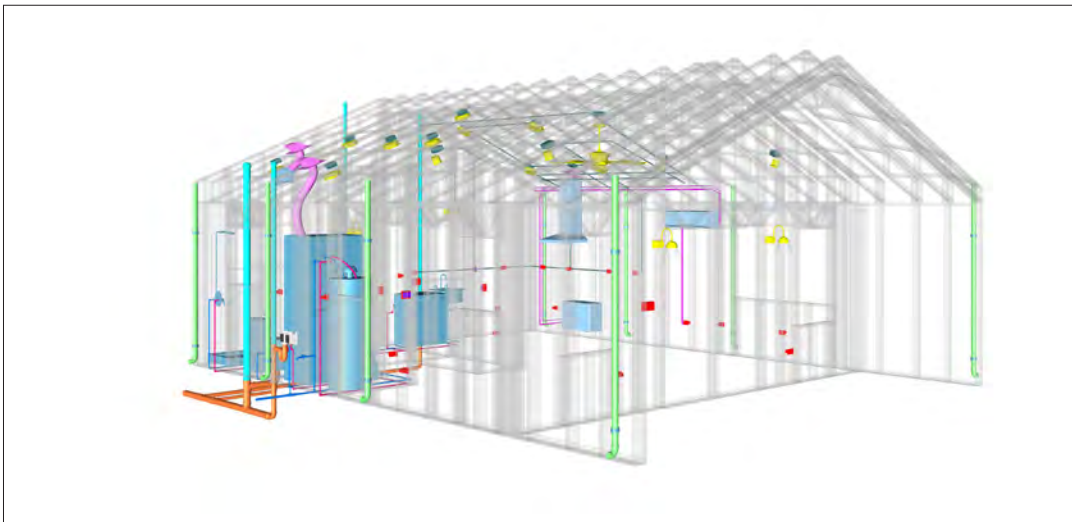




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OWNER

NAME	
EMAIL	
PHONE	

CONTRACTOR

NAME	
EMAIL	
PHONE	

SITE LOCATION

COUNTRY	
STATE	
ZIP CODE	

SITE INFORMATION

PARCEL I.D.	
SQ.FOOTAGE	

MINIMUM SETBACKS

FRONT	
SIDE	
REAR	

ZONING

--	--

CODES AND AMENDMENTS

CODE BOOK	
SNOW LOAD	
WIND SPEED	
SEISMIC DESIGN CATEGORY	
WEATHERING	
FROST LINE DEPTH	
TERMITE	
DECAY	
WINTER DESIGN TEMP	
FLOOD HAZARDS	

LINE LEGEND

HIDDEN LINE	----	CUT LINE	----
ROOM SEPARATOR	----	CALL OUT BOUNDRY	----
DOOR OPENING DIRECTION	----	LEVEL	----
OVER HEAD	----	GROUND CUT	----

SYMBOLS

SYMBOLS NAME

	VIEW NUMBER SHEET NUMBER	CALLOUT HEAD
	VIEW NUMBER SHEET NUMBER	INTERIOR ELEVATION
	VIEW NUMBER SHEET NUMBER	BUILDING ELEVATION
	VIEW NUMBER SHEET NUMBER	SECTION
	VIEW NUMBER SHEET NUMBER	DETAIL VIEW
	Name Elevation	ELEVATION LEVEL
	FLOOR LEVEL	SPOT ELEVATION
	FLOOR SLOPE SLOPE DIRECTION	FLOOR SLOPE
	ROOF SLOPE SLOPE DIRECTION	ROOF SLOPE
	ROOF SLOPE SLOPE DIRECTION	ROOF SLOPE ELEVATION

