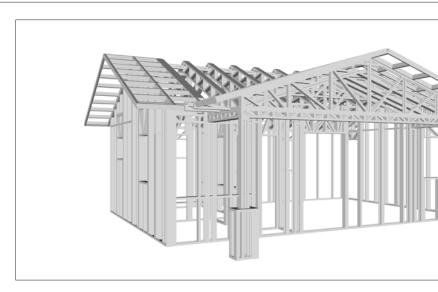


EMBER

The Ember is a charming Craftsman-style studio home. The walls are finished with horizontal siding in a cool gray tone. The gable end features wood shingles, adding a touch of natural texture. A simple gable roof with a decorative trim detail at the peak provides shelter and a welcoming covered porch extends from the main entrance, supported by substantial pillars with stone accents.

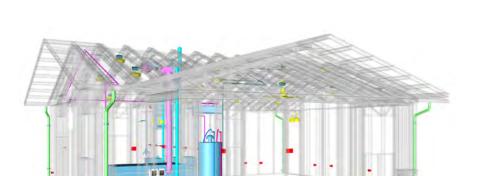
Inside, the Ember features a simple rectangular layout. The living and kitchen areas are merged into one large room at the center of the house. Functional spaces, such as the bathroom and laundry, are conveniently located on one side of the plan.



Materials Shopping List

Please print and take this Materials Shopping List to your favorite Home Depot and ask for assistance in selecting the materials, fixtures and fittings to complete your new home.

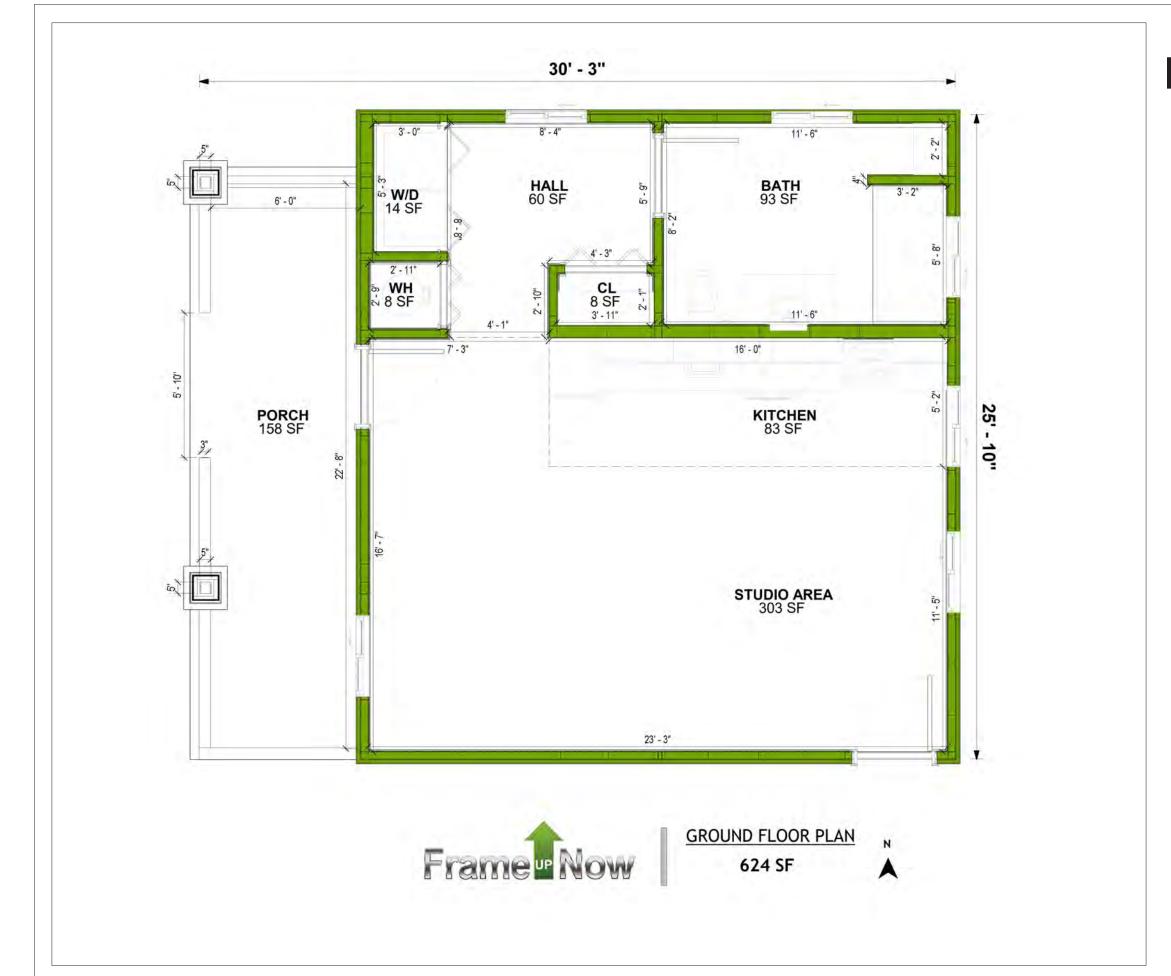
Record your selection and the price of the item. Then do the math to determine the cost for your selections and the total cost of finishing your home.



< CLICK HERE >

To Go To Materials Shopping List



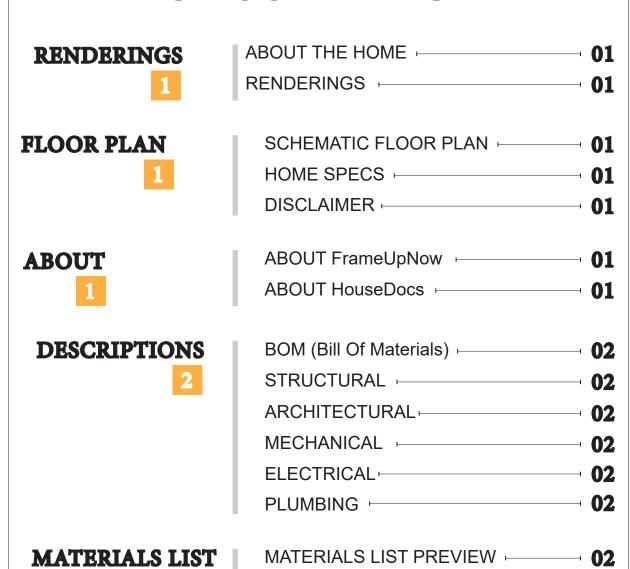


FLOOR PLAN

624 SF

Studio

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ARCHITECTURAL ELEVATIONS
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STRUCTURAL 16

MATERIALS

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MATERIALS SHOPPING LIST

ABOUT



FrameUpNow is a design and manufacturing company providing precision-engineered home framing solutions. We offer a catalog of Affordable Homes, Tiny Homes, Garages, Shops and Barndominiums. FrameUpNow manufactures cold-formed steel (CFS) also known as Light Gauge Steel (LGS) framing components that conform to our engineered metal house frame plans or can be purchased as DIY skeleton kits.

The CFS/LGS framing is lightweight, easily assembled, and does not require heavy equipment or specialized labor, enabling homeowners to erect the frame themselves in just a few days. Unlike wood, the steel framing is impervious termites and bores, warping, expansion, and fire.

Our home plans come complete with a structural engineered stamp for permit approvals. Customers receive a full BOM also known as a Materials Shopping List to purchase finish materials from a Building Materials retailer. FrameUpNow prides itself on the quality and efficiency of our precision-engineered home framing solutions for construction professionals and DIY homeowners.



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-Ember-624-Studio-Craftsman-Base-550

DRAWING NAME

INTRODUCTION

CLIENT NAME:
PROJECT NUMBER:
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:

1101

SCALE:

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DISCLAIMER

DESCRIPTIONS

MATERIALS LIST

The BOM (Bill Of Materials) package, known as the Materials Shopping List document, provides:

Comprehensive Inventory: Detailed lists of essential materials sourced from architectural, mechanical, HVAC, electrical, and plumbing design drawing sets.

Precise Curation: Each item meticulously selected and organized for accuracy and efficiency in project planning.

Customizable Options: Customers can modify listed items to their preferences and calculate costs accordingly, ensuring alignment with personal project needs and budget.

Dedicated Space for Details: Includes tables for customers to note Home Depot SKU numbers or product descriptions for selected items, facilitating seamless purchasing and coordination with suppliers.

Customer Convenience: Take the list to Home Depot or preferred suppliers for accurate pricing, helping align the total home budget with personal financial plans.

Simplify your construction journey with our Materials Shopping List document, where detailed preparation meets streamlined implementation for your dream home.

STRUCTURAL

The structural drawings package provides an exhaustive set of detailed plans essential for the precise assembly of your building. This comprehensive package includes:

Framing Plans: Detailed layouts for all framing components. Truss Layouts: Clear instructions for truss placement and

Panel Length Plans: Specifications for panel dimensions. Framing Elevations and Sections: Precise elevation and sectional views for accurate construction.

Truss and Wall Blocking Plans: Plans for truss and wall blocking to ensure structural integrity.

Hold-Down Plan: Detailed hold-down requirements for stability. Snap Sheet: Reference sheet for quick identification of components

Structural Details and Bracing Plans: Complete details and bracing plans for all structural elements.

Accompanying these plans is a comprehensive Bill of Materials (BOM) that lists every necessary building component, from cold formed steel (CFS) frames to fasteners.

ARCHITECTURAL

With the comprehensive architectural package, both builders and DIY homeowners can confidently execute the construction.

The architectural package includes:

Furnished Floor Plans: Complete with furniture layouts for a clear understanding of space utilization.

Detailed Dimension Plans: Ensures precise measurements, from the overall footprint down to the exact placement of windows and

Foundation Plan: Detailed plan to establish a solid foundation.

Wall Framing and Truss Layout: Comprehensive plans for wall framing and truss placement.

Architectural Elevations: Exterior views showcasing the design.

Strategic Building Sections: Critical cross-sectional details for a thorough understanding of the build.

Casework Drawings and Diagrams: Suggested designs for built-in caseworks, such as kitchen cabinets.

MECHANICAL

The mechanical package includes everything needed to guide HVAC

Detailed HVAC Floor Plan: Precisely maps out the placement of air handlers, ductwork, and vents throughout the home's layout.

HVAC Sections and Riser Diagrams: Technical drawings offering critical cross-sectional details and piping schematics, ensuring proper integration of the heating and cooling system into the home's structure.

Bill of Materials: A complete list of all necessary HVAC components.

ELECTRICAL

The electrical package includes all the plans and documentation needed to guide the installation of your home's electrical system:

Detailed Power Plan: Precisely maps out the placement of outlets, switches, and other power components throughout the layout.

Comprehensive Lighting Plan: Shows the optimal locations for lighting fixtures, sconces, and other illumination sources to create a well-lit, functional interior.

Dimensioned Electrical Layout: Provides exact dimensions and measurements to ensure proper placement of all electrical elements.

Bill of Materials: A complete list of every component needed, from circuit breakers to wiring.

ARCHITECTURAL BOM

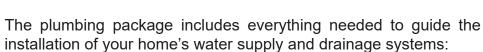
PLUMBING

The plumbing package includes everything needed to guide the

Detailed Water Supply System Plan: Precisely maps out the placement of pipes, valves, and plumbing fixtures throughout the

and sizing of drain lines to effectively remove waste and ensure

Detailed Riser Diagrams: Provide information needed to properly

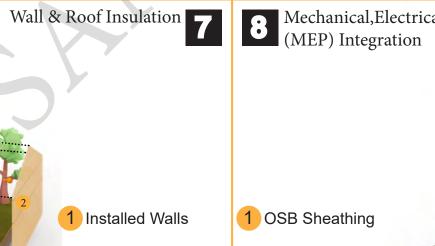


Comprehensive Sewage System Plan: Shows the optimal routing proper drainage.

install all vertical plumbing risers and vent stacks.

Bill of Materials: A complete list of every component needed, from pipes to fixtures.







Roof Truss Installation 5 Exterior OSB Cladding



1 Staged Wall

Panels

2 Staged Truss

3 Concrete Floor

3 Layout Markers

4 Installed Walls

1 Installed Walls

2 Installed Trusses

OSB Sheathing

Mechanical, Electrical & Plumbing

Metal Delivery and Staging

Wall Panel Installation

2 Sewage

Installation

4 Concrete Floor

3 Concrete Floor

4 Layout Markers

Installed Walls

2 Installed Trusses

1 Staged Wall Panels 1 Staged Walls

2 Staged Truss Panels 2 Staged Roof

3 Foundation

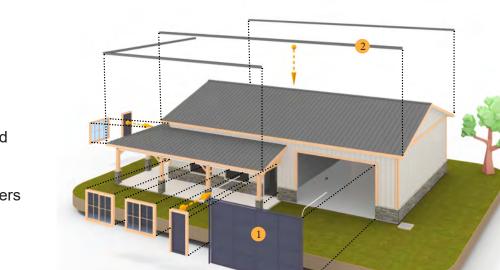
Layout and Marking













KEY PLAN

DESCRIPTION DATE

NOTE:

LEGEND:

PROJECT

234-Ember-624-Studio-Craftsman-Base-550

DRAWING NAME

INTRODUCTION

CLIENT NAME: PROJECT NUMBER: DATE: **DESIGNED BY** DRAWN BY: CHECKED BY:

1102

SCALE:

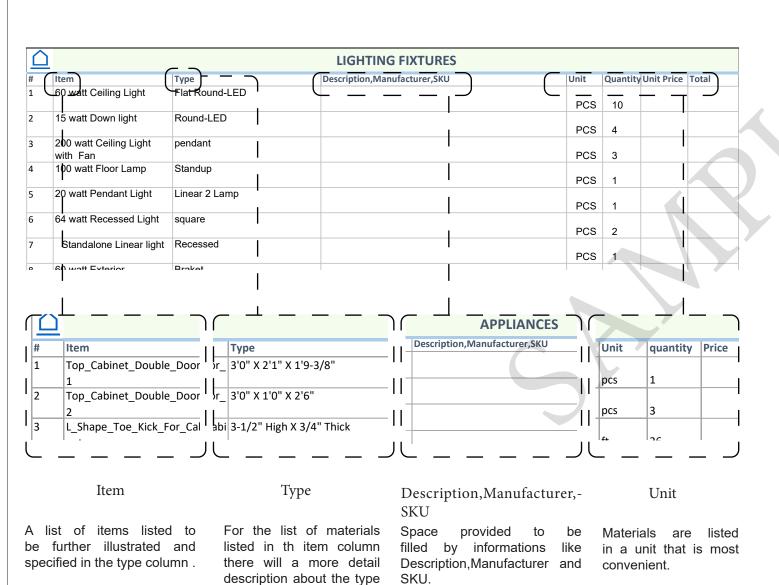
BOM (Bill Of Materials) (Separately Attached)

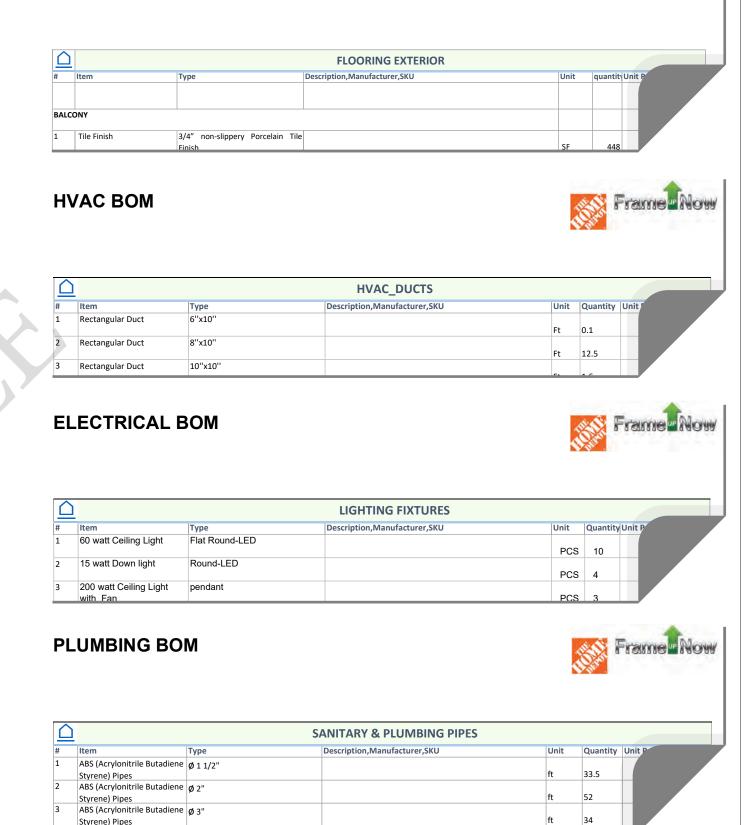


The Bill of Materials (BOM) is a crucial document that compiles the material requirements from different disciplines into a centralized inventory, enabling efficient procurement, inventory management, and cost estimation for a specified project or

ELECTRICAL BOM



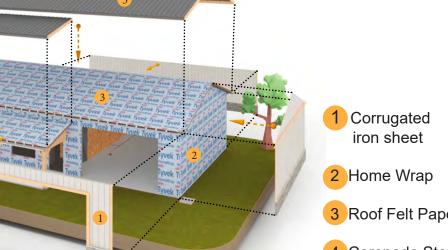






1 OSB Sheathing 2 Floor 3 Dry Wall Board 4 Ceiling Dry Wall





3 Roof Felt Paper 4 Coronado Stone

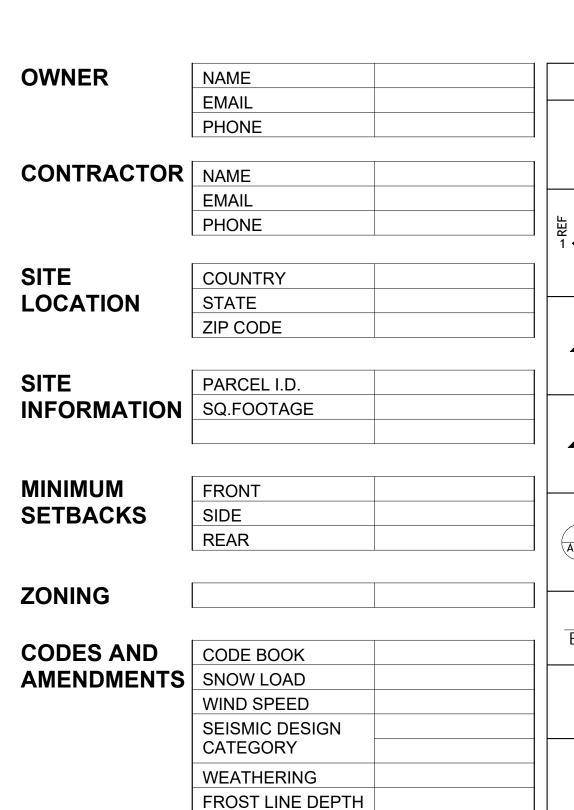
5 Corrugated

iron sheet

Doors and windows 2 Rain Gutters

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of the Material.



TERMITE

WINTER DESIGN

FLOOD HAZARDS

HIDDEN LINE

OVER HEAD

LINE LEGEND

DOOR OPENING DIRECTION

ROOM SEPARATOR

DECAY

SYMBOLS	SYMBOLS NAME		PAGE IN
VIEW		G101	COVER SHEET
NUMBER	0.4.4.04.17.4.7	A101	FLOOR PLAN
A101 SHEET	CALLOUT HEAD	A102	DIMENSION PLA
NUMBER		S101	FOUNDATION PL
1 REF		S102	STRUCTURAL FL
W NUMBER	R INTERIOR ELEVATION	S103	FRAME LAYOUT
A101 1		S104	ROOF TRUSS LA
1 REF NUMBER		A103	ROOF PLAN
REF VIEW		A201	ELEVATIONS
NUMBER	DUIL DING ELEVATION	A202	ELEVATIONS
1 A101	BUILDING ELEVATION	A301	SECTIONS
SHEET NUMBER		A401	DETAILS
VIEW		A402	CASEWORK DET
NUMBER	OFOTION	A403	CASEWORK DET
A101-	SECTION	E101	SCHEDULE
SHEET NUMBER		E102	LIGHTING PLAN
VIEW		E103	POWER PLAN
NUMBER_	DETAIL MENA	E104	DIMENSION PLA
A101	DETAIL VIEW	E105	DIMENSION PLA
SHEET NUMBER		P101	COVER SHEET
		P102	WATER SUPPLY
Name	ELEVATION LEVEL	P103	SEWAGE SYSTE
Elevation \		P104	RISER DIAGRAM
- ELOOP		M101	HVAC PLAN
_ FICTOR I			

SPOT ELEVATION

FLOOR SLOPE

ROOF SLOPE

CALL OUT BOUNDRY — — — — —

ROOF SLOPE ELEVATION

TAG	TAG'S NAME
CA01	CASEWORK TAG
1	DOOR TAG
<u> 1</u>	FURNITURE TAG
<u>(1)</u>	WINDOW TAG
SE01	SPECIALTY EQUIPMENT TAG
ME01	MECHANICAL EQUIPMENT TAG
PE01	PLUMBING EQUIPMENT TAG

PAGE INDEX

STRUCTURAL FLOOR PLAN

DIMENSION PLAN

FOUNDATION PLAN

ROOF TRUSS LAYOUT

M102 HVAC SECTION

M103 RISER DIAGRAM



FLOOR SLOPE

SLOPE

ROOF SLOPE

CUT LINE

LEVEL

DIRECTION

SLOPE DIRECTION

O A O E I A O D I C D E T A II O		
CASEWORK DETAILS	IMC	INTERNATIONAL MECHANICAL
CASEWORK DETAILS		CODE
SCHEDULE	MAX.	MAXIMUM
LIGHTING PLAN	ME	MECHANICAL
POWER PLAN	MIN.	MINIMUM
DIMENSION PLAN FOR LIGHT FIXTURE	NO.	NUMBER
DIMENSION PLAN FOR FITTING	O.C	ON CENTER
COVER SHEET	OSB	ORIENTED STRAND BOARD
WATER SUPPLY SYSTEM	PL	PLUMBING
SEWAGE SYSTEM	PSI	POUNDS PER SQUARE INCH
RISER DIAGRAM	PVC	POLYVINYL CHLORIDE
HVAC PLAN	REF	REFERENCE
IVAC SECTION	RG	RIGHT GARAGE
RISER DIAGRAM	SE	SPECIAL EQUIPMENT
	SF	SQUARE FEET
	SIMP. STHD8	SIMPSON STRAP THE
TAG'S NAME	SIWI . STIIDO	HOLDDOWN
OAOFIMORIA TA O	SIMP. ABE66	SIMPSON ANCHOR BOLT EDGE
CASEWORK TAG	TV	TELEVISION
DOOR TAG	UNO	UNLESS NOTED OTHERWISE
	W/	WITH
FURNITURE TAG	W/D	WASHER/DRYER
WINDOW TAG	AC	AIR CONDITIONING UNIT
SPECIALTY EQUIPMENT TAG	ACC	AIR COOLED CONDENSER
MECHANICAL EQUIPMENT TAG	ACCU	AIR COOLED CONDSENSING UNIT
	AHU	AIR HANDLING UNIT
PLUMBING EQUIPMENT TAG	CC	COOLING COIL
	CD	CEILING DIFFUSER
	CFm	Cubic Feet Per Minute
	CR	CEILING REGISTER
	CU	CONDENSING UNIT
	CW	COLD WATER
	E/A	EXHAUST AIR
	EF	EXHAUST FAN
	ET	EXPANSION TANK
	EX.	EXISTING
	FC	FLEXIBLE CONNECTION
	FCU	FAN COIL UNIT
	FLR.	FLOOR
	HC	HEATING COIL
	HE	AIR TO AIR HEAT EXCHANGER
	HV	HEATING AND VENTILATING UNI
	IV	INLET VANES
	MER	MECHANICAL ROOM
	MAX.	MAXIMUM
	MIN.	MINIMUM
	R/A	RETURN AIR
	RCU	RECIPROCATING CHILLER UNIT
	RF	RETURN FAN
	S/A	SUPPLY AIR
	SCD	SMOKE CONTROL DAMPER
	SP	STATIC PRESSURE

ABBREVIATION

CASEWORK

ELECTRICAL

FOOTINGS

CONDITIONING

AFS

F.F.L

FTG

HVAC

IRC

ASTM D698

ACTION FLOOR SYSTEMS

AMERICAN SOCIETY FOR

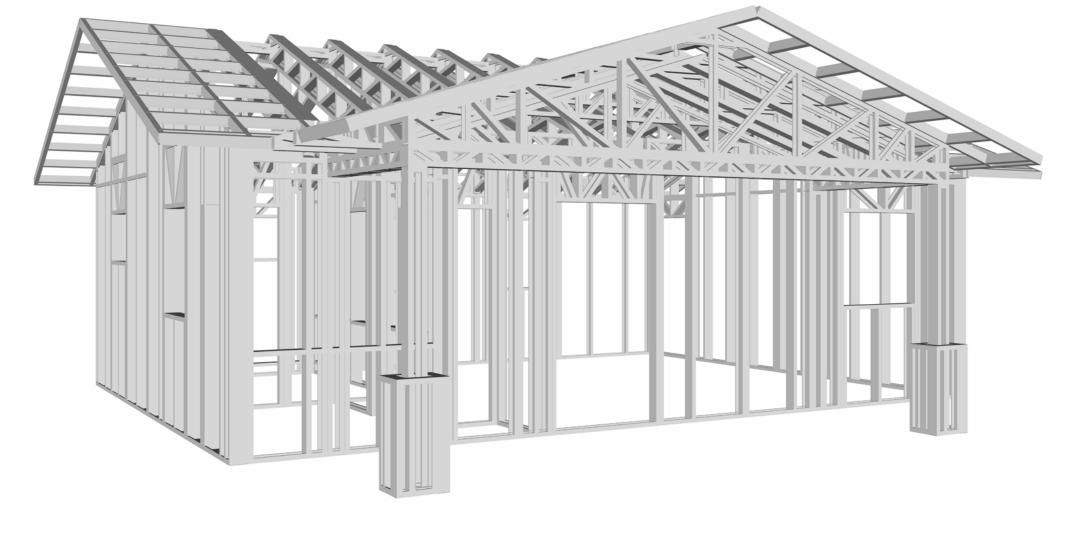
TESTING AND MATERIAL

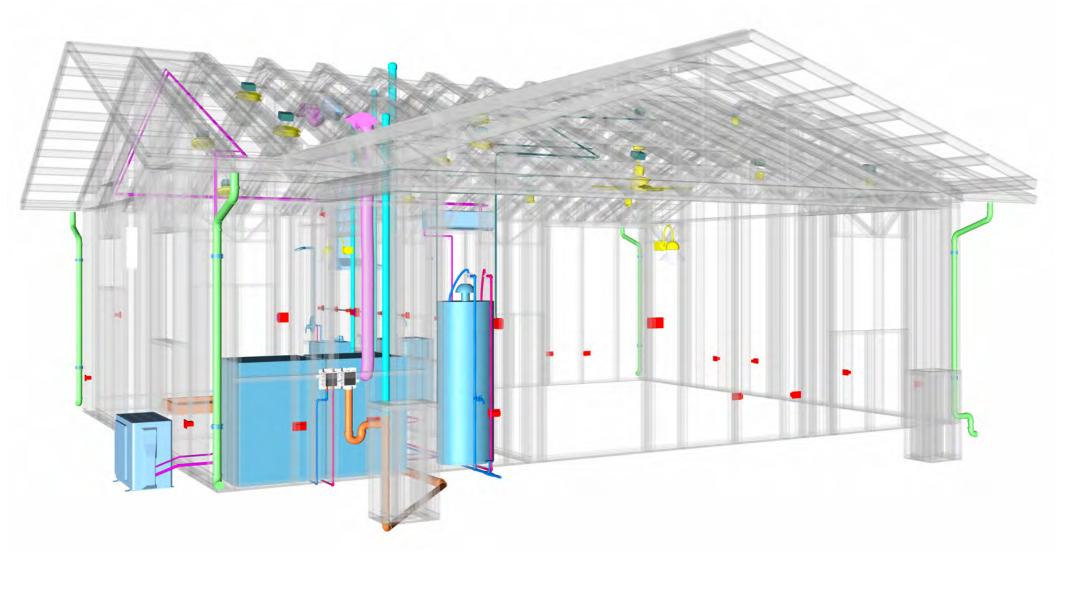
FINISHED FLOOR LEVEL

FINISHED FLOOR ELEVATION

HEATING, VENTILATION & AIR

INTERNATIONAL RESIDENCE





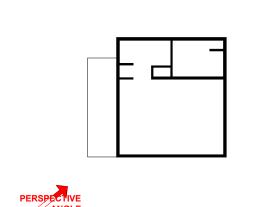


234-EMBER-624-STUDIO CRAFTSMAN-BASE 550

SQUARE FOOT	AGE
LIVING	624
PORCH	108
TOTAL	732



KEY PLAN



NO.	DESCRIPTION	DATE	

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

COVER SHEET

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:25 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

G101

GENERAL NOTES

- THIS DRAWING DEPICTS THE ARCHITECTURAL (SPACE LAYOUT, FURNISHING, FLOOR, WALLS, ROOFS, FOUNDATION, WINDOWS AND DOORS) SYSTEMS. IT PROVIDES A VISUAL REPRESENTATION OF THE ARCHITECTURAL LAYOUT AND COMPONENTS.
- 2. THE ARCHITECTURAL DRAWINGS ARE PREPARED TO MEET THE SPECIFIC REQUIREMENTS OF THE BUILDING, AS PER THE PROJECT SPECIFICATIONS AND APPLICABLE CODES AND
- 3. THE CONSTRUCTION OF THIS HOME SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE (IRC), INTERNATIONAL MECHANICAL CODE (IMC), THE INTERNATIONAL PLUMBING STANDARD, THE NATIONAL ELECTRICAL STANDARD AND ALL OTHER APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- 4. COORDINATION WITH OTHER TRADES HAS BEEN DONE ON A DESIGN LEVEL. THIS DRAWING SHALL BE READ TOGETHER WITH THE ME, EL AND PL DESIGN DRAWINGS TO ENSURE PROPER CONSTRUCTION AND INTEGRATION OF THE BUILDING SYSTEMS.

