

## **PROJECT DESCRIPTION**

"The Family" is a backyard cottage designed with a flexible plan layout that fits a variety of family sizes and needs. The design efficiently focuses the bathrooms and kitchen in the center of the floor plan, while leaving the rooms on either side open to varying, flexible arrangements. The living room could become a bedroom, and the dining space could be a double-height living area. The location of the main entrance can be determined based on the preferred use of the ground floor spaces.

Standard building materials and a simple form keep costs low, but details such as built-in furnishings and a subdued, natural palette provide the feel of a modern, custom home.

Large windows and cross-ventilation in every room allow for passive cooling as much as possible.

Rainwater harvesting, solar PV panels, hight-quality cavity insulation, an air tight envelope, Heat Recovery Ventilation and high performance windows are encouraged to increase energy efficiency.

#### LOW COST / CONSTRUCTABILITY

A simple, efficient layout includes no "hallways" and yields a high usable area to total square footage constructed.

Plumbing elements are grouped in the building's center to limit piping lengths. Materials are chosen considering their first-cost as well as their durability, to minimize maintenance and repair costs. Two finish package options are provided for different budgets. A flexible plan and simple form and construction methods encourage homeowners to complete the construction themselves.

#### **GREEN BUILDING AND DESIGN**

Wherever possible, proposed building materials promote indoor air quality, environmental sustainability, and incorporate recycled content.

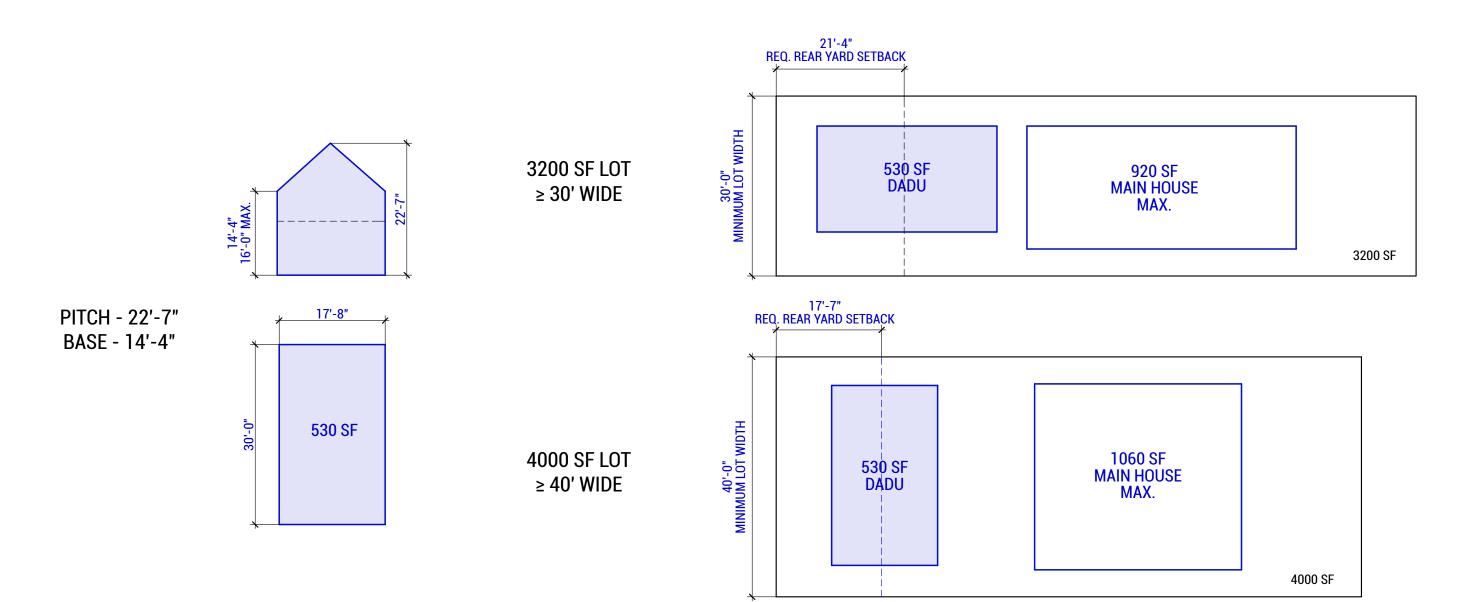
Symmetric and Flexible plan configuration to allow for favorable solar orientation. Window placement and variation options to provide cross ventilation and maximize passive heat control. Skylights and large windows are proposed to maximize daylight and solar heat gain. High quality insulation and efficient mechanical systems are proposed.

### CONTEXT

For a family-sized house, the footprint is minimized to reflect the scale of most neighborhoods. The steeply pitched roof helps minimize view blockage.

## **CULTURALLY RESPONSIVE DESIGN / PRIVACY**

The design allows for large families and many uses of space. On the ground floor, a smaller family could have a living room and a dining room. Larger families might combine those uses, allowing for an additional bedroom on the ground floor. Two more bedrooms are available on the upper level, as well as a deep hall that can serve as an office, or could become a large closet. Smaller families could keep one side of the upper level open to below to create a double-height ground floor space. Windows are strategically placed to provide privacy.



Considering a minimum 5'-0" side yard setback, 20'-0" front yard set back, and 5'-0" principal structure separation.

### DADU DIMENSIONS

Plan Dimensions: 17'-8" x 30'-0" Base height: 14'-4"

Gross Area : From 808 SF to 964 SF

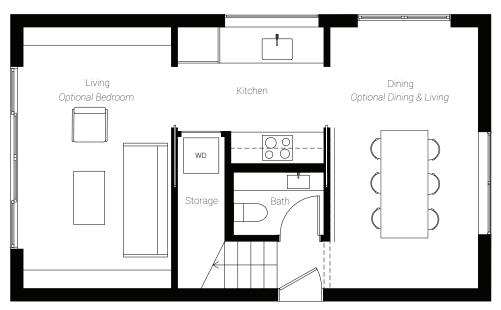
Pitch height: 22'-7"

Coverage area: 530 SF

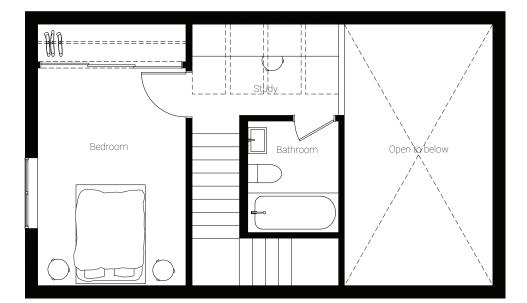
## LOT CONFIGURATION

This 2-story cottage is just under the maximum allowable square footage for a backyard cottage in Seattle. Depending on the orientation of the DADU, it may be built on lots starting at 30'-0" wide.

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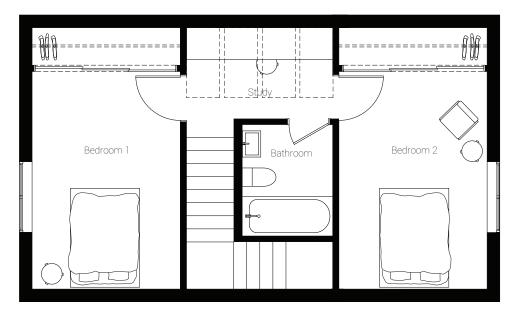




#### VARIATION 1 - 1 BEDROOM

GROSS FLOOR AREA - 808 SF;

LEVEL 1: LIVING - 157 SF; DINNING - 157 SF; KITCHEN - 75 SF; BATHROOM - 23 SF. LEVEL 2: BEDROOM 1 - 157 SF; STUDY - 58 SF; BATHROOM - 39 SF.

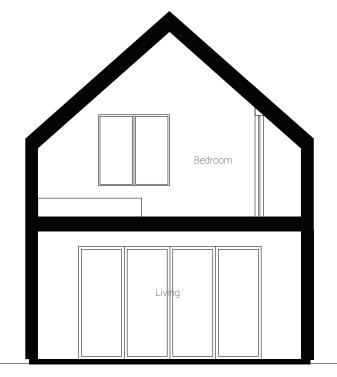


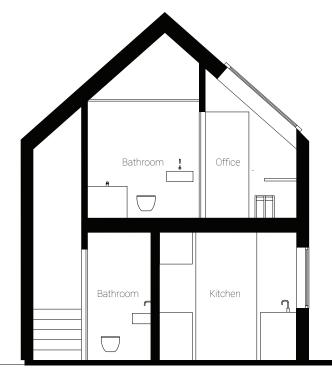
LEVEL 2

#### VARIATION 2 - 2 BEDROOM

GROSS FLOOR AREA - 964 SF;

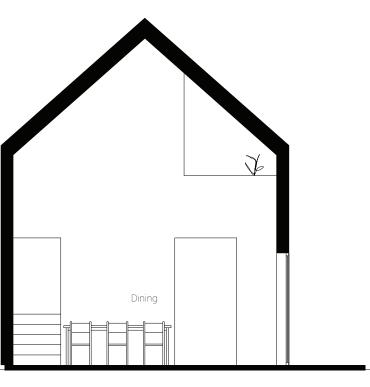
LEVEL 1: LIVING - 157 SF; DINNING - 157 SF; KITCHEN - 74 SF; BATHROOM - 23 SF. LEVEL 2: BEDROOM 1 - 157 SF; BEDROOM 2 - 157 SF; STUDY - 58 SF; BATHROOM - 39 SF.