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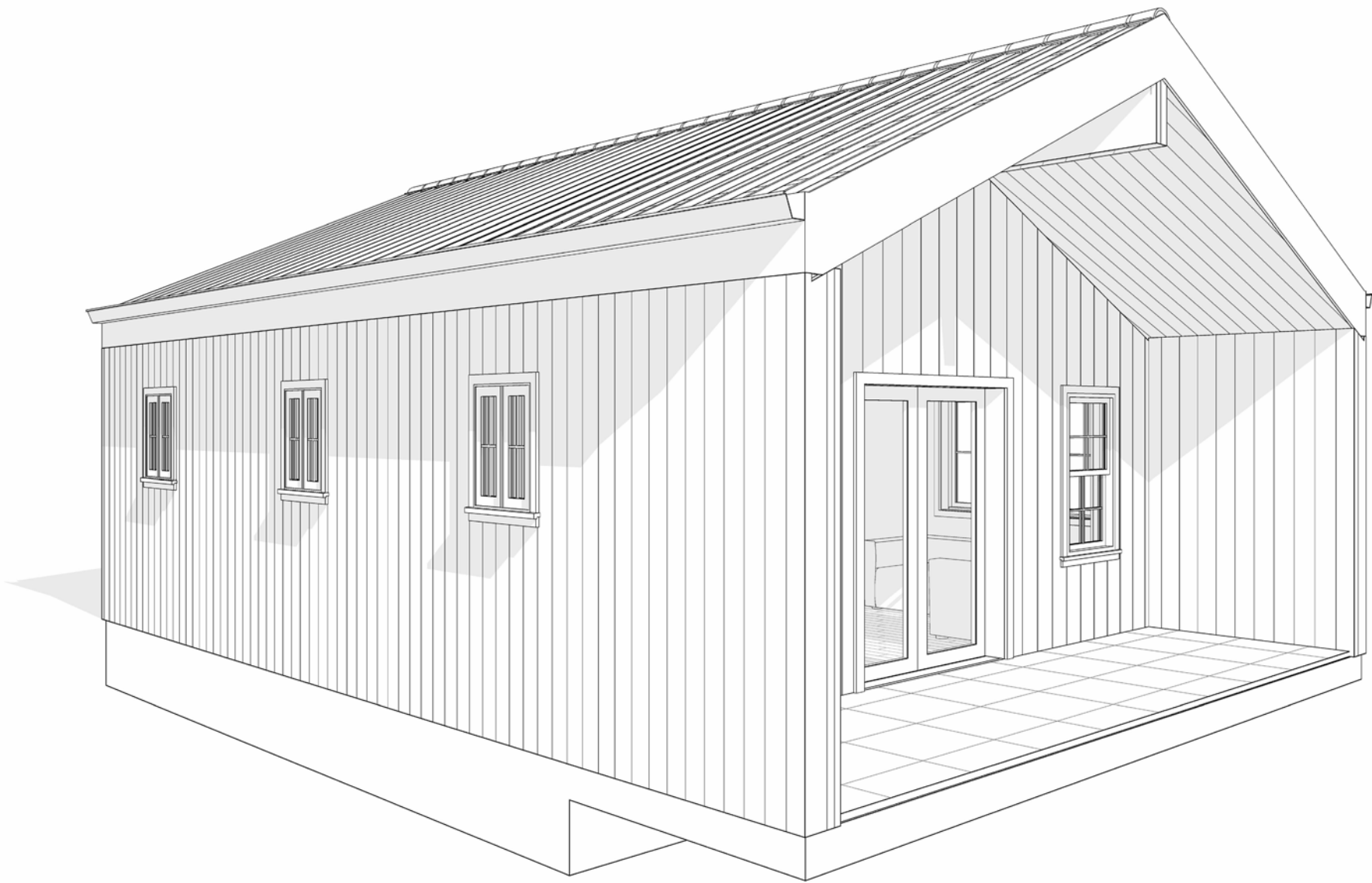
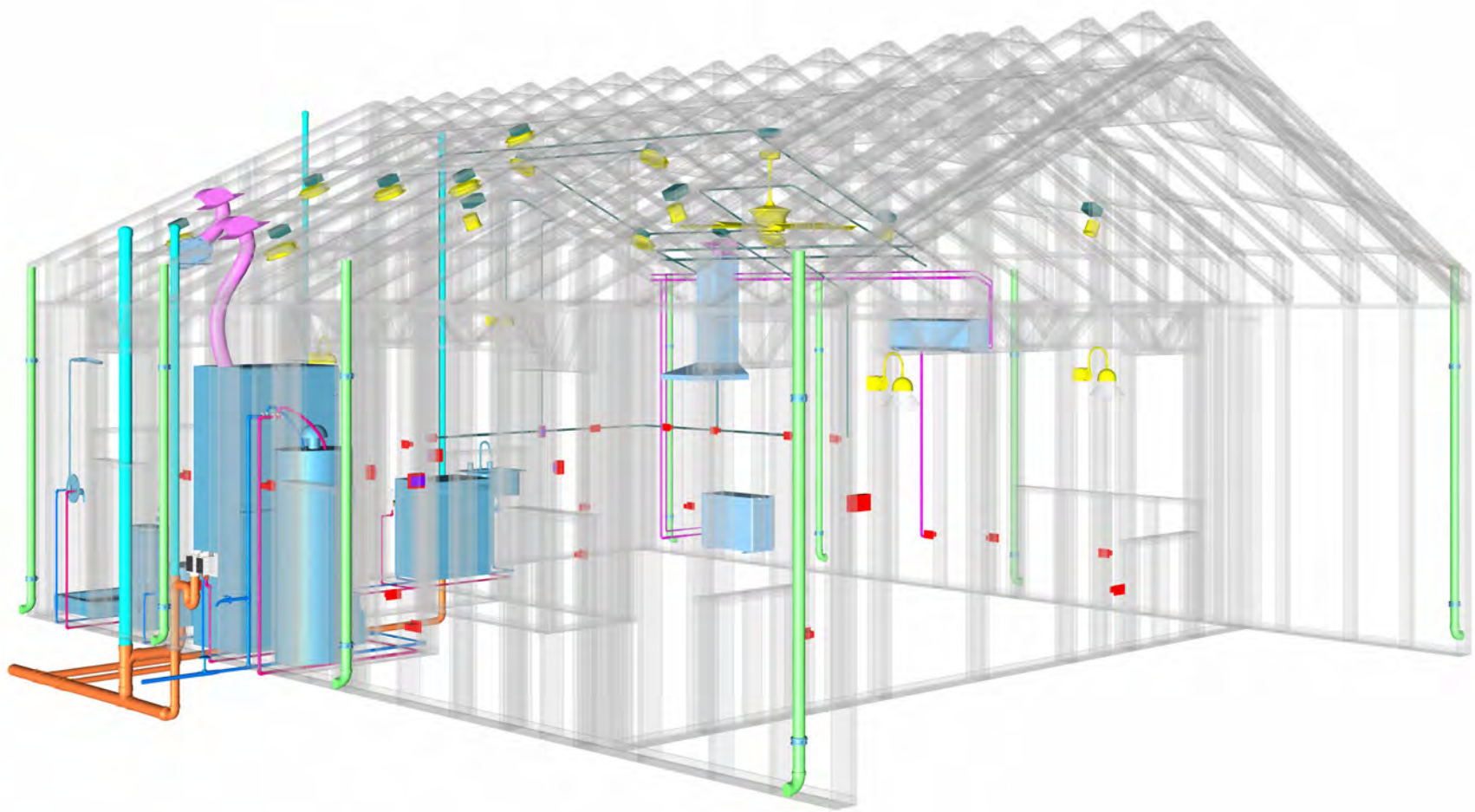
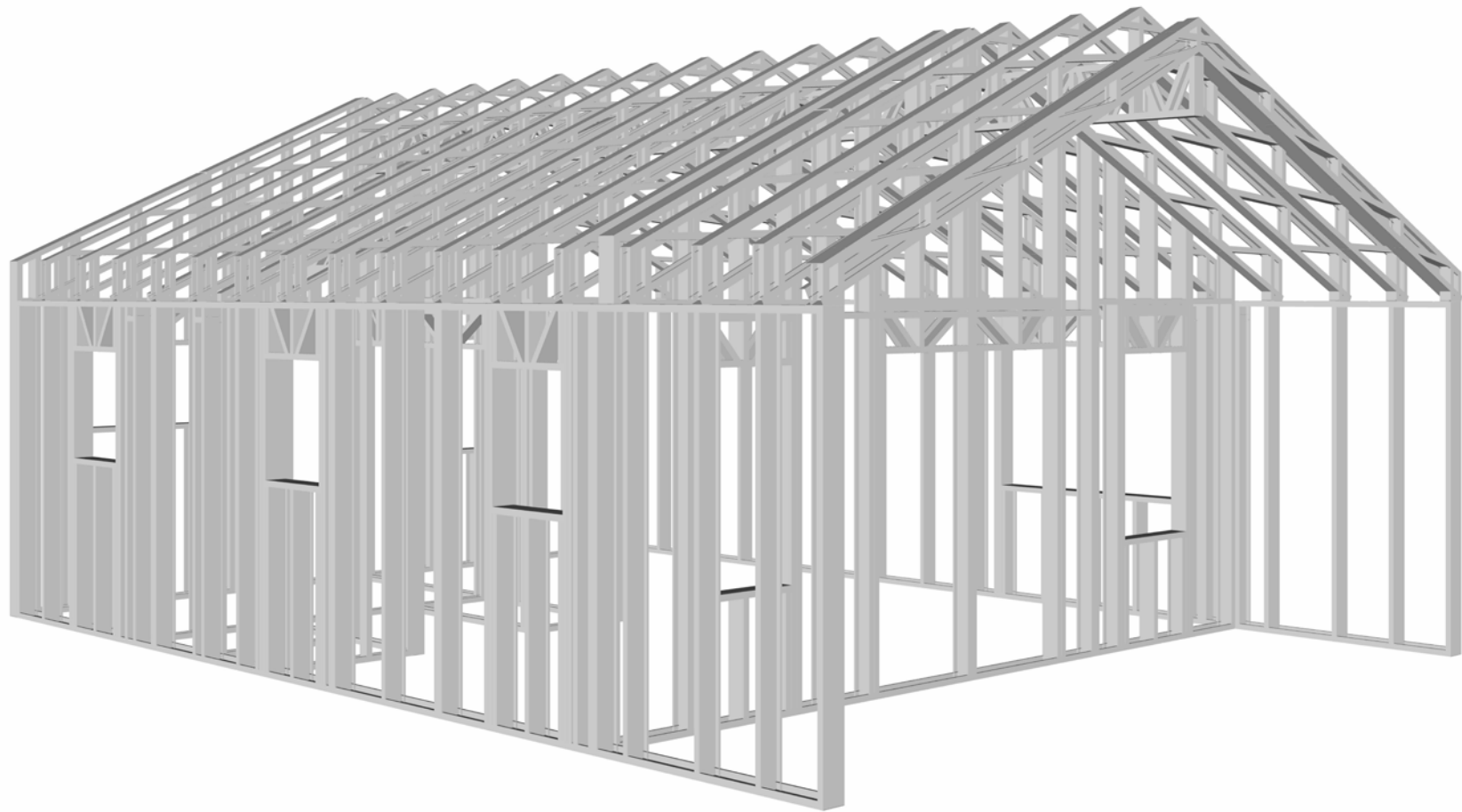
G101	COVER SHEET
A101	FLOOR PLAN
A102	DIMENSION PLAN
S101	FOUNDATION PLAN
S102	STRUCTURAL FLOOR PLAN
S103	FRAME LAYOUT
S104	ROOF TRUSS LAYOUT
A103	ROOF PLAN
A201	ELEVATIONS
A202	ELEVATIONS
A301	SECTIONS
A401	DETAILS
A402	CASEWORK DETAILS
A403	CASEWORK DETAILS
E101	SCHEDULE
E102	LIGHTING PLAN
E103	POWER PLAN
E104	DIMENSION PLAN FOR LIGHT FIXTURE
E105	DIMENSION PLAN FOR FITTING
P101	COVER SHEET
P102	WATER SUPPLY SYSTEM
P103	SEWAGE SYSTEM
P104	RISER DIAGRAM
M101	HVAC PLAN
M102	HVAC SECTION
M103	RISER DIAGRAM

