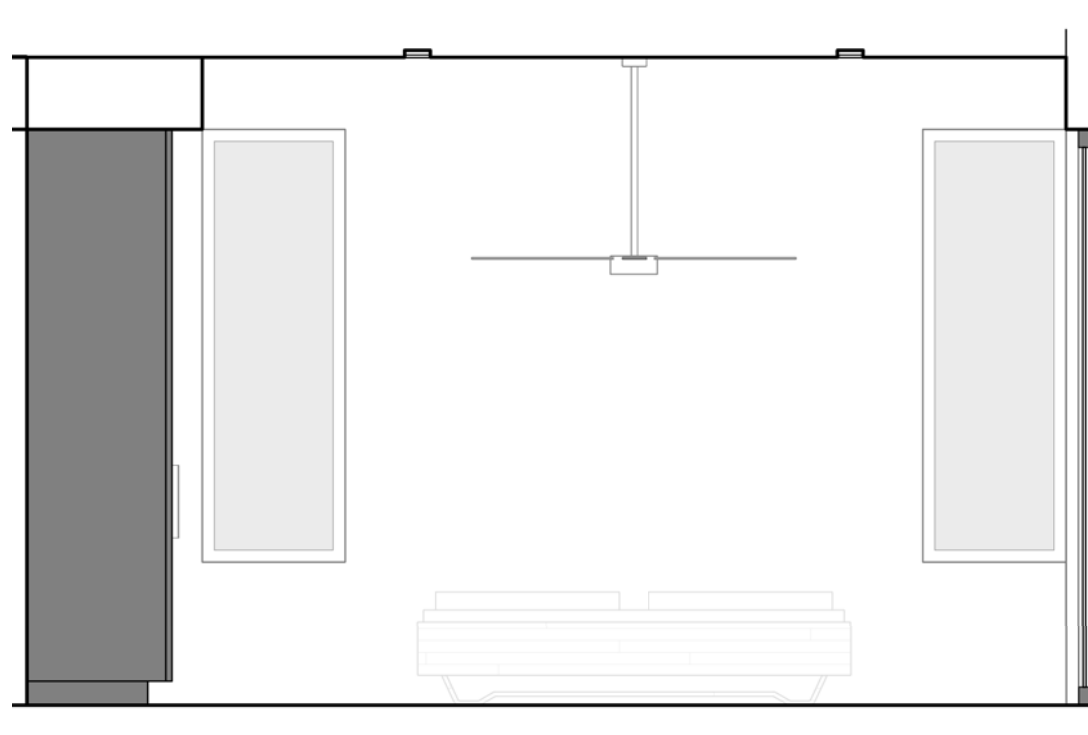
1 House Floor Plan
3/8" = 1'-0"



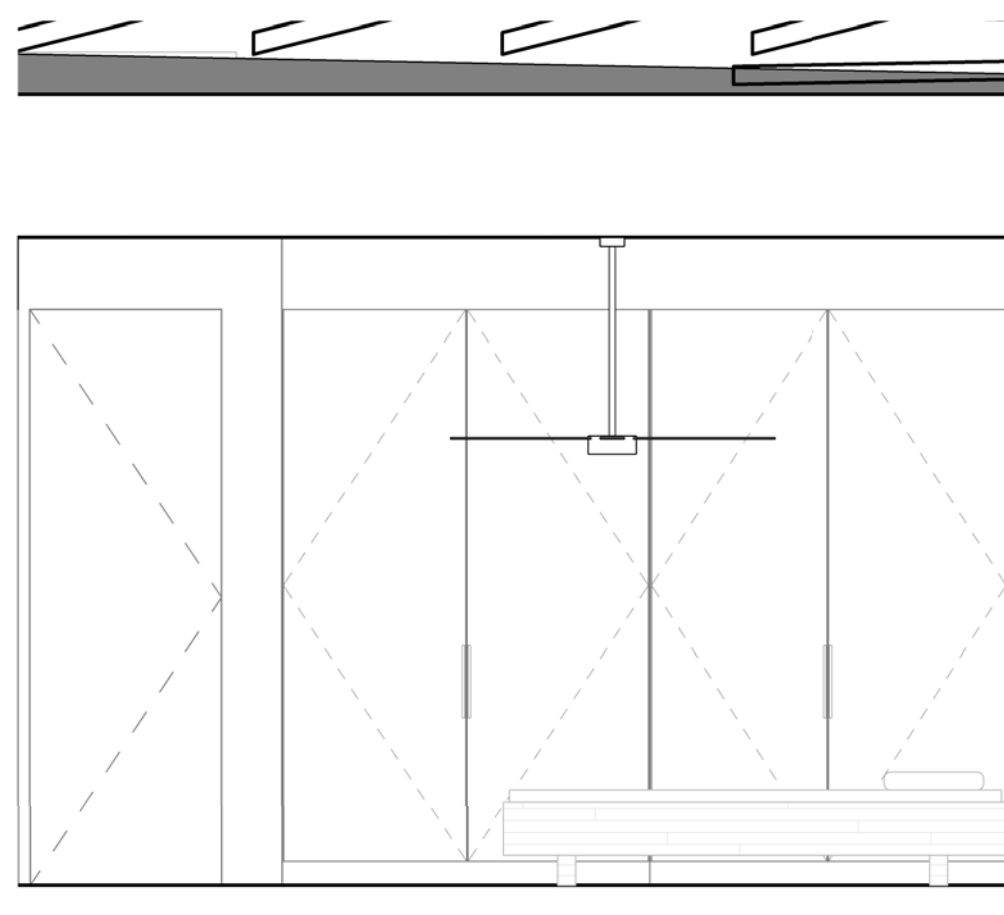
13 Bedroom 3
3/8" = 1'-0"



14 Bedroom 3
3/8" = 1'-0"



15 Bedroom 3
3/8" = 1'-0"



16 Bedroom 3
3/8" = 1'-0"

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

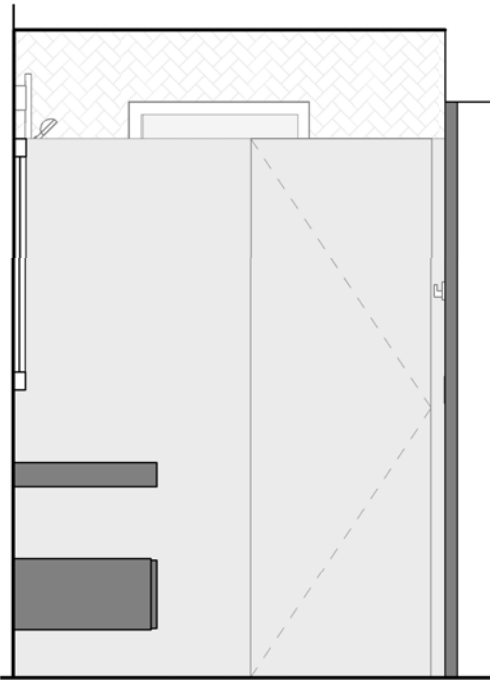
- 10/30/2020 - Orange County

Printed

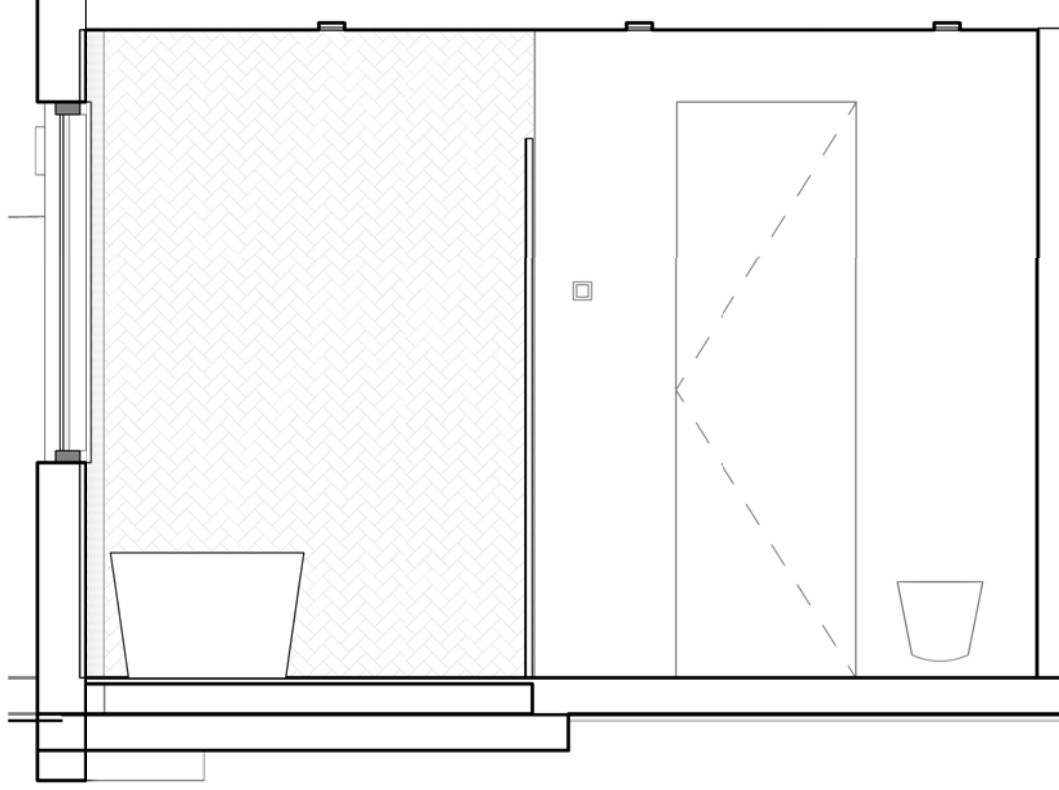
7/8/2021 11:42:32 AM

Interior Elevations

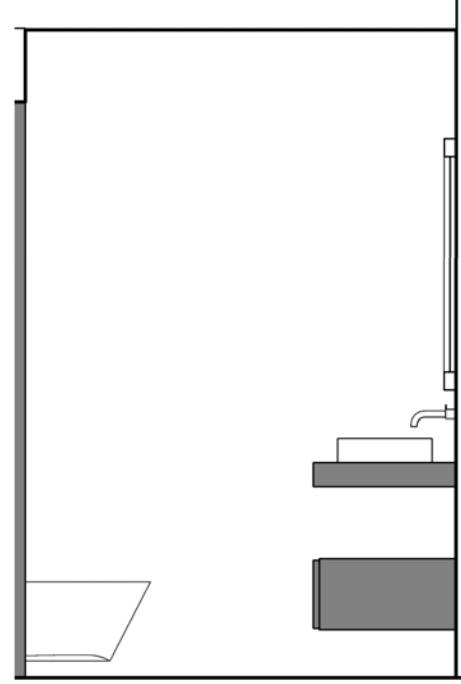
A5.4



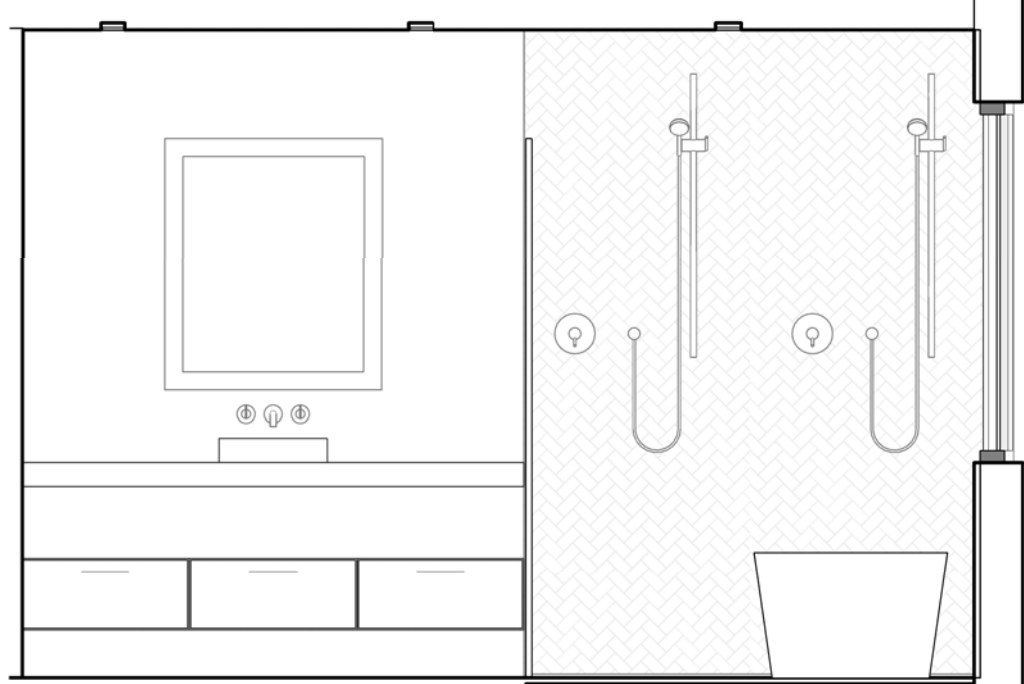
2 Bathroom 2
3/8" = 1'-0"



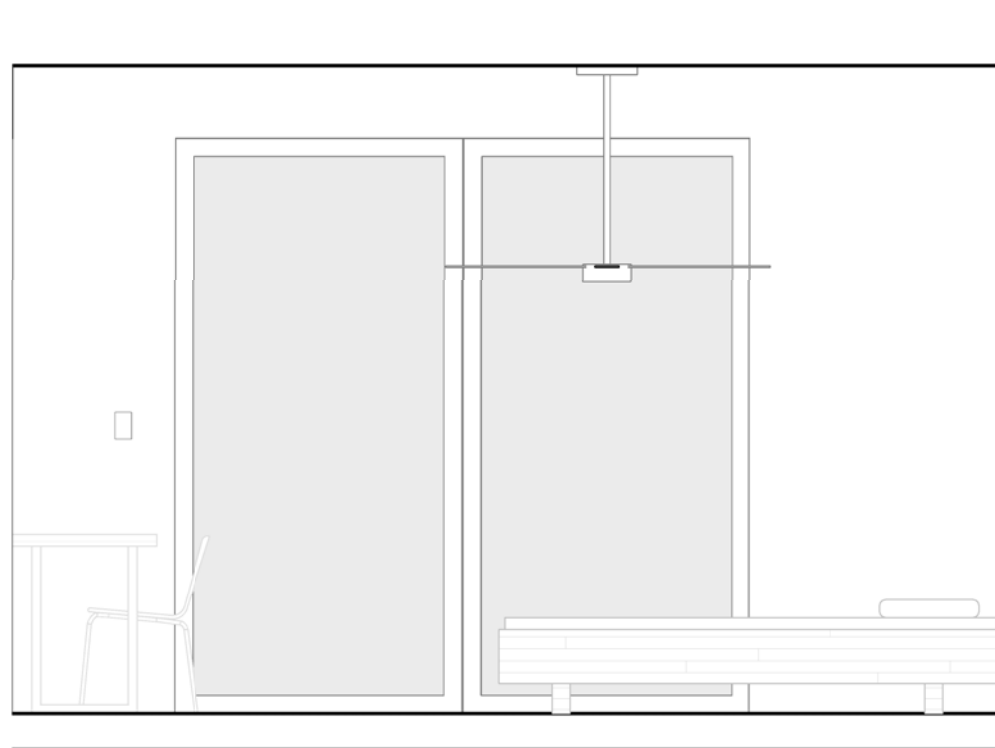
3 Bathroom 2
3/8" = 1'-0"



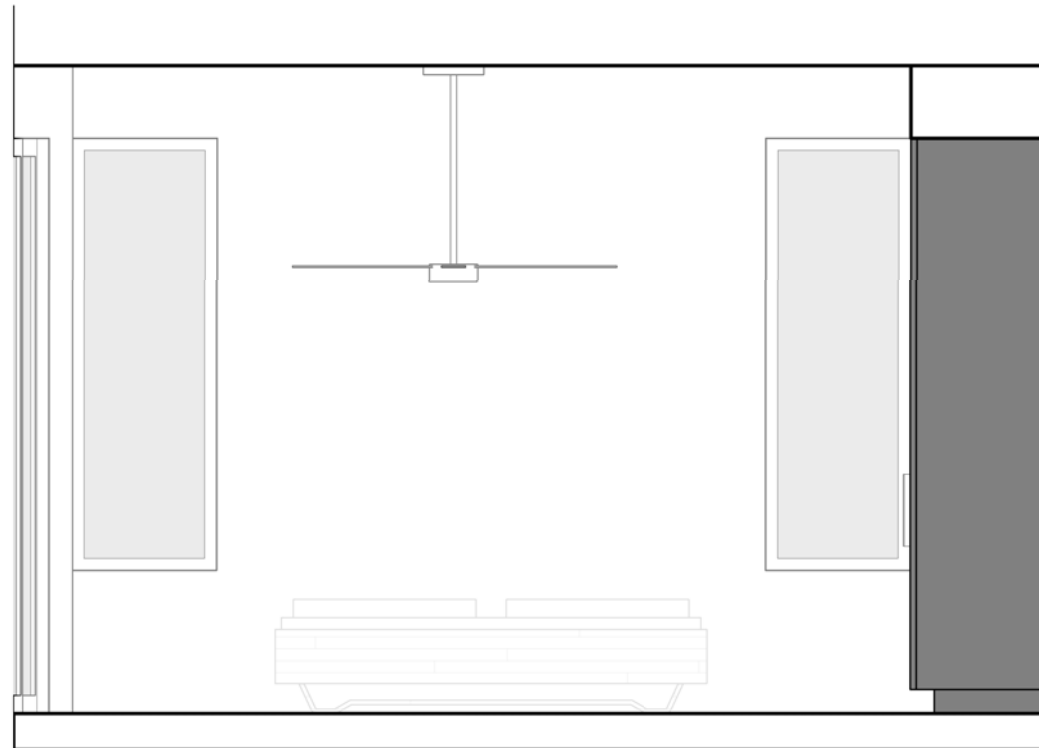
4 Bathroom 2
3/8" = 1'-0"



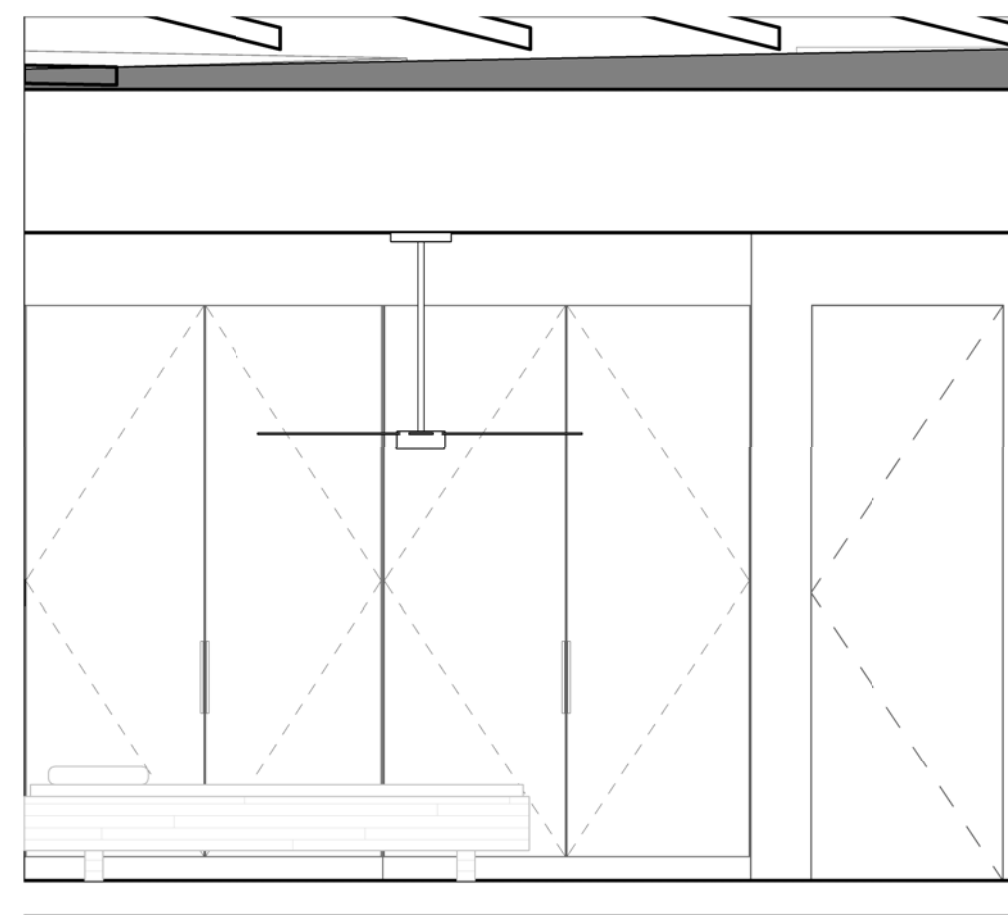
5 Bathroom 2
3/8" = 1'-0"