SECTION THROUGH LIVING ROOM

#### SECTION THROUGH THE CORE (KITCHEN AND BATHROOMS)



SECTION THROUGH DINING AREA

(VARIATION 1 - DOUBLE-HEIGHT DINING AREA)



Showcasing Variation 1. The oversized window plays with scale and proportion to reduce the apparent mass of the cottage.

## SIDE FACADE



## DINING AREA

Showcasing Variation 1 - Double-height dining area. The skylights above the study area illuminate stairs and dining area.



## LIVING AREA

The living area is provided with a door and built-in storage, so it could easily become an additional bedroom.

BEDROOM

The large window occupies a central position, ensuring privacy in the sleeping and dressing areas.

In





MATERIALS: 1. Corrugated Metal Roofing. 2. Corrugated Metal 3. Alaskan Cedar Hardwood decking 4. Wood window 5. White oak floor, soap treated. 6. Plywood cabinets and paperstone countertop 7. Vertical ceramic tiles 8. Light grey microcement.

## MATERIALS PALETTE #1 HIGHER GRADE (rendered option)

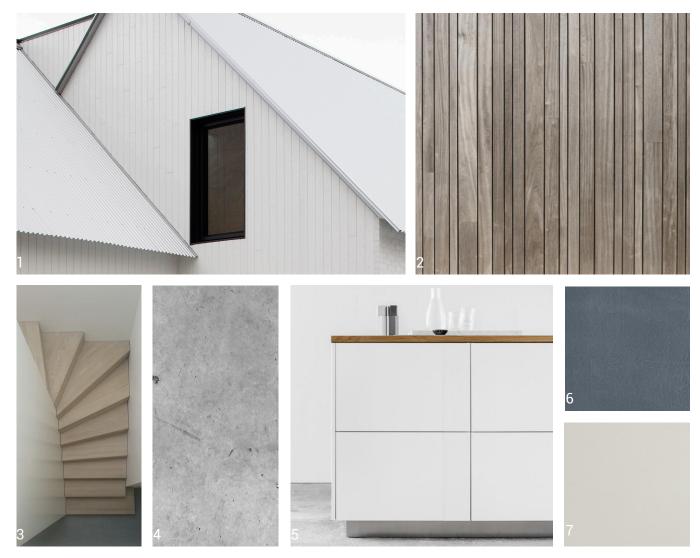
## **EXTERIOR FINISHES**

ROOFING: Corrugated metal.

EXTERIOR SIDING: Corrugated metal (alternative 4" wide cedar boards, vertical orientation). DECKING: Alaskan Cedar Hardwood Decking, 4" wide. WINDOWS / GLAZED DOORS: All wood or Aluminum-clad wood. SKYLIGHTS: Wood with external clad to match roof. ENTRY DOOR: Solid wood, stainless steel threshold.

## **INTERIOR FINISHES**

FLOOR - FIRST FLOOR: 1"x 4" White Oak hardwood Floor, soap treated or matte finish.
FLOOR - FIRST FLOOR BATHROOM: Colored microcement, wear resistant and waterproof.
FLOOR - SECOND FLOOR: 1"x 4" White Oak hardwood Floor, soap treated or matte finish.
FLOOR - SECOND FLOOR BATHROOM: Colored microcement, wear resistant and waterproof.
STAIR TREAD AND RISER: White Oak tread and riser, soap treated or matte finish.
WALL FINISH: Painted GWB, level 5 finish.
WALL FINISH SECOND FLOOR BATHROOM: Painted GWB and ceramic tile at shower and trim.
CEILING FINISH: Painted GWB, level 5 finish.
BASEBOARD & DOOR TRIM: Painted Poplar to match wall color, semi-gloss finish.
WINDOW & DOOR RETURN: Painted GWB. Hardwood Sill.
INTERIOR DOOR: Flush solid core wood doors, painted to match wall color.
KITCHEN: Plywood cabinets and paperstone countertop.



MATERIALS: 1. Corrugated Metal Roofing. 2. Cedar Vertical Siding. 3. Pine tread and riser stair, soap treated 4. Concrete, matte. 5. White IKEA Metod cabinets and wood countertop 6. Microcement, in Ivory 7. Microcement in Royal Velvet.

## MATERIALS PALETTE #2 LOWER GRADE

## **EXTERIOR FINISHES**

ROOFING: Corrugated metal. EXTERIOR SIDING: Corrugated metal (alternative 4" wide cedar boards, vertical orientation) DECKING: Alaskan Cedar Hardwood Decking, 4" wide. WINDOWS / GLAZED DOORS: Fiberglass. SKYLIGHTS: Wood with external clad to match roof. ENTRY DOOR: Solid wood; stainless steel threshold.

## **INTERIOR FINISHES**

FLOOR - FIRST FLOOR: Cast in place concrete, smooth trowel and penetrating sealer, matte finish. FLOOR - FIRST FLOOR BATHROOM: Cast in place concrete, smooth trowel and penetrating sealer, matte finish. FLOOR - SECOND FLOOR: Linoleum floor. FLOOR - SECOND FLOOR BATHROOM: Colored microcement, wear resistant and waterproof. STAIR TREAD AND RISER: Pine tread and riser, soap treated. WALL FINISH: Painted GWB, level 5 finish. WALL FINISH SECOND FLOOR BATHROOM: Painted GWB and Colored plaster, wear resistant and waterproof. CEILING FINISH: Painted GWB, level 5 finish. BASEBOARD & DOOR TRIM: Painted Poplar to match wall color, semi-gloss finish. WINDOW & DOOR RETURN: Painted GWB. Hardwood Sill. INTERIOR DOOR: Flush solid core wood doors, painted to match wall color. KITCHEN: IKEA Metod Cabinets with painted fronts and wood countertop.

## **PROPOSED MECHANICAL SYSTEMS**

#### WATER HEATER

Electric Water Heater with a minimum efficiency of 2.0 and Enerfy Star Compliance (Tier I NEEA's Advanced Water Heating Specification)

#### HEATING AND COOLING

Ductless Mini-split Heat Pump dual zonal contro min. HSPF of 10.

### **OPTIONAL GREEN BUILDING FEATURES FOR HIGHER ENERGY PERFORMANCE**

#### STORMWATER MANAGEMENT

500 gallon (64" diameter) rainwater harvesting tank.

#### SUSTAINABLE BUILDING MATERIALS

Zero VOC paint.

High density cellulose cavity insulation.

Paperstone (recycled paper and non petroleum resin) or wood countertops.

Wood or Linoleum flooring.

Low flow fixtures.

Induction cooktop.

EnergyStar appliances.

#### ADDED FEATURES

Targeting 0.6 ACH Airtight envelope.

Heat Recovery Ventilator

INTUS/ZOLA high performance windows and doors.

#### ADDED RENEWABLE ELECTRIC ENERGY

Solar array. Possibility of generating up to 6139 kWh/year, considering the full use of one of the roof faces. These results will vary based on location and orientation of the roof. **PROPOSED FEE:** The pre-permitted drawing set can be purchased for \$1,000. Additional services such as site specific permitting, customization and construction detailing can be provided at an hourly rate of \$120 per hour, or on a fixed fee depending on the project scope.