ABOUT WALLS:

SHOWER WALL COVERING

BATHTUB AND SHOWER SPACES (WALLS AND FLOORS) WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NON-ABSORBENT SURFACE.

WALL PAINT (INTERNAL)

THE TYPICAL THICKNESS OF LATEX WALL PAINT IS 1/32 OF AN INCH FOR A SINGLE COAT. AND DOUBLE COAT (1/16") SHALL BE APPLIED FOR DURABILITY.

3. ADHESIVES:

THE ADVISABLE TYPE OF ADHESIVE FOR THIS PROJECT IS **EPOXY ADHESIVES** BECAUSE THEY ARE KNOWN FOR THEIR HIGH STRENGTH, DURABILITY, AND RESISTANCE TO MOISTURE, CHEMICALS AND HEAT.

REFER TO SHEETS A201 & A202 FOR GENERAL NOTES ON EXTERNAL FINISHING MATERIALS

ABOUT FLOORS:

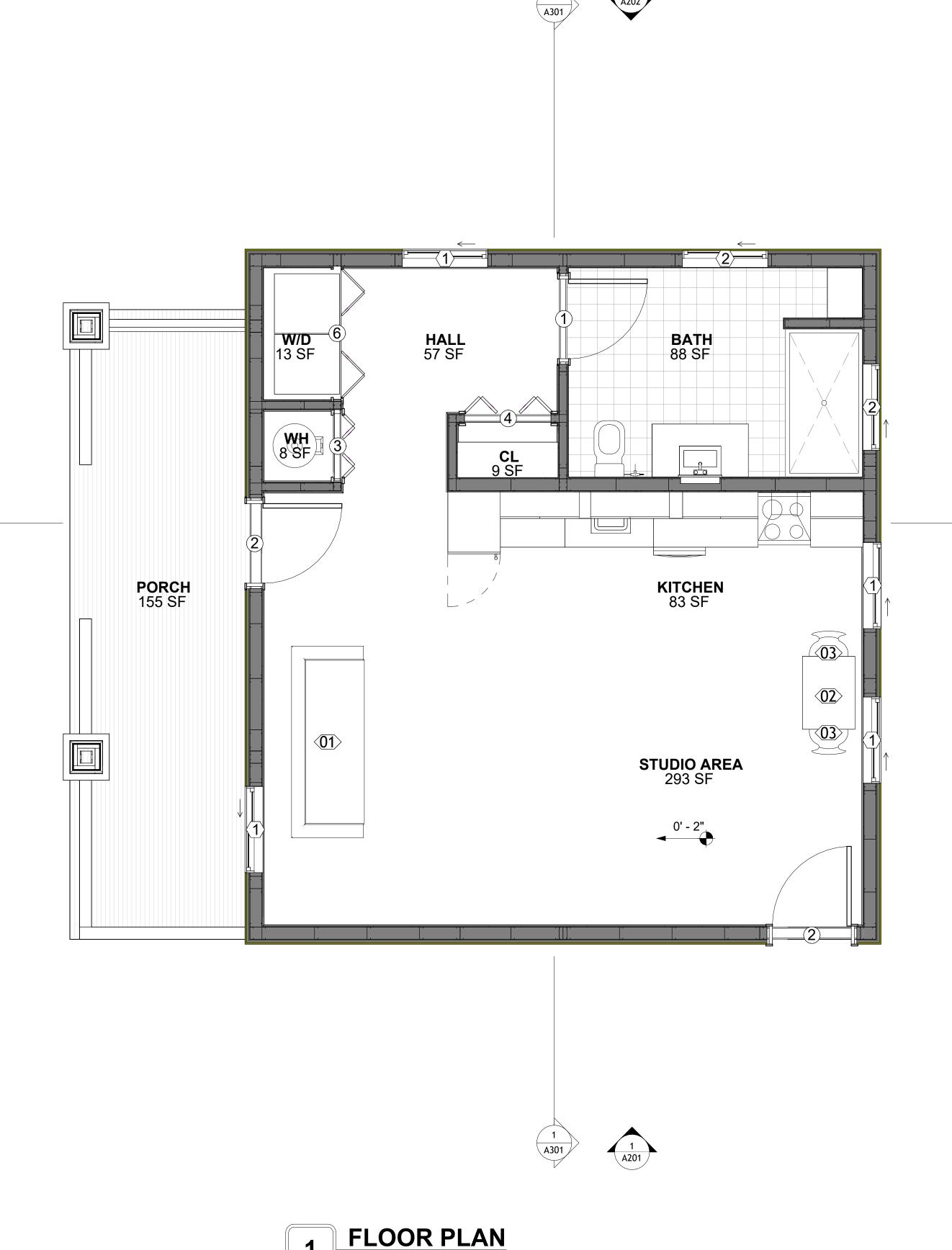
- THE SPOT ELEVATION INDICATES THE FINISHED FLOOR ELEVATION.
- 2. FINISHED FLOORS PER PLANS.
- 3. FIELD VERIFY FOR DIMENSION DROP 4" FOR SHOWER AND BATHTUB USE.
- 4. 1% SLOPE ON OUTDOOR BALCONIES FOR WATER RUN OFF.
- 5. 2% SLOPE TOWARDS THE SHOWER DRAIN FOR SUFFICIENT DRAINAGE.
- 6. 4" DROP AT THE DOOR LEADING TO EXTERIOR BALCONY FROM THE MAIN LIVING AREA. 5% SLOPE FOR GARAGE IS USED, WHICH SHOULD BE CHECKED WITH THE LOCAL
- GARAGING ZONING LAWS.





	FURNITURE SCHEDULE					
	TYPE MARK TYPE COUNT					
01		THREE SEAT SOFA	1			
02		25" X 60" DINING 2	1			
03		DINING CHAIR	2			

ROOM FINISH SCHEDULE							
ROOM NUMBE R	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENT
01	STUDIO AREA	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
02	KITCHEN	HARDWOOD	CONCRETE	WALL PAINT + CERAMIC	DRY WALL	8' - 0"	
03	BATH	VINYL TILES	CONCRETE	CERAMIC TILE	MRD	8' - 0"	
04	HALL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
05	CL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
06	W/D	VINYL TILES	CONCRETE	CERAMIC TILE	DRY WALL	8' - 0"	
07	WH	VINYL TILES	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
09	PORCH	PROCELAIN TILE	CONCRETE	CORRUGATED IRON	PLYWOOD	8' - 0"	



3/8" = 1'-0"



KEY PLAN

NO.	DESCRIPTION	DATE		

NOTE:

2 A301

2 A201

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

FLOOR PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:26 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A101

SCALE: As indicated

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732

SQUARE FOOTAGE

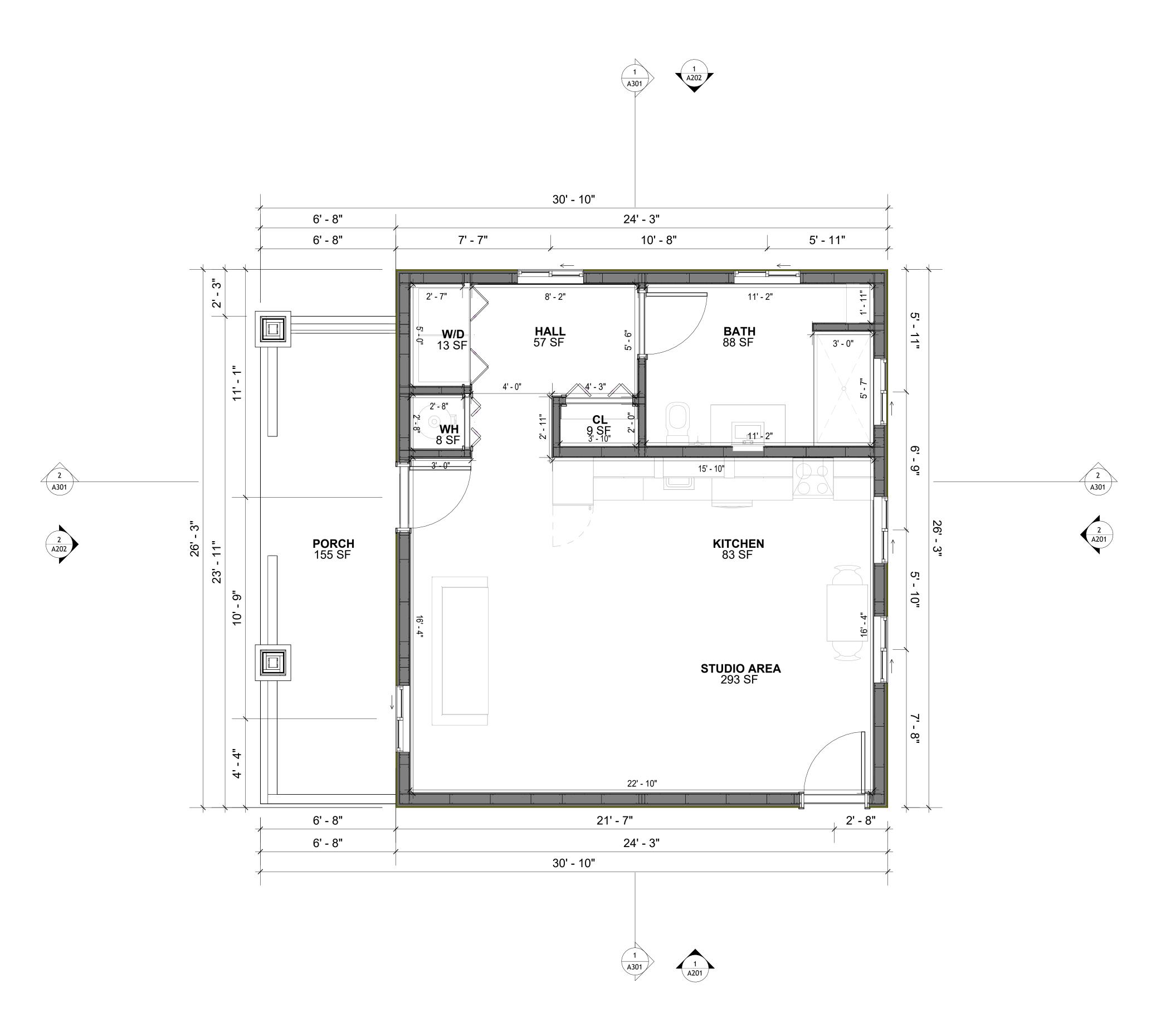
LIVING

PORCH

TOTAL

624

108



DIMENSION PLAN
3/8" = 1'-0"

DIMENSIONS IN THE ARCHITECTURAL DRAWINGS CONSIDER FINISHING MATERIALS. FOR PRECISE MEASUREMENTS OF THE STRUCTUAL FRAMING, REFER TO THE ATTACHED STRUCTURAL PLAN SET.

SQUARE FOOTAGE

LIVING 624

PORCH 108

TOTAL 732



KEY PLAN

NO.	DESCRIPTION DATE	

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

DIMENSION PLAN

Client Name
0033_15
5/13/2025 10:07:27 AM
Designer
Author
Checker

A102

SCALE: 3/8" = 1'-0"

FOUNDATION NOTES

TERMITES PRETREATMENT BY LICENSED CONTRACTOR UNDER SLAB AND AROUND FOOTINGS. ALL AREAS BELOW SLABS SHALL BE TREATED NO MORE THAN 24 HOURS PRIOR TO CONCRETE POUR. EVIDENCE OF TREATMENT MUST BE PROVIDED PRIOR TO PLACING OF CONCRETE.

. MATERIALS:

ALL INTERIOR CONCRETE SLABS SHALL BE A MIN. OF 4" THICK CONCRETE OVER 4" COMPACTED AGGREGATE BASE (ASTM D698), FINISH ELEVATIONS AS NOTED ON DRAWINGS, 6" ABOVE ADJACENT GRADE, LEVEL SLABS TO 1/8"-10' MAX.. CONCRETE SLABS SHALL BE 2500# PSI AT 28 DAYS. A 4" ALLOWABLE SLUMP.

2. **PAD PREPARATION:**

EXCAVATION FOR FOOTING SHALL BE NEAT.

FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION AND APPROPRIATE

ALL REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES AND AROUND CORNERS OR INTERSECTIONS WITH A STANDARD 90 DEGREE BEND ON CORNER BARS. LAP WIRE MESH ONE FULL MESH AT SIDE AND END LAPS. - ALL HARDWARE TO BE SIMPSON OR EQUIVALENT.

EXTERIOR FRAME WALL TO BE SECURED WITH 1/2"X10" ANCHOR BOLTS 4'-0" O.C. FOR 1-STORY AND 2'-8" O.C. FOR 2-STORY. BOLTS SHALL BE LOCATED WITHIN 1'-0" OF EACH END PIECE AND SHALL HAVE A MIN. OF TWO BOLTS PER PIECE

-FOUNDATION ANCHOR STRAPS SHALL BE PERMITTED, ACCORDING TO RESIDENTIAL CODE

- ALL INTERIOR WALLS TO BE SECURED WITH POWER DRIVEN PINS PER MANUFACTURER SPECIFICATION USE PIN SPACING EQUIVALENT TO 1/2" ANCHOR BOLTS.

ALL CONSTRUCTION TO CONFORM TO THE 2012 IRC R-10 RIGID INSULATION OUTSIDE OF EXTERIOR FOUNDATION WALLS UNDER LIVING AREA. CONCRETE PAD FOR CONDENSER THICKNESS IS 4" MIN UNLESS OTHERWISE NOTED.

3. CONCRETE CONSTRUCTION:

THE SLAB SHALL BE UNDERLAIN BY A VAPOR BARRIER/RETARDER IN THE LIVING AREA (TYPICALLY POLYETHYLENE, UNLESS MORE STRINGENT PROTECTION REQUIRED BY THE ÀRCHITECT, ENGINEER, FLOOR COVERING MANUFACTURER, OR ACCEPTED PRACTICE). UNLESS OTHERWISE REQUIRED, BARRIER MAY BE OMITTED AT GARAGES, PORCHES AND PATIOS WITHOUT FLOOR COVERINGS. IT IS BEYOND THE SCOPE OF THESE PLANS TO DETERMINE THE APPLICABILITY OF THESE MORE STRINGENT REQUIREMENTS. BUILDER SHALL VERIFY PRIOR TO CONSTRUCTION.

- IF CONSTRUCTED ON ACTIVE SOILS, THE LONG TERM PERFORMANCE OF THE FOUNDATION IS DEPENDENT ON MAINTENANCE BY THE OWNER. THUS THE BUILDER SHALL ADVISE THE OWNER OF THE FOLLOWING:

. DRAINAGE MUST BE MAINTAINED. WATER SHALL NEVER BE ALLOWED TO POND NEAR THE FOUNDATION.

2. THE SOIL AROUND THE FOUNDATION SHALL BE MAINTAINED IN A RELATIVELY DAMP CONDITION, SUCH AS THAT REQUIRED TO KEEP A LAWN GREEN. IF IT DRIES OUT IT WILL SHRINK. IF IT GETS WET, IT WILL HEAVE UPWARD.

3. SLABS ON THE SHORTER SIDE USES MAIN BARS ARE USED IN THIS DIRECTION ONLY WITH SMALLER DIAMETER DISTRIBUTION BARS ARE PLACED, FORMING A MAT OR GRID.

4. ALL REINFORCEMENT BARS SIZE 10MM OR LARGER IN ACCORDANCE TO ASTM ANCHOR BOLTS AT ALL EXTERIOR WALLS SHALL BE MINIMUM 1/2 INCH DIAMETER WITH A MAXIMUM SPACING OF 6'-0" ON CENTER, UNLESS NOTED OTHERWISE.

. ANCHOR BOLTS SHALL BE INSTALLED WITHIN 12 INCHES OF EACH END OF EACH SILL PLATE WITH AT LEAST TWO ANCHOR BOLTS FOR EACH BOLTS FOR EACH SILL PLATE LONGER THAN 12 INCHES.

5. SIMPSONS SILL ANCHORS MAYBE SUBSTITUTED FOR ANCHOR BOLTS AT THE SAME SPACING.

6. EXTERIOR CONCRETE SLABS WHICH ARE NOT PART OF THE MAIN SLAB SHALL BE MINIMUM 4 INCHES THICK WITH NO STEEL REINFORCING BARS REQUIRED, UNLESS NOTED OTHERWISE ON FOUNDATION PLAN.

VERIFY THE FOLLOWING PRIOR TO POURING:

ALL HOLDDOWNS, STRAP, AND POST LOCATIONS.

CONCRETE FINISHES. PANEL RISER LOCATION - WHERE APPLICABLE.

B. UNDERSLAB MECHANICAL REQUIREMENTS.

STEM WALL BLOCKOUTS.

5. UNDERSLAB ELECTRICAL REQUIREMENTS AND PANEL RISER LOCATION. WHERE APPLICABLE.

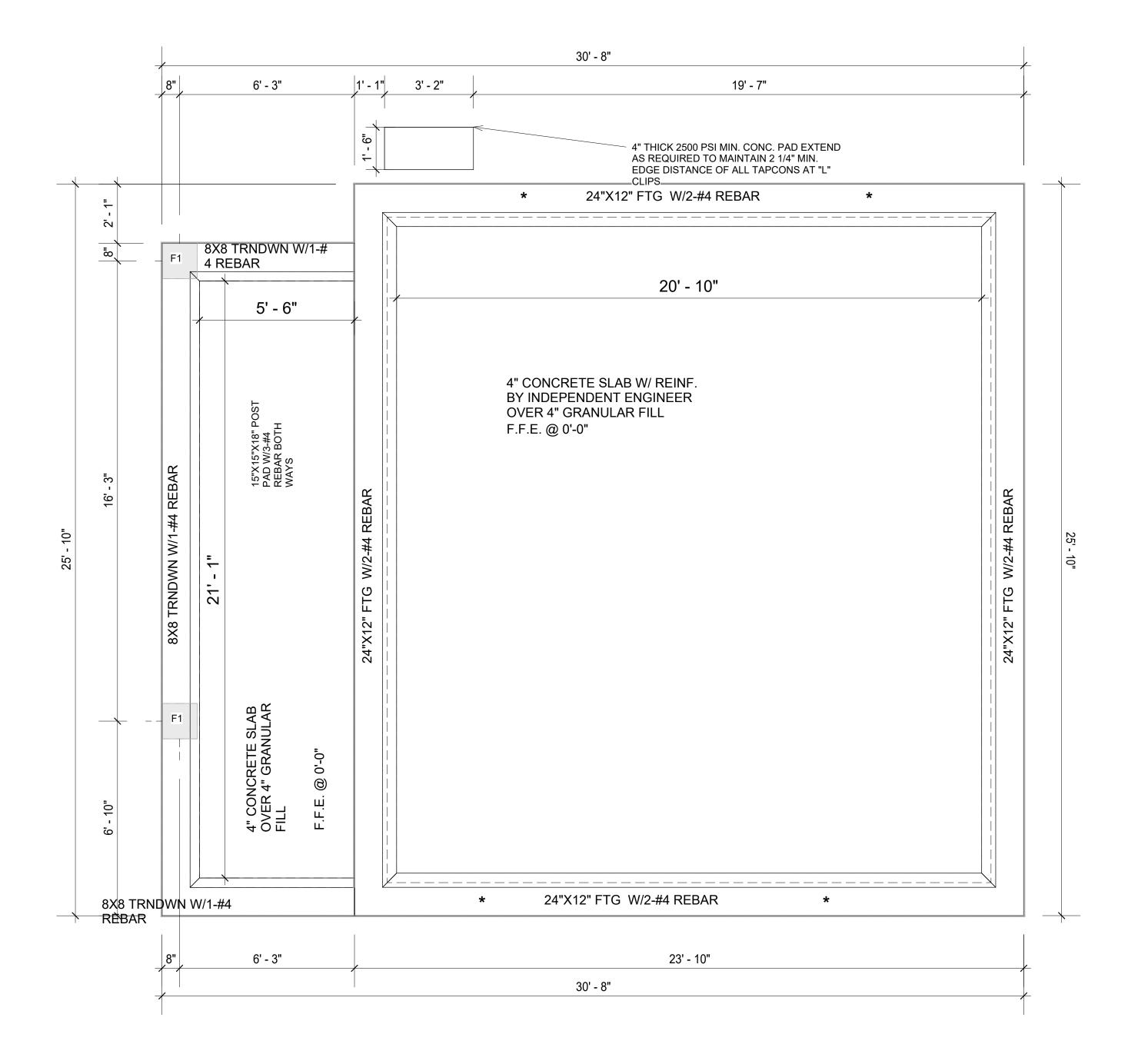
6. PROVIDE THE FOLLOWING:

- PVC SLEEVES THROUGH FTG IF REQUIRED

- 20' #4 COPPER GROUND BAR.

SLOPE FINISH GRADE AWAY FROM FOOTING.

NOTE: FIELD VERIFY ALL DIMENSIONS SEE DIMENSIONED ARCHITECTURAL DRAWINGS



FOUNDATION PLAN



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

FOUNDATION PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:28 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

S101

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SCALE: 3/8" = 1'-0"

SQUARE FOOTAGE

624

108

732

LIVING

PORCH

TOTAL

GENERAL NOTES

NOTES:

-ALL BEARING WALLS SHOULD HAVE A THICKENED SLAB PER SECTION PER DETAIL A401/5.

A) **FOUNDATION PLAN NOTES**:

- 1. CONCRETE SLAB SHALL BE 6" THICK WITH 1/2" DIAMETER TENDONS PER LAYOUT PLAN, CENTERED IN SLAB THICKNESS, OVER APPROVED SUBBASE PER GENERAL STRUCTURE NOTES.
- TERMITE PROTECTION SHALL BE PROVIDED PER IRC SECTION R318.1
 NONE TYPICAL ANCHOR BOLT SPACING AT SHEAR WALL AND HOLD DOWN
- SPECIFICATIONS PER APPROVED ARCHITECTURAL PLANS.
 4. INSTALL HOLDOWNS BEFORE CONCRETE SLAB POUR.
- 5. EXISTING FILL ON-SITE SHALL BE COMPACTED IN ACCORDANCE WITH THE
- REQUIREMENTS IN THE GEOTECHNICAL REPORT.
- 6. ALL FLOOR SLABS ARE REINFORCED ON CONCRETE SLABS.

SPECIAL INSPECTION IS REQUIRED FOR THICKENED FOUNDATION CONSTRUCTION

- 1. REINFORCEMENT
- 2. 2300 PSI CONCRETE POUR

B) REINFORCEMENT FOR CONCRETE:

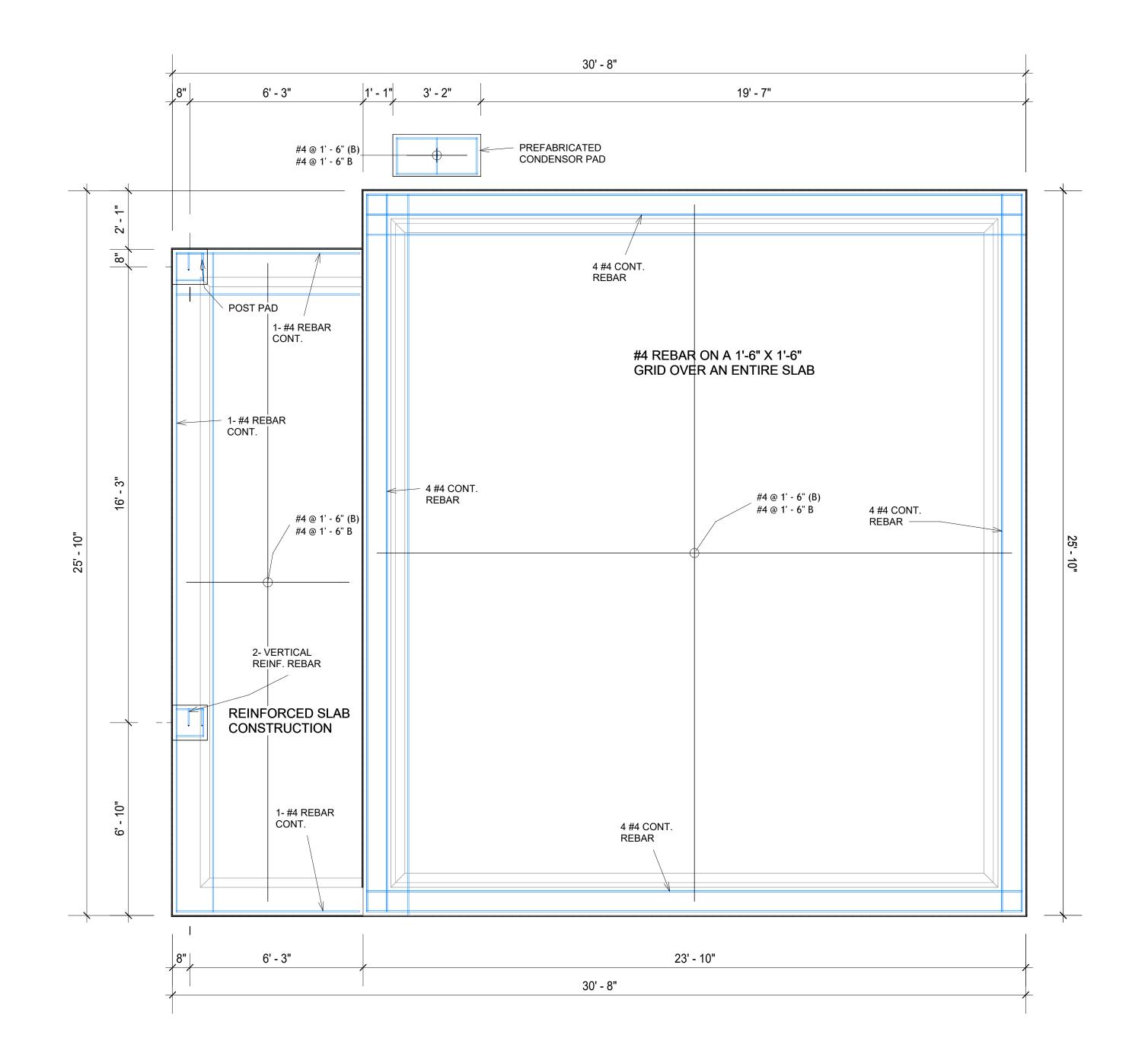
 ALL REINFORCING SLABS BARS SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE TO ASTM-A706, AND BARS SMALLER THAN 10 MM MAYBE PLAIN.
 UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:

> A) FOOTING = 40,000 PSI B) NON-LOAD BEARING WALLS AND PARAPETS= 40,000 PSI

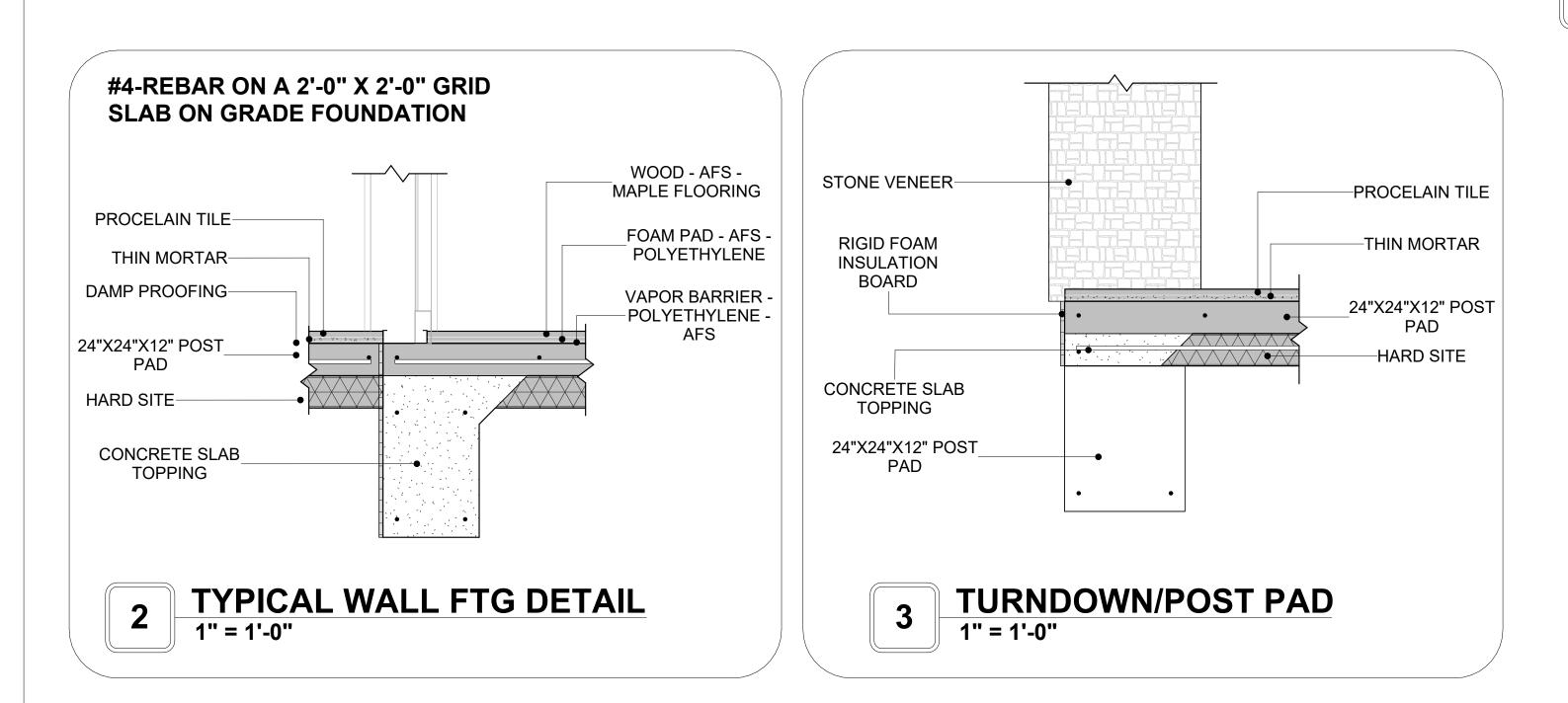
- 3. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND
- 4. GRADE OF STEEL FOR RCC WORKS SHALL BE GRADE 4 10.
- 5. BAR NOTATIONS GIVES INFORMATION
- A) BAR SIZE
- B) SPACING(IF REQUIRED)
- 6. LAP REINFORCEMENT ONLY AT LOCATION SHOWN IN THE DRAWINGS
 7. REINFORCEMENT SHALL NOT BE CLIT, VENT OR HEATED ON SITE WITHOLT I
- 7. REINFORCEMENT SHALL NOT BE CUT, VENT OR HEATED ON SITE WITHOUT ENGINEERS' APPROVAL.
- C) CONCRETE SLAB NOTES
- 1. ALL SLAB REINFORCEMENT SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM TOP OF SLAB.
- 2. REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS.