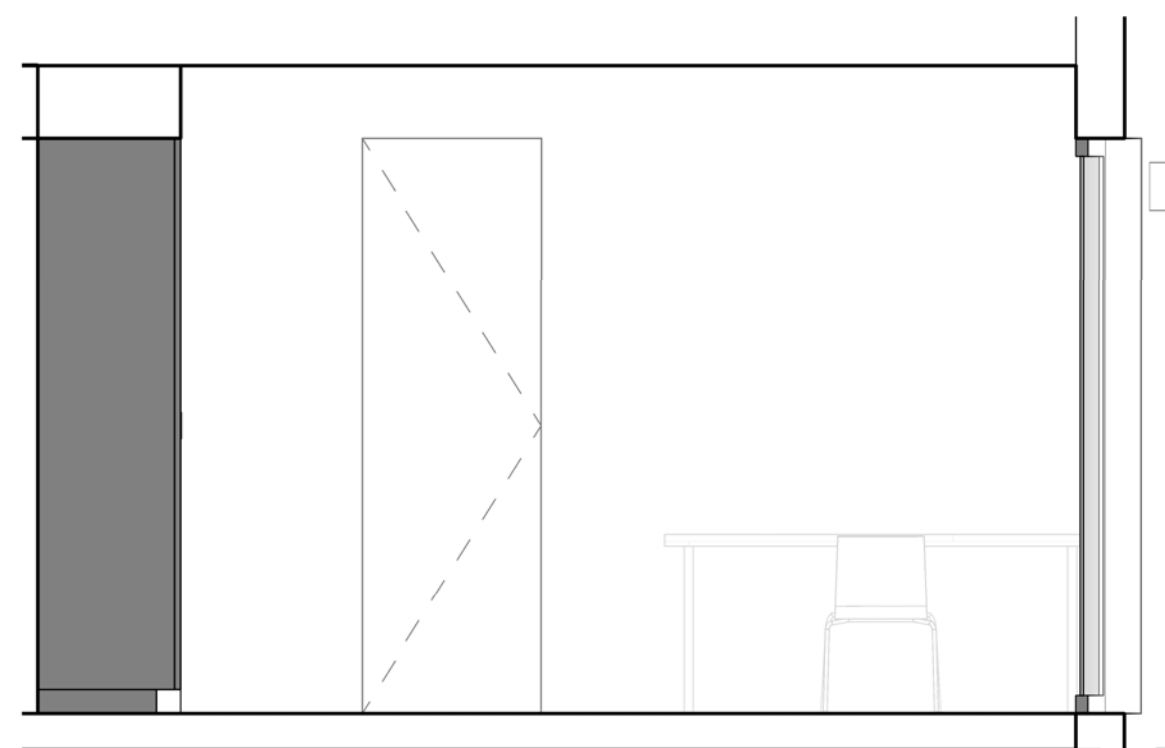
6 Bedroom 2
3/8" = 1'-0"



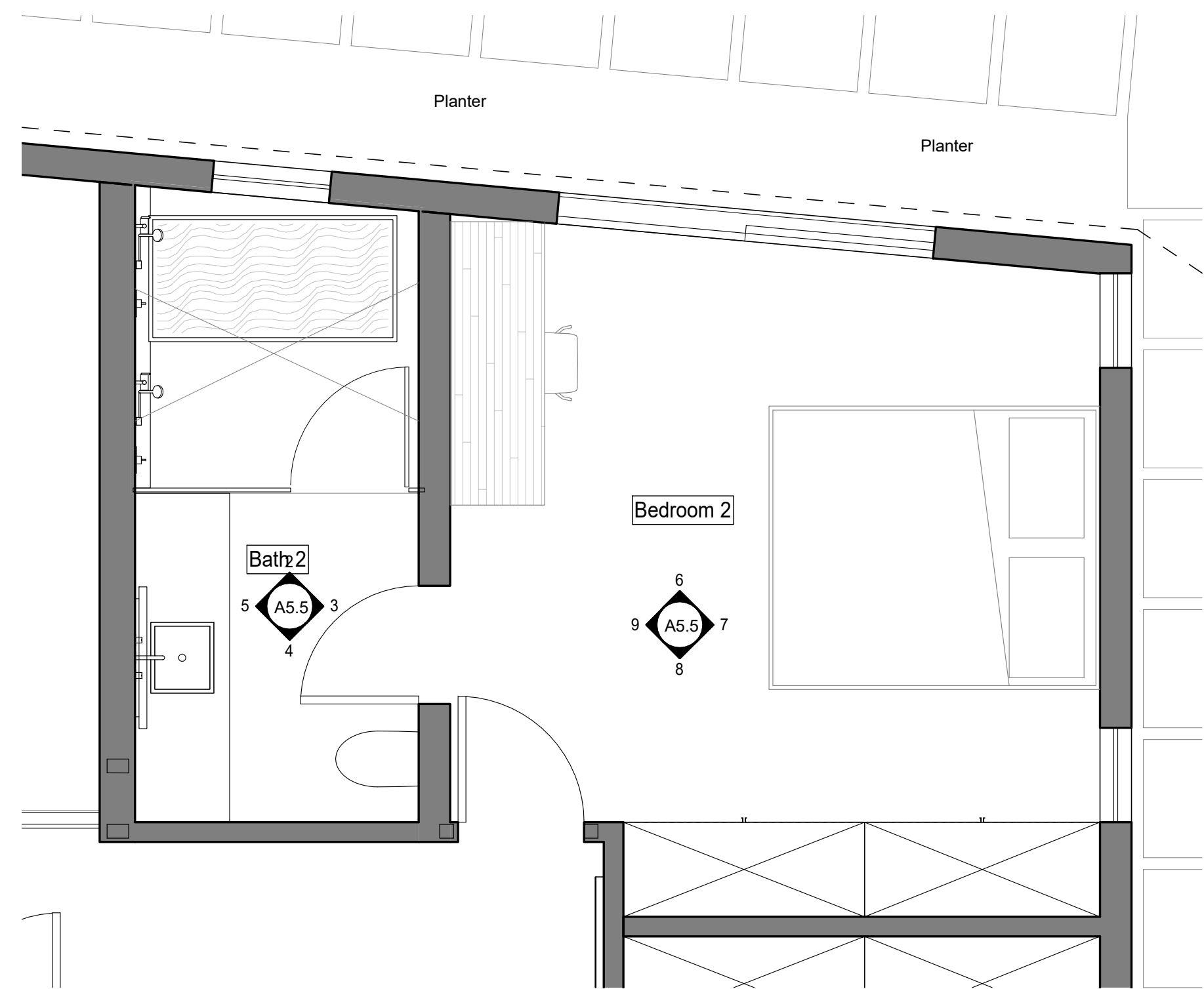
7 Bedroom 2
3/8" = 1'-0"



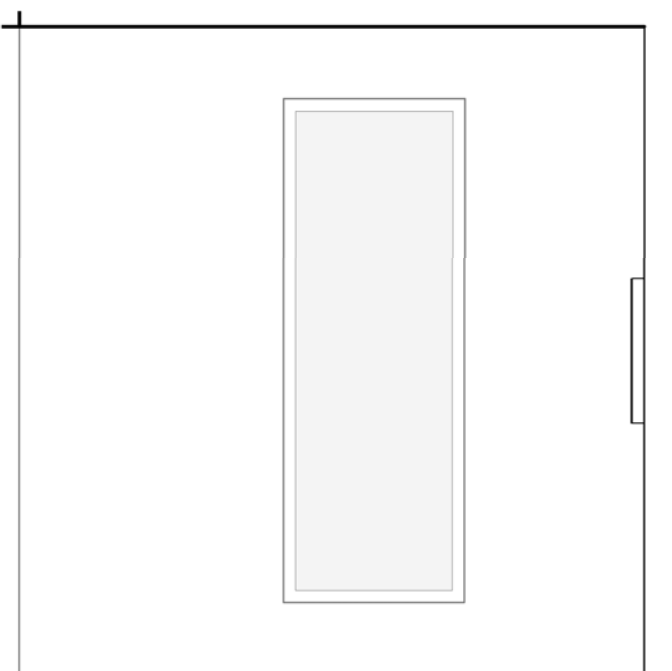
8 Bedroom 2
3/8" = 1'-0"



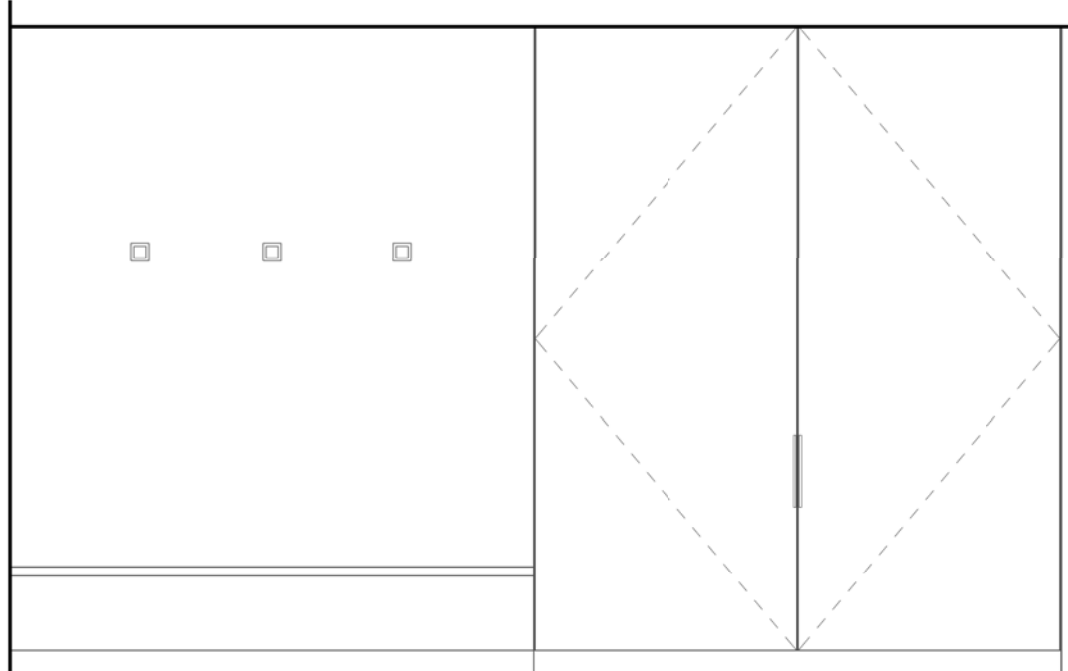
9 Bedroom 2
3/8" = 1'-0"



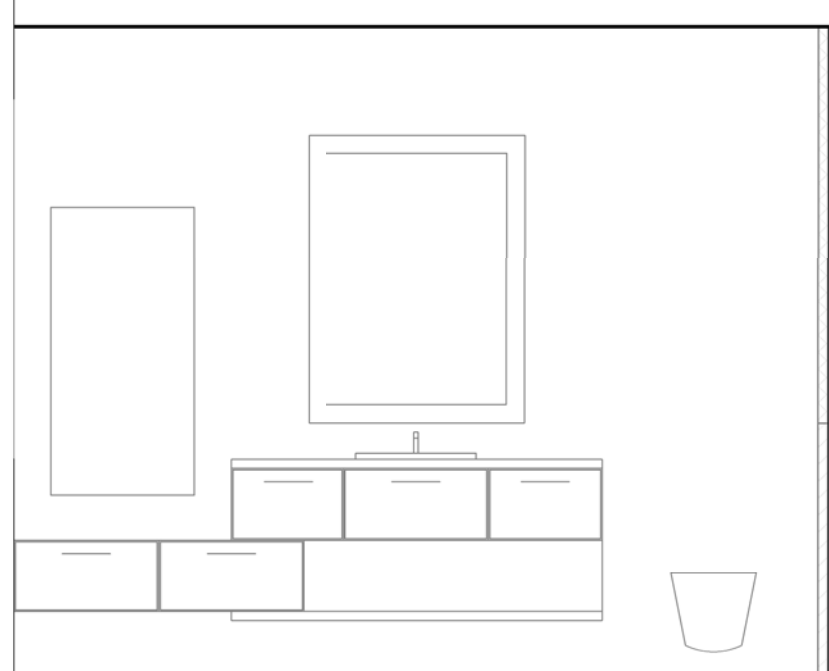
1 House Floor Plan
3/8" = 1'-0"



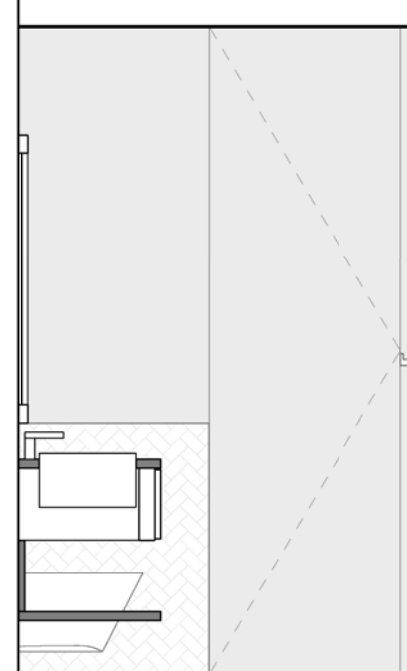
11 Mud Room
3/8" = 1'-0"



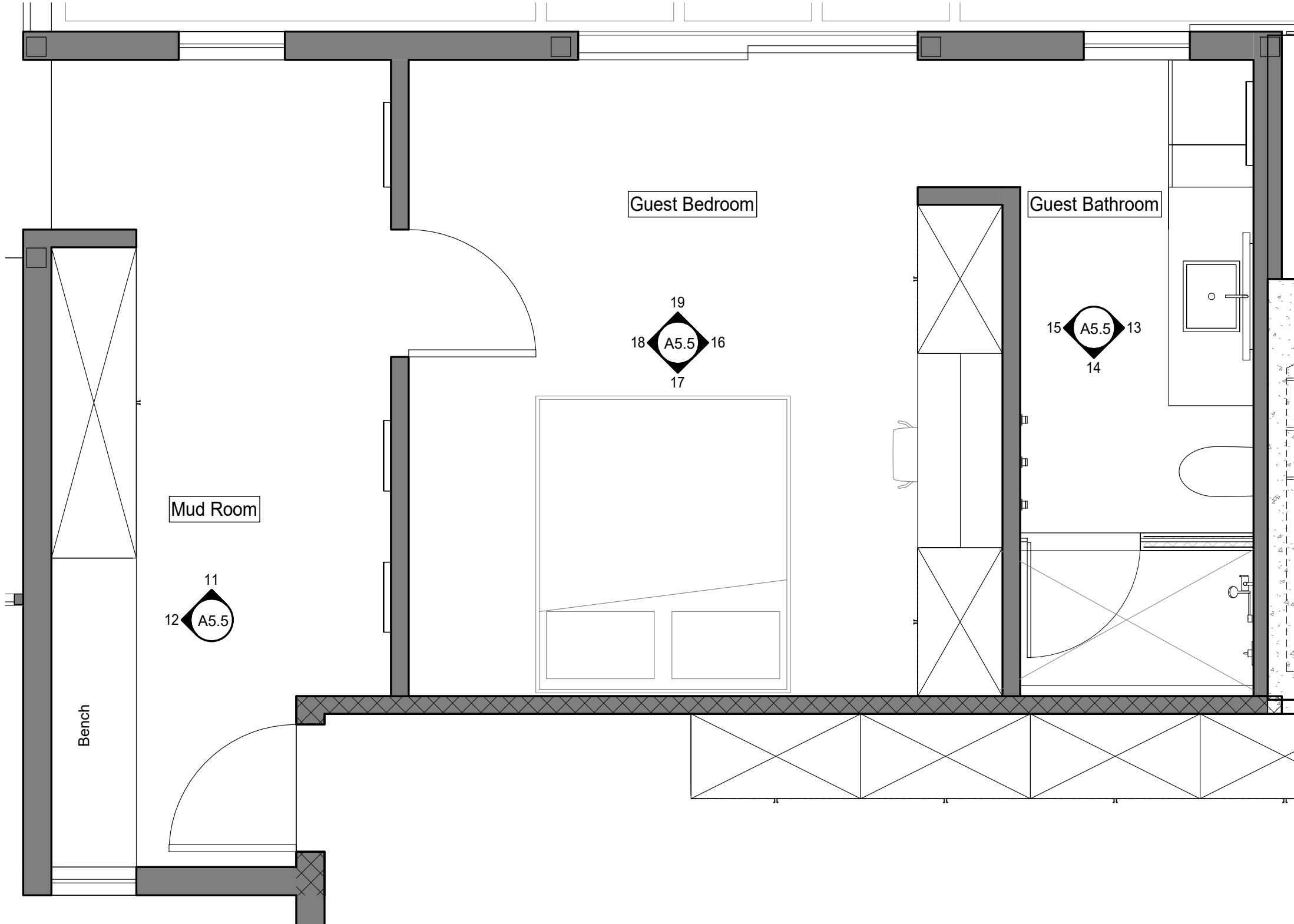
12 Mud Room
3/8" = 1'-0"



13 Guest Bathroom
3/8" = 1'-0"



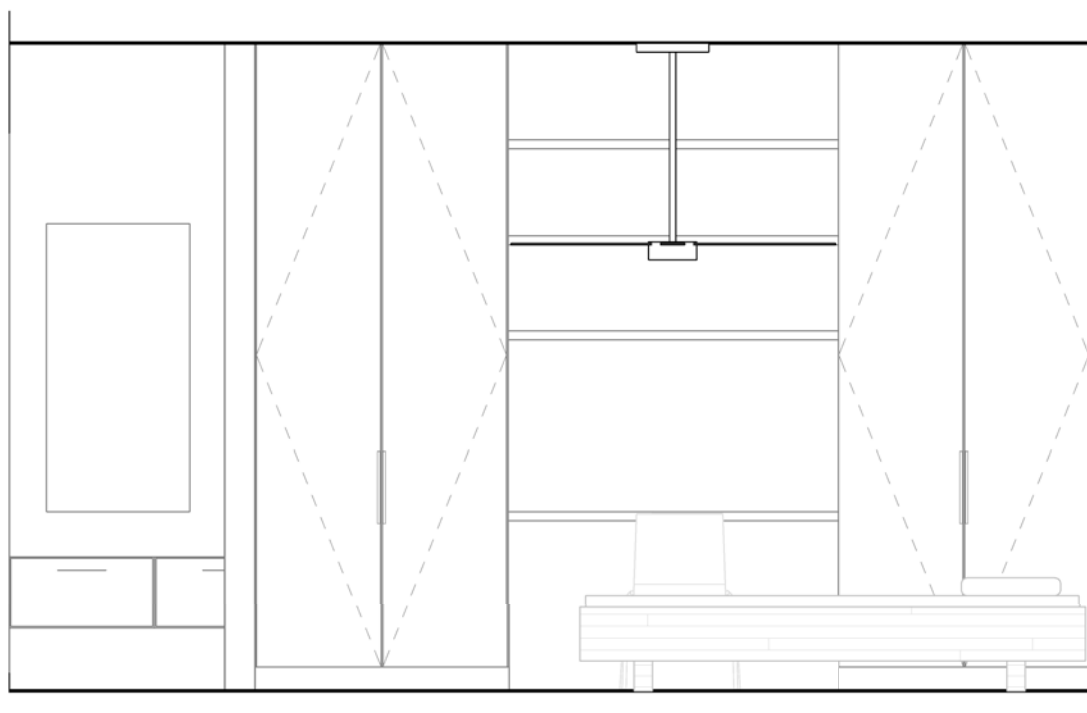
14 Guest Bathroom
3/8" = 1'-0"



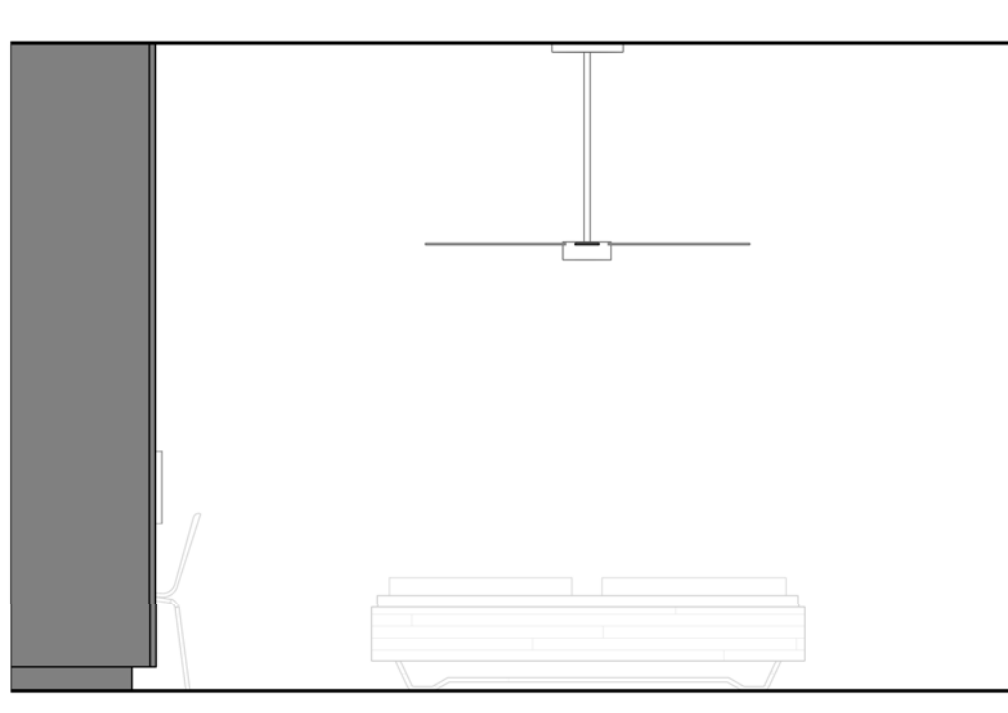
10 House Floor Plan
3/8" = 1'-0"