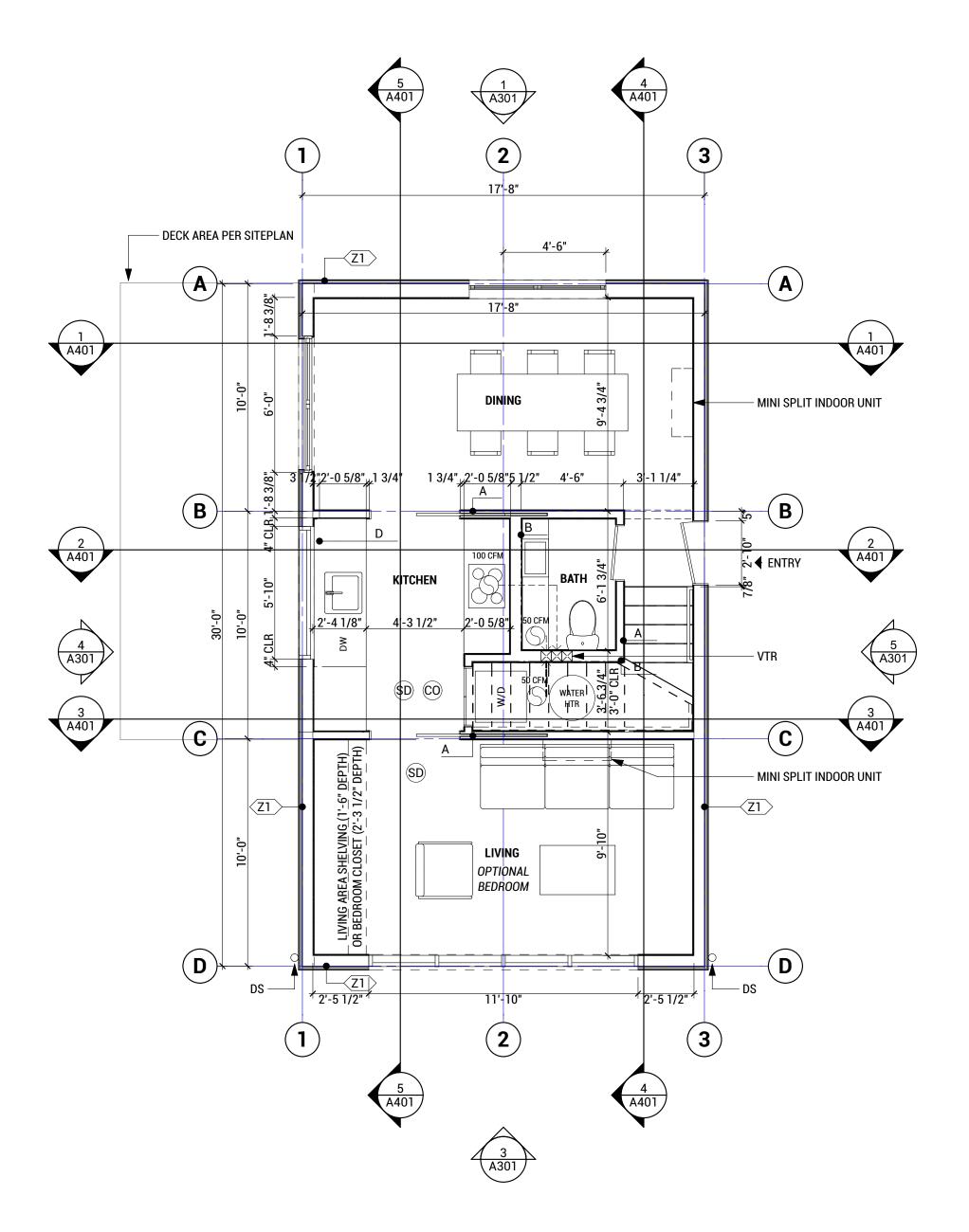


## AHOUSE STUDIO

Emily Aune, Camilla Dahl and Raquel Dias Ferreira Alec Gardner, CPHC

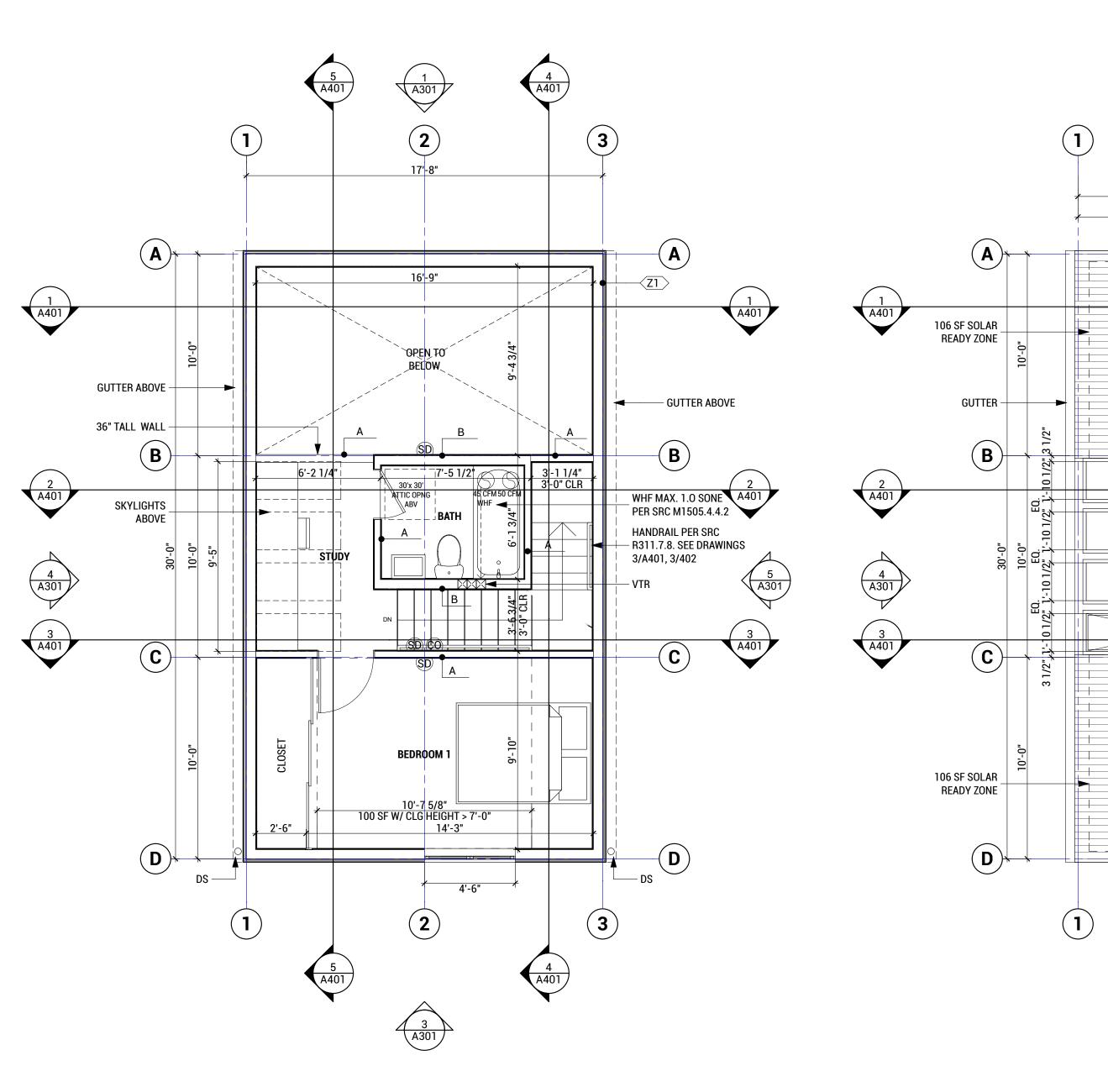
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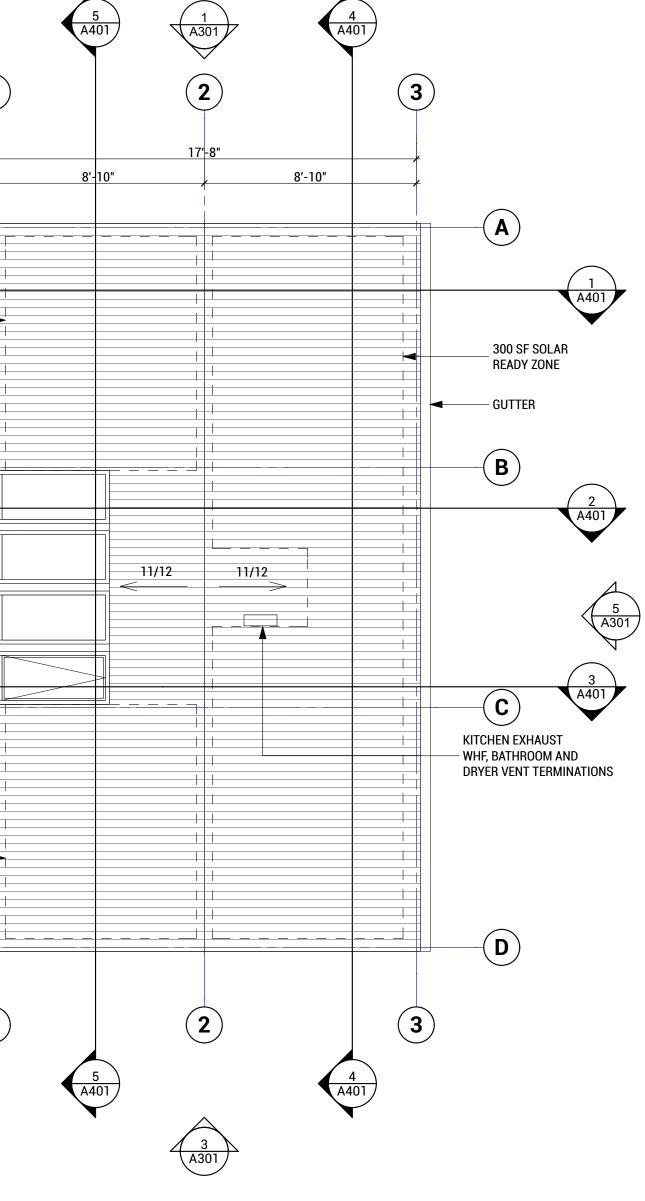












## NOTES:

1. ALL NUMBERED GRIDLINES ARE PERPENDICULAR TO ALL LETTERED GRIDLINES. GRIDLINES ONLY SHOW WHERE RELEVANT AT EACH LEVEL.

2. ALIGN WALLS THAT APPEAR TO ALIGN.

## PROJECT

## THE FAMILY

DETACHED ACCESSORY DWELLING UNIT

#### VARIATIONS

PLAN VARIATION 1 1 BEDROOM UNIT WITH DOUBLE-HEIGHT SPACE PLAN VARIATION 2 2 BEDROOM UNIT MIRRORED PLAN OF VARIATIONS 1 AND 2 DESIGN AHOUSE STUDIO WWW.AHOUSE.STUDIO DPD PROJECT # 6792589-CN