NOTE

- THIS IS A SCHEMATIC PLAN FOR THE PURPOSE OF LOCATING AND IDENTIFYING FOUNDATION REINFORCING ELEMENTS ONLY. VERIFY ALL DIMENSIONS, DROPS, OFFSETS AND FEATURES WITH THE ARCHITECTURAL PLANS BEFORE FORMING THE FOUNDATION.



1 FOUNDATION REBAR PLAN
3/8" = 1'-0"





KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

STRUCTURAL FLOOR PLAN

CLIENT NAME:

PROJECT NUMBER:

0033_15

DATE:

5/13/2025 10:07:29 AM

DESIGNED BY:

DRAWN BY:

CHECKED BY:

Checker

S102

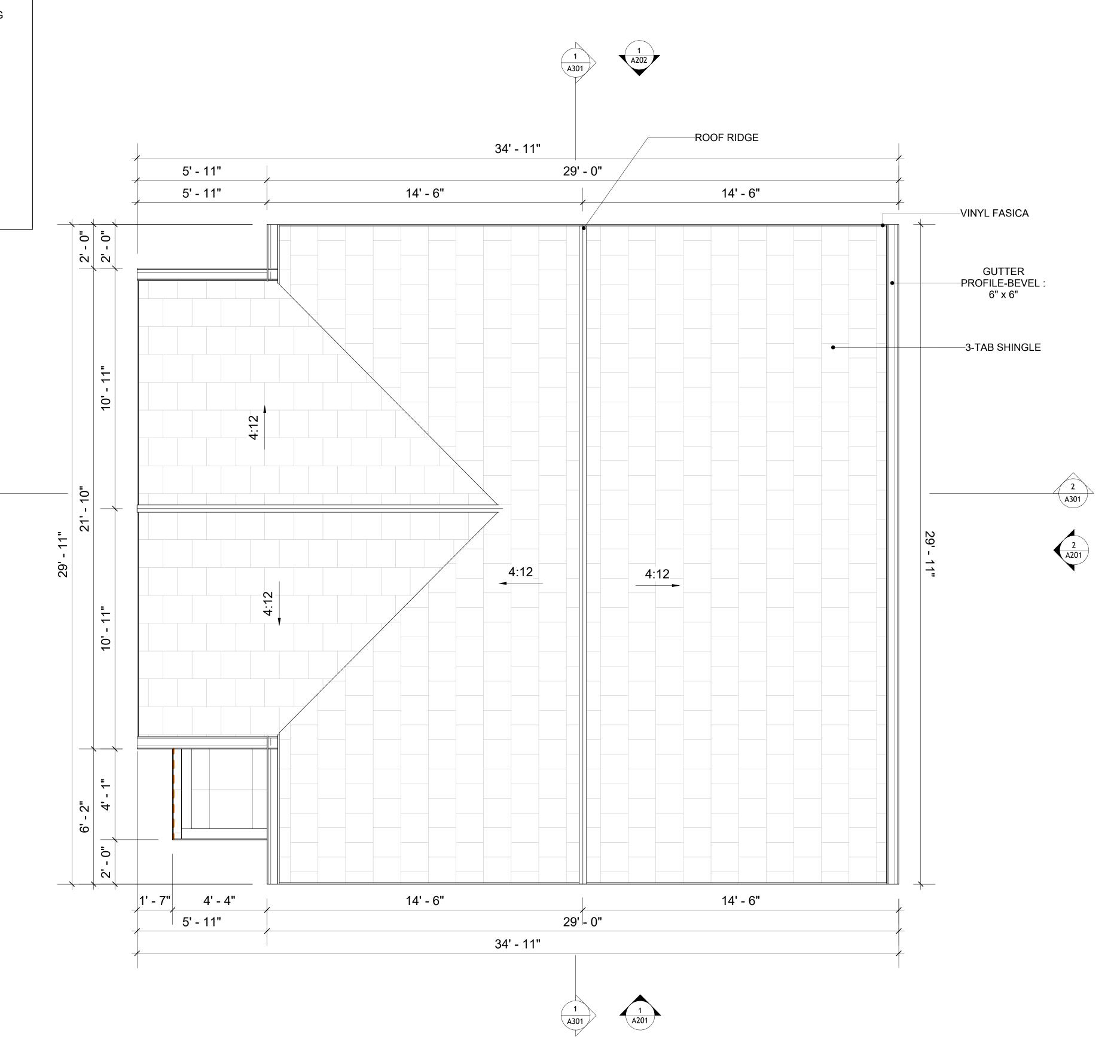
ROOF NOTES

- 1. ROOFING COMPOSITION ROOFING PER OWNERS/BUILDERS SPECIFICATIONS INSTALL PER MANUFACTURE SPECIFICATIONS ON 1/2" ORIENTED STRAND BOARD ON PRE-ENGINEERED TRUSS @ 24" O.C. (UNO.)
- 2. 73" OVERHANG AT EAVES (UNO.)
- 3. ENDS OF ALL TRUSSES AND JOISTS TO BE FULLY BLOCKED. PROVIDE SOLID BLOCKING AT ALL RIDGES AND VALLEYS
- 4. SHEATHING TO BE 1/2", 3/8" OSB SHEAR PANEL AND EQUIVALENT. UNDERSIDE OF PORCH TRUSSES TO BE FINISHED WITH MOISTURE RESISTANT DRYWALL, TAPED AND TEXTURED.
- 5. EXPOSED EAVES AND OTHER WEATHER EXPOSED AREAS TO BE SHEATHED WITH EXTERIOR GRADE PLYWOOD.
- 6. ALL MATERIALS THICKNESS AND SIZE ARE THE MINIMUM. Refer TO LOCAL STANDARDS FOR ACTUAL THICKNESS AND LAYERING OF MATERIALS.

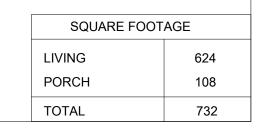
2 A202

- 7. ENGINEERED TRUSS CALCULATIONS TO BE SUBMITTED TO BUILDING DEPARTMENT PRIOR TO FABRICATION AND INSTALLATION.
- 8. TRUSS MANUFACTURER TO SPECIFY HANGER CONNECTORS FOR TRUSS COMPONENTS (TYPICAL)
- 9. DESIGNER ASSUMES THAT TRUSSES BEAR ON ALL EXTERIOR PERIMETER WALLS
- (TYPICAL) OR BEAMS.

 10. PROVIDE GALVANIZED STEEL FLASHING WITH A LENGTH OF 10 FEET, WIDTH OF 12 INCHES, AND THICKNESS OF 24 GAUGE.









KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

ROOF PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:32 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A103

ABOUT WALL FINISHING

PLYWOOD WALL SIDING

WALL SIDING IS AN EXTERIOR CLADDING MATERIAL USED TO COVER AND PROTECT THE WALLS OF A BUILDING, PROVIDING BOTH FUNCTIONAL AND AESTHETIC BENEFITS.

IN THIS SPECIFIC PROJECT, PLYWOOD WALL PANELS ARE USED AS A FINISH SIDING BECAUSE THIS TYPE OF SIDING PROVIDES A DURABLE, COST-EFFECTIVE, AND VERSATILE EXTERIOR CLADDING THAT CAN BE EASILY INSTALLED, FINISHED, AND MAINTAINED TO ENHANCE THE AESTHETIC AND PROTECTIVE QUALITIES OF A BUILDING'S EXTERIOR.

STANDARD SIZES OF 1' X 8' EXTERIOR-GRADE PLYWOOD PANELS ARE INSTALLED ON THE FURRING STRIPS USING GALVANIZED STEEL SELF-DRILLING SCREWS.

CEDAR WOOD

CEDAR WOOD REFERS TO THE WOOD FROM VARIOUS SPECIES OF CEDAR TREES, WHICH ARE CONIFEROUS EVERGREEN TREES KNOWN FOR THEIR DISTINCT AROMA AND NATURAL RESISTANCE TO DECAY AND INSECTS.

IN THIS SPECIFIC PROJECT, CEDAR WOOD IS USED AS A FURRING STRIP AND A FINISH MATERIAL ON BEAMS AND COLUMNS.

CEDAR WOOD AS A FURRING STRIPS PROVIDE THERMAL INSULATION AND MOISTURE MANAGEMENT. THE VERTICAL CEDAR WOOD FURRING STRIPS ARE ATTACHED TO HOME WRAP USING CORROSION-RESISTANT FASTENERS (HOT-DIP GALVANIZED SCREWS), ENSURING PROPER PENETRATION INTO THE WALL FRAMING.

WOOD SHAKES

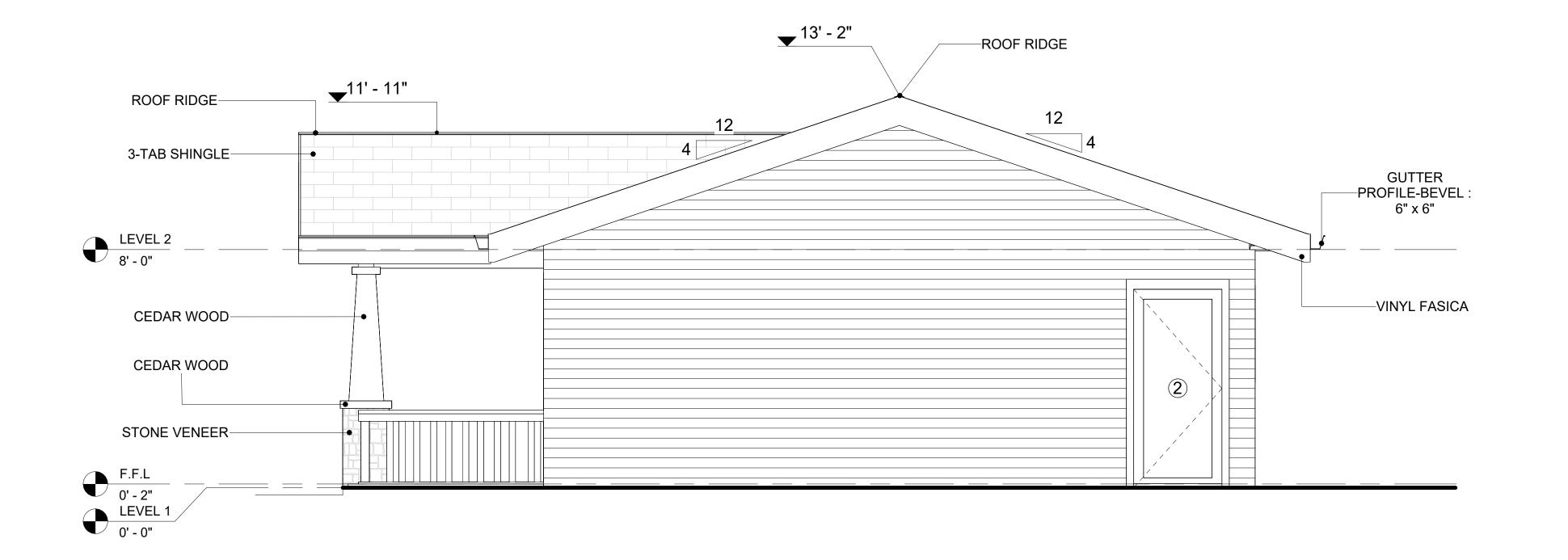
WOOD SHAKES ARE ROUGH-SAWN PIECES OF WOOD, TYPICALLY MADE FROM CEDAR OR REDWOOD, USED FOR ROOFING OR WALL CLADDING. THEY OFFER A RUSTIC, TEXTURED LOOK BUT REQUIRE REGULAR MAINTENANCE FOR DURABILITY AND PROTECTION AGAINST THE ELEMENTS.

IN THIS SPECIFIC PROJECT, WOOD SHAKES ARE APPLIED AT THE TOP OF THE EXTERNAL WALL, CREATING AN EYE-CATCHING DETAIL THAT COMPLEMENTS THE OVERALL ARCHITECTURE AND ENSURES A STURDY, WEATHER-RESISTANT FINISH.

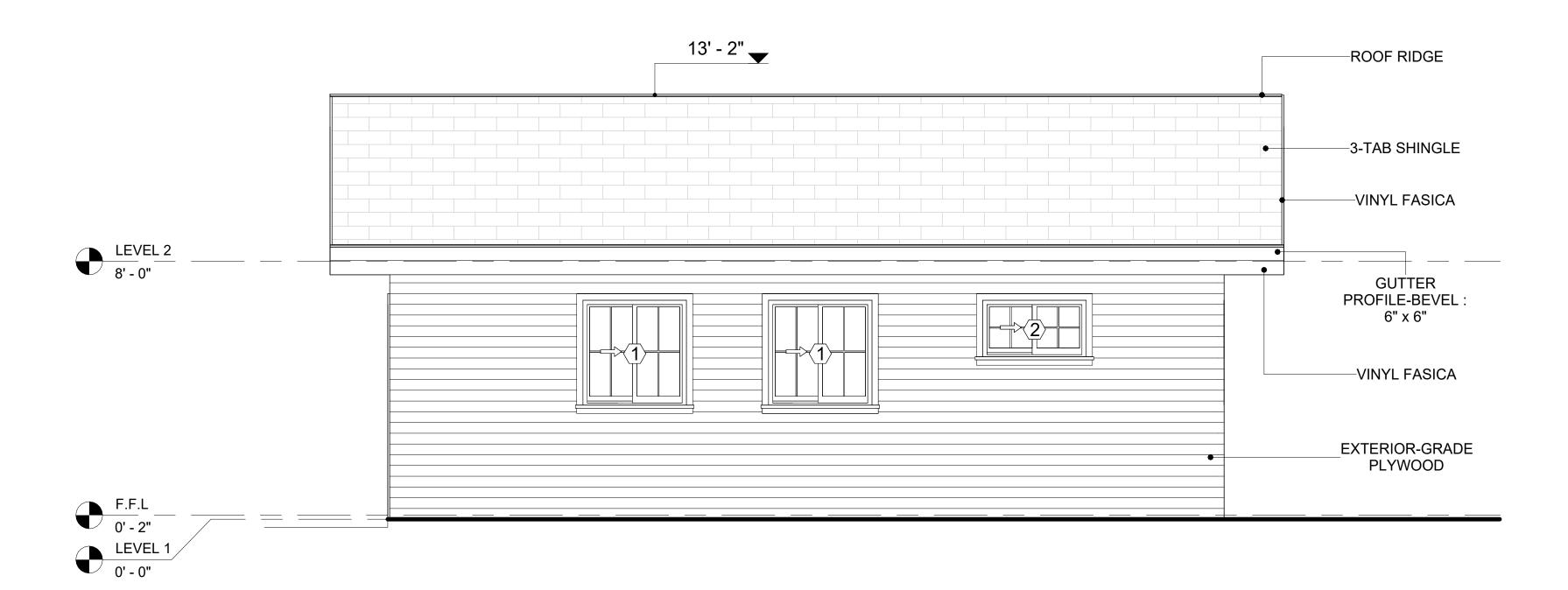
STONE VENEER

STONE VENEER REFERS TO THIN LAYERS OF NATURAL OR MANUFACTURED STONE APPLIED TO A STRUCTURAL WALL, KNOWN FOR THEIR REALISTIC APPEARANCE AND RELATIVE LIGHTNESS. THESE VENEERS PROVIDE THE AESTHETIC OF STONE WITHOUT THE COST AND WEIGHT OF FULL STONE CONSTRUCTION, CONTRIBUTING TO A BEAUTIFUL AND COST-EFFECTIVE EXTERIOR FINISH.

IN THIS SPECIFIC PROJECT, STONE VENEER IS USED A FINISH MATERIAL ON EXTERIOR FINISH.



1 FRONT ELEVATION 3/8" = 1'-0"



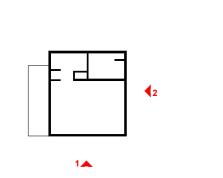
2 RIGHT SIDE ELEVATION 3/8" = 1'-0"

DOOR SCHEDULE						
TYPE MAR					SIZE	
K	SUPPLIER	DOOR TYPE	LOCATION	WIDTH	HEIGHT	COUNT
1	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
2	HOME DEPOT	EXTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	2
3	HOME DEPOT	DOOR-BIFOLD_9052	INTERIOR	2' - 4"	6' - 8"	1
4	HOME DEPOT	DOOR-BIFOLD_9052	INTERIOR	3' - 3"	6' - 8"	1
6	HOME DEPOT	DOOR-BIFOLD 9052	INTERIOR	4' - 10"	6' - 8"	1

WINDOW SCHEDULE					
				SIZE	
TYPE MARK	SUPPLIER	WINDOW TYPE	WIDTH	HEIGHT	COUNT
1	HOME DEPOT	SLIDING	3' - 3"	3' - 3"	4
2	HOME DEPOT	SLIDING	3' - 3"	1' - 9"	2



KEY PLAN



NO.	DESCRIPTION	DATE	

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:34 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A201

ABOUT WALL FINISHING

PLYWOOD WALL SIDING

WALL SIDING IS AN EXTERIOR CLADDING MATERIAL USED TO COVER AND PROTECT THE WALLS OF A BUILDING, PROVIDING BOTH FUNCTIONAL AND AESTHETIC BENEFITS.

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WOOD SHAKES

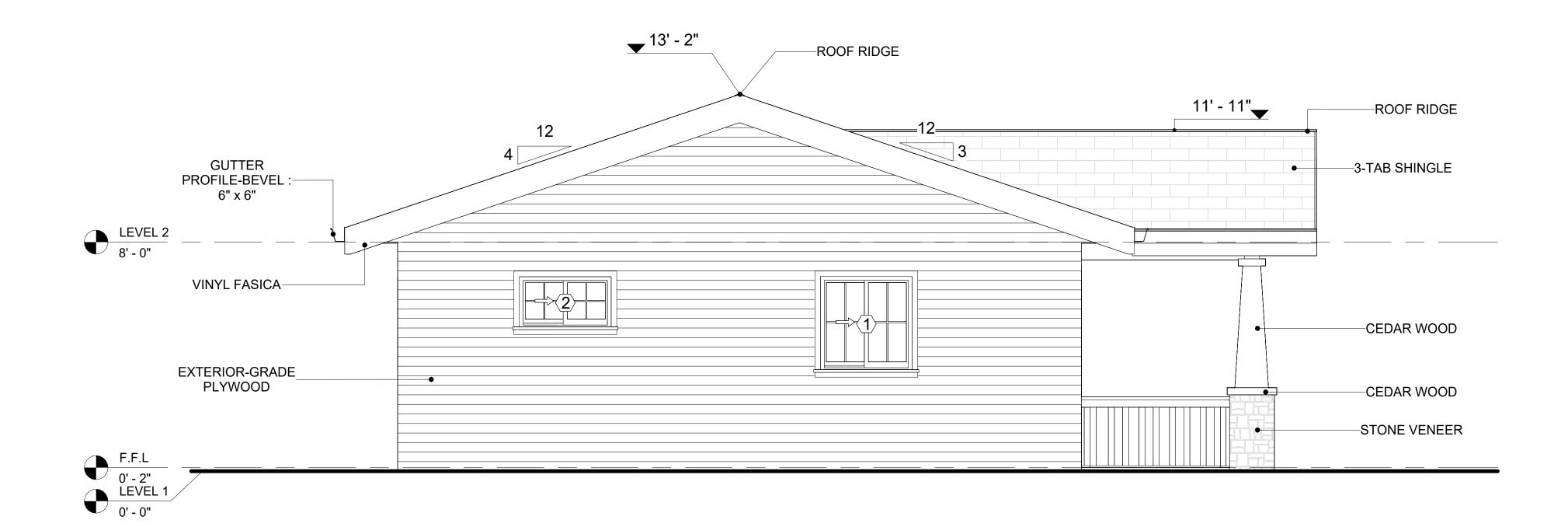
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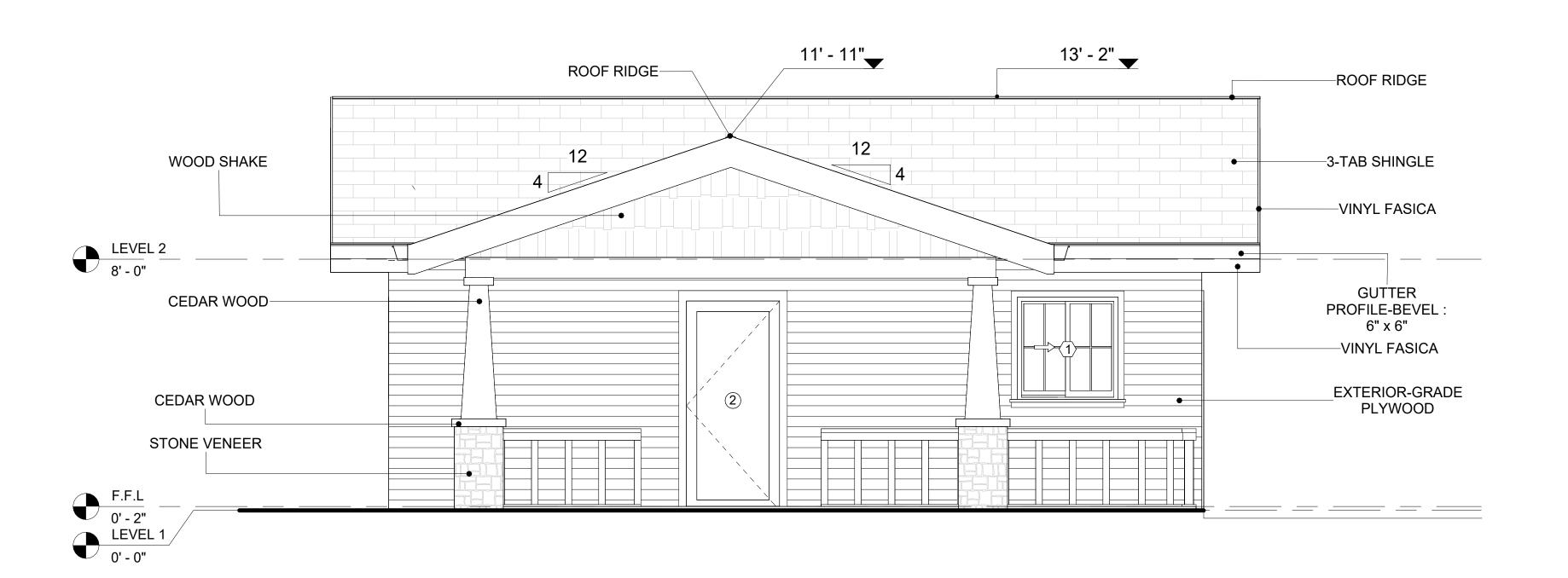
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IN THIS SPECIFIC PROJECT, STONE VENEER IS USED A FINISH MATERIAL ON EXTERIOR FINISH.