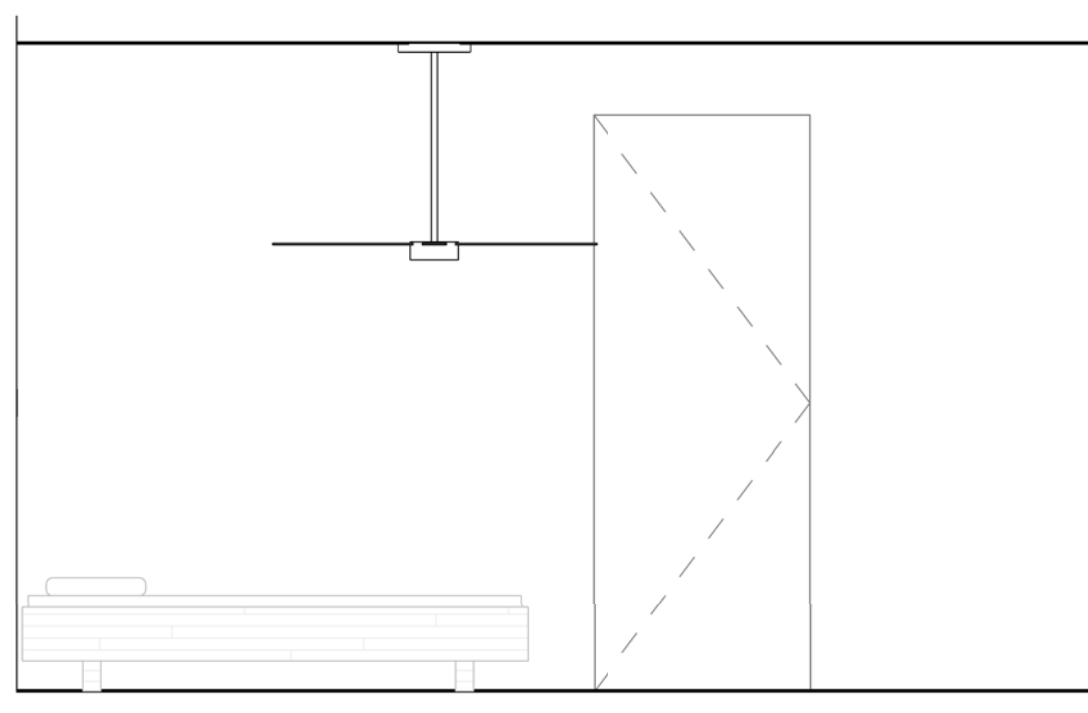
15 Guest Bathroom
3/8" = 1'-0"



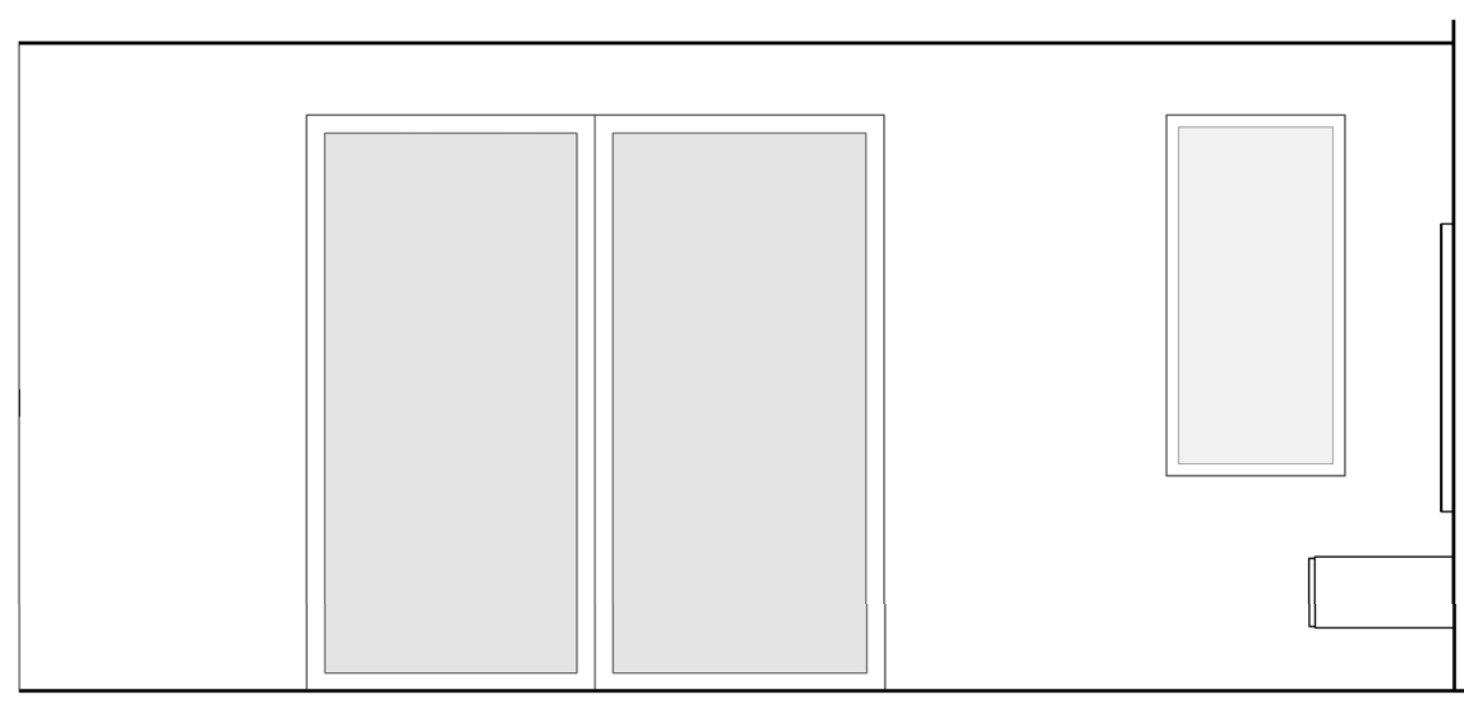
16 Guest Bedroom
3/8" = 1'-0"



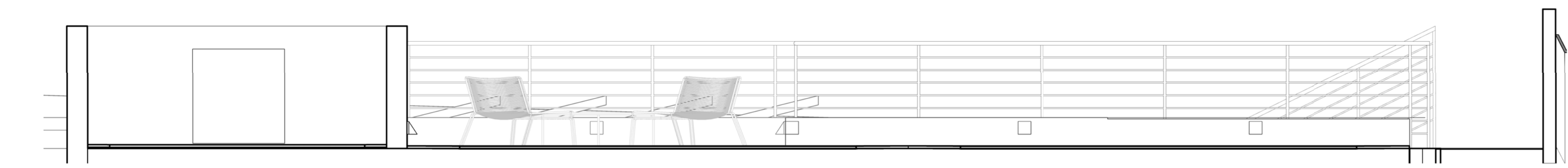
17 Guest Bedroom
3/8" = 1'-0"



18 Guest Bedroom
3/8" = 1'-0"

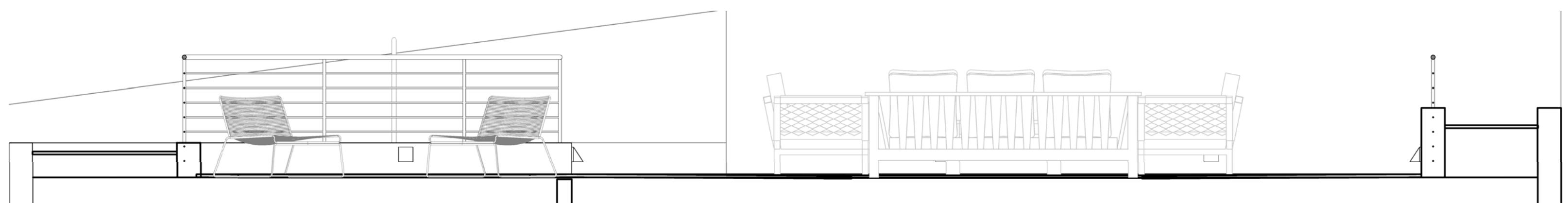


19 Guest Bedroom
3/8" = 1'-0"



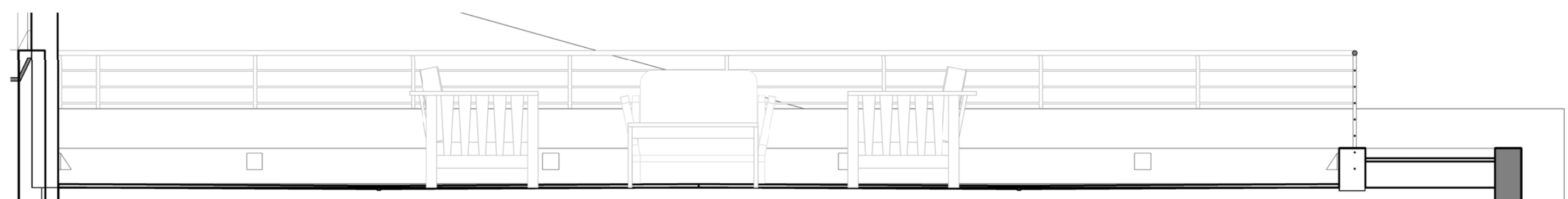
2 Deck above garage

3/8" = 1'-0"



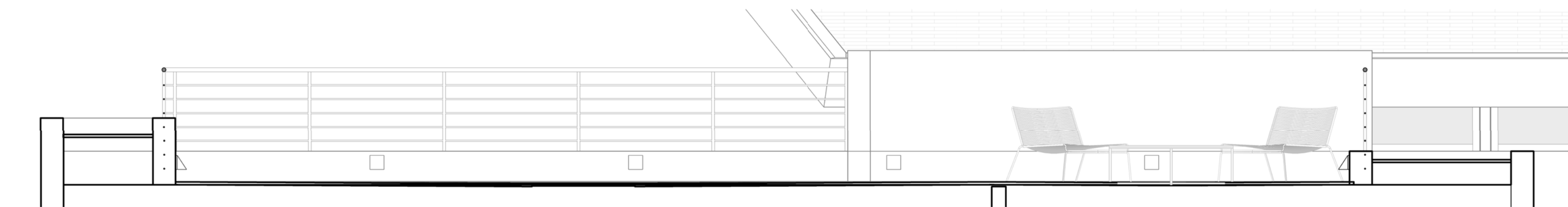
3 Deck above garage

3/8" = 1'-0"



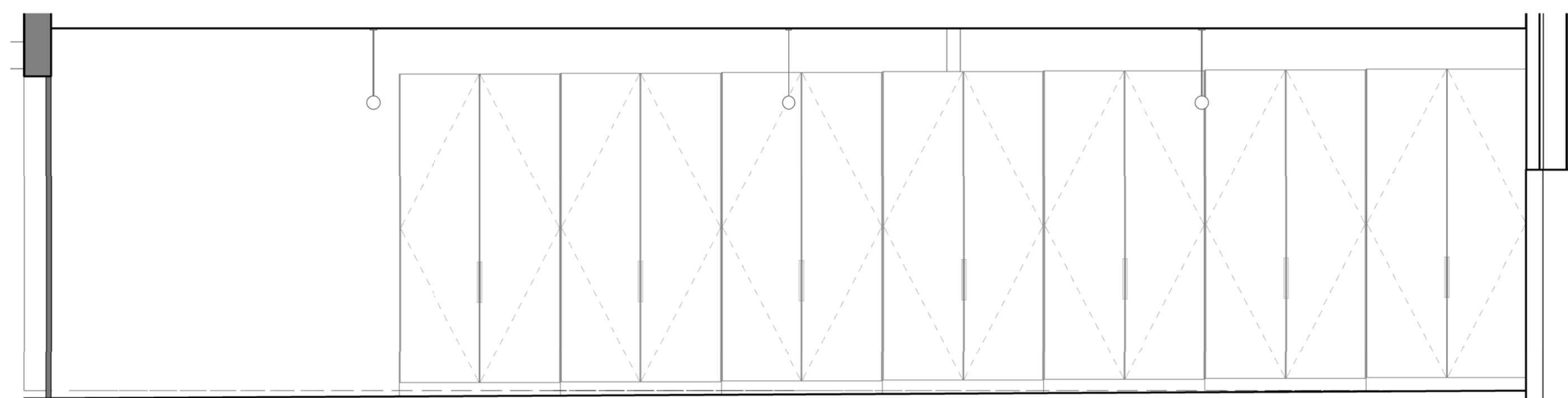
4 Deck above garage

3/8" = 1'-0"



5 Deck above garage

3/8" = 1'-0"



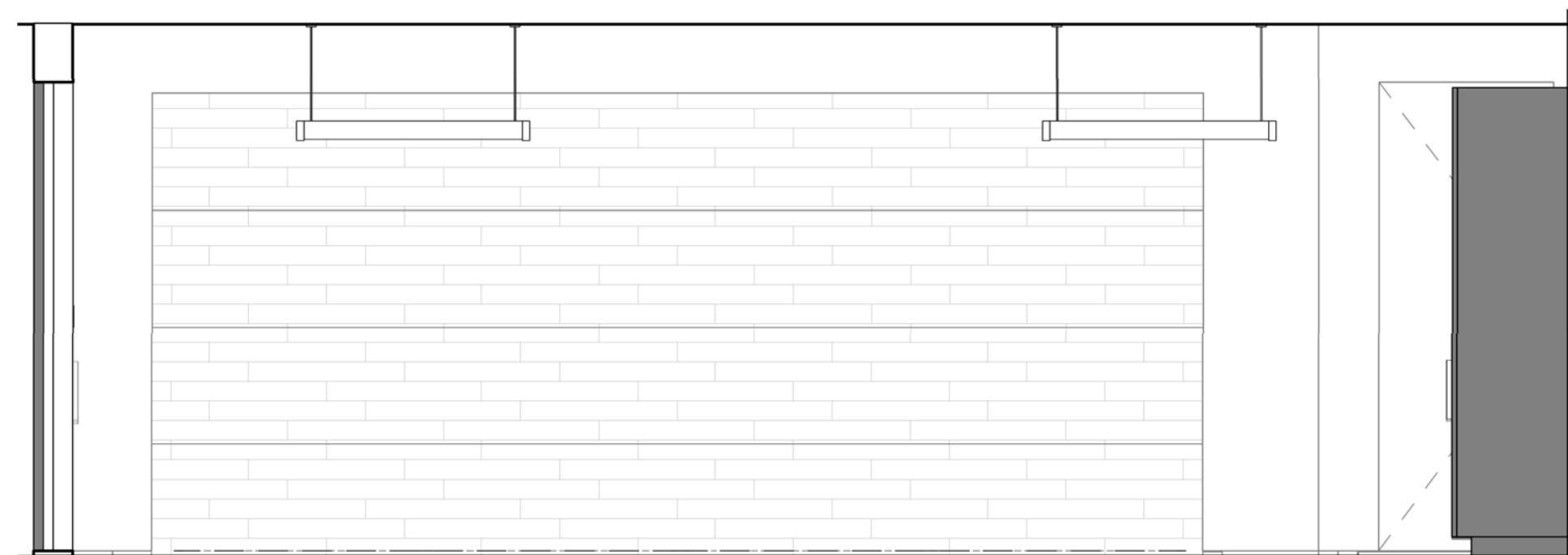
7 Garage

3/8" = 1'-0"



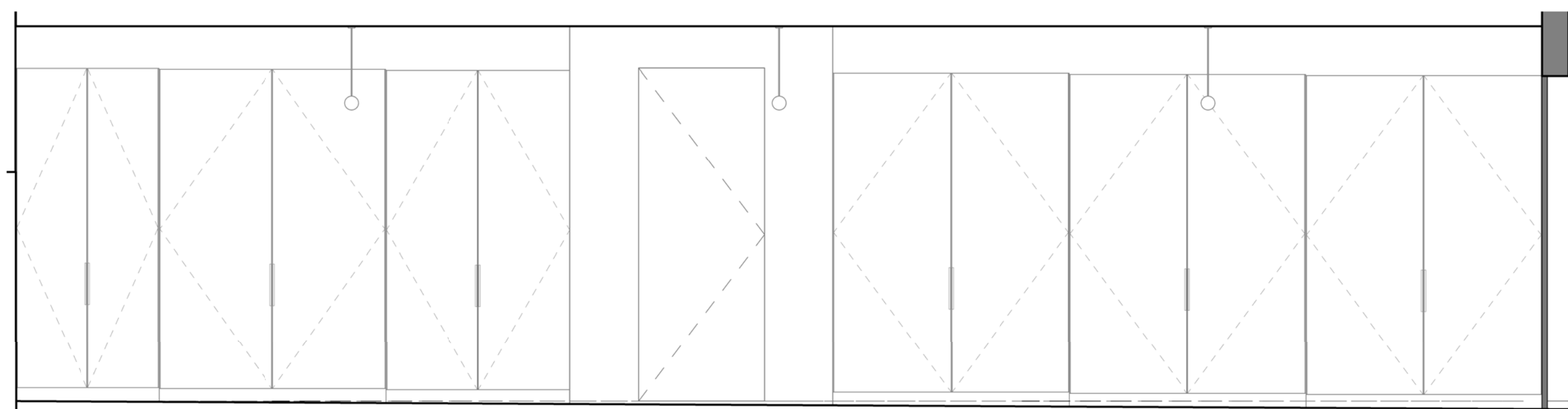
8 Garage

3/8" = 1'-0"



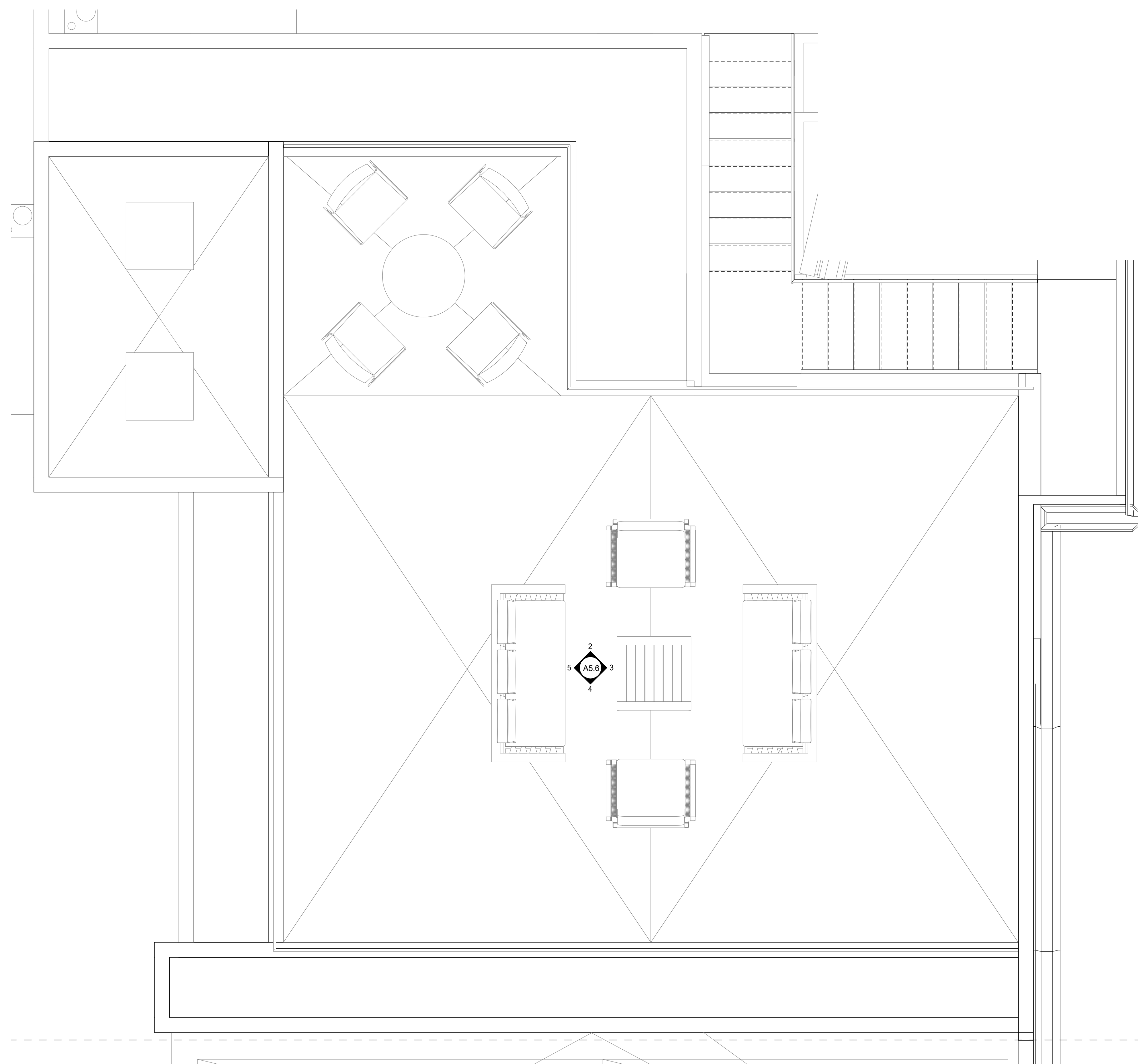
9 Garage

3/8" = 1'-0"