PARCEL #

OWNERS / ADDRESS

CITY APPROVAL STAMP BOX

**REVISION NOTES** 1. SDCI CORRECTION NOTICE #1 RESPONSE DATE: 09.15.2020

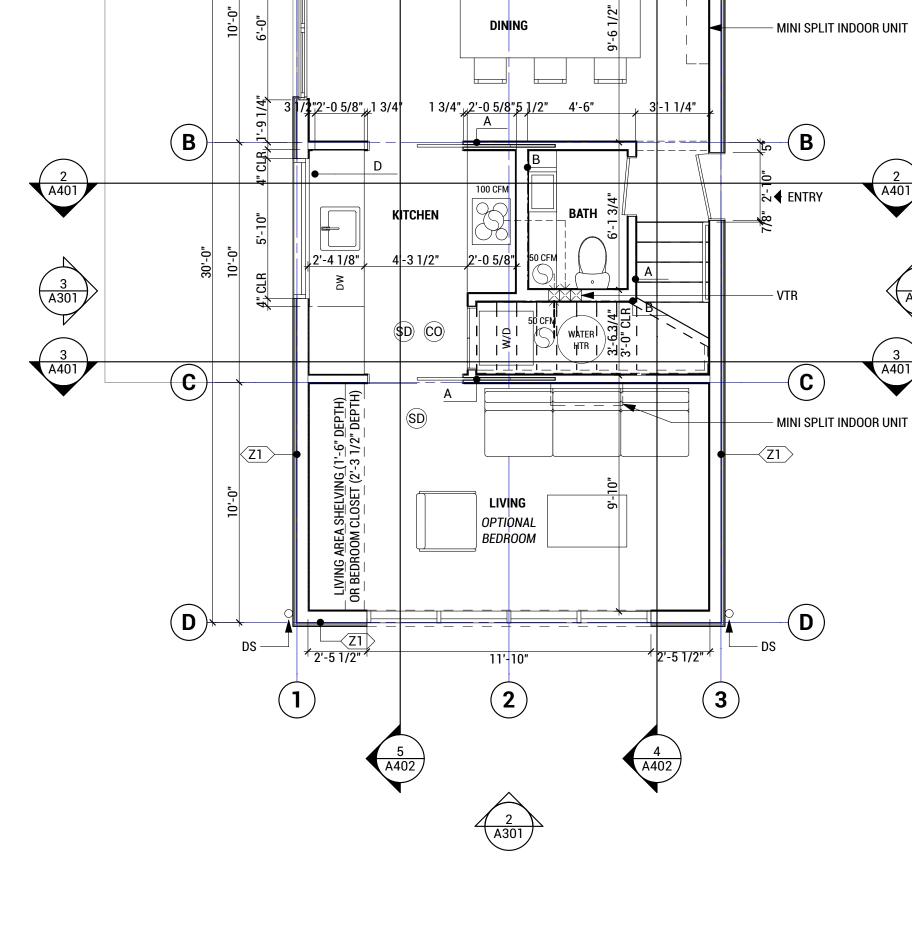
## ISSUE

COMPETITION SET - NOT FOR CONSTRUCTION SEPTEMBER 2020

SHEET TITLE

PLANS (VARIATION 1)





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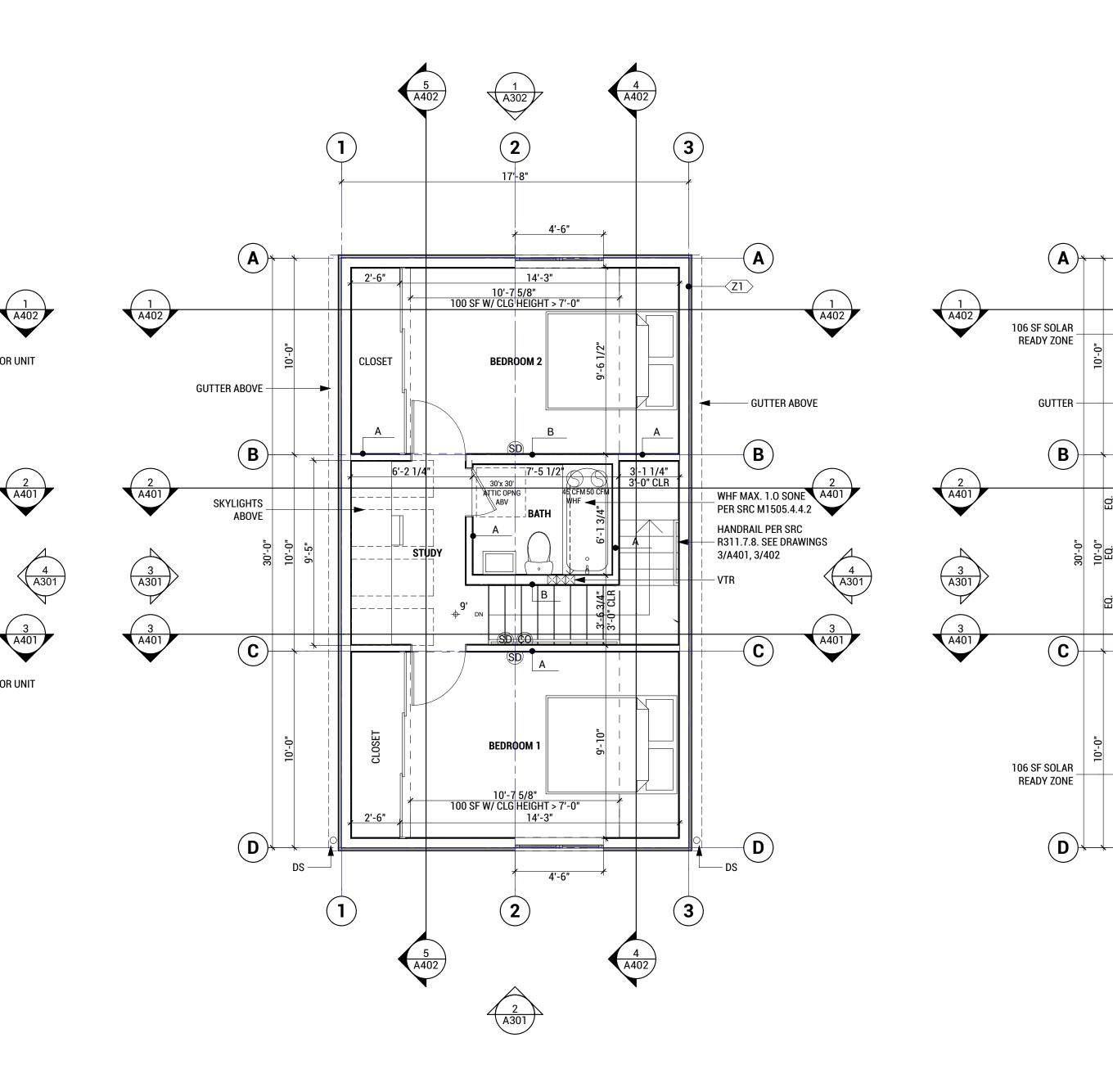
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– DECK AREA PER SITEPLAN

-9 1/4"