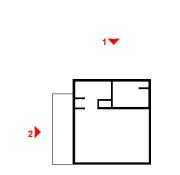
1 REAR ELEVATION
3/8" = 1'-0"



2 LEFT SIDE ELEVATION
3/8" = 1'-0"



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

CLIENT NAME:

PROJECT NUMBER:

0033_15

DATE:

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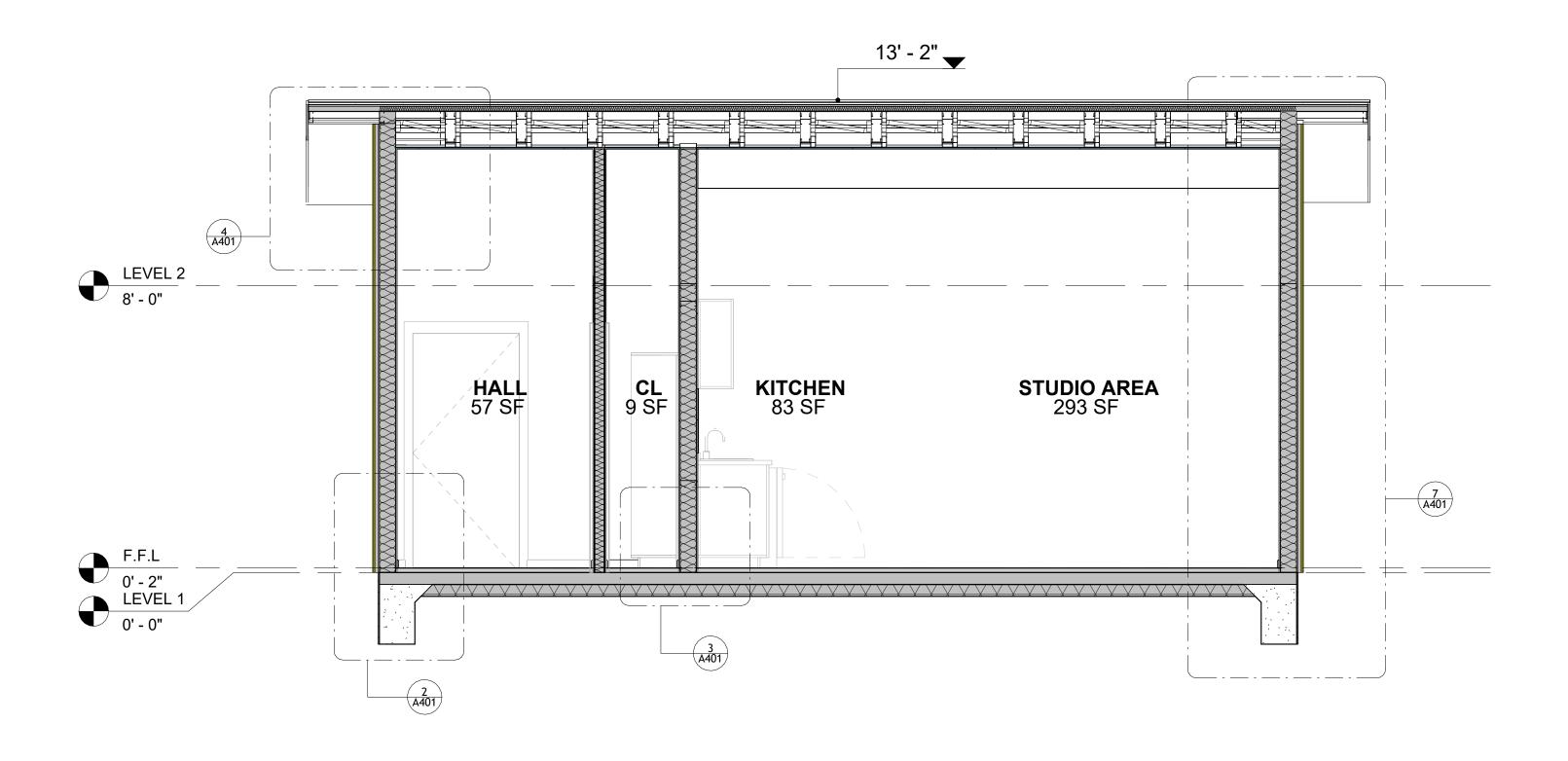
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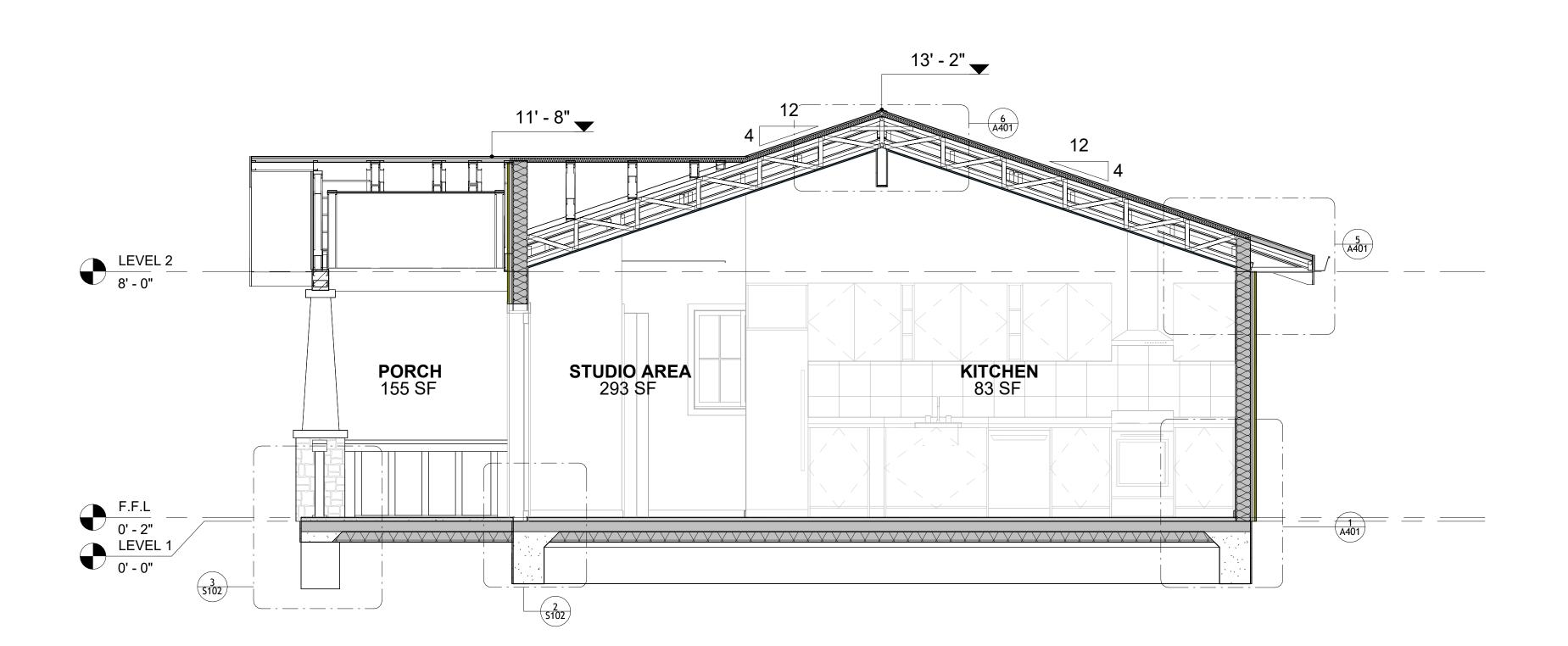
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A202



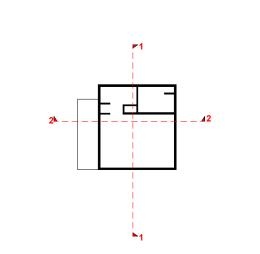
1 SECTION-1 3/8" = 1'-0"



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



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

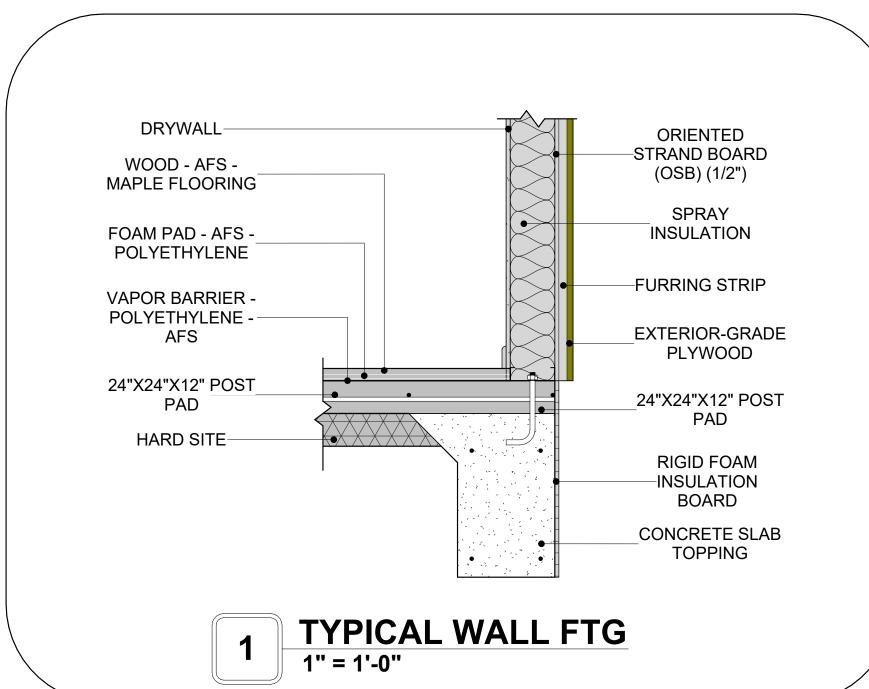
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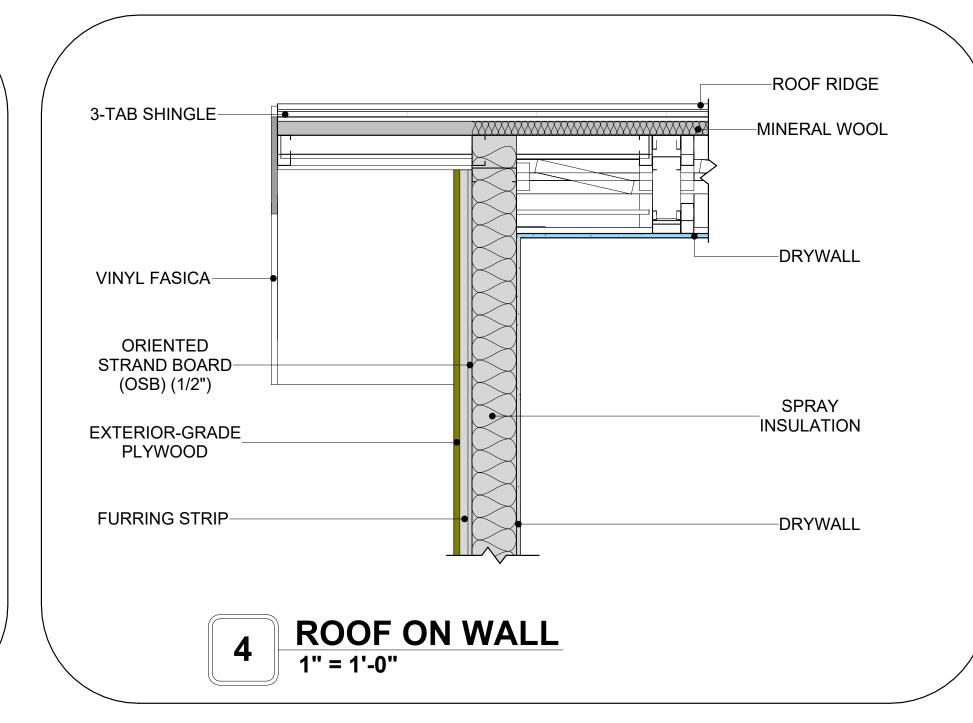
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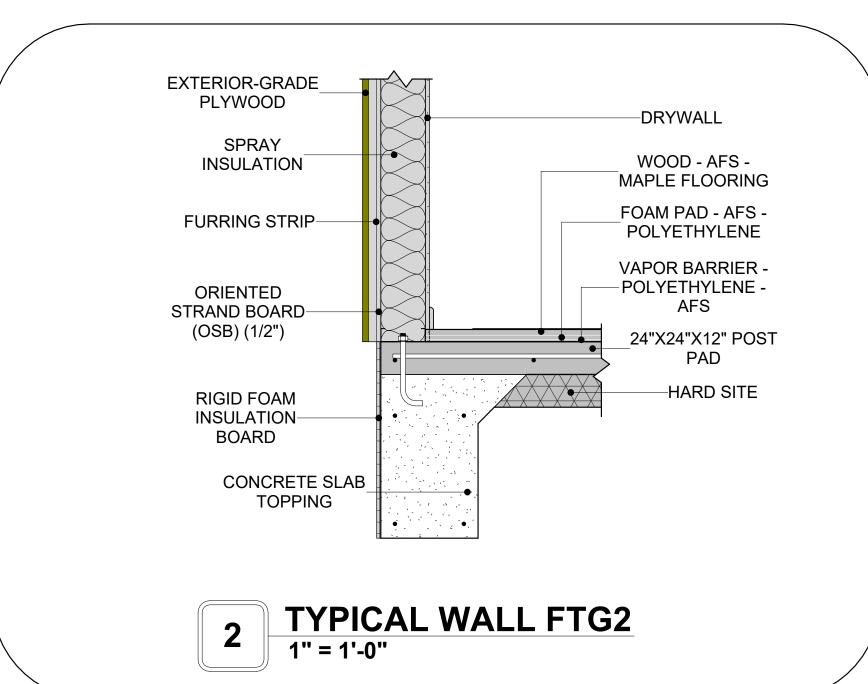
ARCHITECTURAL SECTIONS

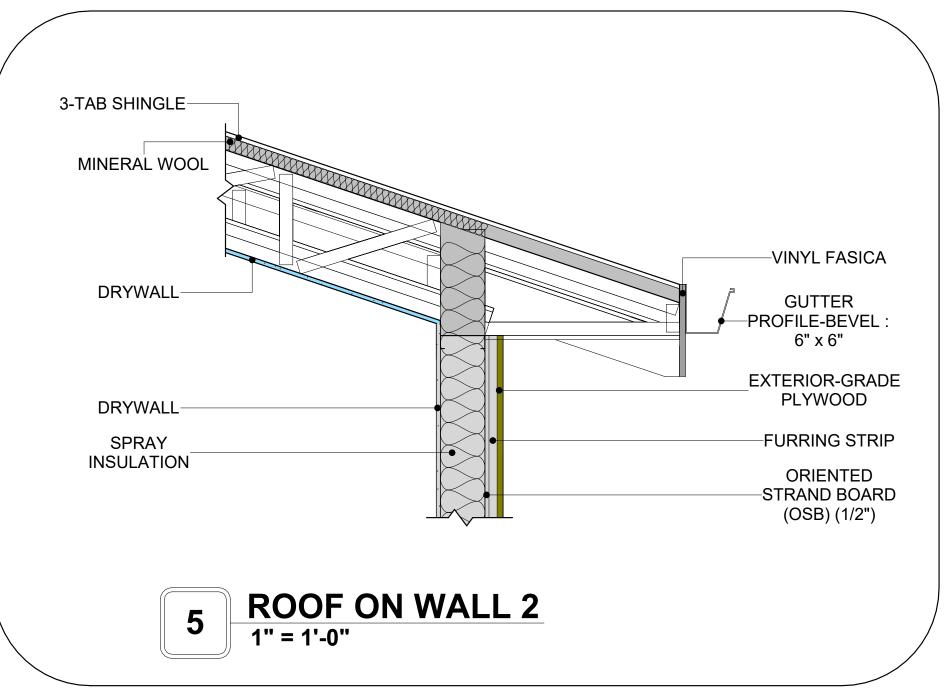
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DESIGNED BY:	Designer
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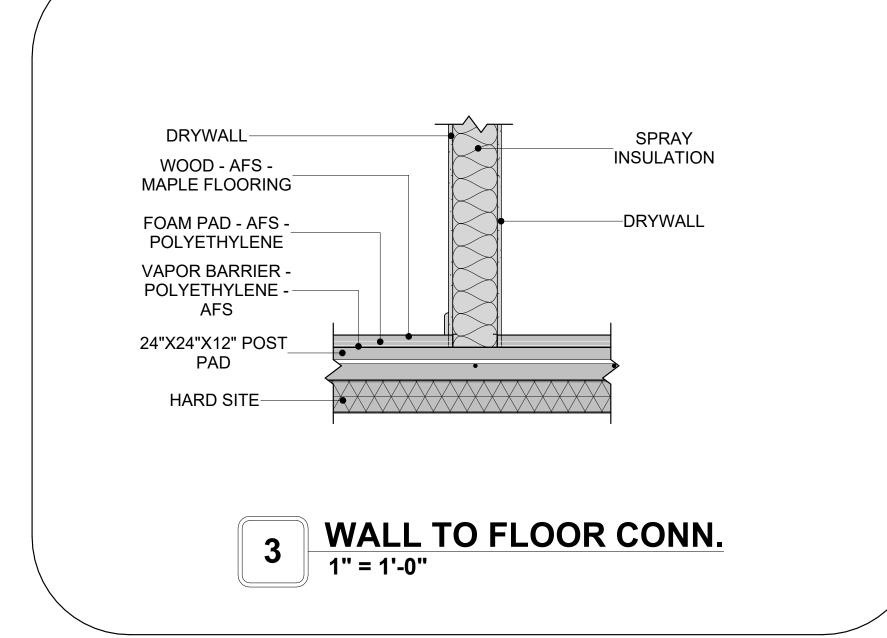
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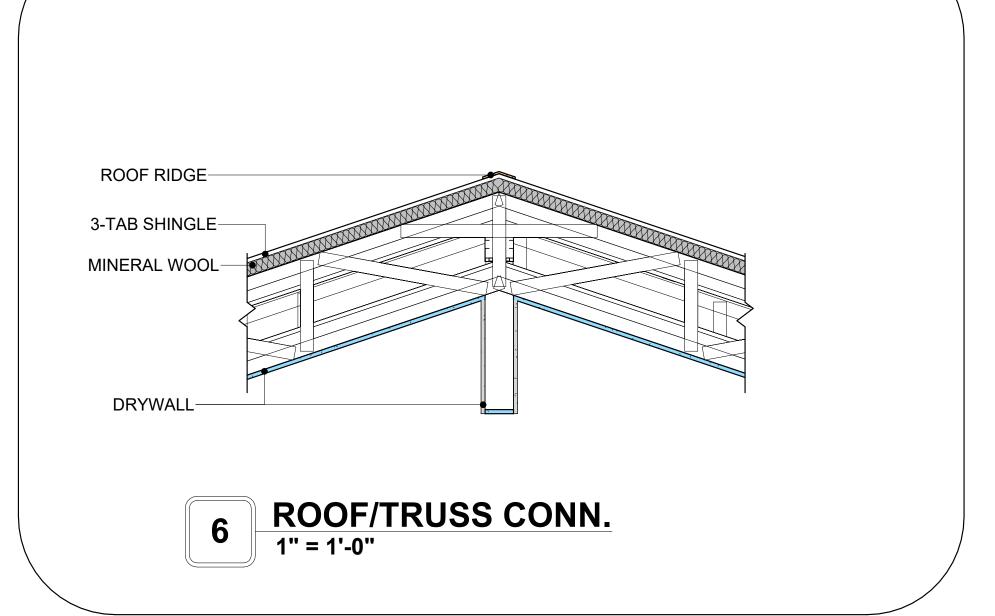


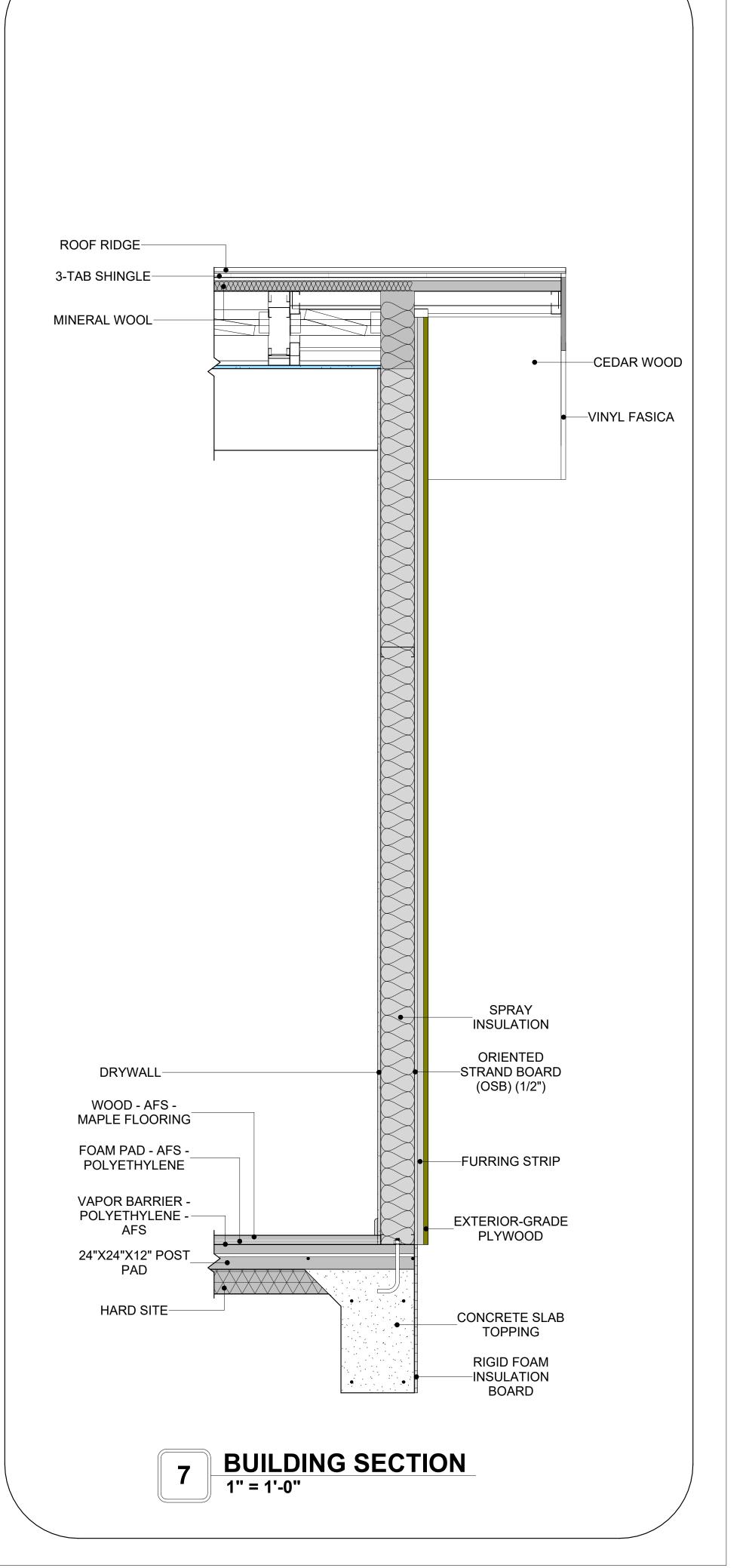














KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

ARCHITECTURAL DETAILS

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:40 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A401

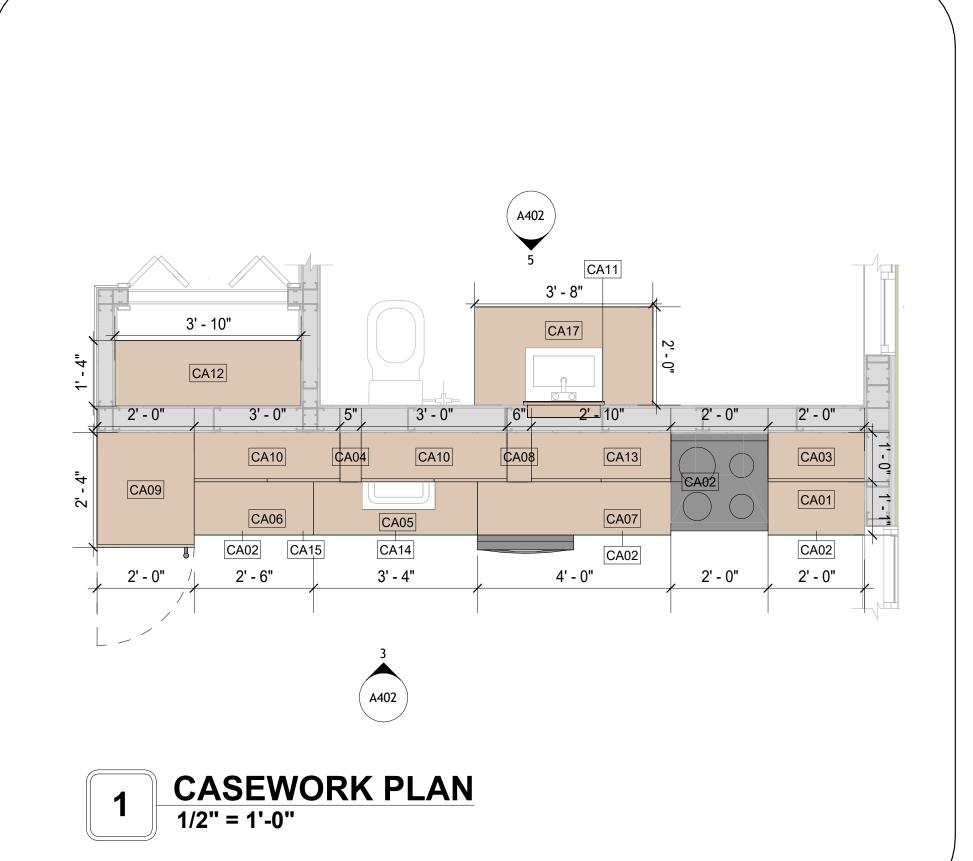
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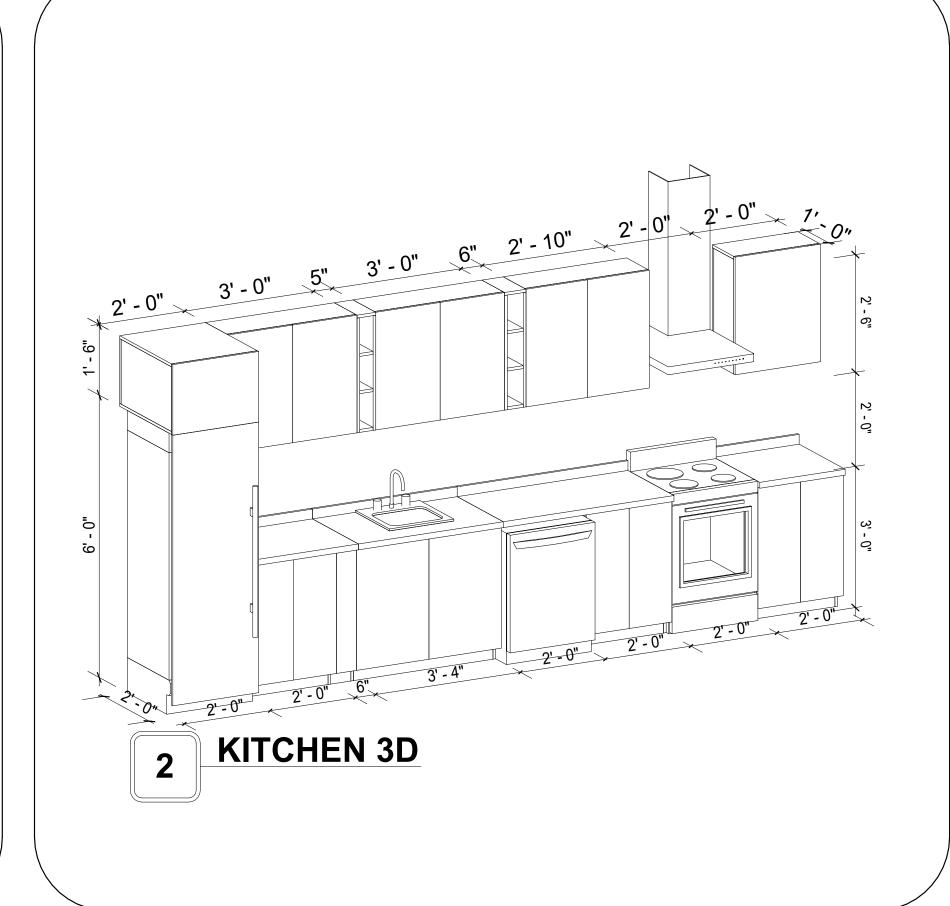
CASEWORK GENERAL NOTES

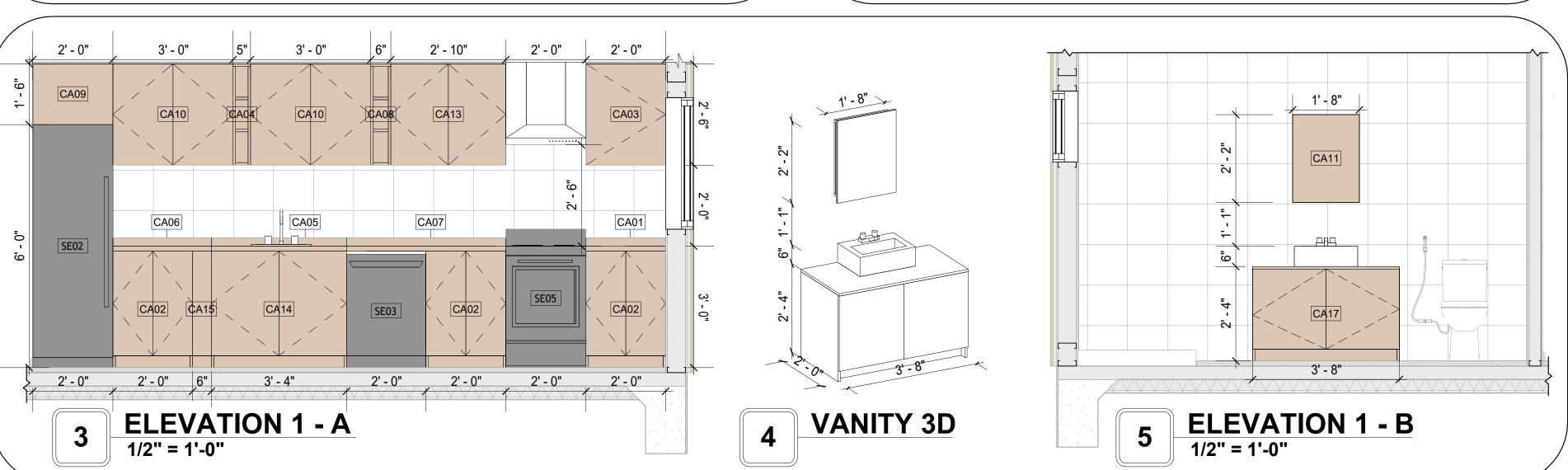
- ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH. DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE
- COUNTERTOP. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS AND
- OTHERWISE NOTED. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES
- DOTTED LINES INDICATE WALL HUNG CABINETS, DIVISIONS OF BASE CABINETS BELOW THE
- COUNTERTOP, FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS -SEE CASEWORK KEY AND SPECIFICATIONS.
- ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
 ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH
- LAMINATE.
- ALL CASEWORK WHICH MEETS A WALL AT ONE OR BOTH ENDS, TO BE PROVIDED WITH FILLER PANELS AND SCRIBED TO THE WALL(S) AS REQUIRED.
- 10. ALL CABINETS AND DRAWERS ARE PROVIDED WITH RECESSED HANDLES.
- 11. CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
- 12. CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT.