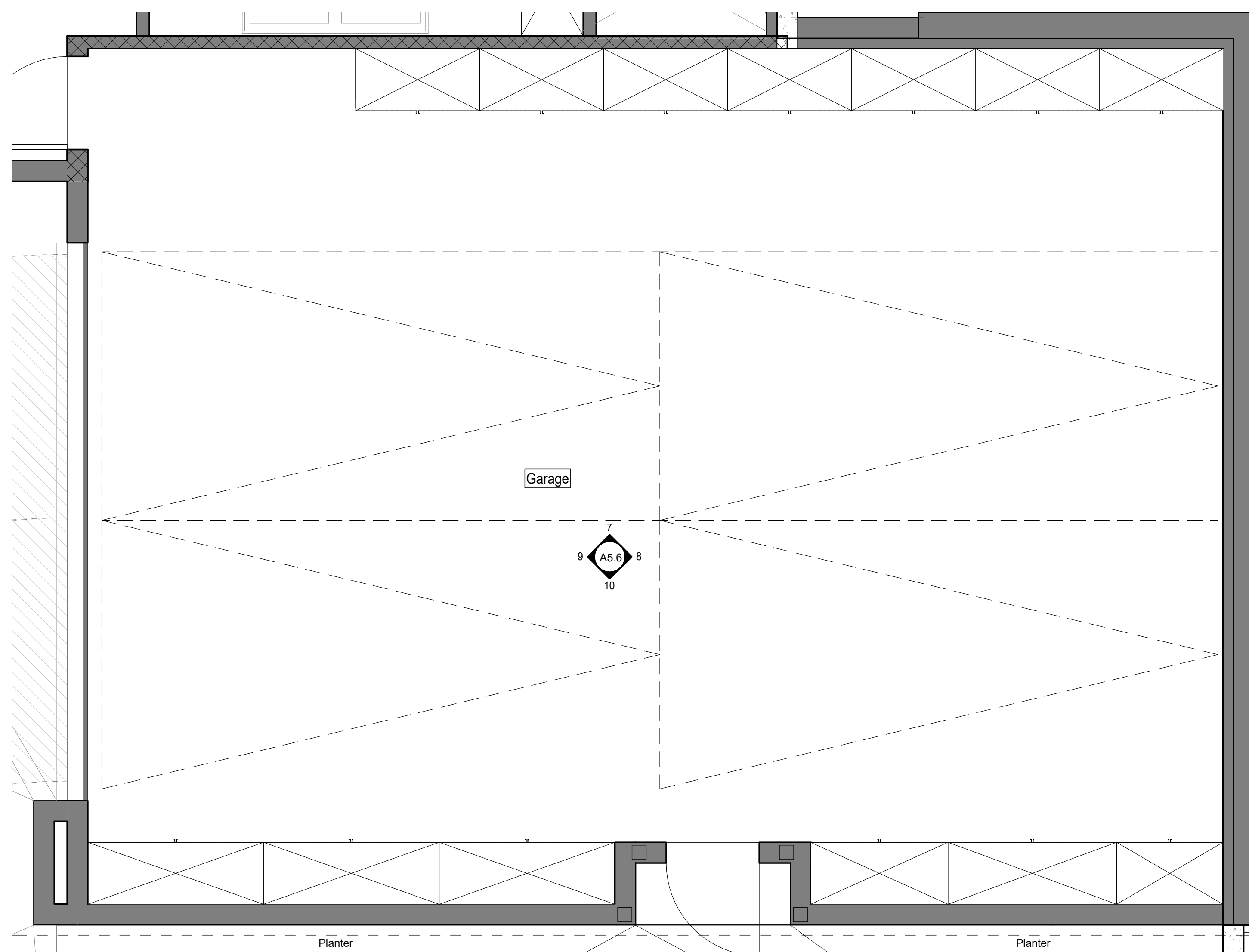
10 Garage

3/8" = 1'-0"



1 Roof Plan

3/8" = 1'-0"



6 House Floor Plan

3/8" = 1'-0"

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County

Printed

7/8/2021 11:43:00 AM

Interior Elevations

A5.6



Wong Residence

New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

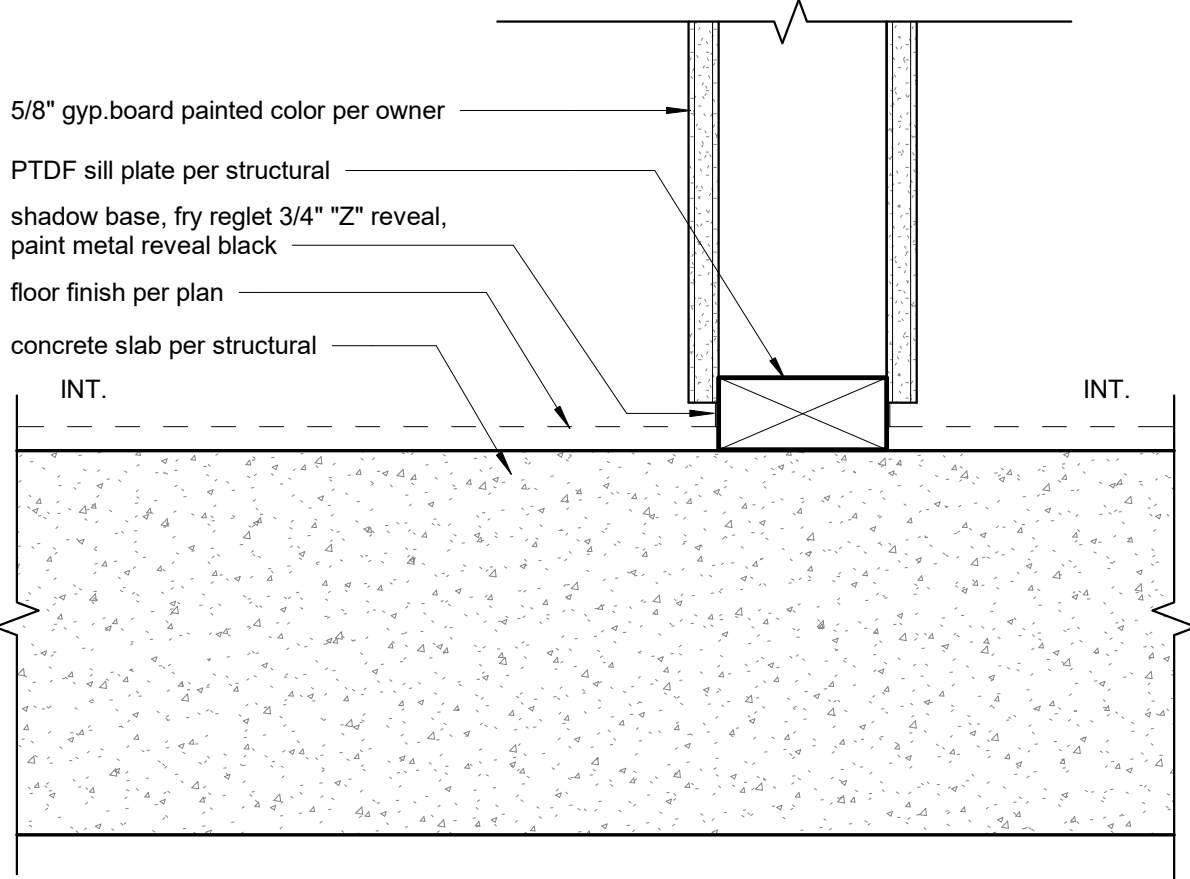
- 10/30/2020 - Orange County

Printed

7/8/2021 11:43:01 AM

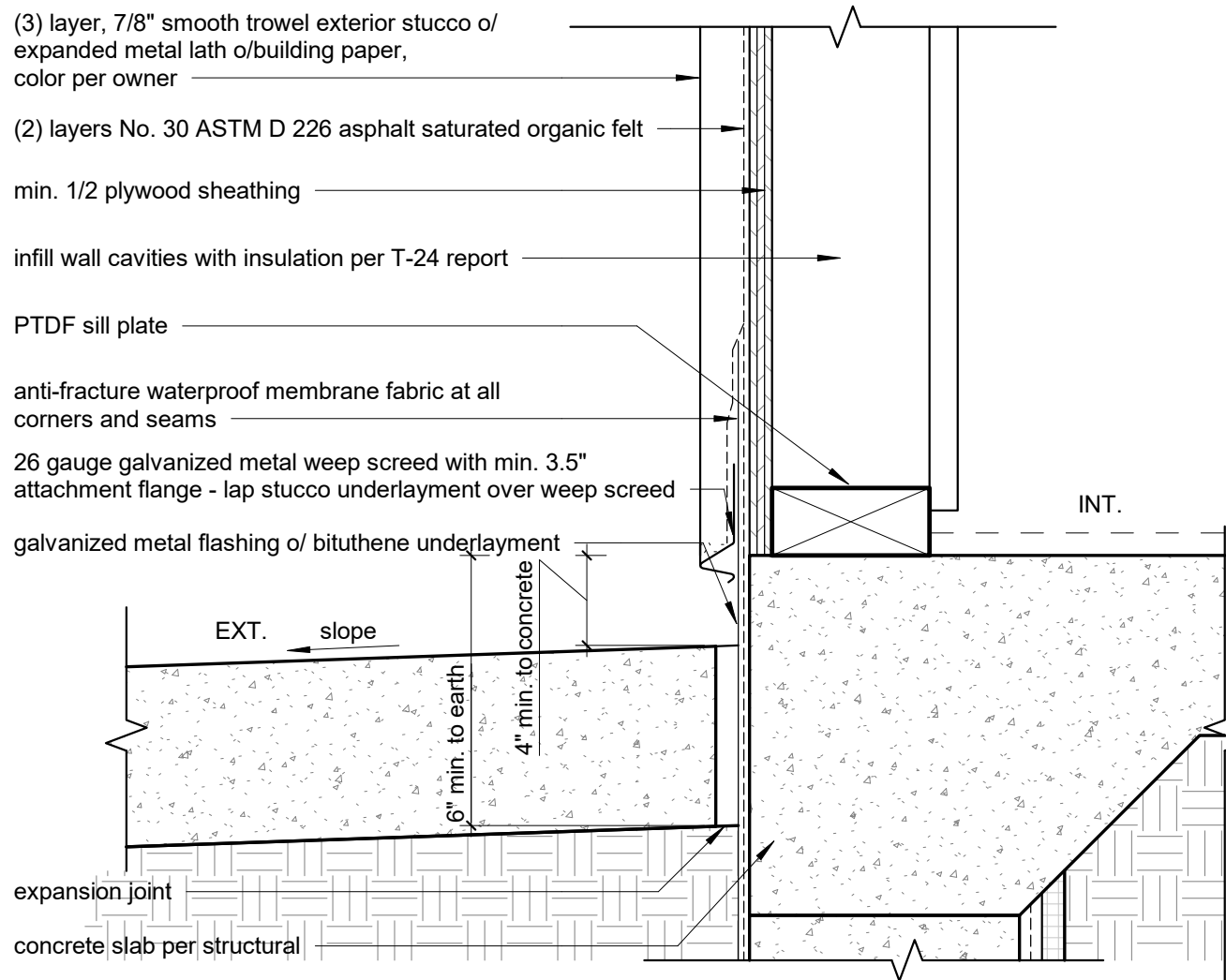
Architectural Details

A6.6



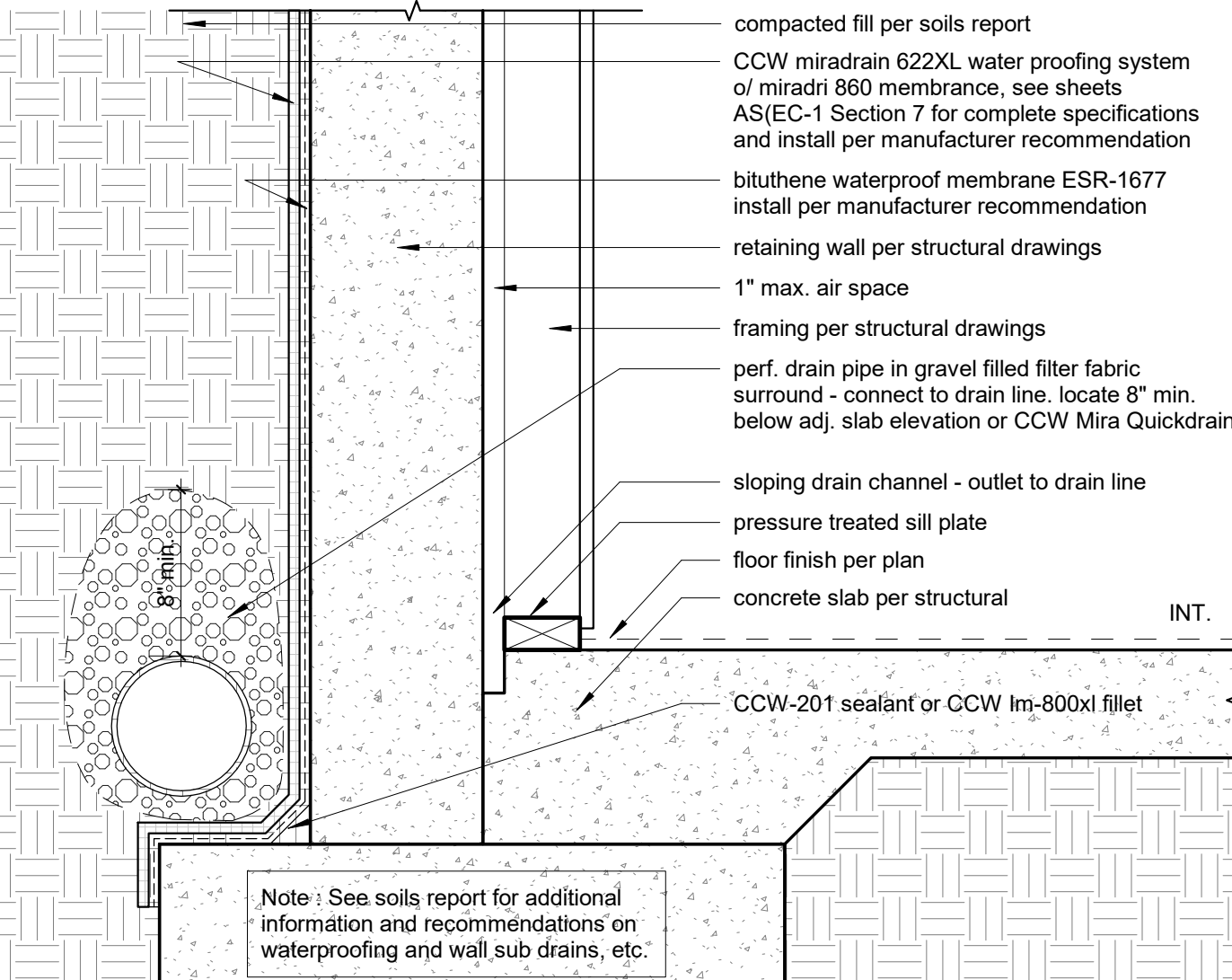
4 Shadow Base

3" = 1'-0"



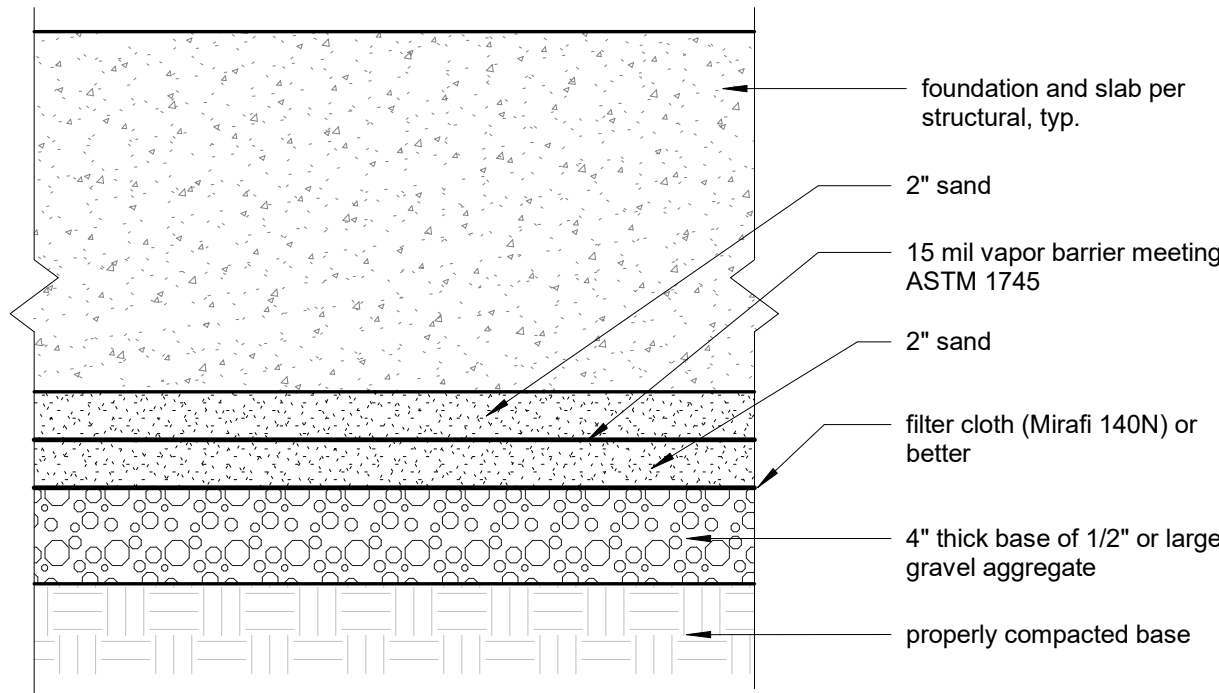
3 Weep Screed

3" = 1'-0"



2 Retaining Wall Drainage

1 1/2" = 1'-0"



1 Slab Waterproofing

1 1/2" = 1'-0"

"NOTE: These architectural details are intended to convey the overall design intent and the minimum required waterproofing, drainage, flashing, and finish requirements only. General Contractor to follow all product manufacturer installation recommendations and installation details. Any discrepancies found between these details and the product manufacturer installation recommendations shall be brought to the attention of the Architect immediately, and prior to any installation."



Certificate of Compliance

Certificate: 2358468 Master Contract: 251419 (251419)
Project: 70186010 Date Issued: 2018-06-05
Issued to: Orial Ltd
14 Haharash St.
Hod Hasharon, 45240
ISRAEL
Attention: Tal Gross

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Parker Burrola
Parker Burrola

PRODUCTS
CLASS - C290104 - DOMESTIC HEATERS (GAS)-Vented Fireplace
CLASS - C290184 - DOMESTIC HEATERS (GAS)-Vented Fireplace-Certified to U.S. Standards

For Use With Natural and Propane Gas

Direct Vent Gas Fireplace Heater

Model Number	Single Burner Maximum Input Rating NG	Single Burner Maximum Input Rating Propane	Dual Burner Maximum Input Rating NG	Dual Burner Maximum Input Rating Propane
Clear - 40RSLS/TS/Tunnel	23,670	21,000	---	---
Clear - 409H RSLS/TS/Tunnel	23,670	21,000	---	---
Clear - 409H RSLS/TS/Tunnel	23,670	21,000	---	---
Stand alone 40TS	23,670	21,000	---	---
Small Square	23,670	21,000	---	---
Classic Corner	23,670	21,000	---	---
Classic Modern	23,670	21,000	---	---

PDQ-507 Rev. 2016-02-18 Page 1



Certificate: 2358468 Master Contract: 251419 (251419)
Project: 70186010 Date Issued: 2018-06-05

Clear - 75RSLS/TS	29,100	22,118	33,029	28,500
Stand Alone 75TS	29,100	22,118	33,029	28,500
Space Creator 75	29,100	22,118	33,029	28,500
Minimal - 75	29,100	22,118	33,029	28,500
Clear 75x65 Tunnel	29,100	22,118	33,029	28,500
Clear 75x65H Tunnel	29,100	22,118	33,029	28,500
Stand Alone 75x65 Curve/Tunnel	29,100	22,118	33,029	28,500
Clear - 60x80 Tunnel	29,100	22,118	33,029	28,500
Minimal - 60x80 Tunnel	29,100	22,118	33,029	28,500
Classic F 70/80	29,100	22,118	33,029	28,500
4 Glass Island	29,100	22,118	33,029	28,500
Clear - 80RSLS/TS	29,100	22,118	33,029	28,500
Clear - 809H RSLS/TS	29,100	22,118	33,029	28,500
Clear - 75H RSLS/TS	29,100	22,118	33,029	28,500
Traditional 90	29,100	22,118	33,029	28,500
Traditional 110	29,100	22,118	33,029	28,500

Clear 90 RSLS/TS/Tunnel (B70)	33,127	19,591	36,154	35,260
Clear 90H RSLS/TS/Tunnel (B70)	33,127	19,591	36,154	35,260

Clear - 110RSLS/TS/Tunnel	37,167	28,500	42,185	33,400
Stand Alone 110 TS	37,167	28,500	42,185	33,400
Minimal - 110 Tunnel	37,167	28,500	42,185	33,400
Island 130	37,167	28,500	42,185	33,400
Minimal - 130 Tunnel	37,167	28,500	42,185	33,400
Clear - 110H RSLS/TS/Tunnel	37,167	28,500	42,185	33,400
Clear 130H RSLS/TS	37,167	28,500	42,185	33,400
Clear - 130 RSLS/TS/Tunnel Top	37,167	28,500	42,185	33,400
Space Creator 120 Mini /Mid	37,167	28,500	42,185	33,400
Space Creator 120H	37,167	28,500	42,185	33,400

Clear 140 RSLS/TS/Tunnel	43,715	36,850	49,616	37,400
Clear - 150H RSLS/TS/Tunnel	43,715	36,850	49,616	37,400
Space Creator 150	43,715	36,850	49,616	37,400
Space Creator 150H	43,715	36,850	49,616	37,400
Stand Alone 150	43,715	36,850	49,616	37,400
Clear 150H RSLS/TS/Tunnel	43,715	36,850	49,616	37,400
Clear 150H RSLS/TS/Tunnel	43,715	36,850	49,616	37,400
Clear - 170 RSLS/TS/Tunnel	43,715	36,850	49,616	37,400
Clear 170H RSLS/TS/Tunnel	43,715	36,850	49,616	37,400

160 Burner	51,277	36,659	58,200	37,500
Clear - 200H RSLS/TS/Tunnel	51,277	36,659	58,200	37,500
Space Creator 200H	51,277	36,659	58,200	37,500

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Certificate: 2358468 Master Contract: 251419 (251419)
Project: 70186010 Date Issued: 2018-06-05

Clear - 250 RSLS/TS/Tunnel	51,277	36,659	58,200	37,500
Clear - 250H RSLS/TS/Tunnel	51,277	36,659	58,200	37,500
180 Burner	52,700			
Clear - 200 RSLS/TS/Tunnel/DG	52,700			
Clear-200H RSLS/TS/Tunnel	52,700			
Space Creator 200	52,700			
Space Creator 200H	52,700			
Clear - 150 RSLS/TS/Tunnel/DG	52,700			
Clear - 250H RSLS/TS/Tunnel	52,700			

* ALTITUDE: N = 0 to 2,000 feet above sea level.
Note: For elevations above 2000 Ft., this appliance shall be de-rated 4% for each 1000 Ft. above sea level.