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1 A402













1/2"3

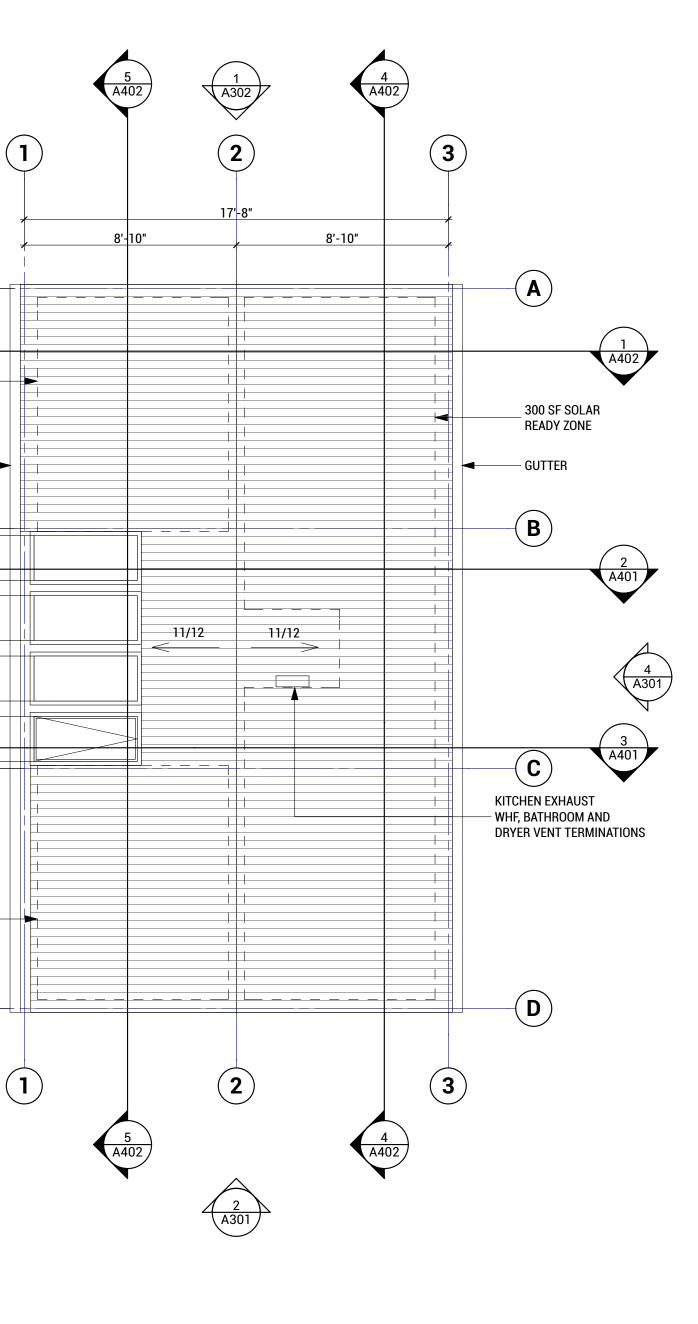
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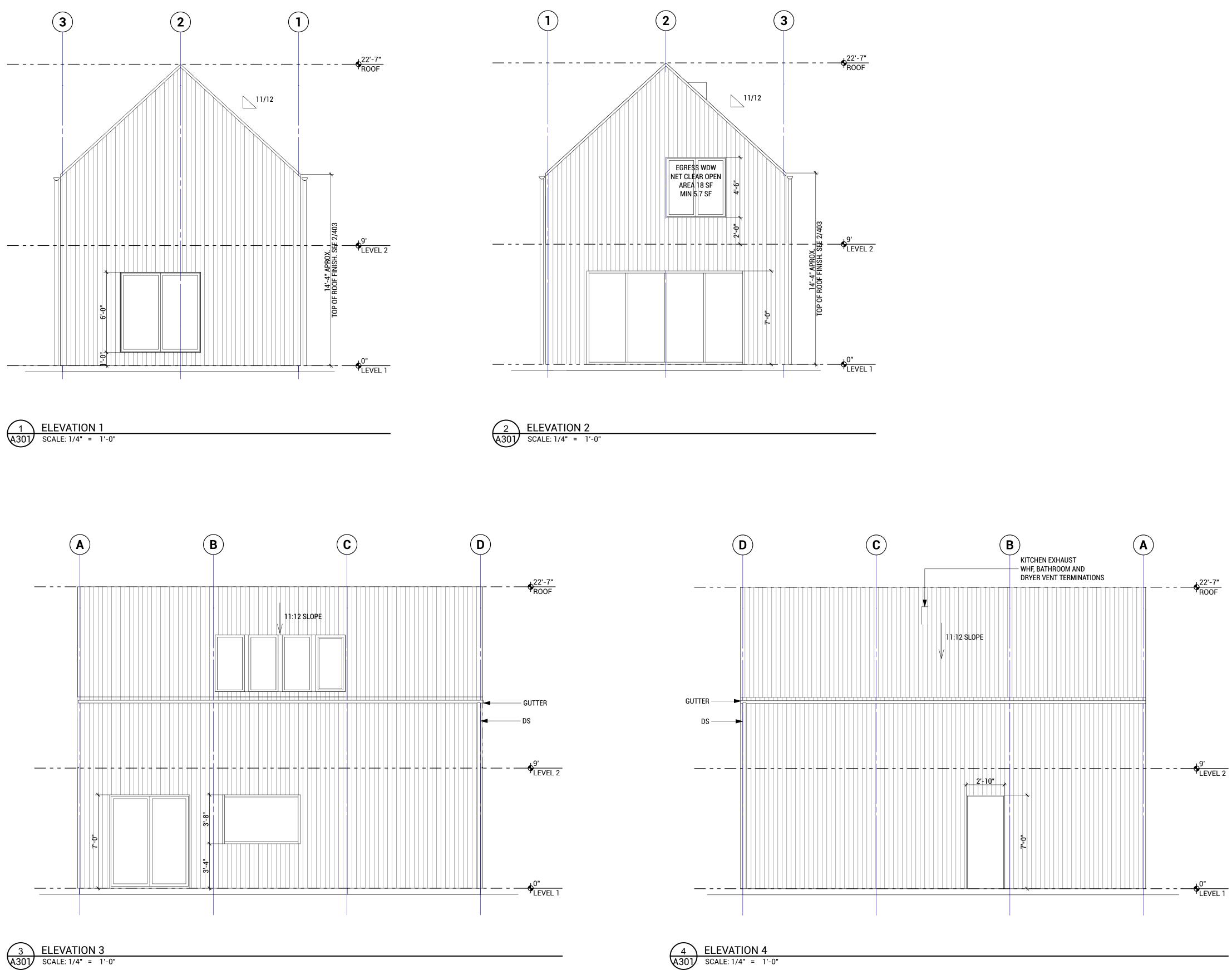
**REVISION NOTES** 1. SDCI CORRECTION NOTICE #1 RESPONSE DATE: 09.15.2020

ISSUE

COMPETITION SET - NOT FOR CONSTRUCTION SEPTEMBER 2020

SHEET TITLE PLANS (VARIATION 2)

> A102 AS INDICATED





NOTES:

1. DADU HEIGHT WILL BE MEASURED FROM AVERAGE GRADE TO DEMONSTRATE CONFORMITY WITH HEIGHT REQUIREMENTS FOUND IN SMC 23.44.041 TABLE A k.

2. SEE SHEET A403 - TYPICAL SECTION - FOR DETAILED HEIGHT MEASUREMENTS.

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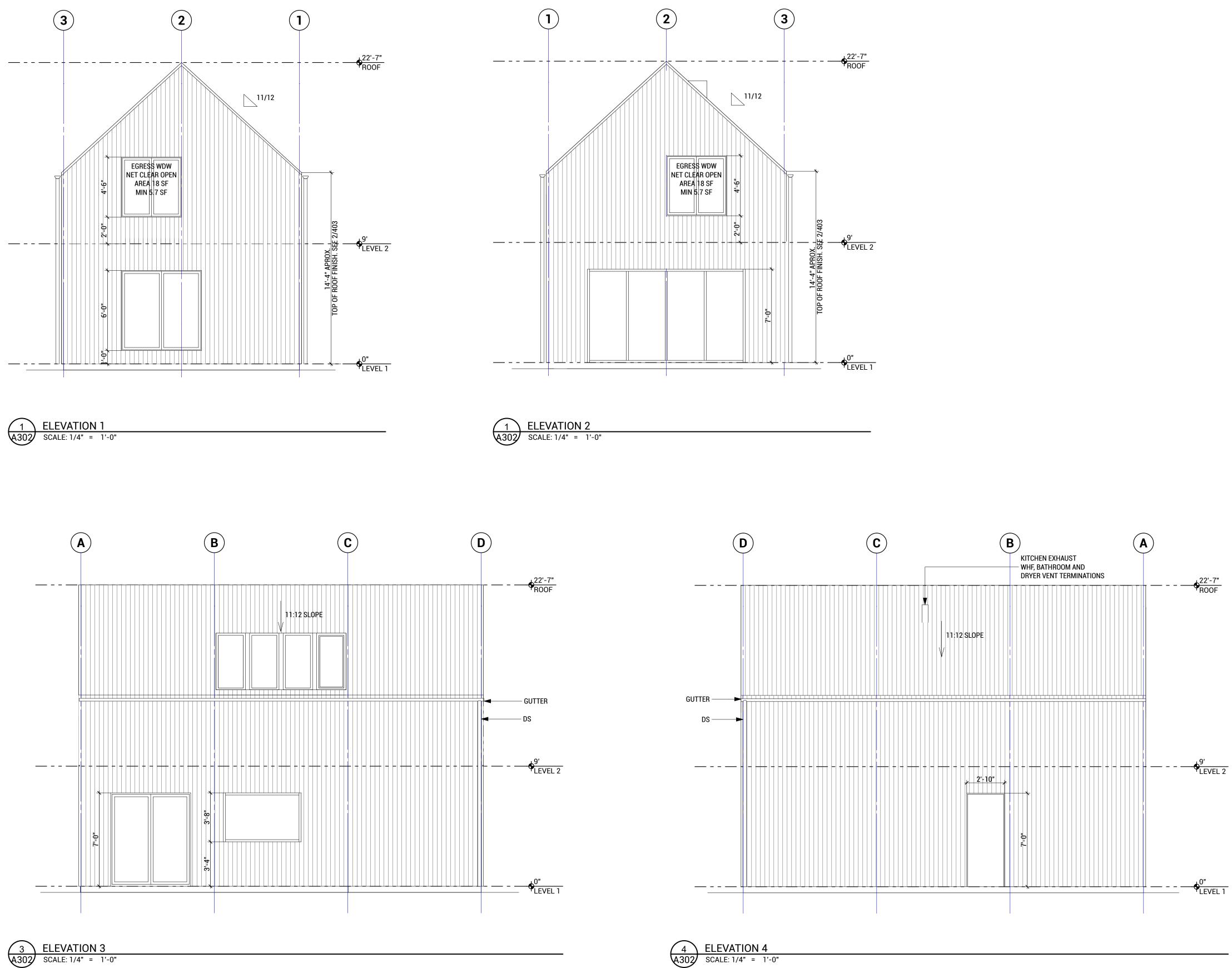
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COMPETITION SET - NOT FOR CONSTRUCTION SEPTEMBER 2020 SHEET TITLE

EXTERIOR ELEVATIONS (PLAN VARIATION 1)