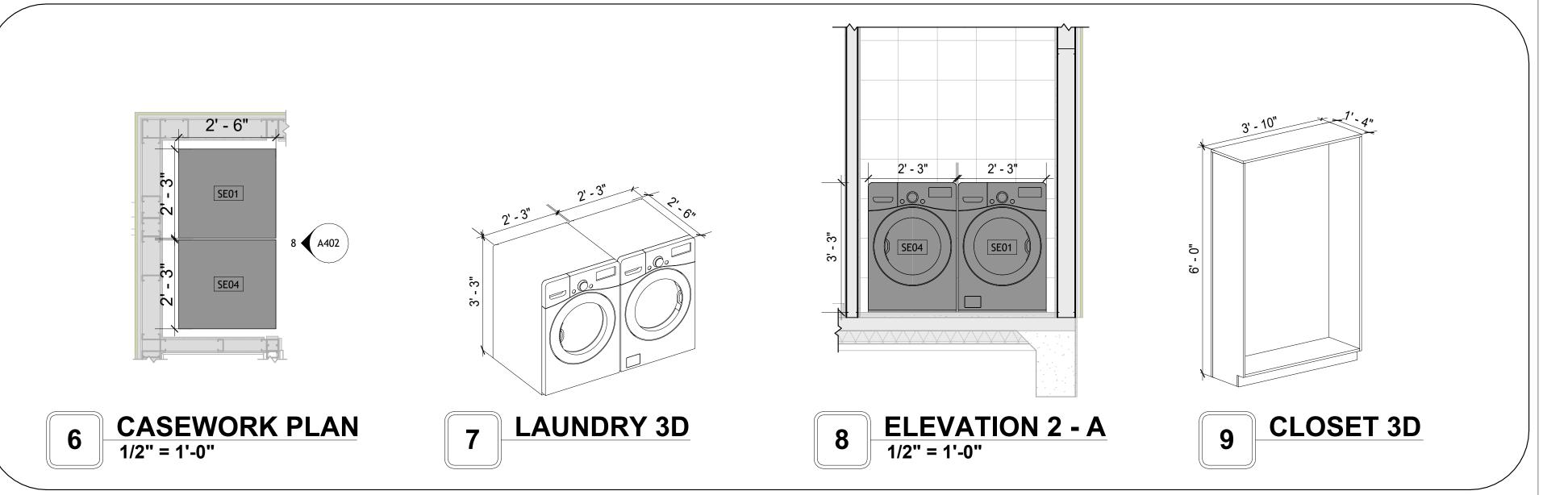
	CAS	EWOR	K SCHEDI	JLE		
TYPE MAR K	TYPE	COUN	HEIGHT	WIDTH	DEPTH	AREA
01	LINEAR COUNTER TOP 3	1	0' - 4"	2' - 0"	2' - 1"	1 SF
01	BASE CABINET DOUBLE DOOR 1	3	2' - 11"	2' - 0"	2' - 0"	6 SF
03	WALL CABINET SINGLE DOOR	1	2' - 6"	2' - 0"	1' - 0"	5 SF
03 04	WALL FILLER 2	1	2' - 6"	0' - 5"	1' - 0"	1 SF
05	HD LINEAR COUNTER TOP	1	0' - 4"	3' - 4"	2' - 1"	1 SF
06	LINEAR COUNTER TOP	1	0' - 4"	2' - 6"	2' - 1"	1 SF
07	HD_LINEAR_COUNTER_TOP 2	1	0' - 4"	4' - 0"	2' - 1"	1 SF
08	WALL FILLER	1	2' - 6"	0' - 6"	1' - 0"	1 SF
09	LAUNDRY OPEN CABINET	1	1' - 6"	2' - 0"	2' - 4"	3 SF
10	WALL CABINET DOUBLE DOOR	2	2' - 6"	3' - 0"	1' - 0"	8 SF
11	RECESSED_MED_CABINET	1	2' - 0"	1' - 6"	0' - 3"	3 SF
12	CLOSET 1	1	6' - 0"	3' - 10"	1' - 4"	23 SF
13	WALL CABINET DOUBLE DOOR 3	1	2' - 6"	2' - 10"	1' - 0"	7 SF
14	BASE CABINET DOUBLE DOOR	1	2' - 11"	3' - 4"	2' - 0"	10 SF
15	WALL FILLER 2	1	2' - 11"	0' - 6"	2' - 0"	1 SF
16	LINEN	1	5' - 11"	1' - 11"	1' - 4"	11 SF
17	VANITY_CABINET_3	1	2' - 4"	3' - 8"	2' - 0"	9 SF
GRAND	TOTAL	20			'	

	SPECIALTY EQUIPMENT SCHEDULE		
TYPE MARK	TYPE	COUNT	
01	WASHER-FRONT-LOAD	1	
02	REFRIGERATOR	1	
03	DISHWASHER	1	
04	DRYER-FRONT-LOAD	1	
05	RANGE	1	
GRAND TOTAL: 5	·		



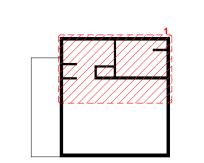








KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

ARCHITECTURAL CASEWORK

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/13/2025 10:07:42 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A402

GENERAL NOTES

1. THIS DRAWING DEPICTS THE HVAC (HEATING, VENTILATION, AND AIR CONDITIONING) SYSTEM FOR THE EMBER STUDIO CRAFTSMAN BASE. IT PROVIDES A VISUAL REPRESENTATION OF THE SYSTEM LAYOUT AND COMPONENTS.

2.THE HVAC SYSTEM IS DESIGNED TO MEET THE SPECIFIC REQUIREMENTS OF THE BUILDING, INCLUDING HEATING, COOLING, AND VENTILATION NEEDS, AS PER THE PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.

3. THE HVAC SYSTEM INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL RESIDENTIAL CODE (IRC), AND ALL OTHER APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.

4. THE EQUIPMENT SHOWN ON THIS DRAWING INCLUDES BUT IS NOT LIMITED TO AIR HANDLING UNITS (AHUS), CHILLERS, BOILERS, COOLING TOWERS, PUMPS, DUCTWORK, DIFFUSERS, GRILLES, AND CONTROL DEVICES.

5. ALL EQUIPMENT, DUCTWORK, AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, LOCAL CODES, AND

6. ALL DUCTWORK SHALL BE SIZED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACCA MANUAL D AND THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCTWORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PROPERLY SUPPORTED AND BRACED TO PREVENT SAGGING, AIR LEAKAGE, OR VIBRATION.

7. CONDENSATE DRAINAGE PIPING SHALL BE PROPERLY PITCHED TO ENSURE POSITIVE DRAINAGE TO AN APPROVED DISPOSAL LOCATION, SUCH AS A FLOOR DRAIN, SUMP PUMP, OR EXTERIOR GRADE. CONDENSATE LINES SHALL BE INSULATED TO PREVENT SWEATING.

8. THE LOCATION OF CONTROL PANELS AND SENSORS INDICATED ON THIS DRAWING CAN BEMODIFY WITH THE SPECIFIC LOCATIONS AND WIRING DETAILS WILL BE DETERMINED DURING THE CONTROL SYSTEM DESIGN AND INSTALLATION.

9. THE HVAC SYSTEM DESIGN CONSIDER ENERGY EFFICIENCY, INDOOR AIR QUALITY, OCCUPANT COMFORT, AND NOISE CONTROL, FOLLOWING APPLICABLE GUIDELINES AND REGULATIONS.

10. COORDINATION WITH OTHER TREADS HAS BEEN DONE ON A DESIGN LEVEL. THIS DRAWING SHALL BE READ TOGETHER WITH THE AR, EL AND SN DESIGN DRAWINGS TO ENSURE PROPER INSTALLATION AND INTEGRATION OF THE HVAC SYSTEMS.

11. THE HVAC CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND LICENSES, AND FOR SCHEDULING AND COORDINATING WITH THE LOCAL BUILDING DEPARTMENT AND UTILITY PROVIDERS TO ENSURE A TIMELY AND COMPLIANT INSTALLATION.

12. ALL DUCTWORK PENETRATIONS THROUGH WALLS, FLOORS, OR CEILINGS SHALL BE PROPERLY SEALED AND FIRE-STOPPED USING APPROVED METHODS AND MATERIALS TO MAINTAIN THE INTEGRITY OF THE BUILDING'S FIRE-RESISTANCE RATINGS.

13. HVAC EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB, AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE ADEQUATE CLEARANCES AROUND EQUIPMENT FOR PROPER AIRFLOW, SERVICE ACCESS, AND

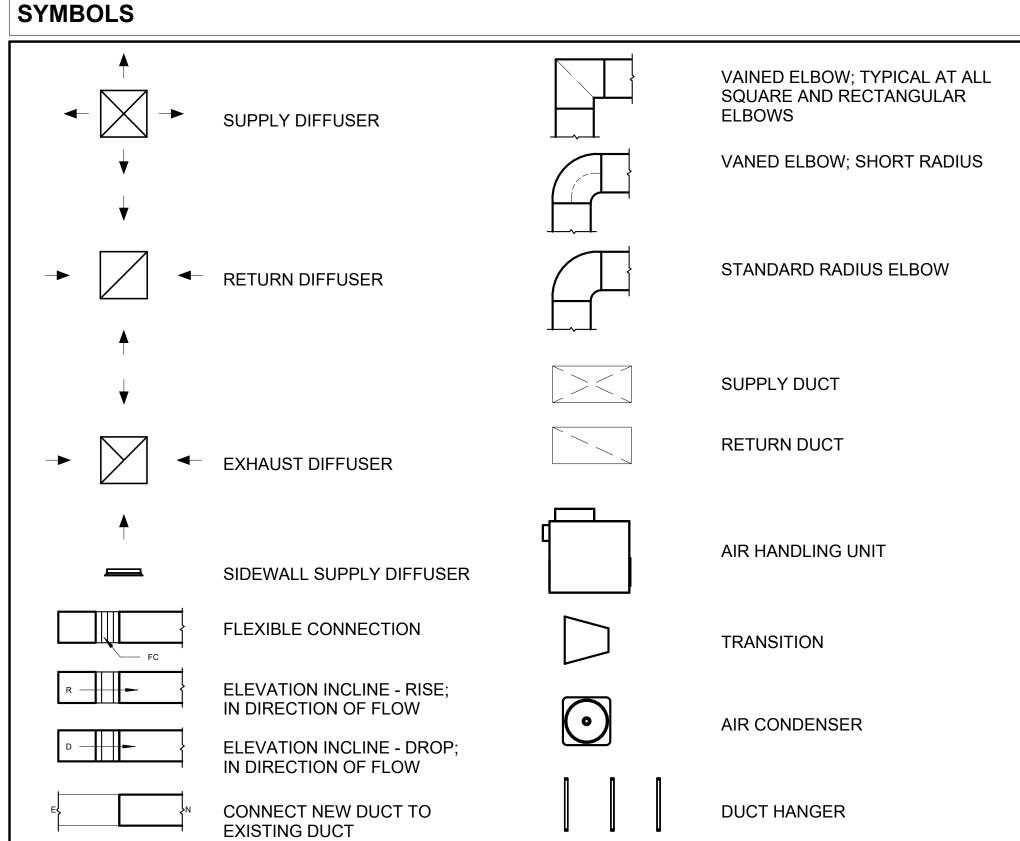
CODE COMPLIANCE. 14. ALL HVAC EQUIPMENT AND COMPONENTS, INCLUDING THERMOSTATS, DAMPERS, AND ACCESS PANELS, SHALL BE LOCATED IN ACCESSIBLE AREAS

15. THE HVAC SYSTEM SHALL BE BALANCED AND ADJUSTED TO ENSURE PROPER AIRFLOW, TEMPERATURE DISTRIBUTION, AND SYSTEM PERFORMANCE THROUGHOUT THE RESIDENCE. PROVIDE A WRITTEN REPORT DOCUMENTING THE FINAL SYSTEM BALANCE.

FOR EASY SERVICING AND MAINTENANCE. PROVIDE ADEQUATE SPACE AROUND EQUIPMENT FOR PROPER AIRFLOW AND SERVICE ACCESS.

16. ANY DEVIATIONS OR MODIFICATIONS TO THE HVAC SYSTEM DESIGN SHALL BE REVIEWED AND APPROVED BY THE RESPONSIBLE DESIGN PROFESSIONALS AND COMMUNICATED TO ALL RELEVANT PARTIES INVOLVED IN THE CONSTRUCTION PROCESS.

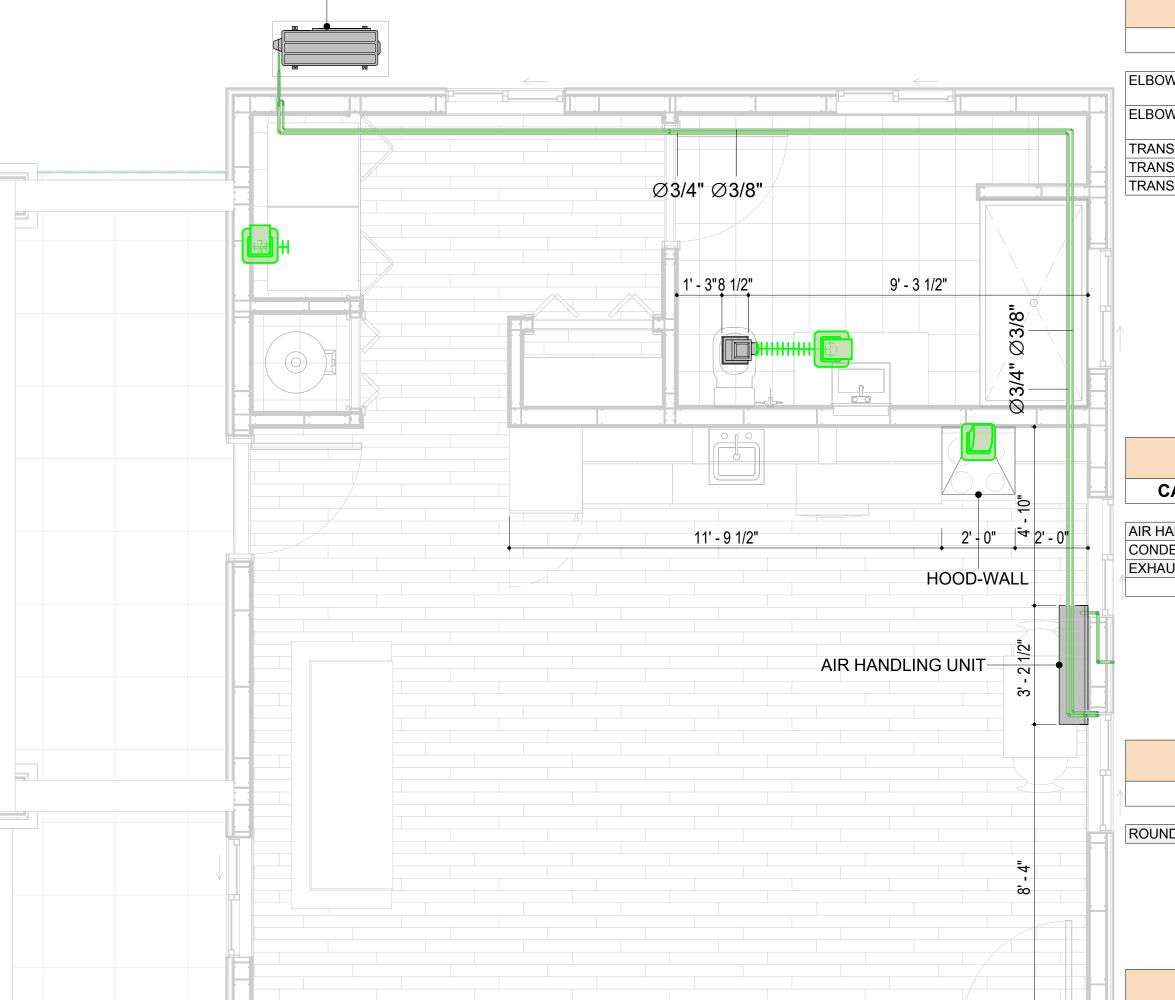
17. FOR ANY INQUIRIES OR CLARIFICATIONS REGARDING THE HVAC SYSTEM DESIGN, PLEASE CONSULT THE RESPONSIBLE DESIGN PROFESSIONALS OR THE PROJECT MANAGEMENT TEAM.



HVAC COLOR SCHEME

AIR CONDITIONING PIPE

REFRIGERANT LINE SCHEDULE			
CATAGORY	DESCRIPTION	DIAMETER	LENGTH
PIPE TYPES	COPPER	3/8"	50.44
PIPE TYPES	COPPER	3/4"	59.09



CONDENSER

CATAGORY	DESCRIPTION	Size	Count	
EL DOW, OFNEDIO	EL DOW OFNEDIO	0/411 0/411	145	
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/4"ø-3/4"ø	15	
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/8"ø-3/8"ø	13	
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/4"ø-1/2"ø	2	
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/4"ø-5/8"ø	1	
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/8"ø-1/4"ø	1	

MECHANICAL EQUIPMENT SCHEDULE					
CATAGORY	DESCRIPTION	COUNT			
AIR HANDLING UNIT	AIR HANDLING UNIT: WALL MOUNTED	1			
CONDENSER	CONDENSER: OUT DOOR	1			
EXHAUST FAN	EXHAUST FAN: 75 CFM	1			
	HOOD-WALL: VENT	1			

DUCT FITTING SCHEDULE							
CATAGORY	DESCRIPTION	COUNT					
ROUND TRANSITION - ANGLE	45 DEGREE	5					

DUCT ACCESSORY SCHEDULE					
CATAGORY	DESCRIPTION	COUNT			
ROOF VENT	3" DIAMETER	3			

1	HVAC PLAN
	3/8" = 1'-0"

FLEX DUCT SCHEDULE								
DESCRIPTION	DESCRIPTION	LENGTH	DIAMETER	COUNT				
FLEX DUCT ROUND	FLEX-ROUND	13.20	4"	3				
GRAND TOTAL: 3		13.20		-				



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

HVAC PLAN

	CLIENT NAME:	Owner
_	PROJECT NUMBER:	15_0001
	DATE:	5/10/2025 7:36:25 AM
_	DESIGNED BY:	Designer
-	DRAWN BY:	Author
	CHECKED BY:	Checker

M101

SCALE: As indicated

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ELECTRICAL NOTES

- 1. THIS DRAWING DEPICTS THE ELECTRICAL SYSTEM FOR THE 234-EMBER-624-STUDIO CRAFTSMAN-BASE-550. IT PROVIDES A VISUAL REPRESENTATION OF THE ELECTRICAL LAYOUT AND COMPONENTS, INCLUDING POWER DISTRIBUTION, LIGHTING, AND CONTROL SYSTEMS.
- 2. THE ELECTRICAL SYSTEM IS DESIGNED TO MEET THE SPECIFIC REQUIREMENTS OF THE BUILDING, INCLUDING POWER DISTRIBUTION, LIGHTING, AND SPECIALIZED ELECTRICAL EQUIPMENT NEEDS, AS PER THE PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.
- 3. THE ELECTRICAL SYSTEM INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC), AND ALL OTHER APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- 4. LOCATIONS AS NEEDED, DEVICES ARE SHOWN ON PLANS IN APPROXIMATE IDEAL LOCATIONS, UNLESS SPECIFICALLY DIMMENSIONED.
- 5. OPEN WALLS AS NEEDED TO ALLOW FOR NEW ELECTRICAL INSTALLATIONS.
- 6. LABEL ALL CIRCUITS ON JUNCTION BOXES, RECEPTACLES, DATA, SMOKE DETECTOR, AND EQUIPMENT IN PANEL BOX.
- 7. INSTALL RACEWAY AS NEEDED FOR DDC, ACCESS CONTROL, LOW VOLTAGE WIRING & DATA.
- 8. RELABEL POWER, DATA & FIRE ALARM FOR ROOM #CHANGES.
- 9. VERIFY ALL CIRCUITS LABELED ON PRINT ARE CORRECT BEFORE WORKING ON THEM.
 10. NOTE ON SITE PLAN ALL CHANGES OR MISSING DETAIL TO BE INCORPORATED INTO THE MASTER PLAN.
- 11. DRAWINGS ARE DIAGRAMMATIC ONLY FOR THE PURPOSE OF SHOWING FIXTURE AND OUTLET LOCATIONS.
- 12. ELECTRICAL CONTRACTOR TO VERIFY SERVICE SIZE BY CALCULATION BASED UPON ACTUAL NAME PLATE RATINGS OF SELECTED FOLIPMENT
- PLATE RATINGS OF SELECTED EQUIPMENT.

 13. VERIEV LOCATION OF SERVICE ENTRANCE WITH POWER COMPANY PROVIDE LIFER GROUND IN
- 13. VERIFY LOCATION OF SERVICE ENTRANCE WITH POWER COMPANY. PROVIDE UFER GROUND IN BUILDING FOUNDATION AT SERVICE ENTRANCE LOCATION.
- 14. PROVIDE A MIN. OF 20 FEET OF ONE *4 BARE COPPER UFER WIRE EMBEDDED IN CONCRETE FOOTING AT THE SERVICE ENTRANCE LOCATION WHERE APPROVED BY LOCAL SERVICE PROVIDER.
- 15. PROVIDE WATERPROOF FIXTURES IN ALL HIGH MOISTURE AREAS (EXTERIOR, SHOWER AND TUB
- CEILINGS ETC.)

 16 PROVIDE DEDICATED CIRCUITS TO EACH BATH, DEN, FAMILY ROOM, BEDROOM, LOFT, KITCHEN
- 16. PROVIDE DEDICATED CIRCUITS TO EACH BATH, DEN, FAMILY ROOM, BEDROOM, LOFT, KITCHEN REFRIGERATOR, KITCHEN FREEZER DISHWASHER, AND ANY AREA/ITEM SPECIFIED BY OWNER.
- 17. INCANDESCENT FIXTURES WITH OPEN OR PARTIALLY ENCLOSED LAMPS, PENDANT FIXTURES, AND LAMP HOLDERS ARE NOT PERMITTED IN CLOSETS.
- 18. ALL WORKMANSHIP AND MATERIALS TO CONFORM WITH THE 2015 IRC.
- 19. PROVIDE A MIN. OF 20 FEET OF ONE *4 BARE COPPER UFER WIRE EMBEDDED IN CONCRETE FOOTING AT THE SERVICE ENTRANCE LOCATION WHERE APPROVED BY LOCAL SERVICE PROVIDER.
- 20. PROVIDE A BONDING CONDUCTOR CONSISTING OF A MINIMUM OF ONE *4 BARE COPPER WIRE CONNECTING THE BUILDING'S METAL WATER PIPING SYSTEM TO THE SERVICE EQUIPMENT ENCLOSURE GROUNDING.

MAIN PANEL CALCS

(USE 200 AMP SERVICE)

ELECTRICAL CALCS	
LIGHT AND OUTLETS 624 @ 3W	1,872 W
3 APPLIANCE CIRCUITS	4,500 W
DRYER	2,000 W
WASHER	2,000 W
RANGE	5,000 W
WATER HEATER	5,000 W
REFRIG.	1,800 W
DISHWASHER & DISPOSAL	3000 W
TOTAL	25,172 W
FRIST 10,000 @ 100% REMAINDER @ 40% MINI. SPLIT UNITS	10,000 W 6,069W 10,000 W
TOTAL	26,069W
26,069 W DIVIDED BY 240V = 1	109 AMPS TOTAL

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	CTR	CENTER	HT	HEIGHT
A	AMPERE	CU	COPPER	HTG	HEATING
AC	ABOVE COUNTER OR AIR CONDITIONER	DCP	DOMESTIC WATER CIRCULATING PUMP	HTR	HEATER
	ABOVE COUNTER OR AIR CONDITIONER ABOVE CEILING	DEPT	DEPARTMENT	HV	HIGH VOLTAGE
ACLG					
ADO	AUTOMATIC DOOR OPENER	DET	DETAIL	HVAC	HEATING, VENTILATING AND AIR
AF	AMP FRAME	DIA	DIAMETER	CONDITIONING	CONDITIONING
AFF	ABOVE FINISHED FLOOR	DISC	DISCONNECT	HWP	HYDRONIC WATER PUMP
AFG	ABOVE FINISHED GRADE	DIST	DISTRIBUTION	IC	INTERRUPTING CAPACITY
AFI	ARC FAULT CIRCUIT INTERRUPTER	DN	DOWN	IG	ISOLATED GROUND
AHU	AIR HANDLING UNIT	DPR	DAMPER	IMC	INTERMEDIATE METAL CONDUIT
AL	ALUMINUM	DS	SAFETY DISCONNECT SWITCH	INCAND	INCANDESCENT
ALT	ALTERNATE	DT	DOUBLE THROW	IR	INFRARED
AMP	AMPERE	DWG	DRAWING	I/W	INTERLOCK WITH
AMPL	AMPLIFIER	DDC	DIRECT DIGITAL CONTROL	J-BOX	JUNCTION BOX
ANNUN	ANNUNCIATOR APPROX APPROXIMATELY		ELECTRICAL CONTRACTOR	KV	KILOVOLT
AQ-STAT	AQUASTAT	ELEC	ELECTRIC, ELECTRICAL	KVA	KILOVOLT-AMPERE
ARCH	ARCHITECT, ARCHITECTURAL	ELEV	ELEVATOR	KVAR	KILOVOLT-AMPERE REACTIVE
AS	AMP SWITCH	EM	EMERGENCY	KW	KILOWATT
AT	AMP TRIP	EMS	ENERGY MANAGEMENT SYSTEM	KWH	KILOWATT HOUR
ATS	AUTOMATIC TRANSFER SWITCH	EMT	ELECTRICAL METALLIC TUBING	LOC	LOCATE OR LOCATION
AUTO	AUTOMATIC	EP	ELECTRIC PNEUMATIC	LT	LIGHT
AUX	AUXILIARY	EQUIP	EQUIPMENT	LTG	LIGHTING
AV	AUDIO VISUAL	EWC	ELECTRIC WATER COOLER	LTNG	LIGHTNING
AWG	AMERICAN WIRE GAUGE	EXIST	EXISTING	LV	LOW VOLTAGE
BATT	BATTERY	EXH	EXHAUST	MAX	MAXIMUM
BD	BOARD	EXP	EXPLOSION PROOF	MAG.S	MAGNETIC STARTER
BLDG	BUILDING	FA	FIRE ALARM	M/C	MOMENTARY CONTACT
BMS	BUILDING MANAGEMENT SYSTEM	FABP	FIRE ALARM BOOSTER POWER	MC	MECHANICAL CONTRACTOR
C	CONDUIT	SUPPLY PANEL	SUPPLY PANEL	MCB	MAIN CIRCUIT BREAKER
CAB	CABINET	FACP	FIRE ALARM CONTROL PANEL	MCC	MOTOR CONTROL CENTER
CAT	CATALOG	FCU	FAN COIL UNIT	MDC	MAIN DISTRIBUTION CENTER
CATV	CABLE TELEVISION	FIXT	FIXTURE	MDP	MAIN DISTRIBUTION PANEL
СВ	CIRCUIT BREAKER	FLR	FLOOR	MFR	MANUFACTURERMAIN FUSED
CCTV	CLOSED CIRCUIT TELEVISION	FLUOR	FLUORESCENT		DISCONNECT SWITCH
CKT	CIRCUIT	FU	FUSE	MH	MANHOLE
CLG	CEILING	FUDS	FUSED SAFETY DISCONNECT SWITCH	MIC	MICROPHONE
COMB	COMBINATION	GA	GAUGE	MIN	MINIMUM
CMPR	COMPRESSOR	GAL	GALLON	MISC	MISCELLANEOUS
CONN	CONNECTION	GALV	GALVANIZED	MLO	MAIN LUGS ONLY
CONST	CONSTRUCTION	GC	GENERAL CONTRACTOR	MMS	MANUAL MOTOR STARTER
CONT	CONTINUATION OR CONTINUOUS	GEN	GENERATOR	MOA	MULTIOUTLET ASSEMBLY
CONTR	CONTRACTOR	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MSP	MOTOR STARTER PANELBOARD
CONV	CONVECTOR	GFP	GROUND FAULT PROTECTOR	MSBD	MAIN SWITCHBOARD
CP	CIRCULATING PUMP	GND	GROUND	MT	MOUNT
CRT	CATHODE-RAY TUBE	GRS	GALVANIZED RIGID STEEL (CONDUIT)	MT.C	EMPTY CONDUIT
CT	CURRENT TRANSFORMER	GYP BD	GYPSUM BOARD	UL	UNDERWRITERS LABORATORIES
		0 55			