Single Burner Minimum Input Rating NG	Single Burner Minimum Input Rating Propane	Dual Burner Minimum Input Rating NG	Dual Burner Minimum Input Rating Propane
Clear - 40RSLS/TS/Tunnel	10,419	12,841	---
Clear - 409H RSLS/TS/Tunnel	10,419	12,841	---
Clear - 409H RSLS/TS/Tunnel	10,419	12,841	---
Stand alone 40TS	10,419	12,841	---
Small Square	10,419	12,841	---
Classic Corner	10,419	12,841	---
Classic Modern	10,419	12,841	---

Clear - 75RSLS/TS	16,147	13,811	18,327	17,796
Stand Alone 75TS	16,147	13,811	18,327	17,796
Space Creator 75	16,147	13,811	18,327	17,796
Minimal - 75	16,147	13,811	18,327	17,796
Clear 75x65 Tunnel	16,147	13,811	18,327	17,796
Clear 75x65H Tunnel	16,147	13,811	18,327	17,796
Stand Alone 75x65 Curve/Tunnel	16,147	13,811	18,327	17,796
Clear - 60x80 Tunnel	16,147	13,811	18,327	17,796
Minimal - 60x80 Tunnel	16,147	13,811	18,327	17,796
Classic F 70/80	16,147	13,811	18,327	17,796
4 Glass Island	16,147	13,811	18,327	17,796
Clear - 80RSLS/TS	16,147	13,811	18,327	17,796
Clear - 809H RSLS/TS	16,147	13,811	18,327	17,796
Clear - 75H RSLS/TS	16,147	13,811	18,327	17,796
Traditional 90	16,147	13,811	18,327	17,796
Traditional 110	16,147	13,811	18,327	17,796

Clear 90 RSLS/TS/Tunnel	14,461	14,104	14,461	14,104
Clear 90H RSLS/TS/Tunnel	14,461	14,104	14,461	14,104

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Certificate: 2358468 Master Contract: 251419 (251419)
Project: 70186010 Date Issued: 2018-06-05

Clear - 110 RSLS/TS/Tunnel	22,800	22,900	28,878	26,837
Stand Alone 110 TS	22,800	22,900	28,878	26,837
Minimal 110 Tunnel	22,800	22,900	28,878	26,837
Island 130	22,800	22,900	28,878	26,837
Minimal 130 Tunnel	22,800	22,900	28,878	26,837
Clear - 110H RSLS/TS/Tunnel	22,800	22,900	28,878	26,837
Clear 130H RSLS/TS	22,800	22,900	28,878	26,837
Clear - 150 RSLS/TS/Tunnel Top	22,800	22,900	28,878	26,837
Space Creator 120 Mini /Mid	22,800	22,900	28,878	26,837
Space Creator 120H	22,800	22,900	28,878	26,837

Clear 140 RSLS/TS/Tunnel	23,300	27,100	28,878	27,467
Clear - 150H RSLS/TS/Tunnel	23,300	27,100	28,878	27,467
Space Creator 150	23,300	27,100	28,878	27,467
Space Creator 150H	23,300	27,100	28,878	27,467
Stand Alone 150	23,300	27,100	28,878	27,467
Clear 150H RSLS/TS/Tunnel	23,300	27,100	28,878	27,467
Clear - 170 RSLS/TS/Tunnel	23,300	27,100	28,878	27,467
Clear 170H RSLS/TS/Tunnel	23,300	27,100	28,878	27,467

160 Burner	27,467	26,400	27,454	37,500
Clear - 200H RSLS/TS/Tunnel	27,467	26,400	27,454	37,500
Space Creator 200	27,467	26,400	27,454	37,500
Space Creator 200H	27,467	26,400	27,454	37,500
Clear - 250 RSLS/TS/Tunnel	27,467	26,400	27,454	37,500
Clear - 250H RSLS/TS/Tunnel	27,467	26,400	27,454	37,500

180 Burner	21,700			
Clear - 200H RSLS/TS/Tunnel	21,700			
Space Creator 200	21,700			
Space Creator 200H	21,700			
Clear - 250 RSLS/TS/Tunnel	21,700			
Clear - 250H RSLS/TS/Tunnel	21,700			

APPLICABLE REQUIREMENTS

ANSI Z21.88-2016 CSA 2.33-2016 - Vented Gas Fireplace Heaters
IEBC P4.142, P4.149 Testing Method for Annual Fireplaces Efficiency

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Supplement to Certificate of Compliance

Certificate: 2358468 Master Contract: 251419 (251419)

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Project	Date	Description
70186010	2018-06-05	Add models Clear (130,150,250)H High Glass models tested in project 70185247. Finalizing certification after receiving all documentation. Update to ANSI Z21.88/CSA 2.33-2016 per gas notice 400.
70031531	2015-08-21	Updated Gas Fireplaces to Gas Notice 329 to ANSI Z21.88/CSA 2.33-2014
2758663	2014-11-21	Tested gas barriers to Gas Fireplaces requirement to (Gas Notices 294 & 329). Updated report to ANSI Z21.88/CSA 2.33-2014 and added Class Nos. 8805-45 P4.142 Testing Method for Annual Fireplaces Efficiency.
2605464	2013-09-25	Add alternate model nos. 4 Glass Island, Clear-250, 350, 400-RSLS/TS, Tunnel and Power Vent System-Dura Vent and added gas components.
2503686	2012-04-25	Corrected Factory Inspection Report.
2440619	2011-08-11	Efficiency Testing CSA P4.1-42 for Canadian Certification.
2395268	2011-02-15	Address corrected to Certificate of Compliance.
2358468	2011-01-14	Original Certification

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CORTAL
YOUR LIFE. YOUR FIRE

Manufacturer Update - Fireplace Log Modification
Product/Model Update Date: 07/27/2018
Serial Number Forward: 07/27/2018

110-250 H Front Double Glass/Protective Screen - Flush

Model	(H) Height	(W) Width	(D) Depth	Glass Opening			(GS) Side
				C1	C2	C3	
-110 H	36 1/2"	47 1/2"	16 1/2"	7 1/2"	29 1/2"	10"	43 1/2" W X 21 1/2" H
-130 H	36 1/2"	54 1/2"	16 1/2"	7 1/2"	27 1/2"	10"	60 1/2" W X 21 1/2" H
-150 H	36 1/2"	64 1/2"	16 1/2"	7 1/2"	32 1/2"	10"	80 1/2" W X 21 1/2" H
170 H	35 1/2"	72 1/2"	16 1/2"	7 1/2"	36 1/2"	10"	68" W X 21 1/2" H
-200 H	36 1/2"	81 1/2"	16 1/2"	7 1/2"	40 1/2"	10"	77 1/2" W X 21 1/2" H
-250 H	36 1/2"	100 3/2"	16 1/2"	7 1/2"	49 1/2"	10"	96 1/2" W X 21 1/2" H

* Dimensions includes 1/2" lip (for drywall)
Note: 1. Drawings are not to Scale
2. All dimensions in inches
3. The dimensions are both for Double Glass and Protective Screen

CORTAL
YOUR LIFE. YOUR FIRE

Manufacturer Update - Fireplace Log Modification
Product/Model Update Date: 07/27/2018
Serial Number Forward: 07/27/2018

110-250 H Front Double Glass/Protective Screen - Flush

Model	A	B	C	D
-110 H	19 1/2"	59 1/2"	18 1/2"	10"
-130 H	19 1/2"	69 1/2"	18 1/2"	10"
-150 H	19 1/2"	69 1/2"	18 1/2"	10"
170 H	19 1/2"	77 1/2"	18 1/2"	10"
-200 H	18 1/2"	87"	18 1/2"	10"
-250 H	19 1/2"	105 1/2"	18 1/2"	10"

Note: 1. Drawings are not to Scale
2. All dimensions in inches
3. The dimensions are both for Double Glass and Protective Screen

LEGEND
X" Type X Glass
Wood
Steel
Steel Studs

CORTAL
YOUR LIFE. YOUR FIRE

Manufacturer Update - Fireplace Log Modification
Product/Model Update Date: 07/27/2018
Serial Number Forward: 07/27/2018

110-250 H Front Double Glass/Protective Screen - Flush

Note: 1. Drawings are not to Scale
2. All dimensions in inches
3. The dimensions are both for Double Glass and Protective Screen

Clearance 2" from each side to non combustible material
The valve can be moved 36" - 40" from the center of the fireplace in any direction

TECHNICAL INFORMATION

SUBJECT	DETAILS
TYPE OF GAS	Natural Gas (NG) or Propane (LPG)
VENT	4"/6" or 5"/8" Direct Vent
HEAT BARRIER	Screen (standard) or Double Glass (optional)
INTERIOR DESIGN MEDIA	Wood Style Log Set with Embers Charred Oak Clay Logs Split Oak Ceramic Fiber Logs Driftwood Logs Mixed Long and Short Branches with Embers
	Ceramic Fiber Stones Colors: Grey or White Size: Large or Small
	Polished Ceramic Glass Colors: Amber, Black, Blue and Clear
General Note	Leave 20% of burner and grill uncovered by media
WEIGHT	Clear 40H/70: 206 lbs. Clear 60x80: 318 lbs. Clear 75x65: 358 lbs. Clear



Hallmark® Certificate of Conformance and License (CCL)

VELUX America Inc.
PO Box 5001
Greenwood, SC 29648-5001

Mfr ID: 426
For more information visit www.amscert.com
Website:
TEL: 864-941-4828



Product No.	Product Name	Standard	Rating	Wide	High	Test Report #	CertDate	ExpDate
426-H-67217	FS + M08 (or smaller) + [2004 or 2008 or 2009 94]	101A.S.2/A440-11	SK-G-P0105-Size tested 775x387mm (+30.5x55in) Positive Design Pressure (DP) 16,739Pa (356psf) Class CW-P060-Size tested 775x387mm (30.5x55in)-Type SK-G, Positive Design Pressure (DP) 10,780Pa (225psf)	775mm	139mm	NCTL-110-16096-1	8/1/2013	9/25/2021
426-H-67218	FS + M08 (or smaller) + [2004 or 2008 or 2009 94]	101A.S.2/A440-08	SK-G-P0105-Size tested 775x387mm (+30.5x55in) Positive Design Pressure (DP) 16,739Pa (356psf) Class CW-P060-Size tested 775x387mm (30.5x55in)-Type SK-G, Positive Design Pressure (DP) 10,780Pa (225psf)	775mm	139mm	NCTL-110-16096-1	8/1/2013	9/25/2021
426-H-67219	FS + M08 (or smaller) + [2004 or 2008 or 2009 94]	CSA A440 S1-09	DP: +10,780/-3830 Pa (+225/- 80 psf) Water Penetration Resist. Test Pressure = 7.20Pa (15.04psf), Can. Air Infiltration Level = F100	775mm	139mm	NCTL-110-16096-1	1/1/2014	9/25/2021

WDMA HEREBY CERTIFIES that the aforesaid Company ("Licensee"), at its participating manufacturing plant(s), is licensed to use the WDMA Registered Hallmark on product lines that have been manufactured in accordance with the standards. It is further certified that the plant(s), facilities, quality control procedures, methods, and processes of Licensee have been inspected by WDMA, and are subject to regular follow-up inspection and test. It is further certified that samples of the product set forth above were tested and found to comply with the standards.

By: *John McFee* John McFee, VP of Certification Programs, WDMA Hallmark

By: *Rhonda Schatz* Rhonda Schatz, Authorized Representative, AMS

Program Sponsor:
Window and Door Manufacturers Assoc.
330 N. Wabash Avenue, Suite 2000
Chicago, IL 60611
TEL (312) 673-4828 www.wdma.com

Program Administrator:
Administrative Management Systems, Inc.
PO Box 750, 100 West Main
Sacred Heart, NY 13855
TEL (315) 846-2234 stan@amscert.com

WD-20 10/14/09 Friday, June 12, 2015

Page 1

Velux Skylight Product Report

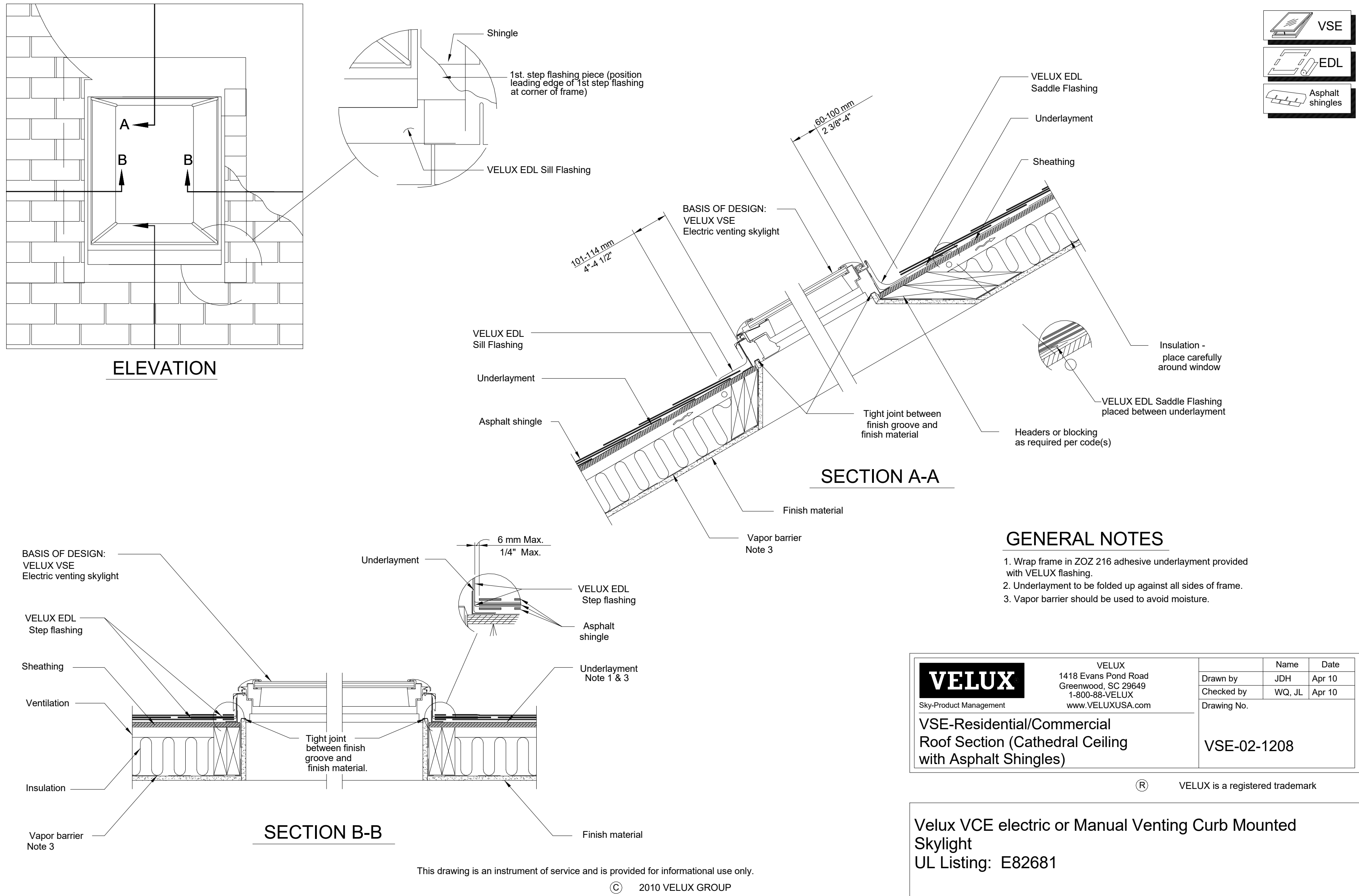
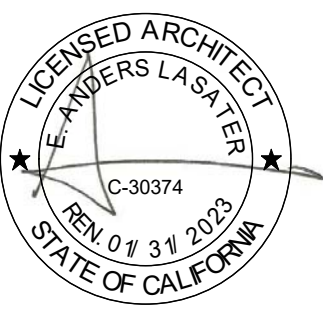


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949 497 1827

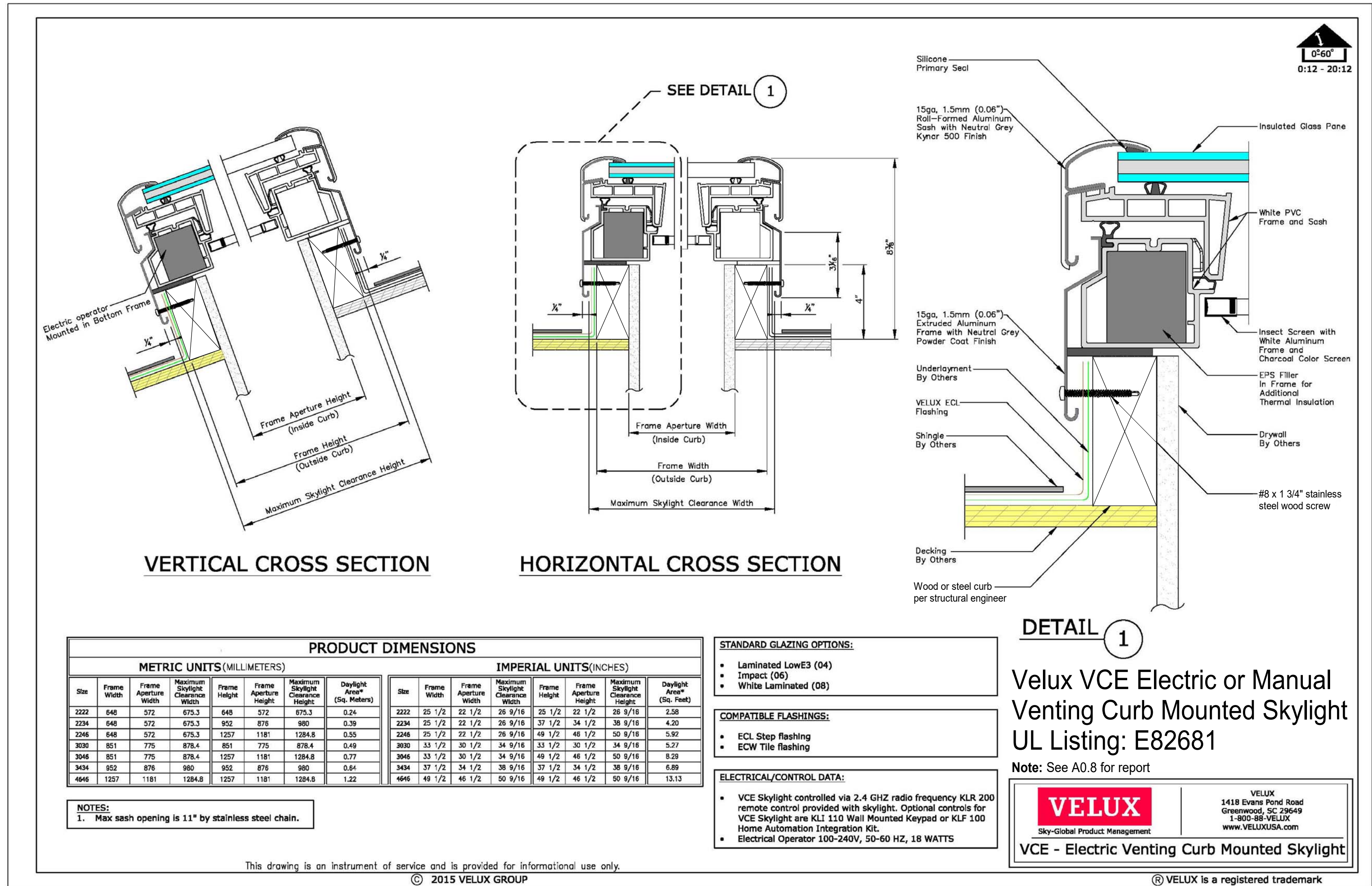
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Written dimensions shall take preference over scaled dimensions and shall be verified in the field. Any discrepancy or error shall be brought to the attention of the Architect prior to the commencement of any work.



(PROVIDED DIRECTLY BY THE MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.)



Wong Residence

New Single Family Residence (#001-2019)
1907 Park Skyline Road,
Santa Ana, CA 92705

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County
- 1
- 2
- 3
- 4
- 5

Printed

7/8/2021 11:43:13 AM

Skylight Report & Specifications

A6.13

"NOTE: These architectural details are intended to convey the overall design intent and the minimum required waterproofing, drainage, flashing, and finish requirements only. General Contractor to follow all product manufacturer installation recommendations and installation details. Any discrepancies found between these details and the product manufacturer installation recommendations shall be brought to the attention of the Architect immediately, and prior to any installation."