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DESIGN

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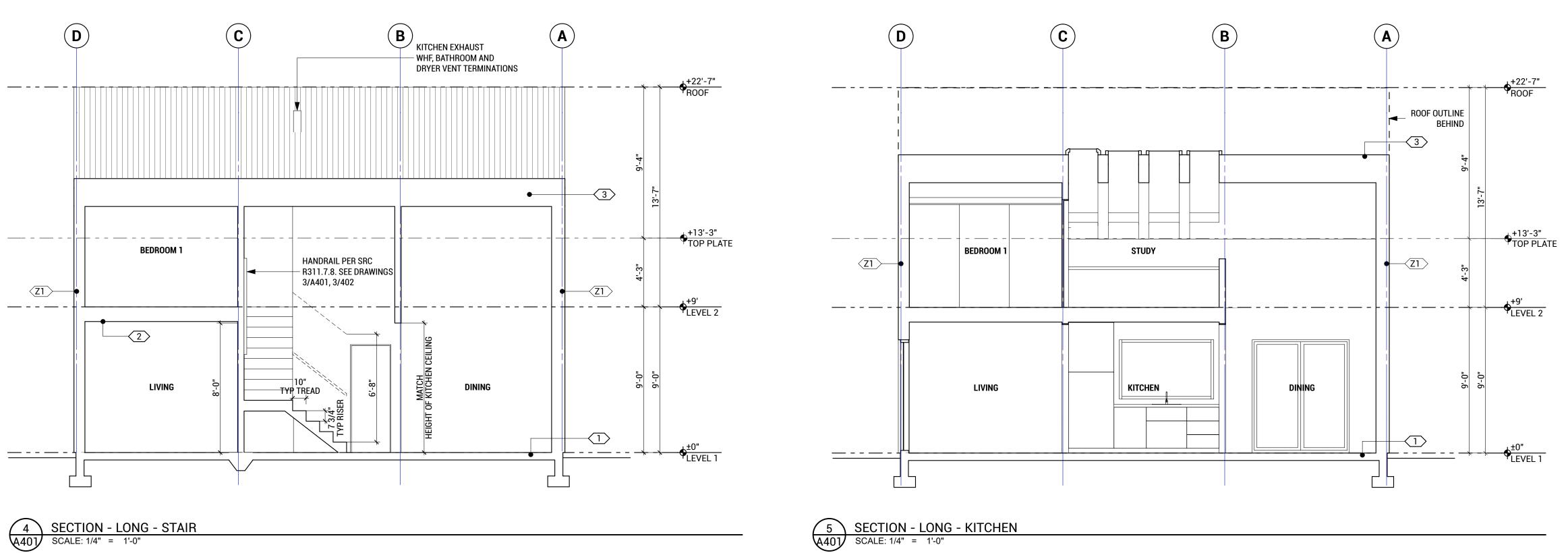
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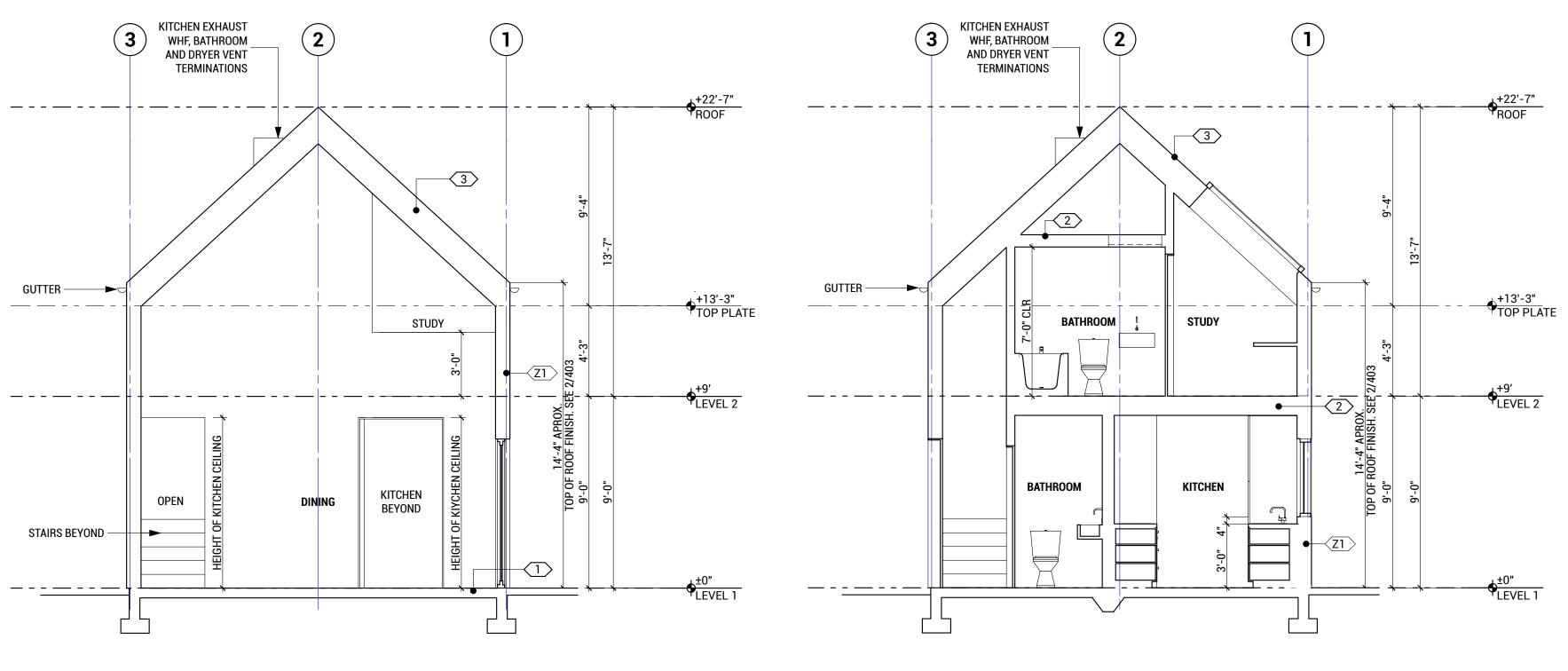
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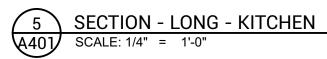
EXTERIOR ELEVATIONS (PLAN VARIATION 2)

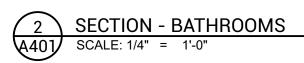


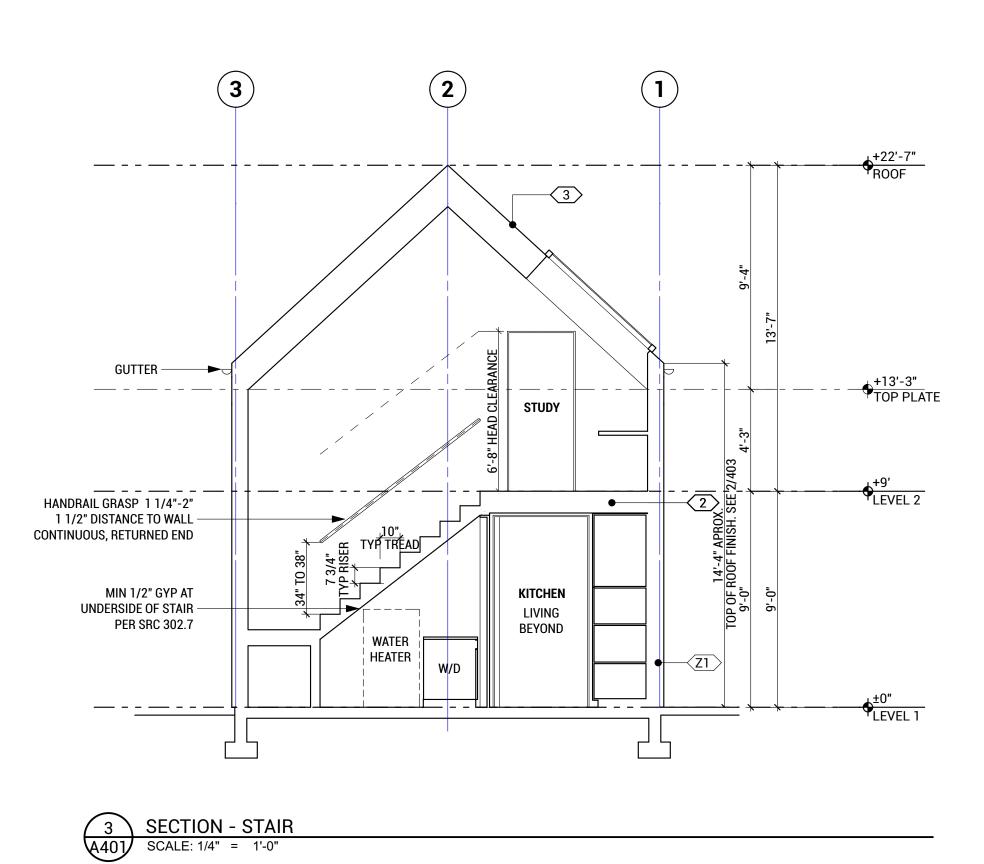




1SECTION - DOUBLE HEIGHT DININGA401SCALE: 1/4" = 1'-0"







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MIRRORED PLAN OF VARIATIONS 1 AND 2 DESIGN