Branch Panel:

Location: HALL 04
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 1 A

Notes:

Circuit Numb er		Number of Elements	Rating	Length	Wire Size	A			3	Wire Size	Length	Rating	Number of Elements	Circuit Description	Circu Numb er
1	BATH GFCI	7	20 A	19' - 2 17/32"	1-#12, 1-#12, 1-#12	576 VA	2500 VA			2-#10, 1-#10, 1-#10	23' - 2 5/16"	30 A	1	DRYER	2
3	WASHER	1	20 A	25' - 0 1/16"	1-#12, 1-#12, 1-#12			1200 VA	2500 VA						4
5	WATER HEATER	1	30 A	28' - 9 1/8"	2-#10, 1-#10, 1-#10	2250 VA	420 VA			1-#12, 1-#12, 1-#12	27' - 2 25/32"	20 A	9	HALL & KITCHEN LIGHT	6
7								2250 VA	1800 VA	1-#12, 1-#12, 1-#12	19' - 8 3/8"	20 A	1	REFRIGERATOR	8
9	KITCHEN GFCI	4	20 A	28' - 7 5/32"	1-#12, 1-#12, 1-#12	720 VA	1200 VA			1-#12, 1-#12, 1-#12	25' - 1 5/32"	20 A	1	DISHWASHER	10
11	RANGE	1	50 A	26' - 7 7/32"	2-#8, 1-#8, 1-#10			2500 VA	2500 VA	2-#6, 1-#6, 1-#10	18' - 2 1/16"	60 A	1	CONDENSER	12
13						2500 VA	2500 VA								14
15	OUTDOOR GFCI	4	20 A	44' - 5 5/32"	1-#12, 1-#12, 1-#12			720 VA							16
17	LIVING LIGHT	9	15 A	37' - 8 5/8"	1-#14, 1-#14, 1-#14	265 VA	100 VA			1-#12, 1-#12, 1-#12	30' - 8 1/4"	20 A	1	OUTDOOR LIGHT	18
19	LIV. RECEPATCEL	6	20 A	45' - 6 11/16"	1-#12, 1-#12, 1-#12			1080 VA							20
21															22
23															24
25															26
	1					13023	3 VA	1455	50 VA						1
						13023 109		1	0 VA 1 A						

Connected Load	Demand Factor	Estimated Demand	Panel	Totals
200 VA	100.00%	200 VA		
708 VA	100.00%	708 VA	Total Conn. Load:	27573 VA
5280 VA	100.00%	5280 VA	Total Est. Demand:	26573 VA
100 VA	100.00%	100 VA	Total Conn.:	115 A
5000 VA	100.00%	5000 VA	Total Est. Demand:	111 A
4500 VA	100.00%	4500 VA		
5000 VA	80.00%	4000 VA		
5000 VA	100.00%	5000 VA		
1800 VA	100.00%	1800 VA		
	200 VA 708 VA 5280 VA 100 VA 5000 VA 4500 VA 5000 VA	200 VA 100.00% 708 VA 100.00% 5280 VA 100.00% 100 VA 100.00% 5000 VA 100.00% 4500 VA 100.00% 5000 VA 80.00% 5000 VA 100.00%	200 VA 100.00% 200 VA 708 VA 100.00% 708 VA 5280 VA 100.00% 5280 VA 100 VA 100.00% 100 VA 5000 VA 100.00% 5000 VA 4500 VA 100.00% 4500 VA 5000 VA 80.00% 4000 VA 5000 VA 100.00% 5000 VA	200 VA 100.00% 200 VA 708 VA 100.00% 708 VA Total Conn. Load: 5280 VA 100.00% 5280 VA Total Est. Demand: 100 VA 100.00% 100 VA Total Conn.: 5000 VA 100.00% 5000 VA Total Est. Demand: 4500 VA 4500 VA 4500 VA 5000 VA 80.00% 4000 VA 5000 VA 100.00% 5000 VA

lotes:



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

SCHEDULE

CLIENT NAME:	Owner
PROJECT NUMBER:	0410_11
DATE:	5/9/2025 5:08:23 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E101

SCALE: 1/4" = 1'-0"

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ELECTRICAL NOTE

- A. PROVIDE INTERCONNECTED SMOKE ALARMS IN EACH SLEEPING ROOMS, OUTSIDE EACH SLEEPING ROOM, ON EACH STORY, IN THE HALL OR ADJACENT ROOM LUHERE THE CEILING HEIGHT OF A ROOM OPEN TO THE HALL EXCEEDS THE HALL BY 24'. SMOKE ALARMS SHALL BE PERMANENTLY HARD WIRED WITH BATTERY BACKUP.
- B. RECEPTACLE OUTLETS FOR RANGES AND CLOTHES DRYERS SHALL BE A THREE POLE WITH GROUND TYPE. FOUR WIRE GROUNDING-TYPE FLEXIBLE CORDS WILL BE REQUIRED FOR CONNECTION OF RANGES AND CLOTHES DRYERS. THE BONDING JUMPER SHALL NOT BE CONNECTED BETWEEN NEUTRAL TERMINAL AND THE FRAME OF THE APPLIANCE.
- C. TWO OR MORE 20 AMP SMALL APPLIANCE CIRCUITS SHALL BE PROVIDED TO SERVE THE KITCHEN, BREAKFAST NOOK, AND DINING ROOM. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- D. AT LEAST ONE 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SERVICE THE LAUNDRY ROOM. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.
- E. ALL RECEPTACLES WITH IN 6' OF A WET BAR SINK OR KITCHEN SINK TO SERVE COUNTER TOP SURFACES MUST BE GFCI. ON KITCHEN COUNTERS 12' OR WIDER NO POINT ALONG THE WALL SHALL BE MORE THAN 2' FROM A RECEPTACLE. ALL RECEPTACLES WITH IN 6' OF KITCHEN SINK MUST BE GFCI. AT LEAST ONE GFCI RECEPTACLE SHALL
- BE INSTALLED IN THE BATHROOM ADJACENT TO EACH BASIN.

 F. FIXTURES INCLUDING CEILING FANS THAT ARE LOCATED IN DAMP LOCATIONS SHALL BE LISTED TO BE SUITABLE FOR
- SUCH LOCATIONS PER 2012 IRC
- G. PROVIDE ONE (1) SWITCHED OUTLET @ ALL BEDROOMS AND DEN
 H. CEILING FANS NOT EXCEEDING 35 LBS. (WITH OR WITHOUT ACCESSORIES MAY BE SUPPORTED BY OUTLET BOXES PROVIDED THE OUTLET BOXES ARE IDENTIFIED FOR SUCH USE PER 2012 IRC
- I. ELECTRICAL OUTLET BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- J. OUTLET BOXES IN THE WALLS BETWEEN THE GARAGE AND DWELLING SHALL BE METAL OR U.L. APPROVED FIRE RESISTIVE PLASTIC. BOXES IN GARAGE CEILING SHALL BE METAL.
- K. ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLTS SINGLE PHASE 15 AND 20 AMPS RECEPTACLE OUTLETS INSTALLED IN THE DWELLING SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER, EXCEPT GFCI RECEPTICLES.

NOTE:

A. RECEPTACLES MUST BE PROVIDED IN HALLWAYS 10'-0" OR MORE IN LENGTH. FOR A ONE FAMILY DWELLINGS AND EACH OF A TWO FAMILY DWELLING THAT IS AT GRADE LEVEL, AT LEAST ONE WP-GFCI RECEPTACLE OUTLET ACCESSIBLE AT GRADE LEVEL AND NOT MORE THAN 6'-6" ABOVE GRADE SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING.

NOTE: APPLIANCE DISCONNECT

E4001.5 GROUNDING OF ENCLOSURES.

METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS SHALL BE CONNECTED TO AN

EQUIPMENT GROUNDING CONDUCTOR.

METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS USED AS SERVICE EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION E3609.4. WHERE

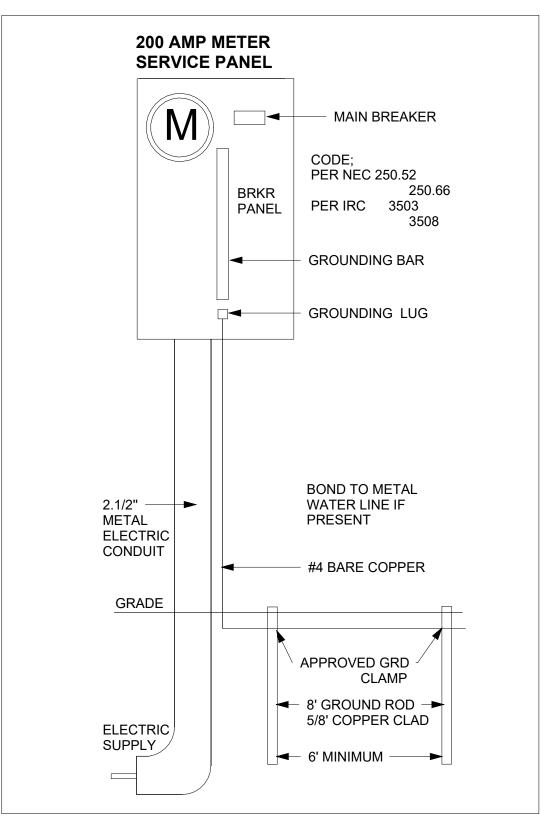
NONMETALLIC ENCLOSURES ARE USED WITH METAL RACEWAYS OR METAL-ARMORED

CABLES, PROVISIONS SHALL BE MADE FOR CONNECTING THE EQUIPMENT GROUNDING

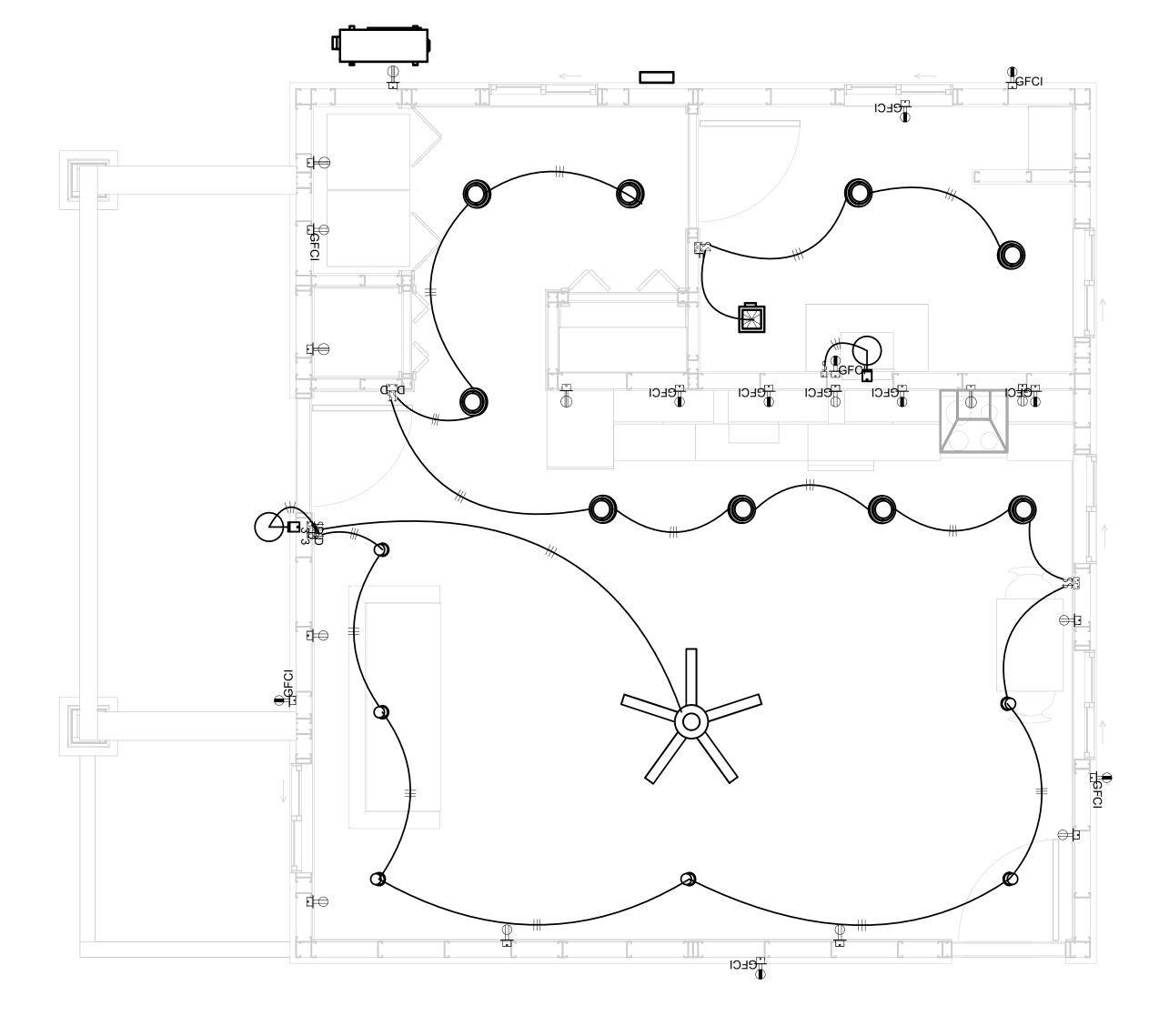
CONDUCTOR.
NONMETALLIC BOXES FOR SWITCHES SHALL BE INSTALLED WITH A WIRING METHOD THAT

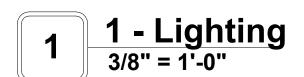
PROVIDES OR INCLUDES AN EQUIPMENT GROUNDING CONDUCTOR. (404.12)

ELECTRICAL LEGEND		
	Electrical Lights With Fan	
0	Waterproof Recessed Can Light	
	Pendant Light	
0	Recessed Can Light	
- □	Wall Lamp	
	Standalone linear	
⊬13	Single Switch	
₩	Three way Switch	
₩	Fan Switch	
⊖□	Duplex Receptacle	
	Triplex Receptacle	
GFCI	GFCI Receptacle	
	Exhaust Fan	
•	Smoke and heat detector	











KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

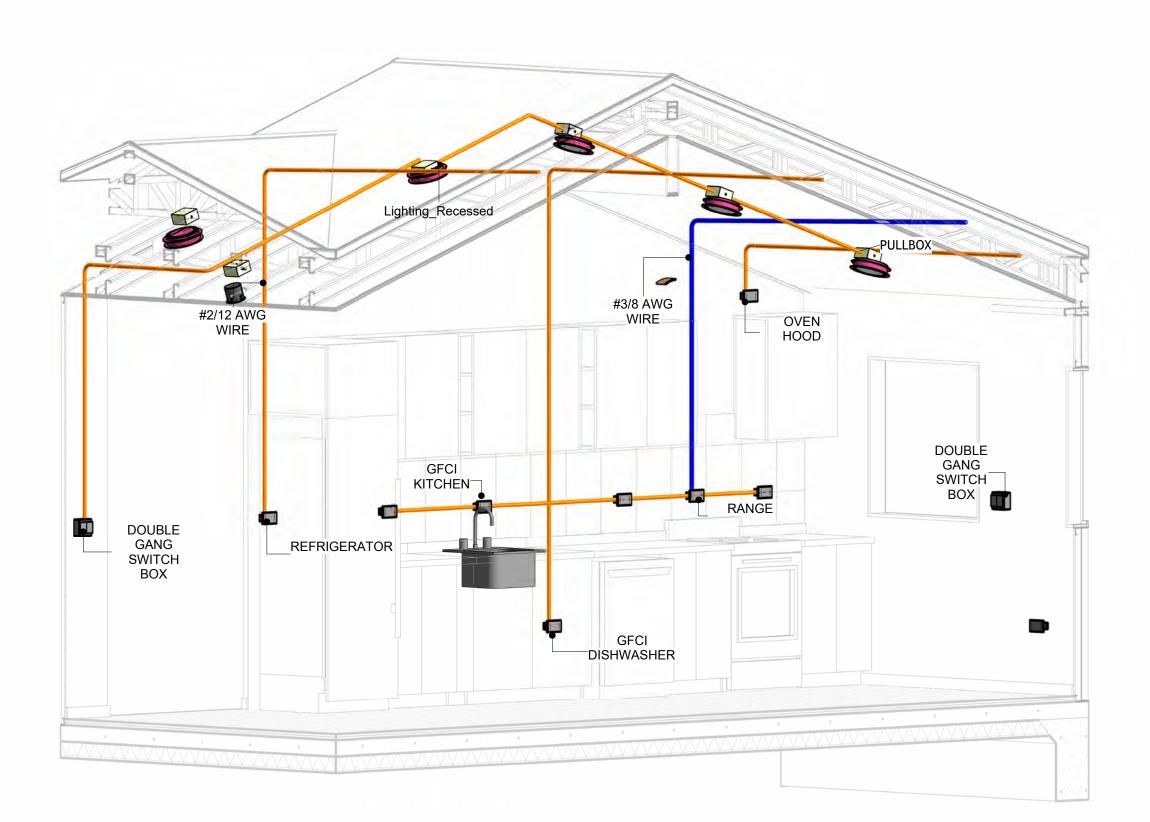
LIGHTING

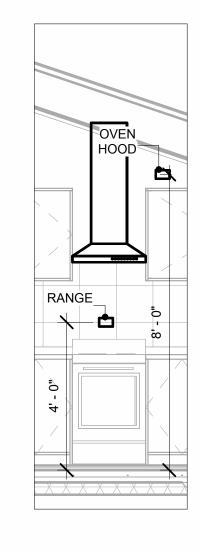
CLIENT NAME:	Owner
PROJECT NUMBER:	0410_11
DATE:	5/9/2025 5:08:25 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E102

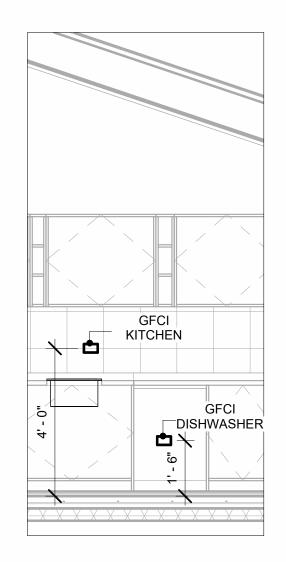
NOTES: CONDUIT, CABLE AND WIRING

- Use Metalic Conduits (IMC) for cables running under concrete slabs.
 Use IMC for circuits with high voltage appliances (240 volts and above)
 For circuits with 120 volts consider using EMT or PVC conduits if needed.
 For Low voltage applications up to 50 volts consider using non metalic conduits.
 All conduits to be used in the project must conform to the latest National Electrical Code (NEC),
- 6. All wiring and cables to be used in the project must also conform to the latest National Electrical
- 7. All cables and wires used should be rated for their respective loading and should be gauged and conform to the NEC.

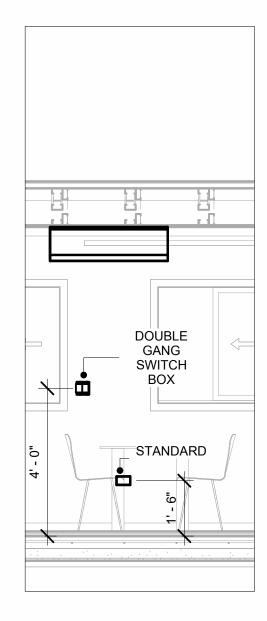




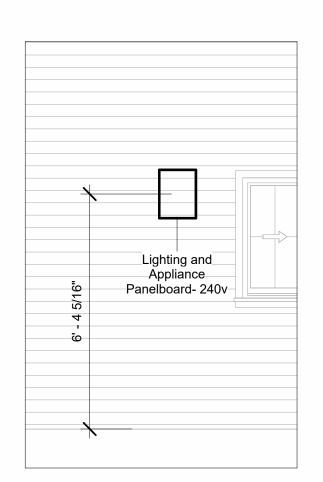
RANGE & OVENHOOD 3/8" = 1'-0"



DISHWASHER& GFCI 3/8" = 1'-0"



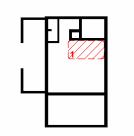
SWITCH & RECEPTACLE
3/8" = 1'-0"



PANEL 3/8" = 1'-0"



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO **CRAFTSMAN-BASE-550**

DRAWING NAME

POWER

CLIENT NAME:	Owner
PROJECT NUMBER:	0410_11
DATE:	5/9/2025 5:08:56 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E103

SCALE: As indicated

3D-KITCHEN

NOTES: LIGHT

- 1. LIGHT FIXTURES AND LUMINARIES SHALL CONFORM TO THE NEC, THE IRC AND LOCAL SAFETY & BUILDING CODE.
- 2. ALL LIGHTING FIXTURES SHOULD CONFORM TO THE DESIGN ELECTRICAL LOAD AND SHALL BE PROPERLY WIRED AND MOUNTED BY QUALIFIED ELECTRICIAN FOLLOWING MANUFACTURERS SPECIFICATIONS.
- 3. CEILING FANS AND FANS WITH LIGHT WITH WEIGHT EXCEEDING 35 LBS SHOULD BE PROVIDED WITH STRUCTURAL BACKING FOR SUPPORT AND SHALL BE FIXED AS PER MANUFACTURERS SPECIFICATIONS.
- 4. EXTERIOR LIGHTS SHALL CONFORM TO LOCAL BUILDING CODE AND GUIDELINES.

NOTES: SWITCH JUNCTION BOX

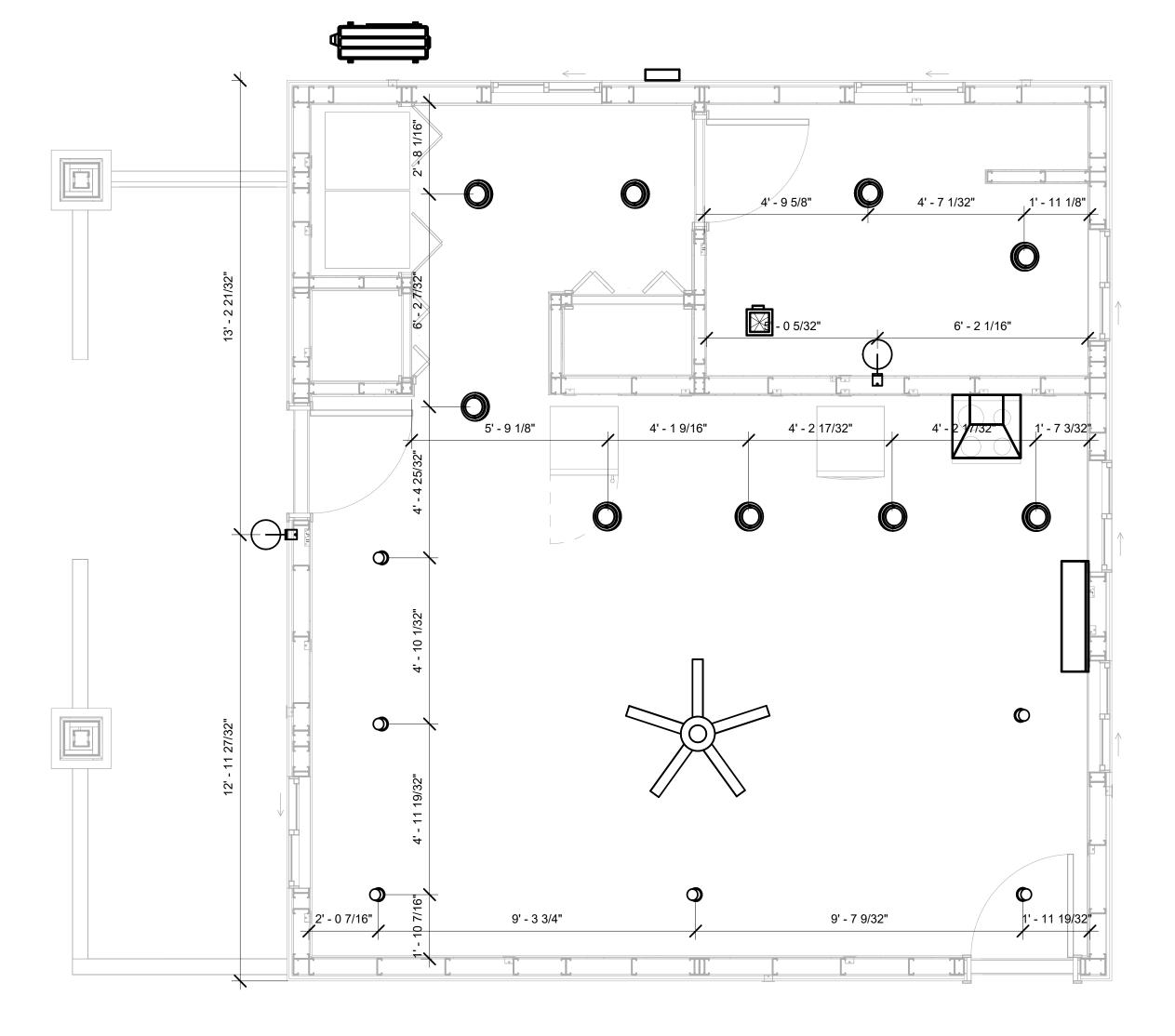
- 1. THE MINIMUM SIZE OF JUCTION BOX TO BE USED IS 2"X4"X(1.5" OR 3.5" DEEP) THIS ARE TO BE USED FOR SINGLE GANG SWITCH OR OUTLETS.
- 2. FOR DOUBLE GANG (2 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE
- JUCTION BOX TO BE PROVIDED SHALL NOT BE LESS THAN 4"X4"X(1.5" OR 3.5" DEEP)
- 3. FOR THREE GANG (3 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE JUĆTION BOX SHALL NOT BE LESS THAN 6"X4"X(1.5" OR 3.5" DEEP).