ICC-ES Evaluation Report
ESR-2298
Revised May 2019
Revised November 21, 2019
This report is subject to renewal May 2020.

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DIVISION: 07 00—THERMAL AND MOISTURE PROTECTION
Section: 07 07 00—Coated Foam Roofing
REPORT HOLDER:
BASF CORPORATION
EVALUATION SUBJECT:
BASF CORPORATION COATED FOAM PLASTIC ROOF COVERINGS: FE348® SERIES, ELASTOSPRAY® E1000 SERIES AND SKYTITE® SERIES
ADDITIONAL LISTEES:
GAF
1.0 EVALUATION SCOPE
Compliance with the following codes:
■ 2018, 2015, 2012 and 2009 International Building Code® (IBC)
■ 2015 Abu Dhabi International Building Code (ADIBC)
The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.
Properties evaluated:
■ Physical properties
■ Fire classification
■ Wind resistance
■ Impact resistance
■ Elimination of thermal barrier (roofing)
2.0 USES
The coated foam plastic roof coverings described in this report are used in construction of classified roof assemblies, as noted in Tables 1 and 2. The roof covering systems recognized in this report may be used on buildings of any type of construction.
3.0 DESCRIPTION
3.1 General:
BASF Corporation FE348® Series coated foam plastic roof coverings consist of liquid-applied coatings over FE348-2.5, FE348-2.8 or FE348-3.0 spray-applied polyurethane foam plastic insulation.
BASF Corporation ELASTOSPRAY® E1000 Series coated foam plastic roof coverings consist of liquid-applied coatings over ELASTOSPRAY E1255, E1285 or E1305 spray-applied polyurethane foam plastic insulation.
BASF Corporation SKYTITE® Series coated foam plastic roof coverings consist of liquid-applied coatings over SKYTITE® 2.5, SKYTITE® 2.8 or SKYTITE® 3.0 spray-applied polyurethane foam plastic insulation.
3.2 Spray Polyurethane Foam Plastic Insulation:
3.2.1 General: BASF Corporation FE348-2.5, FE348-2.8 and FE348-3.0 ELASTOSPRAY E1255, E1285 and E1305 and SKYTITE® 2.5, SKYTITE® 2.8 and SKYTITE® 3.0 are two-component, spray-applied, foam plastic insulation complying with ASTM C1029-Type III, and are produced in densities of 2.5, 2.8 and 3.0 pcf (60.0, 44.8 and 48.0 kg/m³), respectively. The foam plastic ingredients (Component A and Component B) are available in 5-gallon (18.9 L) drums and have a shelf life of nine months for Component A and three months for Component B when stored at temperature between 50°F and 80°F (10°C and 26.7°C).
3.2.2 Surface-burning Characteristics: The foam plastic insulation have a flame-spread rating of 75 or less when tested in accordance with ASTM E84 or UL 723 at a minimum thickness of 2.0 inches (51 mm).
3.3 Coatings:
3.3.1 General: The coatings recognized in this report for use in the BASF Corporation roofing systems are GAF DiaThorp® roof coating and BASF FECoat 1000 acrylic roof coating.
3.3.2 GAF DiaThorp® Roof Coating (Internationally named United Coatings™ DiaThorp® Roof Coatings): DiaThorp® coating is a single-component, liquid-applied, 100 percent acrylic elastomeric coating, produced by GAF. It is supplied in 5-gallon (18.9 L) pails and 35-gallon (132 L) drums and has a shelf life of 24 months when stored at temperature between 50°F and 80°F (10°C and 26.7°C). The DiaThorp® coating complies with ASTM D6083.
3.3.3 BASF FECoat 1000 Acrylic Roof Coating: BASF FECoat 1000 coating is a single-component, liquid-applied, 100 percent acrylic elastomeric coating. It is supplied in 5-gallon (18.9 L) pails and 35-gallon (132 L) drums and has a shelf life of 24 months when stored at temperature between 50°F and 80°F (10°C and 26.7°C). The BASF FECoat 1000 coating complies with ASTM D6083.
3.3.4 Polyglass USA, LLC PolyLite 71-HS Acrylic Roof Coating: PolyLite 71-HS is a 100 percent acrylic elastomeric coating, produced by GAF. It is supplied in 5-gallon (18.9 L) pails and 35-gallon (132 L) drums and has a shelf life of 24 months when stored at temperature between 50°F and 80°F (10°C and 26.7°C). The PolyLite 71-HS coating complies with ASTM D6083 and is recognized in ESR-5038. The coating is supplied in 4.75-gallon (18 L) pails and has a shelf life of eighteen months when stored in factory-sealed containers at temperatures no less than 35°F (1.8°C) and no greater than 120°F (49°C).
3.3.5 Polyglass USA, LLC PolyLite 71-HS Acrylic Roof Coating: PolyLite 71-HS is a 100 percent acrylic elastomeric coating that complies with ASTM D6083 and is recognized in ESR-5038. The coating is supplied in 5-gallon (18.9 L) pails, 5-gallon (18.9 L) drums, and 220-gallon (832.8 L) totes, and has a shelf life of eighteen months when stored in factory-sealed containers at temperatures no less than 35°F (1.8°C) and no greater than 120°F (49°C).
3.3.6 KM Coatings Manufacturing KM Acryl 40 HS: KM Acryl 40 HS is a 100 percent acrylic elastomeric coating that complies with ASTM D6083 and is recognized in ESR-5038. The coating is supplied in 5-gallon (18.9 L) pails, 5-gallon (18.9 L) drums, and 220-gallon (832.8 L) totes, and has a shelf life of 18 months when stored in factory-sealed containers at temperatures no less than 35°F (1.8°C) and no greater than 120°F (49°C).
3.3.7 KM Coatings Manufacturing KM Acryl 40 HS: KM Acryl 40 HS is a 100 percent acrylic elastomeric coating that complies with ASTM D6083 and is recognized in ESR-5038. The coating is supplied in 5-gallon (18.9 L) pails, 5-gallon (18.9 L) drums, and 220-gallon (832.8 L) totes, and has a shelf life of 18 months when stored in factory-sealed containers at temperatures no less than 35°F (1.8°C) and no greater than 120°F (49°C).
3.4 Impact and Foot Traffic Resistance:
The coated foam plastic roof coverings described in this report comply with the Resistance to Foot Traffic Test in Section 4.6 of FM 4470.
4.0 INSTALLATION
4.1 Preparation of Substrates:
The substrates to be covered must be free of all grease, oil, loose particles, moisture, and other foreign materials. Areas not receiving a foam plastic insulation application must be masked off or otherwise protected from overspray. The application of primers, when used, must be in accordance with the spray foam roofing manufacturer's installation instructions.
4.2 Roof Deck Substrates:
4.2.1 Combustible Substrates: Combustible substrates must be minimum 1/2-inch-thick (12.7 mm), code-complying, exterior-grade or Exposure 1 plywood (US DCO PS1). All plywood edges must be supported in accordance with the requirements set forth in IBC Section 2603.4.1.5.
4.2.2 Noncombustible Substrates:
4.2.2.1 Cementitious Substrates: Structural concrete substrates must have a minimum compressive strength of 2500 psi (17,327 kPa). Cementitious decks must be thoroughly cured and must be subjected to specialized treatment, such as with leaching or commercial sandblasting, or must be chemically cleaned to ensure adequate bonding.
4.2.2.2 Metal Substrates: Minimum No. 22 gauge galvanized steel (0.030 inch (0.76 mm) deck). Metal decks must be cleaned of any adhesion inhibitors, and gaps in and around steel must be sealed with an approved sealant.
4.3 Roof Slope:
The polyurethane foam plastic insulation must be spray-applied to form roof slopes that have a minimum slope of 1:12 (8 percent) and a maximum roof slope as specified in Tables 1 and 2.

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4.4 Foam Plastic Insulation Application:
The polyurethane foam plastic insulations described in Section 3.2 are applied at a 1:1 ratio by volume of the A and B components to one of the substrates described in Section 4.2, using foam-spraying equipment and processing parameters recommended by BASF Corporation. Application of the foam plastic insulation must be performed when the following conditions are met:
■ Substrate temperature is at least 50°F (10°C);
■ Ambient temperature is at least 50°F (10°C);
■ Relative Humidity is below 85% RH;
■ Dew point is more than 5°F (2.8°C) above or below the ambient temperature.
■ Wind speed is equal to or less than 15 miles per hour (24.1 km/h). Wind barriers are needed when the wind speed is greater than 15 miles per hour (24.1 km/h).
When conditions are outside the parameters noted above, consult BASF Corporation for additional guidance prior to installation.
The foam plastic insulation must not be applied to wet or damp substrates, or when dew, condensation, precipitation, or freezing temperatures are expected prior to completion of the foam plastic insulation application.
Foam plastic is applied in maximum 2-inch-thick (51 mm) passes, to reach the desired thickness as noted in Tables 1 and 2. The total finished thickness must be achieved within the same day. The finished surface of the foam must be smooth and free of voids, pinholes and cracks.
4.5 Application of Coatings:
The foam plastic insulation surface must be dry and free of all damaged foam, dirt and foreign material before application of the coating. If the insulation surface is damaged to the point where cracks, voids or large depressions appear, additional insulation application must be applied to create a satisfactory surface. After the insulation has developed sufficient strength to support foot traffic, but within 72 hours, the coating must be brush, roller, or spray-applied at the application rates noted in Table 1. The ambient temperature must be at least 50°F (10°C) during coating application, and above 32°F (0°C) for the 24-hour period after application. The coating must not be applied when dew, condensation, precipitation or freezing temperatures are anticipated prior to completion of the coating application. The application of primers, when used, must be in accordance with the spray foam roofing manufacturer's installation instructions.
4.6 Thermal Barrier:
The classified roof assemblies noted in Tables 1 and 2, containing BASF Corporation FE348-2.5, FE348-2.8 and FE348-3.0 ELASTOSPRAY E1255, E1285 and E1305 and SKYTITE® 2.5, SKYTITE® 2.8 and SKYTITE® 3.0 foam plastic insulation are recognized for use without a thermal barrier based on testing in accordance with UL 1258, as set forth in IBC Section 2603.4.1.5.
4.7 Fire Classification:
4.7.1 New Construction: Roof covering systems, as noted in Tables 1 and 2, when installed in accordance with this report, are Class A, Class B or Class C roof coverings as specified in ASTM E108 (UL 793).
4.7.2 Reroofing: Prior to installation of new roof coverings, inspection in accordance with 2018 and 2015 IBC Section 1511 or 2012, 2009 and 2006 IBC Section 1510, and approval from the code official having jurisdiction, are required. Installation must be over uninsulated systems only.
4.8 Wind Resistance:
The allowable wind uplift pressures for the coated foam plastic roof coverings are noted in Table 3.

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5.0 CONDITIONS OF USE
The BASF Corporation FE348® Series, ELASTOSPRAY® E1000 Series and SKYTITE® Series coated foam plastic roof coverings described in this report comply with, or are suitable alternatives to what is specified in, the code indicated in Section 1.0 of this report, subject to the following conditions:
5.1 Installation and application of the coated foam plastic roof coverings must comply with the code, the report holder's published installation instructions, and this report. If there are any conflicts between the report holder's installation instructions and this report, the report governs.
5.2 The spray-applied foam roofing insulation must be applied by installers trained or approved by BASF Corporation or trained by the Spray Polyurethane Foam Alliance.
5.3 Where moderate or heavy foot traffic occurs for maintenance of equipment, or is otherwise necessary, the roof covering must be adequately protected to prevent damage or wearing of the surface.
5.4 Foam plastic insulation must be separated from the interior of the building by an approved thermal barrier in accordance with IBC Section 2603.4, except as noted in Section 4.6.
5.5 The allowable wind uplift pressures listed in Table 3 are for the roof covering only. The deck and supporting structure to which the roof covering is attached must be designed to withstand the applicable wind pressures determined in accordance with ASCE 7.
5.6 Flashing must be installed at wall and roof intersections, at gutters and around roof openings, as required by IBC Section 1503.2.
5.7 The evaluation of the foam plastic insulation as a vapor retarder is outside the scope of this report.
5.8 The BASF polyurethane foam plastic insulation components are manufactured in Houston, Texas, under a quality control program with inspections by ICC-ES. The BASF and GAF roof coatings are manufactured in Phoenix, Arizona, under quality control programs with inspections by ICC-ES.
6.0 EVIDENCE SUBMITTED
6.1 Data in accordance with the ICC-ES Acceptance Criteria for Spray-Applied Foam Plastic Insulation (AC237), dated April 2015 (last revised April 2018).
6.2 Reports of tests on GAF DiaThorp® and BASF FECoat 1000 in accordance with ASTM D6083.

6.3 Reports of resistance to foot traffic testing in accordance with Section 4.6 of FM 4470.
6.4 Reports of tests in accordance with ASTM E108 (UL 793).
6.5 Reports of tests in accordance with ASTM E84 (UL 723).
6.6 Reports of tests in accordance with UL 1258.
7.0 IDENTIFICATION
7.1 Each container of polyurethane foam plastic insulation bears a label with the BASF Corporation name and address, the product name (FE348® or ELASTOSPRAY® E1000, or SKYTITE®), the component type (A (FE348 or ELASTOSPRAY E1000 or SKYTITE 800A and/or isocyanate) or B (FE348 or ELASTOSPRAY E1000 or SKYTITE and/or Resin)), the density (Component B only), the flame-spread index, the evaluation report number (ESR-2298), the shelf life, and the date of manufacture.
Each container of DiaThorp® acrylic roof coating is labeled with the GAF name, the product name (DiaThorp®), the date of manufacture, the shelf life, and the evaluation report number (ESR-2298).
Each container of FECoat 1000 acrylic roof coating is labeled with the BASF Corporation name, the product name (FECoat 1000), the date of manufacture, the shelf life, and the evaluation report number (ESR-2298).
Each container of PolyLite acrylic roof coating is labeled with the Polyglass U.S.A., Inc. name, the product name (PolyLite 71-HS), the date of manufacture, the shelf life, and the evaluation report number (ESR-5038).
Each container of KM Acryl Elastomeric Roof Coatings is labeled with the KM Coatings Manufacturing name, the product name (KM Acryl 15, KM Acryl 40 HS), the date of manufacture, the shelf life, and the evaluation report number (ESR-5038).
The report holder's contact information is the following:
BASF CORPORATION
1703 CROSSPOINT AVENUE
HOUSTON, TEXAS 77054
(888) 905-FOAM (3628)
www.basfusa.com
The additional seller's contact information is the following:
GAF
2915 SOUTH 18TH PLACE
PHOENIX, ARIZONA 85034

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TABLE 2.—FIRE CLASSIFICATION—COATED FOAM ROOF ASSEMBLIES						
SYSTEM NO.	FIRE CLASSIFICATION	MAXIMUM ROOF SLOPE	SPRAY-APPLIED FOAM PLASTIC INSULATION ^a	COATING		TOP SURFACING
				Designation	Application Rate	
1F	A	Non-combustible	1 1/2	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	No. 11 granules, 30 pounds per 100 ft² (Optional)	No. 11 granules, 30 pounds per 100 ft²
2F	A	Non-combustible	3:12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	Two coats at 1 1/2 gallons per 100 ft² (Optional)	No. 11 granules, 30 pounds per 100 ft²
3F	B	Combustible	1/2-12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	Two coats at 1 1/2 gallons per 100 ft² (Optional)	No. 11 granules, 30 pounds per 100 ft²
4F	A	Non-combustible	2:12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	Two coats at 1 1/2 gallons per 100 ft² (Optional)	No. 11 granules, 30 pounds per 100 ft²
5F	A	Non-Combustible	1:12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	Two coats at 1 1/2 gallons per 100 ft² (Optional)	No. 11 granules, 30 pounds per 100 ft²
6F	A	Combustible	5/12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	Two coats at 1 1/2 gallons per 100 ft² (Optional)	No. 11 granules, 30 pounds per 100 ft²

For BF: 1 inch = 25.4 mm; 1 gallon per 100 square feet = 0.41 L/m²; 1 gallon = 3.785 L; 1 ft² = 0.0929 m².
^aRoof deck must be either minimum 1/2-inch-thick (12.7 mm) plywood, minimum No. 22 gauge galvanized steel (0.030 inch (0.76 mm) or concrete with a minimum compressive strength of 2500 psi as specified in Section 4.2.1.
^bNoncombustible deck classifications are applicable for use over combustible decks (min. 1/2-inch-thick plywood) when minimum 1/2-inch-thick G-P Gypsum Corporation DensDeck® Roof Board is used directly over the combustible deck with all joints staggered a minimum of 6 inches from plywood joints.
^cThese classified, noncombustible substrates include concrete and steel decks as described in Section 4.2.2 of this report.
^dAll foam plastic insulation must be UL classified foam plastic, and must be limited to the maximum thickness specified for the applicable system. Any foam plastic insulation, where used, must bear the label of an approved agency indicating that the foam plastic has a flame-spread index of not more than 75 when tested at the maximum thickness intended for use in accordance with ASTM E84 (UL 723), subject to the approval of the code official.
^eFoam plastic insulation must be separated from the interior of the building by an approved thermal barrier in accordance with IBC Section 2603.4.1.5, except as described in Section 4.6 of this report.

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TABLE 3.—WIND RESISTANCE—COATED FOAM ROOF COVERINGS ^a						
SYSTEM NO.	FIRE CLASSIFICATION	EXISTING PLASTIC INSULATION AND ROOF DECK SUBSTRATE ^b	MAXIMUM ROOF SLOPE	SPRAY-APPLIED FOAM PLASTIC INSULATION ^c	COATING	
					Designation	Application Rate
A1	Class A, B or C	BUR ^d over 1/2-inch-thick plywood with minimum 1/2" G-P Gypsum Corp. DensDeck® roof board.	5/12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	PolyLite 71-HS or KM Acryl 40 HS	Two coats at 1 1/2 gallons per 100 ft² per coat
A2	Class A, B or C	BUR ^d over Non-combustible	5/12	FE348-2.5, 2.8 and 3.0 or ELASTOSPRAY E1255, E1285 and E1305 or SKYTITE 2.5 or SKYTITE 3.0	PolyLite 71-HS or KM Acryl 40 HS	Two coats at 1 1/2 gallons per 100 ft² per coat

For BF: 1 inch = 25.4 mm; 1 gallon per 100 square feet = 0.41 L/m²; 1 gallon = 3.785 L; 1 ft² = 0.0929 m².
^aClassification remains the same as the existing UL classified, code-complying, uninsulated, smooth-surfaced built-up roof (BUR) roof covering system. Loose gravel may be removed.
^bRoof deck substrate beneath the existing built-up roof (BUR) must be either minimum 1/2-inch-thick (12.7 mm) plywood, minimum No. 22 gauge galvanized steel (0.030 inch (0.76 mm) or concrete with a minimum compressive strength of 2500 psi as specified in Section 4.2.1.
^cBUR – the existing system must be an existing code-complying UL classified (Class A, B or C), uninsulated, built-up roof (BUR) covering system.
^dWhen these systems are used for reroofing or re-roofing, installation must be in accordance with Section 4.7.2 of this report, and 2018 and 2015 IBC Section 1511 (2012 and 2009 IBC Section 1510), and must be limited to the maximum thickness specified for the applicable system. Any foam plastic insulation, where used, must bear the label of an approved agency indicating that the foam plastic has a flame-spread index of not more than 75 when tested at the maximum thickness intended for use in accordance with ASTM E84 (UL 723), subject to the approval of the code official.
^eFoam plastic insulation must be separated from the interior of the building by an approved thermal barrier in accordance with IBC Section 2603.4.1.5, except as described in Section 4.6 of this report.

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

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Hydrop Stop Reports



Electrical Notes

- See electrical drawings (E sheets) for additional notes and Specifications.
- Prior to start of any work, the contractor shall notify Underground Service Alert of Southern California at telephone #1-800-422-4133
- Contractor shall verify on project site, all existing utility locations and coordinate all work with the utility companies and associated trades.
- All work shall comply with the California Electric Code (CEC) 2016 edition.
- All equipment clearances and installation guidelines shall be directed by the manufacturers manuals and specifications.
- Convenience outlets in bathrooms, kitchen countertops and within 6'-0" of the kitchen sink, outdoors, and in garages and basements, (other than for laundry and similar equipment) shall be ground fault interceptors (GFI) protected. Per NEC article 250-81.
- Electrical system ground to be provided. Per NEC article 250-81.
- Provide high efficacy lighting in kitchen areas per CAC. T-24 2-5352 (j).
- Dwelling to be wired for cable television per local city policy.
- Not used.
- Rec. Outlet locations will comply w/ NEC article 210-52(a)
- Bathroom receptacle outlets shall be supplied by a minimum of one 20-ampere branch circuit. Such circuits shall have no other outlets. This circuit may serve more than one bathroom. NEC art. 210-52(j).
- That ground-fault circuit-interrupter protection complies with NEC art. 210-8, which reads as follows:
- All 125-volt, single-phase, 15- and 20- ampere receptacles installed in bathrooms, garages, basements, outdoors, kitchen counters and at wet bar sinks.
- Electrical outlets in bedrooms to be on ARC-FAULT interrupter

- For grounding at service entry provide 1 #6 cu - 3/4" conduit per 2016 CEC 250-50a & UFER ground 250-50c grounding. Connection to interior water pipe shall be made within the first 5 feet of the water pipe entrance to the building.