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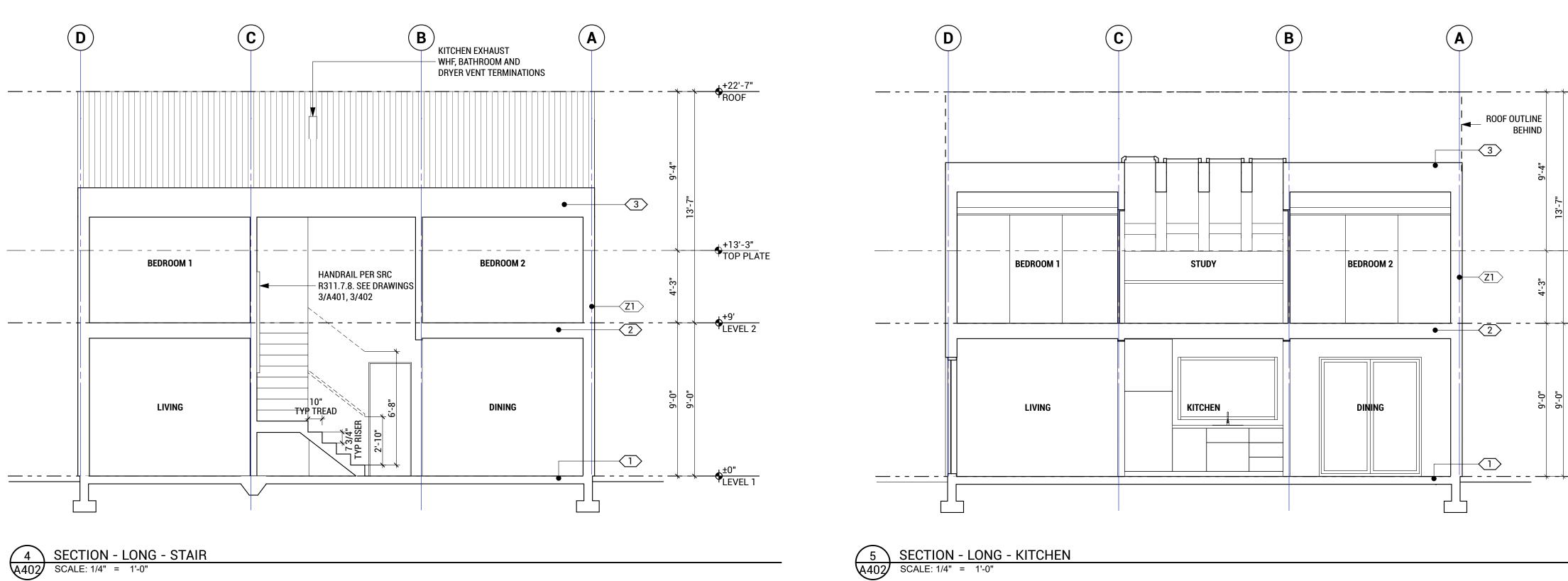
## ISSUE

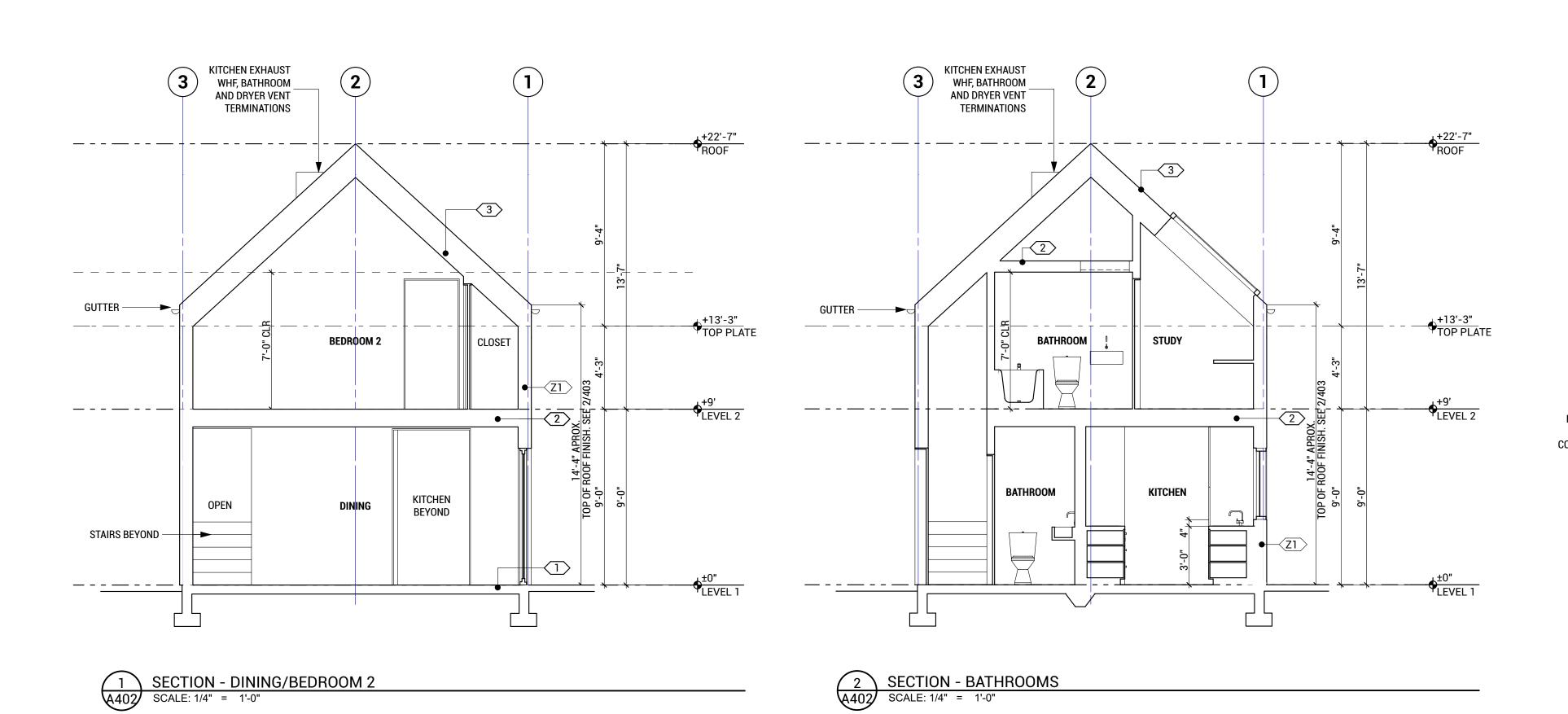
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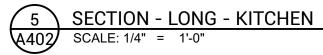
BUILDING SECTIONS (PLAN VARIATION 1)

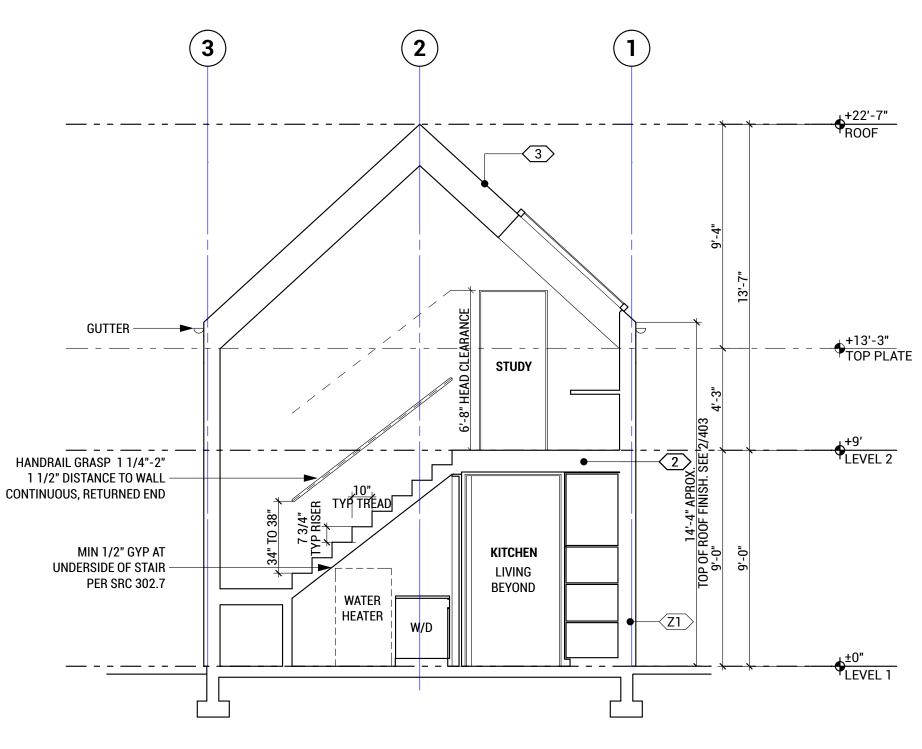


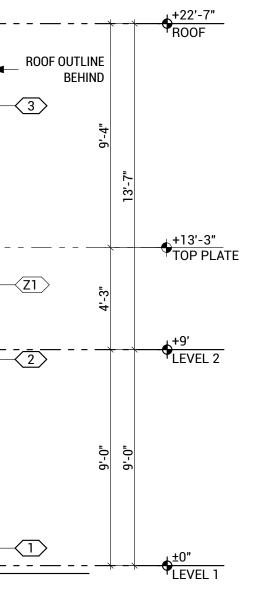
SCALE:











3 SECTION - STAIR A402 SCALE: 1/4" = 1'-0"

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MIRRORED PLAN OF VARIATIONS 1 AND 2 DESIGN

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**REVISION NOTES** 

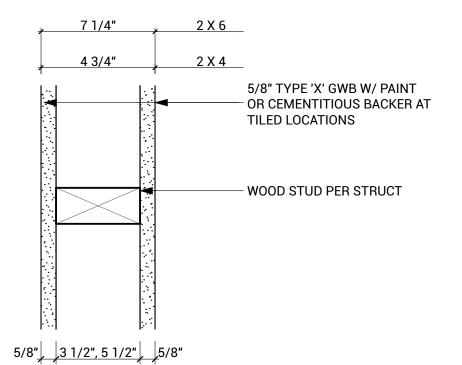
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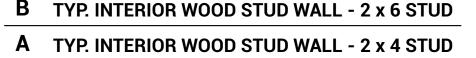
COMPETITION SET - NOT FOR CONSTRUCTION SEPTEMBER 2020 SHEET TITLE

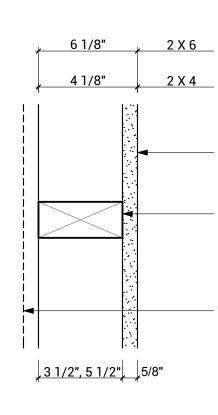
BUILDING SECTIONS (PLAN VARIATION 2)



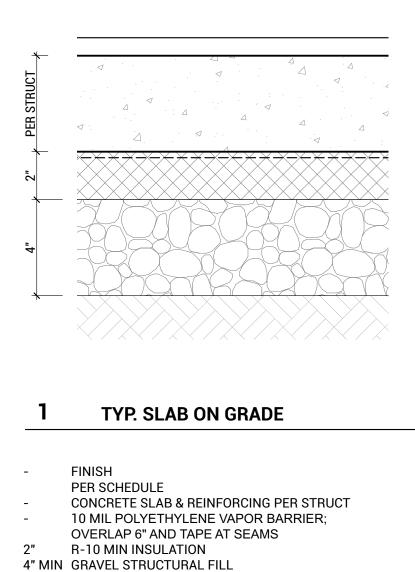


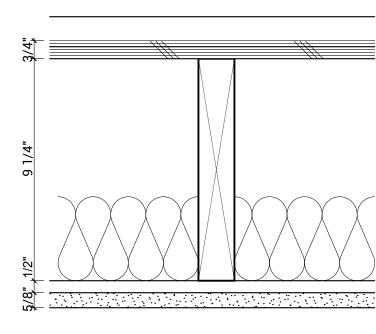
# B TYP. INTERIOR WOOD STUD WALL - 2 x 6 STUD



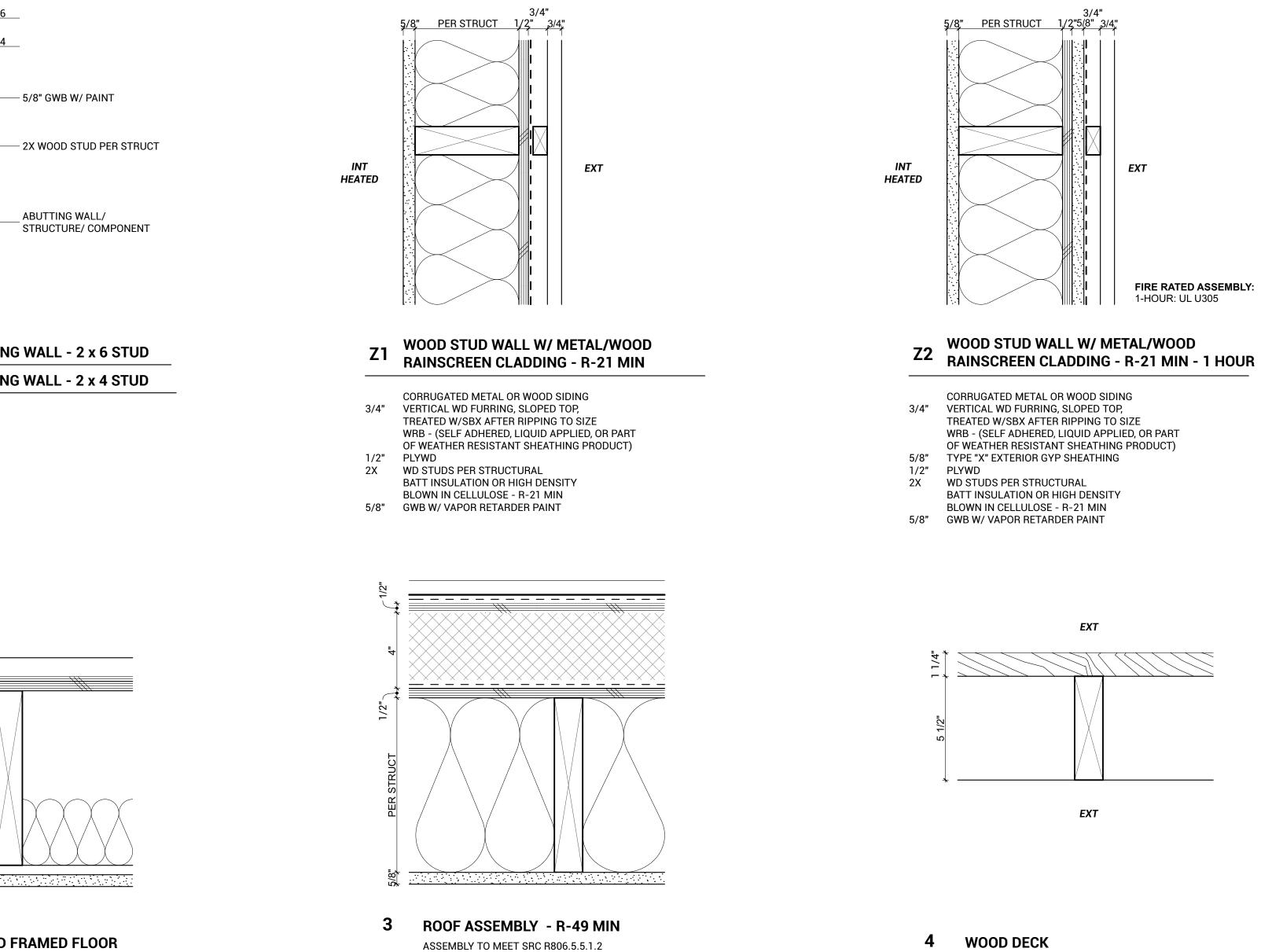


- E WOOD STUD FURRING WALL 2 x 6 STUD
- **D** WOOD STUD FURRING WALL 2 x 4 STUD





2	TYP. INTERIOR WD
-	FINISH
	PER SCHEDULE
3/4"	PLYWD
3 1/2"	MIN. ACOUSTIC BATT INSULAT
	(AT FLOORS WITH LIVING SPAC
2X	WOOD JOISTS (PER STRUCT)
1/2"	RC CHANNEL FOR ACOUSTIC S
	(AT FLOORS WITH LIVING SPAC
5/8"	GWB



ATION ACE ABOVE) SEPARATION ACE ABOVE)

5/8" GWB

-

4"

-

2X

METAL ROOFING: CORRUGATED

POLYISO RIGID INSUL, R-10 MIN,

SHEATHING WATERPROOFING

WOOD JOISTS (PER STRUCT)

SLOPE PER PLAN W/ R-30 MIN SEMI-RIGID MINERAL WOOL INSUL, OR

BLOWN-IN CELLULOSE, TIGHT TO

ROOF UNDERLAYMENT

1/2" SHTG (PLY/OSB/COVERBOARD)

TIGHT TO SHEATHING

SELF-ADHERED / LIQUID

WEATHER RESISTANT

1/2" PLYWD SHTG (PER STRUCT)

ROOF SHEATHING

APPLIED OR

MEMBRANE

SHEET METAL OR STANDING SEAM

PART OF

## WOOD DECK

-

DECKING 2X6 WOOD JOISTS AT 16" OC CONCRETE DECK BLOCKS

## NOTES:

- 1. GYP BD IS 5/8" U.N.O.
- 2. CEMENTITIOUS BACKER IS 5/8"
- 3. STUD SIZES ARE PER PARTITION TYPE
- 4. WHERE ENDS OF PARTITION ABUT OTHER CONSTRUCTION PROVIDE RELIEF JOINT
- 5. SHEAR WALLS PER STRUCTURAL SCHEDULE
- 6. ALL EXPOSED GYP BOARD TO BE LEVEL 5 FINISH U.N.O.

7. EXTERIOR WALLS THAT HAVE A FIRE SEPARATION DISTANCE OF LESS THAN 5 FEET MUST COMPLY WITH THE REQUIREMENTS OF SRC TABLE R302.1 (1). SEE ALTERNATIVE WALL Z2 FOR USE WHEN FIRE-RESISTIVE PROTECTION IS REQUIRED.

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PARCEL #

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SHEET TITLE ASSEMBLIES

> A80<sup>-</sup> AS INDICATED