FITTING SCHEDULE(PULL BOX)		
FAMILY COUNT DESCR		
PULLBOX1	16	#1/4 PULLBOX

ELECTRICAL FIXTURE SCHEDULE (SWITCH BOX)		
TYPE COUNT		
DOUBLE GANG SWITCH BOX	3	
SINGLE GANG SWITCH BOX 1		
TRIPLE GANG SWITCH BOX	1	

LIGHTING DEVICE		
TYPE COUNT		
DIMMER	3	
FAN SWITCH	1	
SINGLE POLE	5	
THREE WAY WITH DIMMER	1	

LIGHTING FIXTURE			
LIGHTING FIXTURE TYPE	VOLTAGE	ELECTRICAL LOAD	COUNT
ELECTRICAL_LIGHTS_FAN-LIGHT1	120 V/1-100 VA- 120 V/1-100 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	1
LIGHTING_RECESSED	120 V/1-60 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	9
SASSO 100 ROUND WALLWASHER TRIM	120 V/1-28 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	6
WALL LAMP - BRACKET	120 V/1-100 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	2



DIMENSION FOR LIGHT FIXTURES



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO **CRAFTSMAN-BASE-550**

DRAWING NAME

DIMENSION PLAN FOR LIGHT FIXTURES

CLIENT NAME:	Owner
PROJECT NUMBER:	0410_11
DATE:	5/9/2025 5:08:57 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

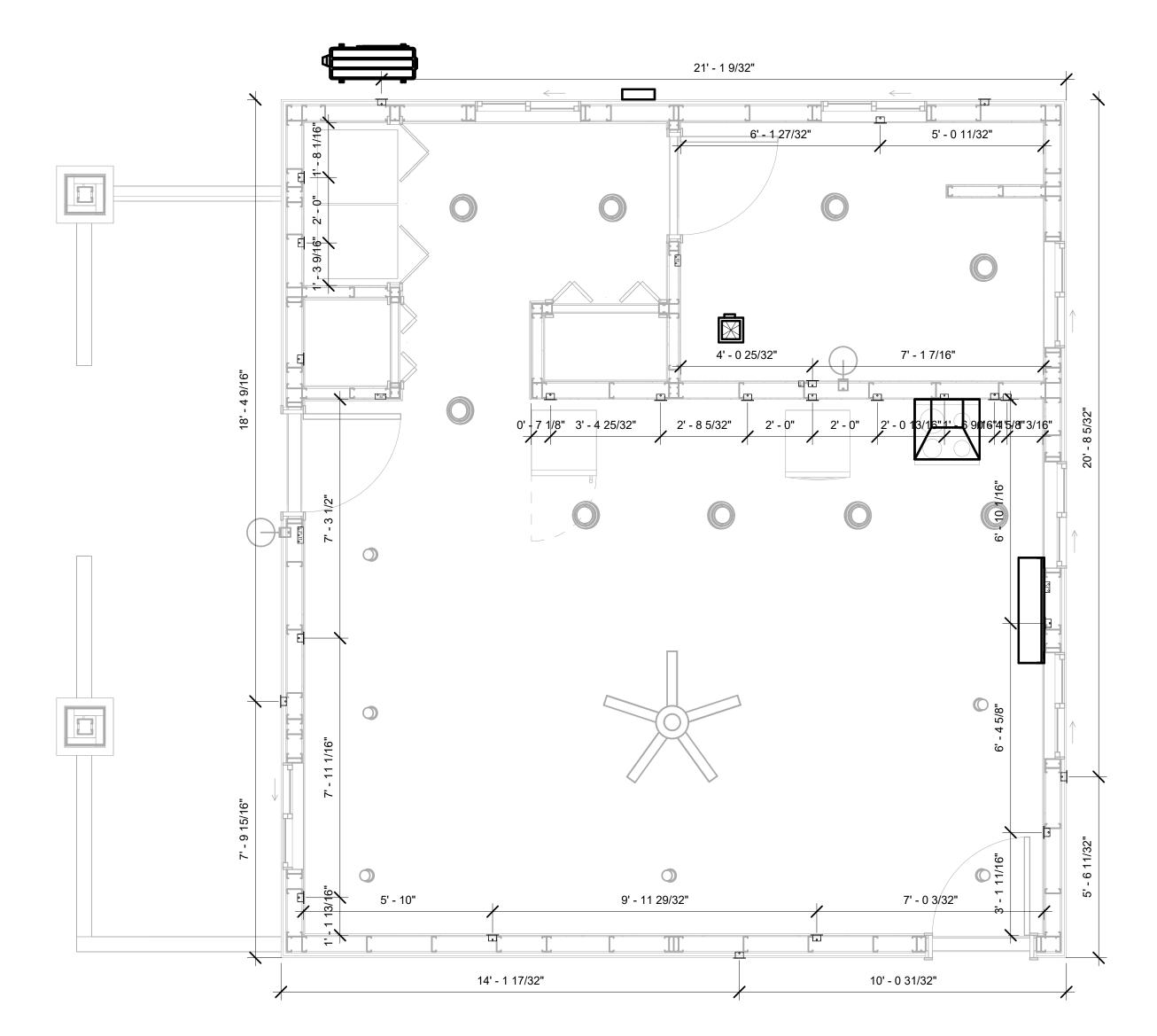
E104

NOTES;

- 1. VERIFY EQUIPMENT PLUG CONFIGURATION BEFORE PURCHASING RECEPTACLES
- 2. FOR ALL EQUIPMENT.
- 3. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, WALL SWITCHES, RECEPTACLES AND OTHER DEVICES WITH ARCHITECTURAL DRAWINGS.
- 4. USE METALLIC JUNCTION BOX WITH THE GFCI RECEPTACLES, WITH HIGHT VOLTAGE.

ELECTRICAL FIXTURE SCHEDULE (RECEPTACLE)						
TYPE	COUNT					
CONDENSER	1					
DRYER	1					
GFCI BATH ROOM	2					
GFCI DISHWASHER	1					
GFCI KITCHEN	4					
GFCI OUT DOOR	4					
GFCI WASHER	1					
OVEN HOOD	1					
RANGE	1					
REFRIGERATOR	1					
STANDARD	6					
WATER HEATER	1					

ELECTRICAL OUTLET SCHEDULE								
TYPE	CIRCUIT NUMBER	ELECTRICAL DATA	COUNT					
OVEN HOOD		120 V/1-180 VA	1					
GFCI BATH ROOM	1	120 V/1-180 VA	2					
DRYER	2,4	240 V/2-5000 VA	1					
GFCI WASHER	3	120 V/1-1200 VA	1					
WATER HEATER	5,7	240 V/2-4500 VA	1					
REFRIGERATOR	8	120 V/1-1800 VA	1					
GFCI KITCHEN	9	120 V/1-180 VA	4					
GFCI DISHWASHER	10	120 V/1-1200 VA	1					
RANGE	11,13	240 V/2-5000 VA	1					
CONDENSER	12,14	240 V/2-5000 VA	1					
GFCI OUT DOOR	15	120 V/1-180 VA	4					
STANDARD	19	120 V/1-180 VA	6					



DIMENSION FOR FITTINGS
3/8" = 1'-0"



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

DIMENSION PLAN FOR FITTINGS

CLIENT NAME:	Owner
PROJECT NUMBER:	0410_11
DATE:	5/9/2025 5:08:58 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
-	

E105

SHEET LIST

SHEET NUMBER SHEET NAME

P101 NOTE AND SCHEDULE
P102 WATER SUPPLY AND SEWAGE
SYSTEM

DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER SANITARY VENT SANITARY SEWER STORM DRAINAGE GRAY WATER GAS LINE

PLUMBING NOTES

- . THE PLUMBING SYSTEM IS DESIGNED TO MEET THE BUILDING'S DOMESTIC WATER SUPPLY, SANITARY DRAINAGE, AND STORM DRAINAGE REQUIREMENTS, AS PER PROJECT SPECIFICATIONS AND APPLICABLE CODES.
- THE SYSTEM INSTALLATION SHALL COMPLY WITH THE LATEST INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL RESIDENTIAL CODE (IRC), AND ALL OTHER RELEVANT LOCAL, STATE, AND NATIONAL REGULATIONS.
- 3. ALL PLUMBING WORK SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) AND THE LOCAL PLUMBING CODE.
- PLUMBING SYSTEMS SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH THE LOCAL PLUMBING CODE REQUIREMENTS.
- 5. PLUMBING FIXTURES SHALL BE INSTALLED WITH THE APPROPRIATE TRIM, FITTINGS, AND ACCESSORIES, AS RECOMMENDED BY THE MANUFACTURER.
- 6. PIPING SHALL BE PROPERLY SUPPORTED AND SECURED TO PREVENT SAGGING, MOVEMENT, AND VIBRATION.
- 7. SHUT-OFF VALVES SHALL BE PROVIDED AT ALL BRANCH CONNECTIONS AND AT THE INLET AND OUTLET OF EACH PIECE OF EQUIPMENT.
- 8. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AS REQUIRED BY THE LOCAL PLUMBING CODE TO PROTECT THE POTABLE WATER SYSTEM.
- 9. PLUMBING FIXTURES AND EQUIPMENT SHALL BE ACCESSIBLE FOR MAINTENANCE AND SERVICING.
- 10. EXPOSED PLUMBING PIPING AND FIXTURES SHALL BE INSULATED TO PREVENT CONDENSATION AND ENERGY LOSS.
- 11. DEAD ENDS IN THE DRAINAGE SYSTEM MUST BE AVOIDED, EXCEPT WHERE NECESSARY TO INSTALL A CLEANOUT IN AN ACCESSIBLE LOCATION, AND MUST HAVE A VENTED CONNECTION TO THE OUTSIDE ATMOSPHERE.
- 12. THE VERTICAL DEFLECTION OF PVC PIPE MUST NOT EXCEED 5%, AND NO DEFLECTION IS PERMITTED FOR IRON PIPE.
- 13. WORK MUST BE PROPERLY COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS, REFERRING TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR INFORMATION REGARDING CEILING ELEVATIONS, SPACE CLEARANCES, WALL AND PARTITION LOCATIONS, ETC.
- 14. ALL FIXTURES SHALL HAVE ACCESSIBLE STOPS.
- 15. DOMESTIC WATER PIPING SHALL BE PEX, AND PVC PIPING IS NOT ACCEPTABLE FOR INTERIOR USE.
- 16. VENT TERMINATIONS SHALL BE LOCATED AT LEAST 10 FEET FROM OR 3 FEET ABOVE ANY OPERABLE WINDOW, DOOR OPENING, AIR INTAKE, OR VENT SHAFT, AND AT LEAST 3 FEET IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY, OR STREET.
- 17. PIPE AND FITTINGS UTILIZED IN THE WATER SUPPLY SYSTEM SHALL HAVE A MAXIMUM OF 8 PERCENT LEAD.
- 18. ACRYLONITRILE BUTADIENE STYRENE (ABS) SHALL BE USED FOR THE SEWERAGE AND VENTILATION SYSTEM.
- 19. CROSS-LINKED POLYETHYLENE (PEX) SHALL BE USED FOR THE WATER SUPPLY SYSTEM.
- 0. POLYVINYL CHLORIDE (PVC) SHALL BE USED FOR THE RAIN WATER SYSTEM.
- 21. THE MIMIMUM WATER SUPPLY DEPTH UNDER FLOOR FINISH SHOUD BE 1/2".
- 22. ANY PIPE INSTALLED UNDERGROUND MUST HAVE AT LEAST 12 INCHES OF CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND ANY OTHER UNDERGROUND STRUCTURE.
- 23. THE MINIMUM CLEARANCE BETWEEN COLD AND HOT WATER LINES IN RESIDENTIAL HOMES MAINTAIN A MINIMUM DISTANCE OF 6 INCHES.
- 24. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES: A MINIMUM OF 12 INCHES BETWEEN POTABLE WATER SUPPLY LINES (COLD AND HOT WATER) AND
- SANITARY SEWER LINES.

ABBREVIATIONS

DIAMETER
ACRYLONITRILE BUTADIENE STYRENE
ABOVE
AREA DRAIN
ABOVE FINISHED FLOOR
ALTERNATE
BELOW FINISHED FLOOR
BELOW
CLEAN OUT
COLD WATER
DEGREE
DRANAGE FIXTURE UNIT
DIAMETER
DOWN
FLOOR CLEAN OUT
FLOOR DRAIN
FLOOR
FLOOR SINK
FOOT/FEET
HOSE BIB
HOT WATER
INCH
MINIMUM
NUMBER
NOT TO SCALE
CROSS-LINKED POLYETHYLENE
PLUMBING
POLYVINYL CHLORIDE
QUANTITY
ROOF DRAIN
REDUCER
ROOM
RAIN WATER
SQUARE FOOT
VENT
VENT THROUGH ROOF
WASTE
WALL CLEAN OUT
WATER SUPPLY FIXTURE UNIT

PLUMBING LEGEND

D	CAP
	BEND 45 DEG
B	BEND 90 DEG
	TEE REDUCING
	TEE
	CLEAN TWO-WAY
	WYE 45 DEG
	WYE 45 DEG DOUBLE
	WYE COMBINATION
	P-TRAP

PIPE SCHEDULE							
MATERIAL DIAMETER LENGTH							
ACRYLONITRILE BUTADIENE STYRENE (ABS)	1 1/2"	18 FT					
ACRYLONITRILE BUTADIENE STYRENE (ABS)	2"	33 FT					
ACRYLONITRILE BUTADIENE STYRENE (ABS)	3"	29 FT					
CROSS-LINKED POLYETHYLENE (PEX)	1/2"	63 FT					
CROSS-LINKED POLYETHYLENE (PEX)	3/4"	50 FT					
POLYVINYL CHLORIDE - RIGID	2"	32 FT					

FITTING SCHEDULE						
FITTING	SIZE	QTY				
PEX 90 DEG ELBOW	1/2"ø-1/2"ø	3				
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	14				
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	1				
PEX TEE ELBOW	1/2"ø-1/2"ø	3				
PEX TEE ELBOW	3/4"ø-3/4"ø	4				
PEX TRANSITION ELBOW	1"ø-3/4"ø	2				
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	3				
PEX 90 DEG ELBOW	1/2"ø-1/2"ø	1				
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	8				
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	4				
PEX TEE ELBOW	1/2"ø-1/2"ø-1/2"ø	1				
PEX TEE ELBOW	3/4"ø-3/4"ø-3/4"ø	3				
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	6				
PVC 90 DEG BEND ELBOW	2"ø-2"ø	4				
PVC 90 DEGREE BEND ELBOW	2"ø-2"ø	10				
ABS 90 DEGREE BEND ELBOW	1 1/2"ø-1 1/2"ø	1				
ABS 90 DEGREE BEND ELBOW	2"ø-2"ø	2				
ABS 90 DEGREE BEND ELBOW	3"ø-3"ø	1				
ABS P-TRAP	1 1/2"ø-1 1/2"ø	3				
ABS P-TRAP	2"ø-2"ø	1				
ABS REDUCER ELBOW	2"ø-1 1/2"ø	1				
ABS REDUCER ELBOW	3"ø-2"ø	1				
ABS TEE ELBOW	1 1/2"ø-1 1/2"ø-1 1/2"ø	1				
ABS TEE ELBOW	2"ø-2"ø-2"ø	1				
ABS TEE ELBOW	3"ø-3"ø	1				
ABS TEE REDUCER ELBOW	3"ø-3"ø-1 1/2"ø	2				
ABS TEE REDUCER ELBOW	3"ø-3"ø-2"ø	1				
ABS TEE REDUCER ELBOW	3"ø-3"ø	1				
ABS TRAP P	2"ø-2"ø	1				
WASTE DOUBLE TEE	2"ø-2"ø-2"ø	1				
ABS VENT CAP ELBOW	1 1/2"ø	1				
ABS VENT CAP ELBOW	2"ø	2				
ABS VENT CAP ELBOW	3"ø	1				

FIXTURE CONNECTION SCHEDULE											
FAMILY	W	V	TRAP	CW	HW	QTY	DFU	TOT.	WFU	TOT.	NOTES
DISHWASHER	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			DRAIN TO SEWER SEE PLANS
DRYER	N/A	N/A	N/A	N/A	N/A	1		0			
HANGING PIPES CLAMP						8		0			
SHOWER TRAY	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			
SHOWER TRIM	-	-	-	1/2"	1/2"	1		0			
SINK ISLAND SINGLE	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			
VANITY SINK	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			
WASHER	2"	1-1/2"	2"	1/2"	1/2"	1		0			DRAINS TO GRAY WATER OR SEWER SEE PLANS
WATER CLOSET						1		0			
WATER HEATER	N/A	N/A	N/A	3/4"	3/4"	1		0			

FIXTURE SCHEDULE						
FIXTURE QTY DESCRIPTION						
DISHWASHER	1	DRAIN TO SEWER SEE PLANS				
DRYER	1					
HANGING PIPES CLAMP	8					
SHOWER TRAY	1					
SHOWER TRIM	1					
SINK ISLAND SINGLE	1					
VANITY SINK	1					
WASHER	1	DRAINS TO GRAY WATER OR SEWER SEE PLANS				
WATER CLOSET	1					
WATER HEATER	1					

ACCESSORIES & FITTINGS SCHEDULE						
FIXTURE QTY DESCRIPTIONS						
DISHWASHER CONNECTOR	1					
HOSE BIB	1					
LAUNDRY SWEAT CONNECTOR1	1					
SHUTOFF VALVE	6					

PLUMBING SCHEDULE										
I LOWIDING SCHILDULL										
FIXTURE	TRAP	WASTE	VENT	C.W	H.W					
DISHWASHER	1-1/2"	2"	1-1/2"	1/2"	1/2"					
DRYER	N/A	N/A	N/A	N/A	N/A					
SHOWER TRAY	1-1/2"	2"	1-1/2"	1/2"	1/2"					
SHOWER TRIM	-	-	-	1/2"	1/2"					
SINK ISLAND SINGLE	1-1/2"	2"	1-1/2"	1/2"	1/2"					
VANITY SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"					
WASHER	2"	2"	1-1/2"	1/2"	1/2"					
WATER CLOSET										
WATER HEATER	N/A	N/A	N/A	3/4"	3/4"					

WATER FIXTURE UNIT SCHEDULE									
FAMILY	QTY	UNIT VALUE	TOTAL						
DISHWASHER	1		0						
DRYER	1		0						
HANGING PIPES CLAMP	8		0						
SHOWER TRAY	1		0						
SHOWER TRIM	1		0						
SINK ISLAND SINGLE	1		0						
VANITY SINK	1		0						
WASHER	1		0						
WATER CLOSET	1		0						
WATER HEATER	1		0						

WASTE FIXTURE UNIT SCHEDULE									
FAMILY	QTY	DFU VALUES	TOTAL						
DISHWASHER	1		0						
DRYER	1		0						
HANGING PIPES CLAMP	8		0						
SHOWER TRAY	1		0						
SHOWER TRIM	1		0						
SINK ISLAND SINGLE	1		0						
VANITY SINK	1		0						
WASHER	1		0						
WATER CLOSET	1		0						
WATER HEATER	1		0						



KEY PLAN

NO. DESCRIPTION DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

NOTE AND SCHEDULE

CLIENT NAME:

 PROJECT NUMBER:
 0401_11

 DATE:
 5/13/2025 10:07:02 AM

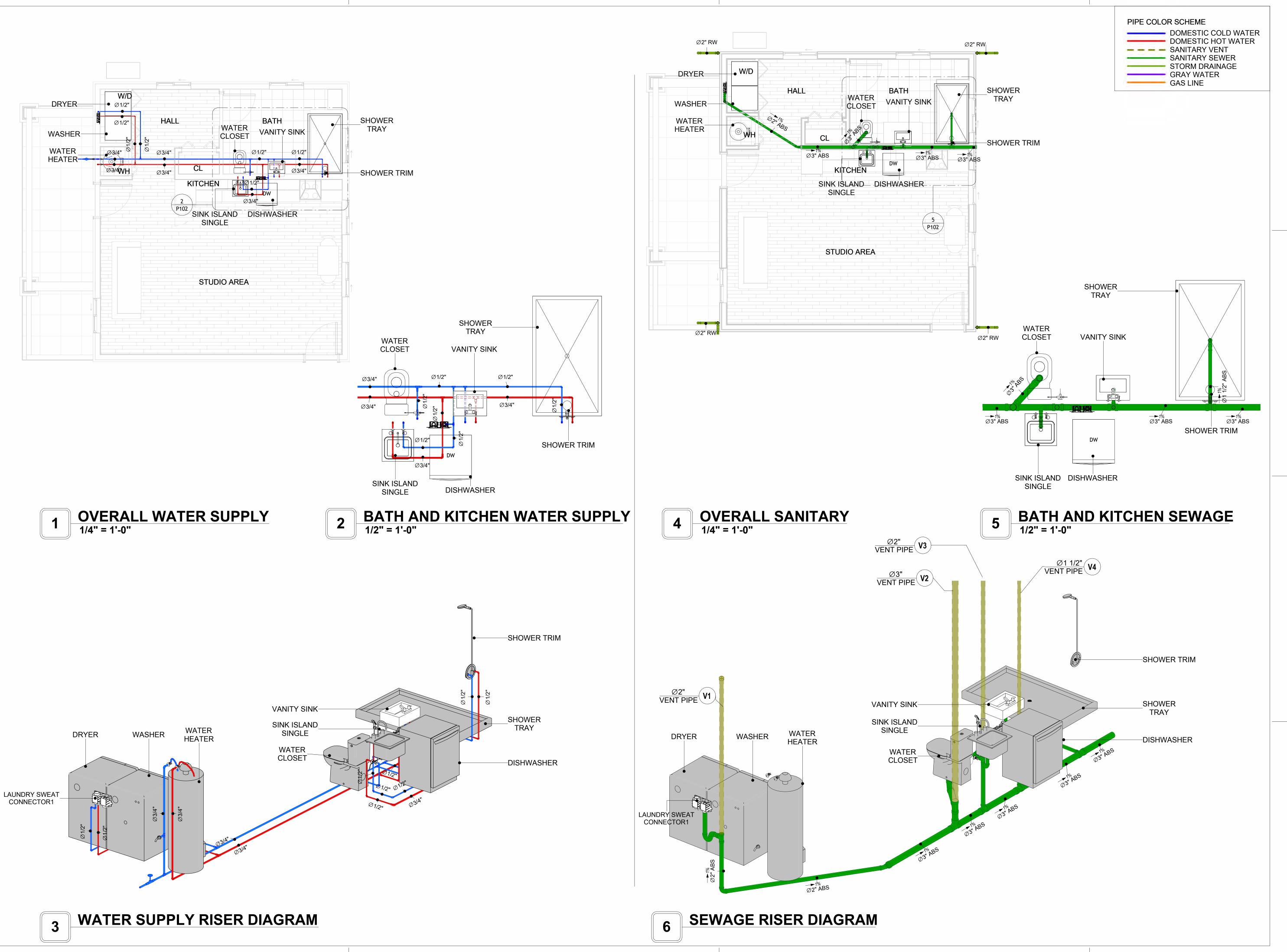
 DESIGNED BY:
 Designer

 DRAWN BY:
 Author

 CHECKED BY:
 Checker

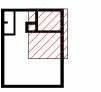
P101

SCALE: 1/2" = 1'-0"





KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

234-EMBER-624-STUDIO CRAFTSMAN-BASE-550

DRAWING NAME

WATER SUPPLY AND SEWAGE SYSTEM

CLIENT NAME:	
PROJECT NUMBER:	0401_11
DATE:	5/13/2025 10:07:50 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

P102

Materials Shopping List

Please print and take this Materials Shopping List to your favorite Home Depot and ask for assistance in selecting the materials, fixtures and fittings to complete your new home.

Record your selection and the price of the item. Then do the math to determine the cost for your selections and the total cost of finishing your home.

Have It Your Way!

The material types listed in this document were selected based on personal preferences. The Customer is encouraged to make changes to the material types in accordance with local customs, regulations, and personal preferences.

Have It Your Way!



20 good reasons to frame a home with metal and not wood



Why build your ADU with metal vs wood	Wood	Metal	Explanation
1 DIY Construction Benefit		~	The wall frames, trusses and beams can be erected in a just a few days
2 Minimal Construction Skills Required		~	Pre-assembled walls and trusses require no specialized skills to errect
Build as DIY, Hybrid or by a General Contractor		~	Do it yourself, Hybrid (involve special contractors) or hire a General Contractor
4 Build It As You Can Afford It		~	Impervious to Weather - build as you have the time and money
5 Up Front Cost of Framing Materials	~		As to only the framing material, wood is less expensive
6 Total Cost To Build		~	Savings in time, labor, and other areas make light gauge steel LESS expensive
7 Termites and wood boring insects		~	Termites, carpenter ants and wood boring insects eat wood, not metal
8 Mold resistant		~	Metal does not attract mold
9 Damage caused by exterior and interior flooding		~	Metal needs no reconditioning after a flood
10 Fire Resistant		~	Non-combustible
11 Lower insurance rates		~	Many insurance underwriters now provide lower rates for metal framed homes
12 Walls, trusses, and beams retain their original form		~	Perfectly straight walls - no shimming of drywall
13 Corners are 90 degrees		~	No need for templating of countertops to adjust for out of square corners
14 Strength and weight		~	Metal is stronger than wood and weighs less - no need for crane to lift ADU trusses
15 IBC Engineered Stamp		~	If an engineering stamp is necessary, months of waiting are saved
16 Complete BOM (Materials Shopping List)		~	Take the materials shopping list to Home Depot and start shopping/pricing
17 Flexible in Seismic Areas - Won't Fracture		~	Light gauge steel is flexible and won't fracture when the earth moves
18 No Waste At Job Site		~	Steel is the most recycled material in the world. A typical wood home has 20-30% waste
19 Environmentally Friendly		~	Trees don't have to be destroyed and the source of most metal is from recycling
20 How-To Videos Included		~	How-to videos provide simple assembly instructions
21 Relationship Counselor		~	Eliminate emotional uphevels - save time, money, and preserve the relationship

Universal Requirements - some or all may be required

- 1 Site plan
- 2 Electrical Supply Connection
- 3 Sewer Connection
- 4 Fresh Water Supply Connection
- 5 Set Backs
- 6 Soils Evaluation

- 7 Earthquake (fault) evaluation
- 8 Foundation Plan subject to soils
- 9 Compliance with local energy codes: insulation home wrap and flashing
- 10 Engineering for wind speed and snow load.
- 11 State and Local ordinances regarding ADUs
- 12 Local Architect and/or Engineer may be necessary







Ember-Studio-Craftsman-Base MATERIAL SHOPPING LIST

Have It Your Way!

The material types listed in this document were selected based on personal preferences. The Customer is encouraged to make changes to the material types in accordance with local customs, regulations, and personal preferences. Have It Your Way!

TOC



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15

PLUMBING BOM

ARCHITECTURAL BOM

Table Of Content

Have It Your Way!

The material types listed in this document were selected based on personal preferences. The Customer is encouraged to make changes to the material types in accordance with local customs, regulations, and personal preferences. Have It Your Way!

GENERAL NOTES

4 PLUMBING BOM

6 ARCHITECTURAL BOM

- 1 This BOM (Bill of Materials) is prepared as a Materials Shopping List to help builders and DIYers gain a complete understanding of most if not all elements required for the complete construction of this structure, according to the original design documents provided by FrameUpNow.
- 2 All quantities and specifications are subject to change based on the final design, field measurements, availability of products and customer preferences. The customer should verify all information prior to purchasing materials.
- 3 All products and elements in the list shall conform to the International Residential Code (IRC), or any other local and international building codes, safety regulations, and standards that are applicable to the location of the structure.
- 4 If any changes are made by the customer to the list of materials specified in this document, the customer is responsible for assuring that the correct type and quantity of materials are utilized in accordance with local building codes.
- 5 FrameUpNow, will not be held responsible for any misuse of this document, the products listed, or for deviations from the content that are made due to changes in specifications, pricing, availability, or customer preferences.
- 6 The customer is advised to consult a qualified professional or technician prior to purchasing materials for specialized construction system items. Some items including but not limited to caseworks, doors and windows may require as built measurements prior to purchase to confirmation of final dimensions.
- 7 If there are additional trim elements or specific installation methods, the total amount of materials needed might vary. Consider any additional trim required for corners, intersections, or other architectural details that might cause this variations before proceeding to purchase and construction.