- Carbon Monoxide Alarm requirements. Single- and multiple-station carbon monoxide alarms shall be listed as complying with the requirements of UL 2034. Carbon monoxide detectors shall be listed as complying with the requirements of UL 2075. Carbon monoxide alarms and carbon monoxide detectors shall be installed in accordance with this code, the current edition of NFPA 720 "Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment" and the manufacturer's installation instructions. Other carbon monoxide alarm and detection devices as recognized in NFPA 720 are also acceptable.

- Carbon monoxide alarms required by Sections R315.1 and R315.2 of the California Residential Code shall be installed in the following locations:
- Outside of each separate dwelling unit sleeping area in the immediate vicinity of the bedroom(s).
 - On every level of a dwelling unit including basements.

- Where more than one carbon monoxide alarm is required to be installed within the dwelling unit or within a sleeping unit the alarm shall be interconnected in a manner that activation of one alarm shall activate all alarms in the individual unit

- Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72. Systems and components shall be California State Fire Marshal listed and approved in accordance with California Code of Regulations, Title 19, Division 1 for the purpose for which they are installed.

- Smoke alarms shall be installed in the following locations:

- In each sleeping room.
- Outside each separate sleeping area in the immediate vicinity of the bedrooms.
- On each additional story for the dwelling, including basements and habitable attics by not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

- When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed.

- Carbon monoxide alarms combined with smoke alarms shall comply with both sections R314 and Section R315, all applicable standards, and requirements for listing and approval by the office of the State Fire Marshal, for smoke alarms.

- All added or replaced lighting in a residential building shall be high efficacy (except Kitchen lighting), or depending on the location of the lighting, be controlled by a dimmer switch or a manual on vacancy sensor.

- Unless noted otherwise, height of outlets and switches shall be as follows:
A. Single Outlets: CL of box @ 4" abv. finish floor - install box horizontal
B. Switches: CL of trim @ 45" abv. finish floor
C. Outlets for appliances and equipment shall be located as recommended by manufacturer. Coordinate outlet and switch locations with other trades.
D. All single outlets to be installed horizontally. Verify configuration of 4x outlets w/ architect prior to installation.

- Contractor shall verify power requirements of all appliances shown and provide outlets and/or connections as recommended by manufacturers.

- Light fixtures in tub or shower enclosures or other wet/ damp locations shall be labeled "Suitable for damp locations." CED 410-4(a)

- All new light fixtures recessed into insulated ceilings shall be certified as airtight. In addition to having an electronic ballast and be approved for zero-clearance insulation cover (I.C.) by U.L. or other testing rating laboratories recognized by the International Code Council.

- All electrical outlets in the kitchens to be both AFCI and GFCI.

- All electrical outlets within reach shall be tamper resistant per CEC Section 406.12, specify on plans.

- All exterior outlets shall be W.P. GFCI and have bobble cover per CEC Section 406.3.

Mechanical Notes

- Provide R-8 insulation at all ducts per T-24
- Prior to start of any work, the contractor shall notify Underground Service Alert of Southern California at telephone #1-800-422-4133
- Contractors shall verify on project site all existing conditions and coordinate all work associated trades, and utility companies.
- All work shall comply with California Mechanical Code (CMC) 2016 edition.
- All equipment clearances and installation guidelines shall be directed by the manufacturers manuals and specifications.
- Gas vents and non-combustible piping, in walls passing through three floors or less shall be effectively fire stopped at each floor or ceiling per 2016 CBC.
- Provide mechanical ventilation capable of five air changes per hour in bathrooms, laundry rooms, water closet compartment and similar rooms if operable windows are not provided which have an area of not less than 1/20th of the gross floor area of such rooms Per IMC Section 403.
- The point of discharge for mechanical exhaust systems connected directly to the outside shall be at least 3'-0" from any opening which allows air entry into occupied portions of the building per CMC 504.5.
- Ductless fans cannot be used in bathrooms if a tub or shower is present.
- Provide dryer vent to outside of dwelling per current CBC.

- Ventilation under floor where occurs to be either an approved mechanical means or by openings into the under-floor walls. Such openings shall have a net area of not less than (1) square foot for 150 square feet of under-floor area. Openings to be located as close to corners as possible and shall provide cross ventilation. The required area of such openings shall be equally distributed along the length of at least two opposite sides and the openings to be covered with corrosion resistant mesh with the openings to be 1/4" in dimension. See IBC Section 1203.

- Duct openings and other related air distribution components openings shall be covered during construction per CGBS Section 4.504.1

- Adhesives sealants and caulks shall be compliant w/ VOC and other toxic compound limits per CGBS Section 4.504.
A. Paint, stains and other coatings shall be compliant with VOC limits
B. Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.
C. Documentation shall be provided to verify compliant VOC limit finish materials have been used
D. Carpet and carpet systems shall be compliant with VOC limits
E. 50% of the floor area receiving resilient floorings shall comply with VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) low-emitting materials list or be certified under Resilient Floor Covering Institute (RFCI) FloorScore Program
F. Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.

- Bathroom exhaust fans which exhaust directly from bathrooms shall comply with CGBS Section 4.506 and shall include the following:
A. Be Energy Star compliant.
B. Unless functioning as a component of a whole house ventilation system fans must be controlled by a humidistat which shall be readily accessible. Humidistat controls shall be capable of adjustment between a relative humidity of 50% to 80%.

- Clothes dryer moister exhaust duct minimum 4" diameter to the outside, equipped with a back-draft damper. Duct length is limited to 14' with 2 elbows. Other lengths or sizes as permitted or required by the manufacturer's installation instructions and approved by the building official. (Submit a request for modifications) CMC 504.3.2.2

- Provide local exhaust ventilation at all rooms containing bathtubs, showers, spas and similar bathing fixtures with a minimum rate of 50cfm. Ducting size and length to meet or exceed ASHRAE standard 62.2 and maximum sound rating of 3 Sone for intermittent operation.

- Provide kitchen local exhaust ventilation. A minimum rate of 100cfm is required, ducting size and lengths to meet the minimum requirements of ASHRAE standard 62.2 and maximum sound rating or 3 Sone for intermittent operation.

- For new construction and additions greater than 1,000 SF, provide a whole-building mechanical ventilation system via continuously running exhaust air fan in accordance with ASHRAE 62.2.

- Fan Ventilation Rate Method (ASHRAE Section 4.1.1):
- minimum required fan flow rate, Qfan (cfm) = 1 cfm per 100 SF of floor area + 7.5 cfm per occupant
 - number of occupants = number of bedrooms + 1

- Total Ventilation Rate Method (ASHRAE Section 4.1.2):
- minimum required Mechanical Ventilation Rate, Qfan (cfm) = Qtot - Qinf
 - total required ventilation rate, Qtot (cfm) = 3 cfm per 100 SF of floor area + 7.5 cfm per occupant
 - number of occupants = number of bedrooms + 1
 - effective annual average infiltration rate, Qinf (cfm), determined in accordance with ASHRAE Std 62.2 equation 4.8a.

- Whole-building ventilation shall be provided by exhaust air, supply air or combined exhaust and supply air system. Natural ventilation through doors/ windows or continuous operation of central forced air system air handlers used in central fan integrated ventilation systems are not a permissible methods of providing whole-building ventilation. BEES 150(c), Exc. 5 to 150.2(a) & ASHRAE Std. 62.2

Plumbing Notes

- not used
- prior to start of any work, the contractor shall notify underground service alert of southern california at telephone #1-800-422-4133
- contractors shall verify on project site all existing conditions and coordinate all work associated trades, and utility companies.
- all work shall comply with calif. plumbing code (cpc) 2016 edition.
- all equipment clearances and installation guidelines shall be directed by the manufacturers manuals and specifications.
- future solar lines shall be insulated when in unconditioned space per california title 24.
- new water supply piping supply shall be minimum of one inch diameter.
- gas vents and non-combustable piping, in walls passing through three floors or less shall be effectively fire stopped at each floor or ceiling per 2016 cbc.
- backwater valves to serve waste lines serving fixtures below grade at point where the building sewer leaves property at street. do not place backwater valve on branches of waste line served by ejector pump to be used whenever any fixture is below the sewer manhole in the street. per 2016 cpc.
- new water closets and associated flushometer valves shall use no more than 1.28 gallons of water per flush and shall meet performance standards established by the american national standards institute at 112.19.2. h & s code, sec 17921.3(b)
- in shower and tub combos, control valves must be pressure balanced or thermostatic mixing valves per 2016 cbc.
- existing sewer lateral to be changed and a clean-out installed at the property line to comply with the city standard if the area of structural remodel and addition is greater than 50% of the existing area.
exception: sewer lateral does not have to be replaced if inspeaded using a camera device and certified by a public inspection agency to be in good condition to the satisfaction of the utilities department (ed burt 949 718 3402)
- maximum flow rates - see calgreen checklist on A0.4 for additional info:
water closets: 1.28 gpf/ flush
showerheads: 1.8 gpm @ 80 psi - single and combined if multiple
lavatory faucets 1.2 gpm @ 80 psi
kitchen faucets 1.5 gpm @ 80 psi
- water heaters: water heaters shall be placed out of the path of vehicular traffic or provided a protective post or partition (cpc 508.14.2) temperature and pressure relief valves to be installed per manufacturer recommendation, hard pipe plumbed to outside, directed to the ground and terminated from 6"-24" above finish grade. all lines shall be insulated if the system includes a recirculating pump. a secondary drain pan w/ a 3/4" minimum drain line to the outside shall be provided when the water heater is located above habitable space. contractor shall verify that existing gas supply lines provide adequate btu input for any retrofit water heater systems and notify architect and owner prior to installation.
- four (4) or more water closets (toilets) require a 4" soils / waste line per cpc table 7-5.
- all showers and tub-shower combination valves shall be equipped with a means to limit the maximum setting of the valve to 120 degrees F. (CPC 408.3.1)

Legends

Mechanical Legend

- Linear Vent (W = Wall, FL = Floor, CL = Ceiling, TK = Toekick, R/A = Return Air)
- Area of potential mechanical soffit
- Proposed duct path below, size per mechanical contractor
- Proposed duct path above, size per mechanical contractor

- Notes:
- Mechanical system to be design-built by general contractor.
 - Verify all register locations with architect in field prior to installation
 - See Title 24 energy report herein for additional information
 - Hot Water: high efficiency condensing gas tankless, ef=0.95 (2 units)
 - HVAC: high efficiency split system, gas furnace 93 AFUE; cooling 16 SEER
 - BEES Credits:
A. Duct leakage testing
B. Quality Insulation Inspection
C. Refrigerant charge verification
 - Mechanical Ventilation: 74 cfm min.

Legends

Power Legend

- Dimmer switch, toggle, single pole, white (V = Vacancy sensor, D = Dimmer, M = Auto Off Motion Sensor, 3 = 3 way, 4 = 4 way)
- New receptacle, duplex, 110V, White (E = Existing, w/ USB = with USB, A.S. = Air switch, WP = Waterproof, GFI = Ground fault interrupter, receptacle outlets in bedrooms shall be protected by an arc/fault circuit interrupter(s).
- Walls 2 feet or wider shall have an outlet. Outlets shall be spaced no more than 12 feet apart, and a maximum of 6 feet from end of walls or opening per 2004 CEC.
- Receptacle, duplex, 220V, white, half hot and half switched
- Receptacle, duplex, 100V, flush floor installation with brass cover (exact location determined by owner and architect)
- Receptacle, single 220V duplex, individual circuit
- Electric vehicle charging station
- Junction box for owner provided fixture (max. wattage = 300W)
- Phone jack Data/ Network connection/ computer line
- Power and cable for TV as required. Verify height above F.F.
- Gas stub-out
- Hose bib in recessed box U.N.O provide non-removable antishipr valves at all hoses
- "Grafik Eye" electrical system control center by Lutron
- Push button
- Gas key, lum-off
- Garage door opener

Note:

- All power and lighting outlets in family rooms, dining room, living room, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, hallways and similar areas are to be protected by a "combination AFCI breaker." Kitchens, bathrooms, and basements are exempt from this requirement.
- Provide power for automatic shades at all windows
- All outlets to be by "Legend"

Lighting Legend

NOTE: All light fixtures to be high efficiency, u.n.o.

- Dimmer switch, toggle, single pole, white (V = Vacancy sensor, D = Dimmer, M = Auto Off Motion Sensor, 3 = 3 way, 4 = 4 way, A.S. = Air Switch)
- Door activated switch
- Thermostat Location
- Combination smoke / carbon monoxide detector, ceiling mount - hard wired with batt. back up
Note: Detectors shall sound an alarm of 120 dB audible in all sleeping areas
- TV Location - provide power and cable / data as required
- Lighting fixture, ceiling mounted flush
- Lighting fixture, ceiling mounted flush, with recessed eyeball spot
- Lighting fixture, ceiling mounted flush, with baffle
- Ceiling Pendant - see A7.1 for additional info
- Wall mounted electrical fixture - see A7.1 for additional info
- Mechanical ventilation fan with minimum rate of 100cfm - see Mechanical notes 14, 16, 17 on sheet A7.1 for additional requirements and electrical plans for location
- Lighted Mirror
- LED shop light
- Recessed step light
- LED Strip cove lighting

Note:

- Provide lighting control system at kitchen, living room and master bedroom.
- All branch circuits that supply 125 volt, single phase, 15 and 20 ampere outlets installed in dwelling units shall be protected by an arc-fault circuit interrupter per CEC 210.12
- All receptacles shall be listed temper-resistant receptacles
- All switches to be by "Legend"

Note:

- This reflective ceiling plan is for reference only. See MEP plans provided by Riverside Engineering for more information.

- Mechanical plans from M-0.1 to M-4.1.

- Electrical plans from E0.1 to E4.0.

- Plumbing plans from P-0.1 to P5.1.

Revisions

- 12/10/2020 County PC rev 1
- 03/26/2020 County PC rev 2

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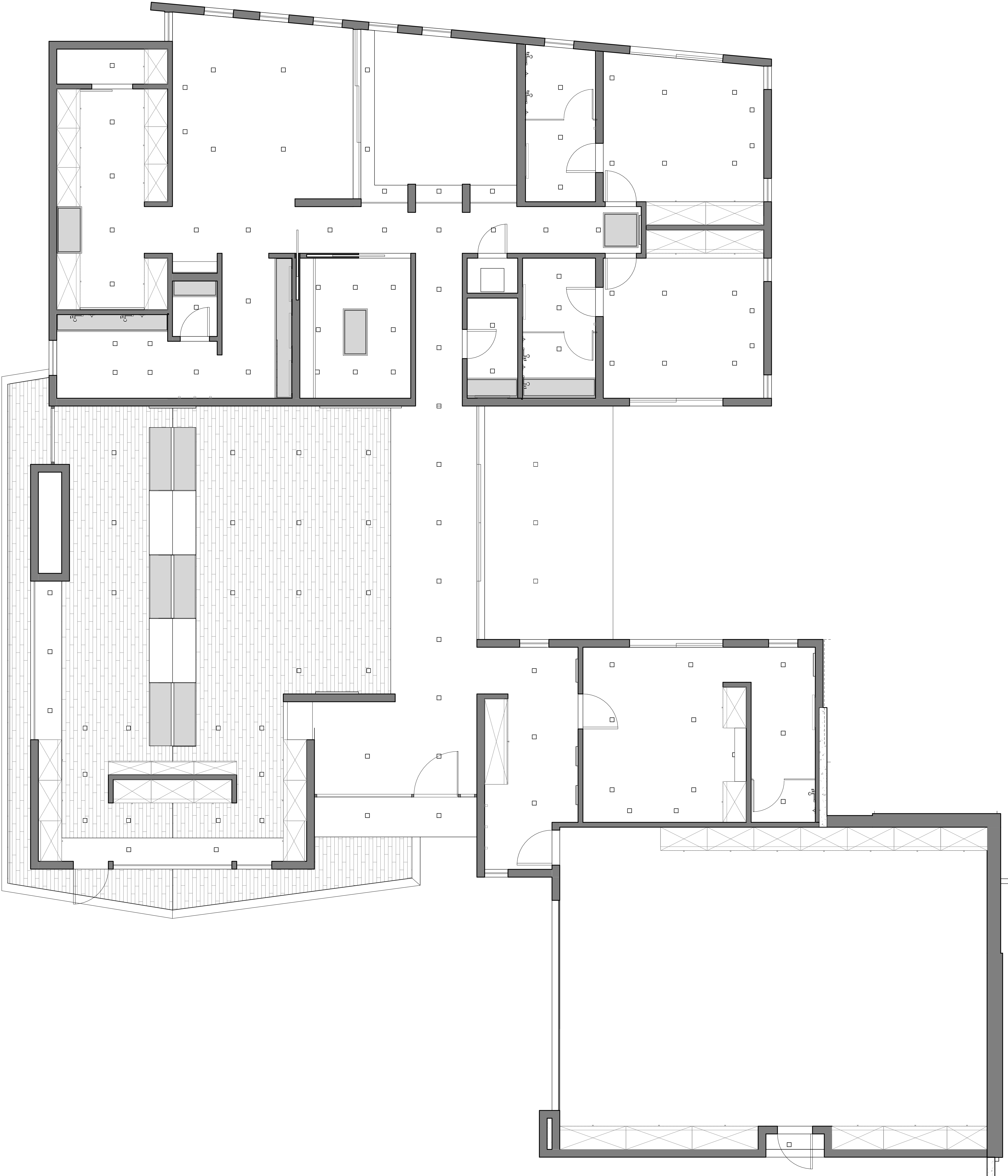
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Electrical Legend, Fixture
Schedule & MEP Notes

A7.1



Note: This reflective ceiling plan is for reference only. See MEP plans provided by Riverside Engineering for more information.

Ceiling Legend

- Wood Ceiling
- Stucco Ceiling
- Glass Surface

Wall Legend

- New low wall/ Wall below
- New 2x4 wall. Framing per structural & Insulation per T-24 Energy Report.
- New 2x6 wall. Framing per structural & Insulation per T-24 Energy Report.
- New furring wall. Framing per structural & Insulation per T-24 Energy Report.
- New retaining wall. Framing per structural.
- 1-hour fire rated wall. Framing per structural & Insulation per T-24 Energy Report.

Wong Residence
New Single Family Residence (#001-2019)
1901 Park Skyline Road,
Santa Ana, CA 92705

Revisions

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- 03/26/2020 County PC rev 2

Issued

- 10/30/2020 - Orange County

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Main Floor Reflected Ceiling Plan

A7.2



1 Main Floor Area Calculation

1/4" = 1'-0"

Area Schedule (Mechanical)		
Name		Area
Mechanical	16 SF	
Grand total	16 SF	

Area Schedule (Outdoor)		
Name		Area
Master Bedroom Courtyard	196 SF	
Outdoor Courtyard	735 SF	
Outdoor Sunroom	248 SF	
Grand total	1,179 SF	

Area Schedule (Living Area)		
Name		Area
Living Area	3,709 SF	
Grand total	3,709 SF	

Area Schedule (Garage)		
Name		Area
Garage	1,102 SF	
Grand total	1,102 SF	



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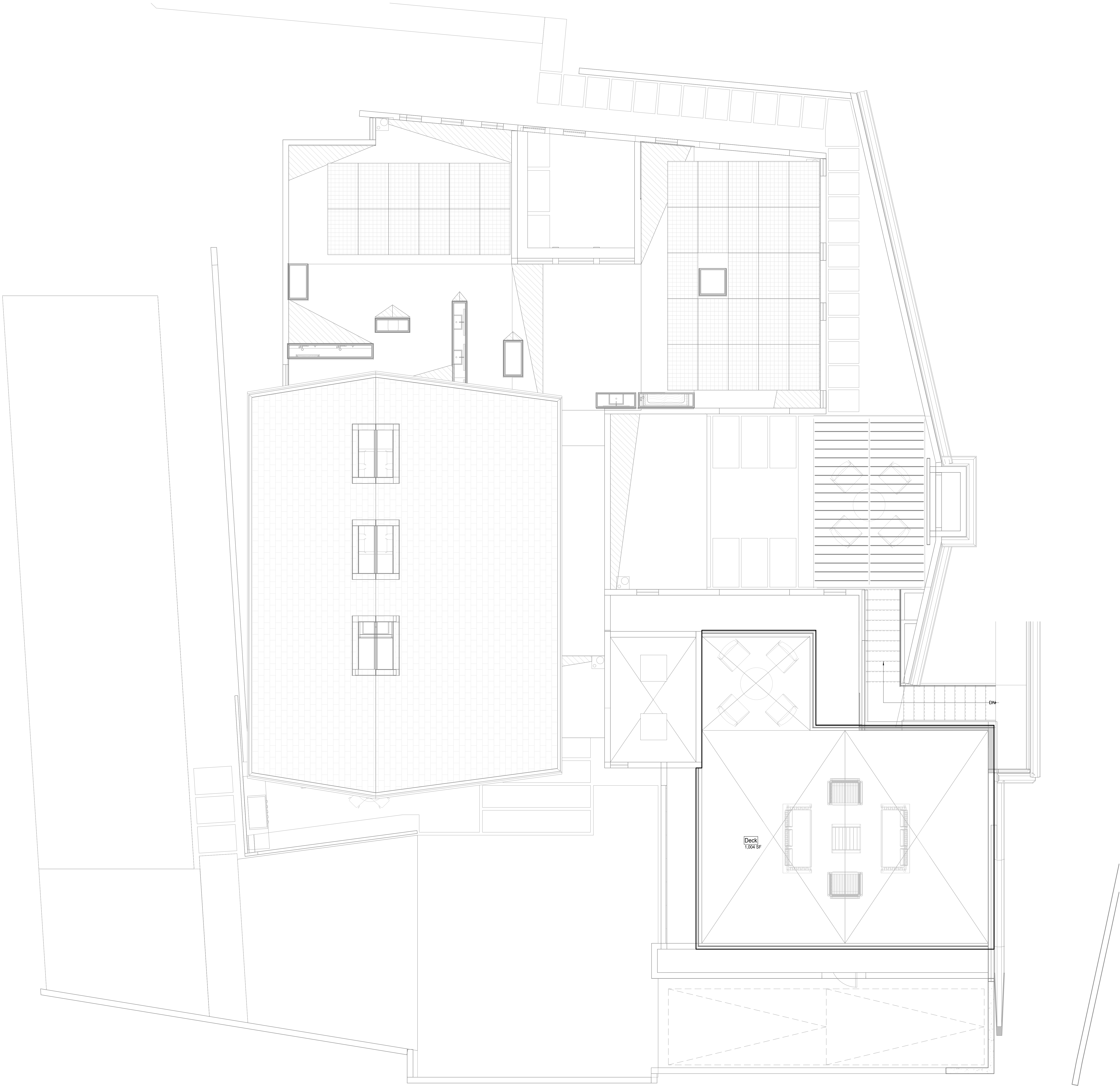
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Main Floor Area Calculations

AC 1



Area Schedule (Deck)		
Name	Area	
Deck	1,004 SF	
Grand total	1,004 SF	



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Roof Area Calculations



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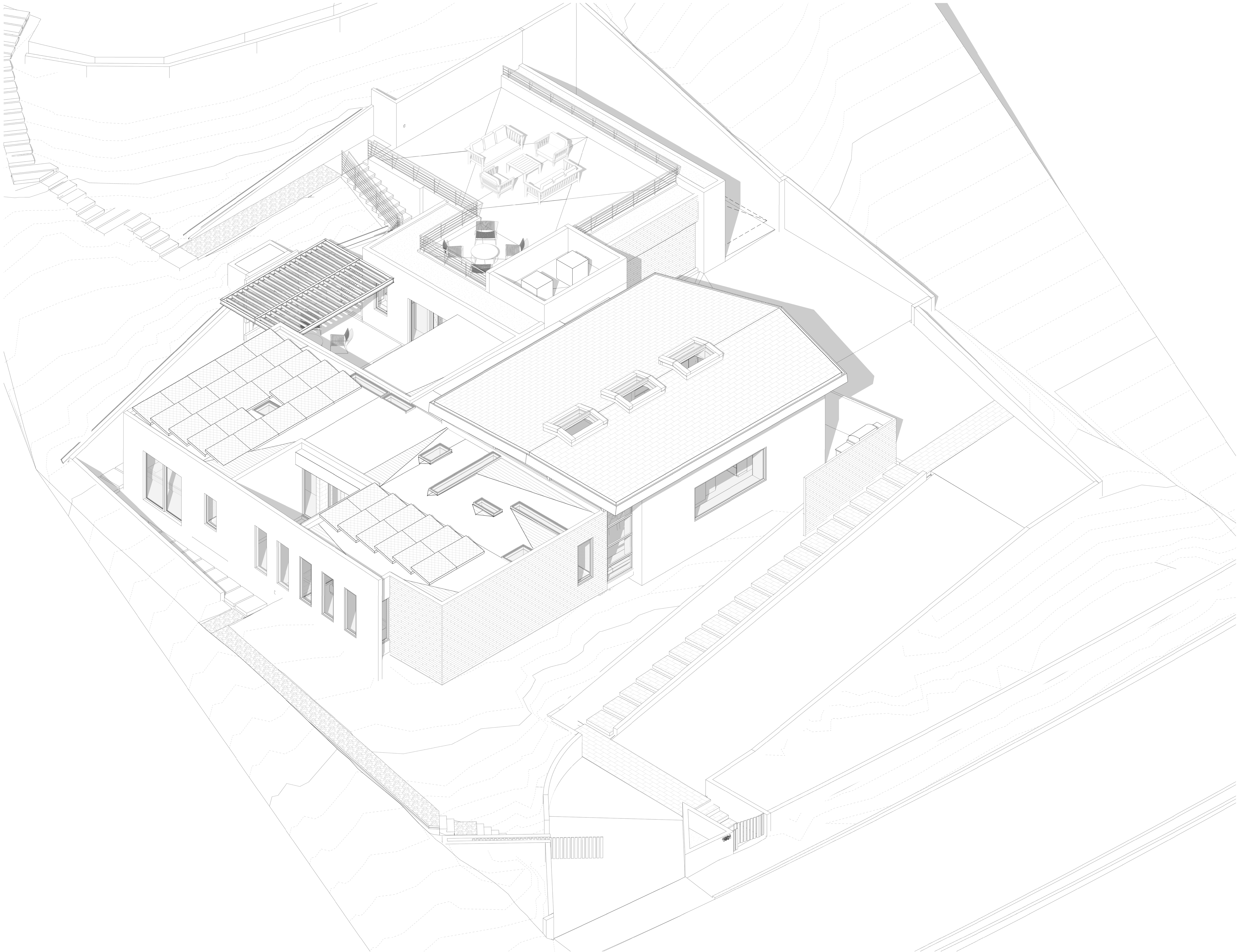
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Topographic Survey

C-1



1 3D View



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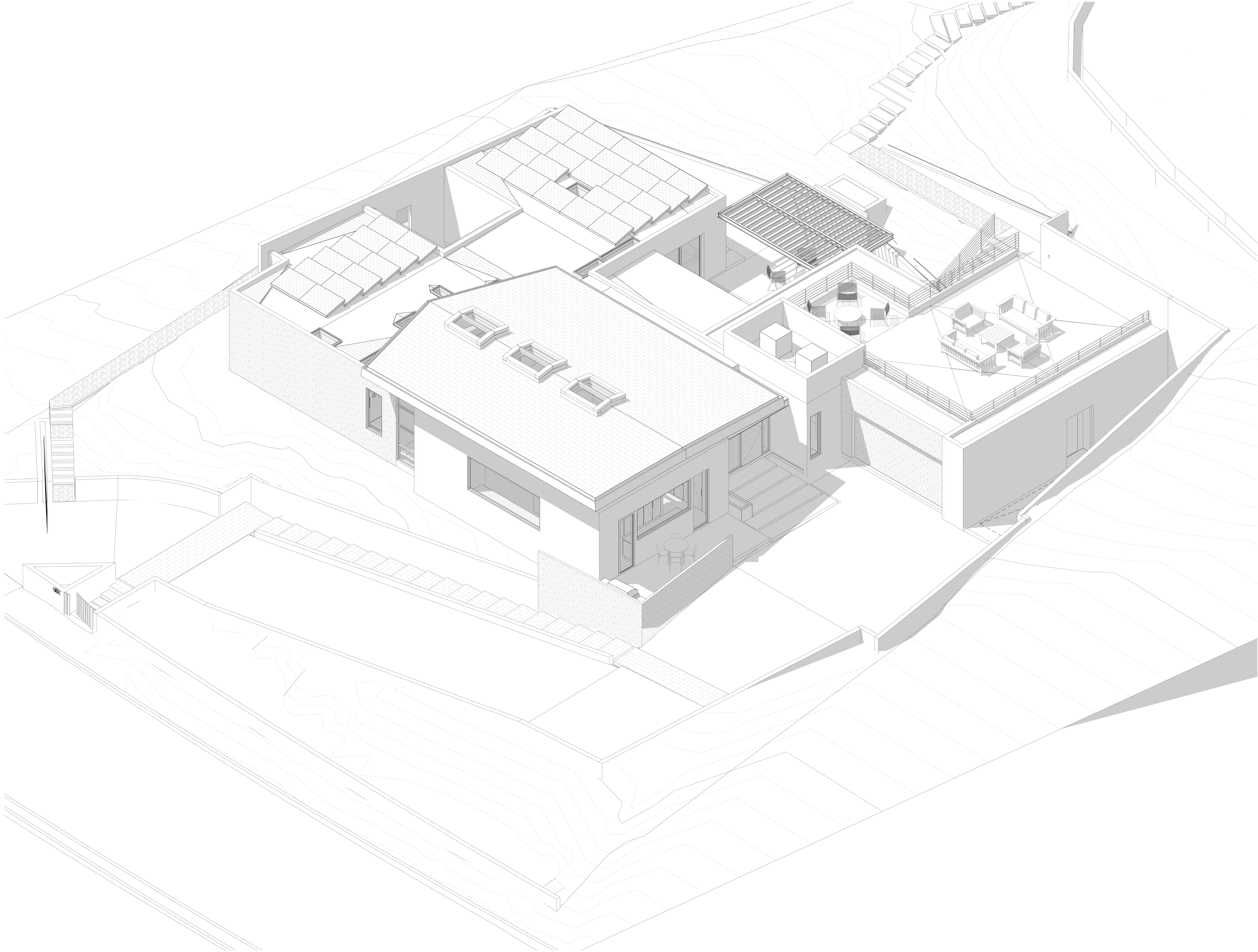
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3D View

R 1.1



1 3D View



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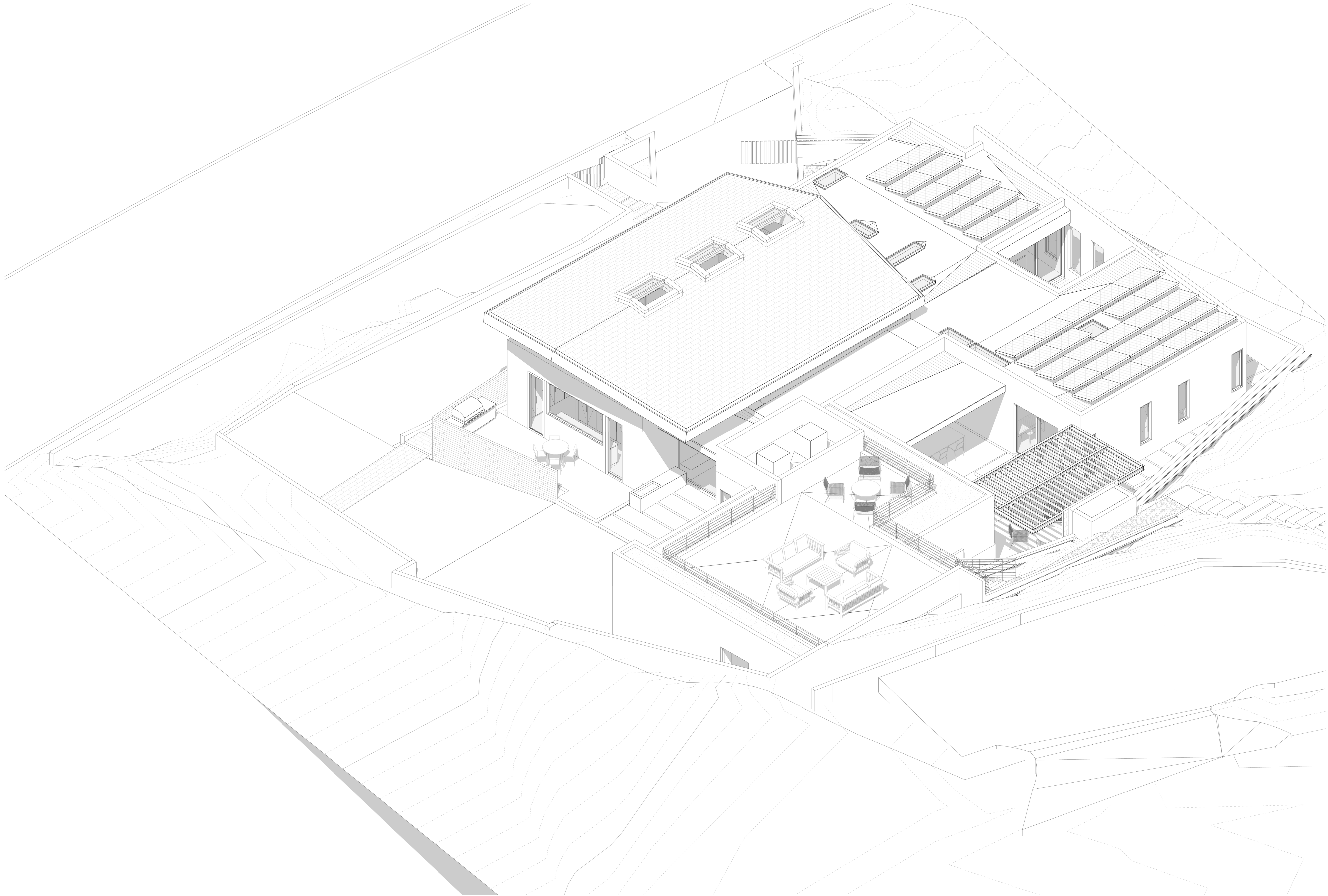
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3D View

R 1.2



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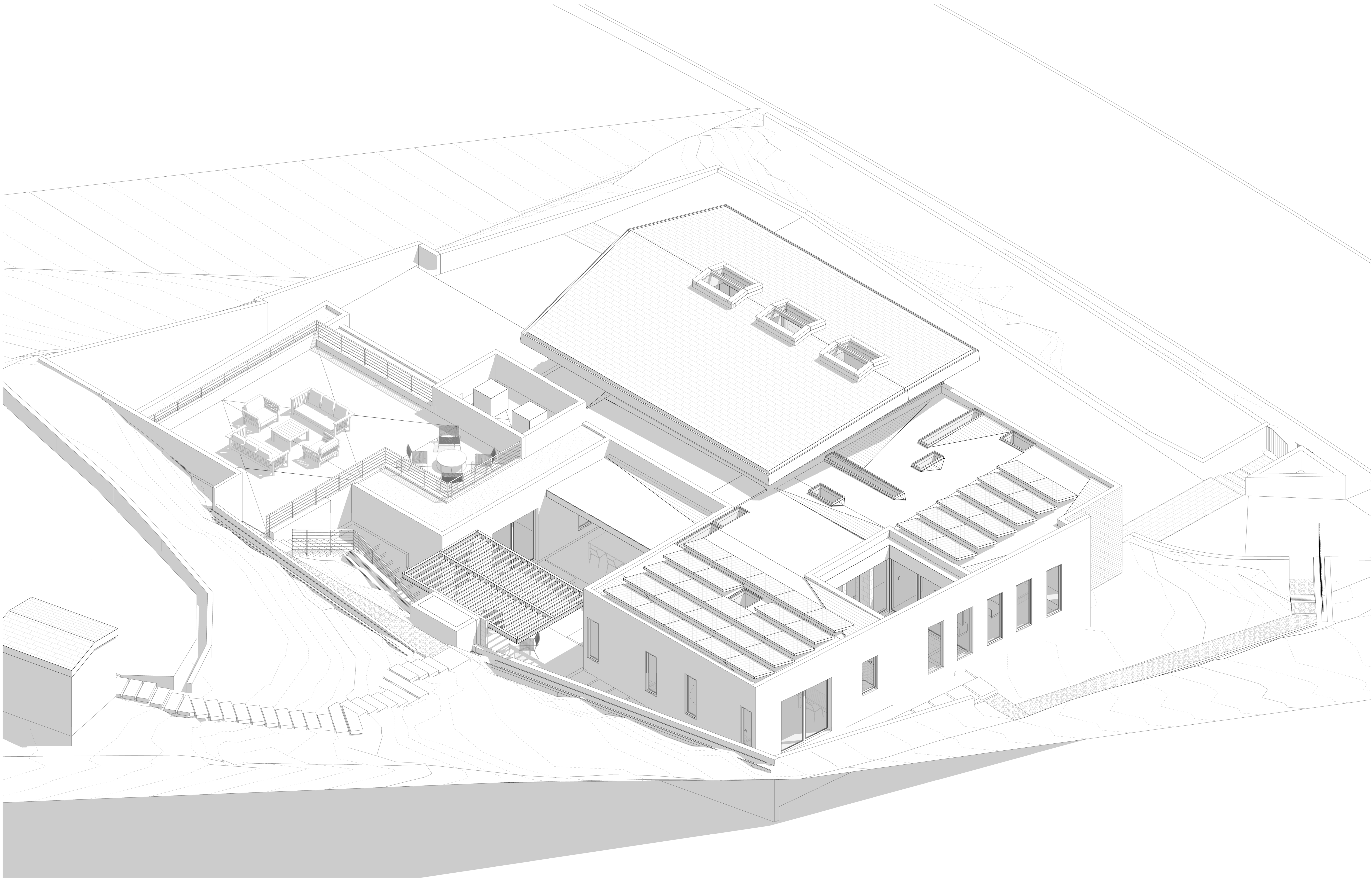
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3D View

R 1.3



1 3D View



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3D View

R 1.4

Attachment 7

MEETING MINUTES

North Tustin Advisory Committee (NTAC)
Wednesday, August 18, 2021 – 1:30pm PDT via virtual meeting

1:33pm: Brian Kurnow, County of Orange, started the online meeting and explained the process to all attendees including public comment.

I. CALL TO ORDER / FLAG SALUTE

Mike Fioravanti called the virtual meeting to order at 1:34PM. No flag salute due to online forum.

- *NTAC members in attendance:* David Feldberg, Mike Fioravanti (Secretary), Dessa Schroeder, Pat Welch. Quorum was met with four (4) members.
- *County of Orange attendees:* Brian Kurnow, Bellinda Erikson

II. APPROVAL OF THE MINUTES FROM PREVIOUS MEETING

David Feldberg made a motion to approve the minutes from the July 2021 meeting. Pat Welch second the motion and the committee then voted (all in favor) to approve the minutes.

III. COMMITTEE BUSINESS - None

IV. OLD BUSINESS - None

V. NEW BUSINESS

Project: Planning Application - PA20-0175 (Wong Residence)

Owner: Mike and Evelyn Wong

Agent: Anders Lasater

Location: 1901 Park Skyline Road, North Tustin

Proposal: Request approval of a Use Permit for over height walls to a maximum height of 18 feet within the side setback.

Mike Fioravanti explained the purpose and agenda for the today's meeting so that meeting attendees know the process and the role of NTAC. Mike was leading the meeting due to the absence of Peter Schneider, NTAC Chair.

PRESENTATION FROM APPLICANT

Michael (Mike) and Evelyn Wong, property owners were present along with Anders Lasater, AIA President of Anders Lasater Architects, Inc.

Anders Lasater gave a high-level overview of the project:

- New single-family residence to be built on an undeveloped lot.
- The attached garage is cut into the hill and needs an 18' side wall, at it's peak, and then slopes down to the street with the height reduced to align with the slope (lower height as it's closer to the street).
- A planter is located on the outside wall of the garage and an attached retaining wall is 18' exposed at the back of a parking space (outside of the garage).
- It slopes quickly down to zero at the ground level (street) from the garage maximum height.

Architectural plans and photos were shared online during the presentation.

Mike Wong shared *"the wall follows the contour of the hill so from the neighbor's perspective it's a three- or four-foot wall"*.

NTAC COMMITTEE QUESTIONS:

A few questions were asked during the presentation (above) for clarification on the design plans shared online.

Pat Welch asked how many neighbors would have visibility to the wall. Evelyn Wong confirmed it's just the one neighbor next door.

Mike Fioravanti asked if the neighbor adjacent to this property has been contacted about the proposed project. Mike Wong confirmed that "Patricia" (last name not clear), who lives at 1911 Park Skyline, is aware of the wall and that it would not impact her view. He further stated she said *"...whatever you're building is better than what's been there for a number of years --- which is nothing"*. He added that she was *"very positive"* about having a home on the vacant lot.

Dessa Schroeder asked for clarification on how the slope will be handled. Evelyn Wong shared a tree line is between the property line with the other neighbor so the wall will have limited view. An online photo was shared to confirm.

Evelyn Wong shared that a concrete pad at the top of the property will remain. It was used as an RV lot by the previous owner.

Dessa Schroeder inquired about the neighbor conversations. Mike Wong confirmed the conversation (noted above) with Patricia S. and her view would not change. Mike Wong said multiple conversation have also taken place with *"John and Beth"* that live on the opposite side of the property. He said the couple shared it was *"very beautiful"* in regard to the design plans.

Pat Welch noted that the 18' wall height is 3x the normal wall height and asked if there were any other options considered. Mike Wong said the required setback of 35' on the front property line forced the house to be pushed into the grade of the hill which then created the need for the 18' wall off the garage. Anders Lasater said the house will sit in the middle of the pad along with a long driveway. The elevation rises from the street

to the grade in the back of the property which is why the garage is cut into the hill and the need for an 18' wall. There wasn't any other option due to the steep grade and this was the best solution for the garage.

No other questions from the committee.

PUBLIC COMMENT

No public comment.

COMMITTEE DISCUSSION

Mike Fioravanti clarified the NTAC process at this point in the meeting...

Pat Welch said all of his questions were answered including the 18' wall height. Mike Fioravanti agreed that the wall height issue was addressed.

David Feldberg was good with the explanation and the support of the neighbors.

David Feldberg made a motion to approve the Use Permit application as outlined in PA20-0175. Pat Welch second the motion.

Roll call vote was taken:

David Feldberg (yea), Mike Fioravanti (yea), Dessa Schroder (yea), Pat Welch (yea)

4 = yea

0 = nay

Motion approved.

VI. PUBLIC COMMENT (OTHER ITEMS) - NONE

VII. ADJOURNMENT

Pat Welch made a motion to adjourn the meeting, Dessa Schroder second. All agreed and meeting was closed at 2:12pm

*Meeting notes compiled by Mike Fioravanti (Secretary)
22 August 2021*