ARCHITECTURAL BOM



		Embe	r-Studio-Cr	aftsman-B	ase		
		ARCHITECTL	JRAL MATE	RIAL SHOP			
No.	Item	Туре	Unit	Quantity	Unit Price	Total	Description
	APPLIANCES						
	Refrigerator		PCS	1			
2	Range		PCS	1			
3	Washer		PCS	1			
4	Dryer		PCS	1			
5	Dish Washer		PCS	1			
6	Oven		PCS	0			
7	Microwave		PCS	0			
	CASEWORKS						
1	Kitchen Cabinet		FT	15.83			
2	Laundry Cabinet		FT	0			
3	Vanity Cabinet		FT	3.6			
4	Medicine Cabinet		PCS	1			
	Kitchen countertop		SF	24.61			
6	Laundry Countertop		PCS	0			
7	Bathroom Countertop		SF	0			
8	Island		FT	0			
9	Peninsula		FT	0			
10	Closets		SF	34			
<u></u>	CEILING	5 W "	lor.		-		
1	Ceiling Board	Dry Wall	SF	268			
	Dry Wall Fastener	Screw	PCS	469			
3	Vapor Retarder	Polyethylene film	SF	520			
4	Vapor Retarder Fastener	Nails with washer heads	PCS	1560			
	Ceiling Board (MRD)	Moisture resistant drywall	SF	95			
	MRD Fastener		PCS	166			
7	Ceiling Board	Marine Plywood	SF	157			
8	Marine Plywood Fastener	Screw	PCS	275			
	Dry Wall Tape		FT	260			
<u></u>	FLOORING						
	Main Living Space		SF	443.48			
2	Bathroom		SF	95.57			
3	Porch		SF	162.67			
<u></u>	STRUCTURE						
1	Foundation		SF	778.44			
	WALLS EXTERIOR						
1_	Exterior-Grade Plywood Horizonta	Siding	SF	867			
	Exterior-Grade Plywood Fastener	Self-drilling screws(100/pkt)	PKT	9			
3	Wall Shteathing (OSB)		SF	867			
4	Shteathing Fastener	Self-drilling screws(100/pkt)	PKT	9			
	Wall Homewrap		SF	867			
	Homewrap Fastener	Stapled fastener (200/pkt)	PKT	3			
7	Furring Strip	0 15 1 1111	PCS	108			
	Furring Strip Fastener	Self-drilling screws(100/pkt)	PKT	9			
9	Wall Paint		SF	867			
	Stone Copping	Masonry stone	SF	0			
	Stone Veneer	Masonry stone	SF	0			
	Mortar for Stone Veneer		SF	0			
	Wall Insulation		SF	1245.0			
<u></u>	WALLS INTERIOR	T.	lor				
	Cementitious Backer Board		SF	512			
	Kerdi membrane		SF	512			
	Kerdi membrane Fastener		SF	512			
	Wall Ceramic Tile		SF	512			
	Drywall Board		SF	1013			
6	Drywall Fastener	Self-drilling screws(100/pkt)	PKT	10.13			
	Wall Paint		SF	1013			
	Drywall Tape		FT	191			
9	Wall Sweep		FT	78			

ARCHITECTURAL BOM



Δ	DOORS				
1	Interior Swinging	3' - 0" X 6'-8"	PCS	1	
2	Exterior Swinging	3' - 0" X 6'-8"	PCS	2	
3	Bifold	2' - 4" X 6'-8"	PCS	1	
4	Bifold	3' - 3" X 6'-8"	PCS	1	
5	Bifold	4' - 10" X 6'-8"	PCS	1	
6	Exterior Door Trim		FT	33.34	
7	Interior Door Trim		FT	166.34	
8	Entry Lock set		PCS	2	
9	Privacy Lock set		PCS	1	
10	Passage Lock set		PCS	3	
Δ	WINDOWS				
1	Sliding	3' - 3" X 3'-3"	PCS	4	
2	Sliding	3' - 3" X 1'-9"	PCS	2	
3	Exterior Window Trim		FT	105.36	
4	Interior Window Trim		FT	105.36	
	ROOF				
1	Roof Covering		SF	1023.0	
2	Roof Covering Fastener		PCS	512	
3	Roof Felt Paper		SF	1023.0	
4	Roof Felt Paper Fastener		PCS	3069.0	
5	Roof Sheathing		SF	1023	
6	Roof Sheathing Fastener		PCS	8184	
7	Batten		FT	0.0	
8	Batten Fastener		PCS	0.0	
9	Soffit		SF	243.0	
10	Soffit Fastener		PCS	121.5	
	Fascia		FT	133.0	
12	Fascia board fastener		PCS	67	
13	Roof Insulation		SF	1023.0	



		Ember-Studio-C	Craftsman-	Base			
	FI	ECTRICAL MATER	RIAL SHOP	PINGII	ST		
No.	Item	Type	Unit		Unit Price	Total	Description
	LIGHTING FIXTURES	71					
1	Kitchen Ceiling Light		PCS	4			
2	Kitchen Wall Mounted Light		PCS	0			
3	Exterior Wall Mounted Light		PCS	1			
4	Livingroom Ceiling Light With Fan		PCS	1			
5	Bedroom Ceiling Light With Fan		PCS	0			
6	Dining Ceiling Light		PCS	0			
7	Bath Wall Mounted Light		PCS	1			
8	Bathroom Ceiling Light		PCS	2			
	Livingroom Ceiling Light		PCS	6			
	Bedroom Ceiling Light		PCS	0			
	Hall & Entry Ceiling Light		PCS	3			
	Closet Ceiling Light		PCS	0			
	Smoke Detector		PCS	0			
	ELECTRICAL FITTINGS		100				
	Standard Receptacle 120V	20A	PCS	6			
	GFCI Receptacle 120V	20 A	PCS	14			
	GFCI Receptacle 240V	30 A	PCS	2			
17	GFCI Receptacle 240V	50 A	PCS	1			
18	GFCI Receptacle 240V	60 A	PCS	1			
	Fan Switch	00 A	PCS	1			
	Single Pole Switch		PCS	5			
	Three Way Switch		PCS	1			
	Dimmer Switch		PCS	3			
	ELECTRICAL CONDUITS & WIRING		FUS	3			
22	ROMEX 14 AWG	1.4/2/\4//~~~	FT	52		1	
	ROMEX 14 AWG	14/2/W/ground	FT				
		12/3/W/ground	FT	297			
	ROMEX 12 AWG	12/2/W/ground		0			
	ROMEX 10 AWG	10/3/W/ground	FT	0			
	ROMEX 10 AWG	10/2/W/ground	FT	51			
	Romex 8 AWG	8/3/W/ground	FT	0			
	Romex 8 AWG	8/2/W/ground	FT	26			
	ROMEX 6 AWG	6/3/W/ground	FT	19			
	Bare Copper Ground Wire 6 AWG		FT				
	ELECTRICAL BOXES & CIRCUTES						
	Panelboard -240V 1 Phase MLO	200 AMP	PCS	1			
	Circuit breaker	15 A	PCS	2			
	Circuit breaker	20 A	PCS	9			
	Circuit breaker	30 A	PCS	2			
	Circuit breaker	50 A	PCS	1			
	Circuit breaker	60 A	PCS	1			
	Single Gang Switch Box		PCS	1			
	Double Gang Switch Box		PCS	3			
	Triple Gang Switch Box		PCS	1			
	Pull Box	#1/4	PCS	13			
44	Receptacle Box		PCS	24			

26 ABS Tee Reducer Elbow

27 ABS Tee Reducer Elbow

28 ABS Tee Reducer Elbow

30 WASTE DOUBLE TEE

31 ABS Vent Cap Elbow

32 ABS Vent Cap Elbow

33 ABS Vent Cap Elbow

29 ABS Trap P



Ember-Studio-Craftsman-Base PLUMBING SYSTEM MATERIAL SHOPPING LIST Item Unit Quantity Unit Price Total Description 1 Bath Tub (Alcove Tub) PCS 2 Kitchen Sink PCS 1 3 Kitchen Faucets PCS 4 Vanity Sink PCS 1 5 Bath room Faucets PCS 6 Water Closet PCS 7 Shower Trim PCS 8 Shower Tray PCS 9 Water Heater PCS 10 Hose Bib PCS 1 11 Shutoff Valve PCS 12 Hanging pipe clamp PCS 8 13 Gate Valve PCS 14 Dishwasher Supply Single Connector PCS 1 15 Dishwasher Sewage Single Connector PCS 16 Laundry Sweat Connector PCS 1 △ SANITARY & PLUMBING PIPE 1 ABS (Acrylonitrile Butadiene Styrene) Pipes ø 1" FT 0 2 ABS (Acrylonitrile Butadiene Styrene) Pipes ø 1 1/2 FT 18 3 ABS (Acrylonitrile Butadiene Styrene) Pipes ø 2" FT 33 4 ABS (Acrylonitrile Butadiene Styrene) Pipes ø 3" FT 29 5 PEX (Cross-linked polyethylene) Pipes ø 1/2' FT 63 6 PEX (Cross-linked polyethylene) Pipes ø 3/4' FT 50 7 PEX (Cross-linked polyethylene) Pipes ø 1" FT 0 8 PVC Pipes Sch.80 - Rigid ø 1 1/2" FT 0 9 PVC Pipes Sch.80 - Rigid ø 2" FT 32 10 PVC Pipes Sch.80 - Rigid ø 3" FT 0 11 Flex Pipe Round ø 1/2" PCS 6 12 Flex Pipe Round ø 3/4" **PCS** 0 13 Flex Pipe Round ø 1" PCS 0 1 PEX 90 Deg Elbow 1/2"ø-1/2"ø PCS 2 PEX 90 Degree Elbow 1/2"ø-1/2"ø PCS 14 3 PEX 90 Degree Elbow 3/4"ø-3/4"ø PCS 4 PEX Tee Elbow 1/2"ø-1/2"ø-1/2"ø PCS 5 PEX Tee Elbow 3/4"ø-3/4"ø-3/4"ø PCS 4 6 PEX Transition Elbow 1"ø-3/4"ø PCS 2 7 PEX Transition Elbow 3/4"ø-1/2"ø PCS 8 PEX 90 Deg Elbow 1/2"ø-1/2"ø PCS 1/2"ø-1/2"ø 9 PEX 90 Degree Elbow PCS 8 10 PEX 90 Degree Elbow 3/4"ø-3/4"ø **PCS** 4 11 PEX Tee Elbow 1/2"ø-1/2"ø-1/2"ø PCS 12 PEX Tee Flhow 3/4"ø-3/4"ø-3/4"ø PCS 2 13 PEX Transition Elbow 3/4"ø-1/2"ø PCS 6 14 PVC 90 Deg Bend Elbow 2"ø-2"ø PCS 4 15 PVC 90 Degree Bend Elbow 2"ø-2"ø PCS 10 1 1/2"ø-1 1/2"ø 16 ABS 90 Degree Bend Elbow PCS 17 ABS 90 Degree Bend Elbow 2"ø-2"ø PCS 2 18 ABS 90 Degree Bend Elbow PCS 3"ø-3"ø 1 19 ABS P-Trap 1 1/2"ø-1 1/2"ø PCS 20 ABS P-Trap 2"ø-2"ø PCS 21 ABS Reducer Elbow 2"ø-1 1/2"ø PCS 22 ABS Reducer Elbow 3"ø-2"ø PCS 1 23 ABS TEE Elbow 1 1/2"ø-1 1/2"ø-1 1/2"ø PCS 24 ABS TEE Elbow 2"ø-2"ø-2"ø PCS 25 ABS TEE Elbow PCS 3"ø-3"ø-3"ø

3"ø-3"ø-1 1/2"ø

2"ø-2"ø-2"ø

3"ø-3"ø-2"ø

3"ø-3"ø-3"ø

2"ø-2"ø

1 1/2"ø

2"ø

3"ø

PCS

PCS

PCS

PCS

PCS

PCS

PCS

PCS

1

		Ember-Studi	o-Craft	sman-Ba	se				
HVAC SYSTEM MATERIAL SHOPPING LIST									
No.	Item	Туре	Unit	Quantity	Unit Price	Total	Description		
	HVAC_DUCTS								
1	PIPE (REFRIGERANT LINE)	3/8" (Ø)	FT	50.44					
2	PIPE (REFRIGERANT LINE)	3/4''' (Ø)	FT	59.09					
3	DRAYER HOSE	4" (Ø)	FT	7.6					
4	FLEX DUCT ROUND	4" (Ø)	FT	5.54					
\triangle	DUCT FITTINGS & ACCESSORIES								
5	ELBOW (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø	PCS	15					
6	ELBOW (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)	PCS	13					
7	TRANSITION (REFRIGERANT	3/4" (Ø)-1/2" (Ø)	PCS	2					
8	TRANSITION (REFRIGERANT	3/4" (Ø)-5/8" (Ø)	PCS	1					
9	TRANSITION (REFRIGERANT	3/8" (Ø)-1/4" (Ø)	PCS	1					
	HVAC_EQUIPMENTS								
10	AIR HANDLING UNIT	WALL MOUNTED	PCS	1					
11	CONDENSER	OUTDOOR UNIT	PCS	1					
12	EXHAUST FAN	75 CFM	PCS	1					
13	EXHAUST HOOD	WALL MOUNTED	PCS	1					
14	HOOD-WALL: VENT	HOOD-WALL: VENT	PCS	1					
15	DRAYER: VENT	DRAYER: VENT	PCS	1					
16	ROOF VENT	3"(Ø)	PCS	1					



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Have It Your Way!

The material types listed in this document were selected based on personal preferences. The Customer is encouraged to make changes to the material types in accordance with local customs, regulations, and personal preferences. Have It Your Way!

GENERAL NOTES

- This BOM (Bill of Materials) is prepared as a Materials Shopping List to help builders and DIYers gain a complete understanding of most if not all elements required for the complete construction of this structure, according to the original design documents provided by FrameUpNow.
- 2 All quantities and specifications are subject to change based on the final design, field measurements, availability of products and customer preferences. The customer should verify all information prior to purchasing materials.
- 3 All products and elements in the list shall conform to the International Residential Code (IRC), or any other local and international building codes, safety regulations, and standards that are applicable to the location of the structure.
- 4 If any changes are made by the customer to the list of materials specified in this document, the customer is responsible for assuring that the correct type and quantity of materials are utilized in accordance with local building codes.
- 5 FrameUpNow, will not be held responsible for any misuse of this document, the products listed, or for deviations from the content that are made due to changes in specifications, pricing, availability, or customer preferences.
- 6 The customer is advised to consult a qualified professional or technician prior to purchasing materials for specialized construction system items. Some items including but not limited to caseworks, doors and windows may require as built measurements prior to purchase to confirmation of final dimensions.
- 7 If there are additional trim elements or specific installation methods, the total amount of materials needed might vary. Consider any additional trim required for corners, intersections, or other architectural details that might cause this variations before procedding to purchase and construction.



			LIGHTING FIXTURES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Kitchen Ceiling Light			PCS	4		
3	Kitchen Wall Mounted Light			PCS	0		
4	Exterior Wall Mounted Light			PCS	1		
5	Livingroom Ceiling Light With Fan			PCS	1		
6	Bedroom Ceiling Light With Fan			PCS	0		
7	Dining Ceiling Light			PCS	0		
8	Bath Wall Mounted Light			PCS	1		
9	Bathroom Ceiling Light			PCS	2		
10	Livingroom Ceiling Light			PCS	6		
11	Bedroom Ceiling Light			PCS	0		
12	Hall & Entry Ceiling Light			PCS	3		
12	Garage Ceiling Light			PCS	0		
13	Smoke Detector			PCS	0		
14							
15							



			ELECTRICAL FITTINGS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity U	Init Price	Total
1	Standard Receptacle 120V	20A		PCS	6		
2	GFCI Receptacle 120V	20 A		PCS	14		
3	GFCI Receptacle 240V	30 A		PCS	2		
4	GFCI Receptacle 240V	50 A		PCS	1		
5	GFCI Receptacle 240V	60 A		PCS	1		
6	Fan Switch			PCS	1		
7	Single Pole Switch			PCS	5		
8	Three Way Switch			PCS	1		
9	Dimmer Switch			PCS	3		
10							
11							
12							
13							
14							
15							



		ELECTR	ICAL CONDUITS & WIRING				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ROMEX 14 AWG	14/2/W/ground		FT	52		
3	ROMEX 12 AWG	12/3/W/ground		FT	297		
4	ROMEX 12 AWG	12/2/W/ground		FT	0		
6	ROMEX 10 AWG	10/3/W/ground		FT	0		
8	ROMEX 10 AWG	10/2/W/ground		FT	51		
9	Romex 8 AWG	8/3/W/ground		FT	0		
10	Romex 8 AWG	8/2/W/ground		FT	26		
11	ROMEX 6 AWG	6/2/W/ground		FT	19		
12	Bare Copper Ground Wire 6 AWG			FT			
13							
14							
15							
16							



		ELEC	CTRICAL BOXES & CIRCUTES			
1	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity Unit F	rice Total
	Panelboard -240V 1 Phase MLO	200 AMP		PCS	1	
	Circuit breaker	15 A		PCS	2	
	Circuit breaker	20 A		PCS	9	
	Circuit breaker	30 A		PCS	2	
	Circuit breaker	50 A		PCS	1	
	Circuit breaker	60 A		PCS	1	
	Single Gang Switch Box			PCS	1	
	Double Gang Switch Box			PCS	3	
	Triple Gang Switch Box			PCS	1	
0	Pull Box	#1/4		PCS	13	
1	Receptacle Box			PCS	24	
2						
3						
4						
.5						

			HVAC_DUCTS 01				
#		Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	PIPE (REFRIGERANT LINE)			FT	50.44		
2	PIPE (REFRIGERANT LINE)	3/4''' (Ø)		FT	59.09		
3	DRAYER HOSE	4" (Ø)		FT	7.6		
4	FLEX DUCT ROUND	4" (Ø)		FT	5.54		
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

DUCT FITTINGS & ACCESSORIES							
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ELBOW (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø		PCS	15		
2	ELBOW (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)		PCS	13		
3	TRANSITION (REFRIGERANT LINE)	3/4" (Ø)-1/2" (Ø)		PCS	2		
1	TRANSITION (REFRIGERANT LINE)	3/4" (Ø)-5/8" (Ø)		PCS	1		
5	TRANSITION (REFRIGERANT LINE)	3/8" (Ø)-1/4" (Ø)		PCS	1		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

			HVAC_EQUIPMENTS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	AIR HANDLING UNIT	WALL MOUNTED		PCS	1		
2	CONDENSER	OUTDOOR UNIT		PCS	1		
3	EXHAUST FAN	75 CFM		PCS	1		
4	EXHAUST HOOD	WALL MOUNTED		PCS	1		
5	HOOD-WALL: VENT	HOOD-WALL: VENT		PCS	1		
6	DRAYER: VENT	DRAYER: VENT		PCS	1		
7	ROOF VENT	3"(Ø)		PCS	1		
8							
9							
10							
11							
12							
13							
14							



		PLUMBIN	NG FIXTURES & ACCESSORIES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Bath Tub (Alcove Tub)			PCS	C		
2	Kitchen Sink			PCS	1		
3	Kitchen faucets			PCS	1		
4	Vanity Sink			PCS	1		
5	Bath room faucets			PCS	1		
6	Water Closet			PCS	1		
7	Shower Trim			PCS	1		
8	Shower Tray			PCS	1		
9	Water Heater			PCS	1		
10	Hose Bib			PCS	1		
11	Shutoff Valve			PCS	6		
12	Hanging pipe clamp			PCS	8		
13	Globe Valve			PCS	1		
14	Dishwasher Supply Single Connector			PCS	1		
15	Dishwasher Sewage Single Connector			PCS	1		
16	Laundry Sweat Connector			PCS	1		



		SANI	TARY & PLUMBING PIPES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1"		FT	0		
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"		FT	18		
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"		FT	33		
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"		FT	29		
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"		FT	63		
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"		FT	50		
7	PEX (Cross-linked polyethylene) Pipes	ø 1"		FT	0		
8	PVC Pipes Sch.80 - Rigid	ø 1 1/2"		FT	0		
9	PVC Pipes Sch.80 - Rigid	ø 2"		FT	32		
10	PVC Pipes Sch.80 - Rigid	ø 3"		FT	0		
11	Flex Pipe Round	ø 1/2"		FT	6		
12	Flex Pipe Round	ø 3/4"		FT	0		
13	Flex Pipe Round	ø 1"		FT	0		
14							
15							



		PI	PE FITTINGS 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	PEX 90 Deg Elbow	1/2"ø-1/2"ø		PCS	3		
2	PEX 90 Degree Elbow	1/2"ø-1/2"ø		PCS	14		
}	PEX 90 Degree Elbow	3/4"ø-3/4"ø		PCS	1		
1	PEX Tee Elbow	1/2"ø-1/2"ø-1/2"ø		PCS	3		
<u> </u>	PEX Tee Elbow	3/4"ø-3/4"ø-3/4"ø		PCS	4		
,)	PEX Transition Elbow	1"ø-3/4"ø		PCS	2		
7	PEX Transition Elbow	3/4"ø-1/2"ø		PCS	3		
}	PEX 90 Deg Elbow	1/2"ø-1/2"ø		PCS	1		
)	PEX 90 Degree Elbow	1/2"ø-1/2"ø		PCS	8		
10	PEX 90 Degree Elbow	3/4"ø-3/4"ø		PCS	4		
1	PEX Tee Elbow	1/2"ø-1/2"ø-1/2"ø		PCS	1		
2	PEX Tee Elbow	3/4"ø-3/4"ø-3/4"ø		PCS	3		
13	PEX Transition Elbow	3/4"ø-1/2"ø		PCS	6		
14	PVC 90 Deg Bend Elbow	2"Ø-2"Ø		PCS	4		
15	PVC 90 Degree Bend Elbow	2"ø-2"ø		PCS	10		
		PI	PE FITTINGS 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS 90 Degree Bend Elbow	1 1/2"ø-1 1/2"ø		PCS	1		



2	ABS 90 Degree Bend Elbow	2"Ø-2"Ø	PCS 2
3	ABS 90 Degree Bend Elbow	3"ø-3"ø	PCS 1
4	ABS P-Trap	1 1/2"ø-1 1/2"ø	PCS 3
5	ABS P-Trap	2"Ø-2"Ø	PCS 1
6	ABS Reducer Elbow	2"Ø-1 1/2"Ø	PCS 1
7	ABS Reducer Elbow	3"ø-2"ø	PCS 1
8	ABS TEE Elbow	1 1/2"ø-1 1/2"ø-1 1/2"ø	PCS 1
9	ABS TEE Elbow	2"Ø-2"Ø-2"Ø	PCS 1
10	ABS TEE Elbow	3"ø-3"ø-3"ø	PCS 1
11	ABS Tee Reducer Elbow	3"ø-3"ø-1 1/2"ø	PCS 2
12	ABS Tee Reducer Elbow	3"ø-3"ø-2"ø	PCS 1
13	ABS Tee Reducer Elbow	3"ø-3"ø-3"ø	PCS 1
14	ABS Trap P	2"ø-2"ø	PCS 1
15	WASTE DOUBLE TEE	2"ø-2"ø-2"ø	PCS 1



			PIPE FITTINGS 03				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS Vent Cap Elbow	1 1/2"ø		PCS	1		
2	ABS Vent Cap Elbow	2"ø		PCS	2		
3	ABS Vent Cap Elbow	3"ø		PCS	1		
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							



			APPLIANCES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Refrigerator			PCS	1		
2	Range			PCS	1		
3	Washer Front Load	Stackable		PCS	1		
4	Dryer Front Load	Stackable		PCS	1		
5	Dish Washer			PCS	1		
6	Oven			PCS	(
7	Microwave			PCS	(
8							
9							
10							
11							
12							
13							
14							
15							
16							



			CASEWORKS 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Kitchen Cabinet			FT	15.83		
2	Laundry Cabinet			FT	0		
3	Vanity Cabinet			FT	3.6		
4	Medicine Cabinet			PCS	1		
5	Kitchen countertop			SF	24.61		
6	Laundry Countertop			PCS	0		
7	Bathroom Countertop			SF	0		
8	Island			FT	0		
9	Peninsula			FT	0		
10	Closets			SF	34		
11							
12							
13							
14							
15							



	<u>)</u>		CEILING 01				
	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	STUDIO AREA			SF	196.0		
	Ceiling Board	Drywall		SF	196		
	Drywall Fastener	Screw		PCS	343		
	Vapor Retarder	Polyethylene film		SF	196		
	Vapor Retarder Fastener	Nails with washer heads		PCS	588		
	BATH ROOM			SF	95.0		
	Ceiling Board	MRD (Moisture resistant drywall)		SF	95		
	MRD Fastener	Screw		PCS	166		
	W/D			SF	15.0		
	Ceiling Board	Drywall		SF	15		
	Drywall Fastener	Screw		PCS	26		
	Vapor Retarder	Polyethylene film		SF	15		
)	Vapor Retarder Fastener	Nails with washer heads		PCS	45		
	PORCH			SF	157.0		
1	Ceiling Board	Marine Plywood		SF	157		
2	Exterior Grade Plywood	Screw		PCS	275		



			CEILING 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	WH			SF	8.0		
13	Ceiling Board	Drywall		SF	8		
14	Drywall Fastener	Screw		PCS	14		
15	Vapor Retarder	Polyethylene film		SF	8		
16	Vapor Retarder Fastener	Nails with washer heads		PCS	24		
	CLOSET			SF	7.0		
17	Ceiling Board	Drywall		SF	7		
18	Drywall Fastener	Screw		PCS	12		
19	Vapor Retarder	Polyethylene film		SF	7.0		
20	Vapor Retarder Fastener	Nails with washer heads		PCS	21.0		
	HALL			SF	42.0		
21	Ceiling Board	Drywall		SF	42		
22	Drywall Fastener	Screw		PCS	74		
23	Vapor Retarder	Polyethylene film		SF	42.0		
24	Vapor Retarder Fastener	Nails with washer heads		PCS	126.0		



			FLOORING INTERIOR 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	CLOSET						
1	Closet Flooring			SF	8		
2	Wood underlay	Foam Pad Polyethylene		SF	3		
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	8		
	LIVING ROOM AND KITC	HEN					
4	Tile Finish			SF	435		
5	Adhesive	1/2" Thin set Mortar		SF	435		
6	Vapor Retarder	Vapor Barrier Polyethylene		SF	435		
	BATHROOM						
7	Tile Finish			SF	73		
8	Adhesive	1/2" Thin set Mortar		SF	73		
9	Vapor Retarder	Vapor Barrier Polyethylene		SF	73		
	GARAGE						
10	Tile Finish			SF	264		
11	Adhesive	1/2" Thin set Mortar		SF	264		
12	Vapor Retarder	Vapor Barrier Polyethylene		SF	264		



			FLOORING INTERIOR 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	W/D						
13	Tile Finish			SF	15		
14	Adhesive	1/2" Thin set Mortar		SF	15		
15	Vapor Retarder	Vapor Barrier Polyethylene		SF	15		
	BOILER ROOM						
16	Tile Finish			SF	8		
17	Adhesive	1/2" Thin set Mortar		SF	8		
18	Vapor Retarder	Vapor Barrier Polyethylene		SF	8		



	1		FLOORING EXTERIOR			
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price
	STRUCTURE			SF	778.44	
1	Concrete Slab	4"concrete cast in situ		CF	259.48	
2	Insulation	Rigid insulation		SF	224.02	
3	Hard core	Compacted soil		CF	204.07	
4	Re-bar	#4 re-bar		Ton	0.72	
5	Concrete Pad	4"concrete cast in situ		CF	2	
6	Slab edge	Turndown		CF	183.79	
7	Footing	Cast-in-place concrete		CF	4.68	
	PORCH					
8	Tile Finish			SF	163	
9	Adhesive	1/2" Thin set Mortar		SF	163	
10	Vapor Retarder	Vapor Barrier Polyethylene		SF	163	



			WALLS: EXTERIOR				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Exterior-Grade Plywood Horizontal Siding			SF	867		
2	Exterior-Grade Plywood Fastener 8/panel	Self-drilling screws(100/pkt)		PKT	8.67		
3	Wall Shteathing (OSB)			SF	867		
4	Shteathing Fastener	Self-drilling screws(100/pkt)		PKT	8.67		
5	Wall Homewrap			SF	867		
6	Homewrap Fastener	Stapled fastener (200/pkt)		PKT	3.29		
7	Furring Strip			PCS	108.38		
8	Furring Strip Fastener	Self-drilling screws(100/pkt)		PKT	8.67		
9	Wall Paint			SF	867		
10	Stone Copping	Masonry stone		SF	0		
11	Stone Veneer	Masonry stone		SF	0		
12	Mortar for Stone Veneer			SF	0		
13	Wall Insulation			SF	1245		



			WALLS: INTERIOR 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	BATHROOM			SF	88.0		
1	Cementitious Backer Board			SF	401		
2	Kerdi membrane			SF	401		
3	Kerdi membrane Fastener			SF	401		
4	Wall Ceramic Tile			SF	401		
	CL			SF	9.0		
5	Drywall Board			SF	111		
6	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.11		
7	Wall Paint			SF	111		
8	Drywall Tape			FT	20.8		
	HALL			SF	58.0		
9	Drywall Board			SF	198		
10	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.98		
11	Wall Paint			SF	198		
12	Drywall Tape			FT	37.1		



			WALLS: INTERIOR 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	STUDIO			SF	293.0		
13	Drywall Board			SF	466		
14	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	4.66		
15	Wall Paint			SF	466		
16	Drywall Tape			FT	87.4		
	KITCHEN			SF	83.0		
17	Cementitious Backer Board			SF	25		
18	Drywall Board			SF	163		
19	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.63		
20	Kerdi membrane			SF	25		
21	Kerdi membrane Fastener			SF	25		
22	Wall Ceramic Tile			SF	25		
23	Wall Paint			SF	163		
24	Drywall Tape			FT	30.8		



			WALLS: INTERIOR 03				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	WD			SF	13.0		
29	Cementitious Backer Board			SF	86		
30	Kerdi membrane			SF	86		
31	Kerdi membrane Fastener			SF	86		
32	Wall Ceramic Tile			SF	86.0		
	WH			SF	8.0		
33	Drywall Board			SF	75		
34	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	0.75		
35	Wall Paint			SF	75		
36	Drywall Tape			FT	14		
1	Wall Sweep			FT	78		



			DOORS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Interior Swinging	3' - 0" X 6'-8"		PCS	1		
2	Exterior Swinging	3' - 0" X 6'-8"		PCS	2		
3	Bifold	2' - 4" X 6'-8"		PCS	1		
4	Bifold	3' - 3" X 6'-8"		PCS	1		
5	Bifold	4' - 10" X 6'-8"		PCS	1		
6	Exterior Door Trim			FT	33.34		
7	Interior Door Trim			FT	166.34		
8	Entry Lock set			PCS	2		
9	Privacy Lock set			PCS	1		
10	Passage Lock set			PCS	3		
11							
12							
13							
14							
15							



			WINDOWS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Sliding	3' - 3" X 3'-3"		PCS	4		
2	Sliding	3' - 3" X 1'-9"		PCS	2		
3	Exterior Window Trim			FT	105.36		
4	Interior Window Trim			FT	105.36		
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							



			ROOF 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Roof Covering			SF	1023.0		
2	Roof Covering Fastener			PCS	512		
3	Roof Felt Paper			SF	1023.0		
4	Roof Felt Paper Fastener			PCS	3069.0		
5	Roof Sheathing			SF	1023.0		
6	Roof Sheathing Fastener			PCS	8184		
7	Batten			FT	0.0		
8	Batten Fastener			PCS	0.0		
9	Soffit			SF	243.0		
10	Soffit Fastener			PCS	121.5		
11	Fascia			FT	133.0		
12	Fascia board fastener			PCS	67		
13	Roof Insulation			SF	1023.0		
14							
15							