TAG

CA01	CASEWORK TAG
1	DOOR TAG
1	FURNITURE TAG
1	WINDOW TAG
SE01	SPECIALTY EQUIPMENT TAG
ME01	MECHANICAL EQUIPMENT TAG
PE01	PLUMBING EQUIPMENT TAG

ABBREVIATION

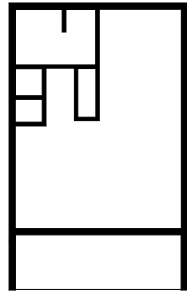
AFS	ACTION FLOOR SYSTEMS
ASTM D698	AMERICAN SOCIETY FOR TESTING AND MATERIAL
CA	CASEWORK
EL	ELECTRICAL
F.F.E	FINISHED FLOOR ELEVATION
F.F.L	FINISHED FLOOR LEVEL
FTG	FOOTINGS
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IRC	INTERNATIONAL RESIDENCE CODE
IMC	INTERNATIONAL MECHANICAL CODE
MAX.	MAXIMUM
ME	MECHANICAL
MIN.	MINIMUM
NO.	NUMBER
O.C	ON CENTER
OSB	ORIENTED STRAND BOARD
PL	PLUMBING
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
REF	REFERENCE
RG	RIGHT GARAGE
SE	SPECIAL EQUIPMENT
SF	SQUARE FEET
SIMP. STD8	SIMPSON STRAP THE HOLDDOWN
SIMP. ABE66	SIMPSON ANCHOR BOLT EDGE
TV	TELEVISION
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/D	WASHER/DRYER
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
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 UNIT
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



151 HAVEN 499 STUDIO
CONTEMPORARY
BARN 550

SQUARE FOOTAGE	
LIVING	485
PORCH	120
TOTAL	605

KEY PLAN



PERSPECTIVE
ANGLE

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-
Contemporary Barn-550

DRAWING NAME

COVER SHEET

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:15 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

G101

SCALE: As indicated

GENERAL NOTES

1. 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 STANDARDS.
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:

1. 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.
2. 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:

1. 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.
7. 5% SLOPE FOR GARAGE IS USED, WHICH SHOULD BE CHECKED WITH THE LOCAL GARAGING ZONING LAWS.

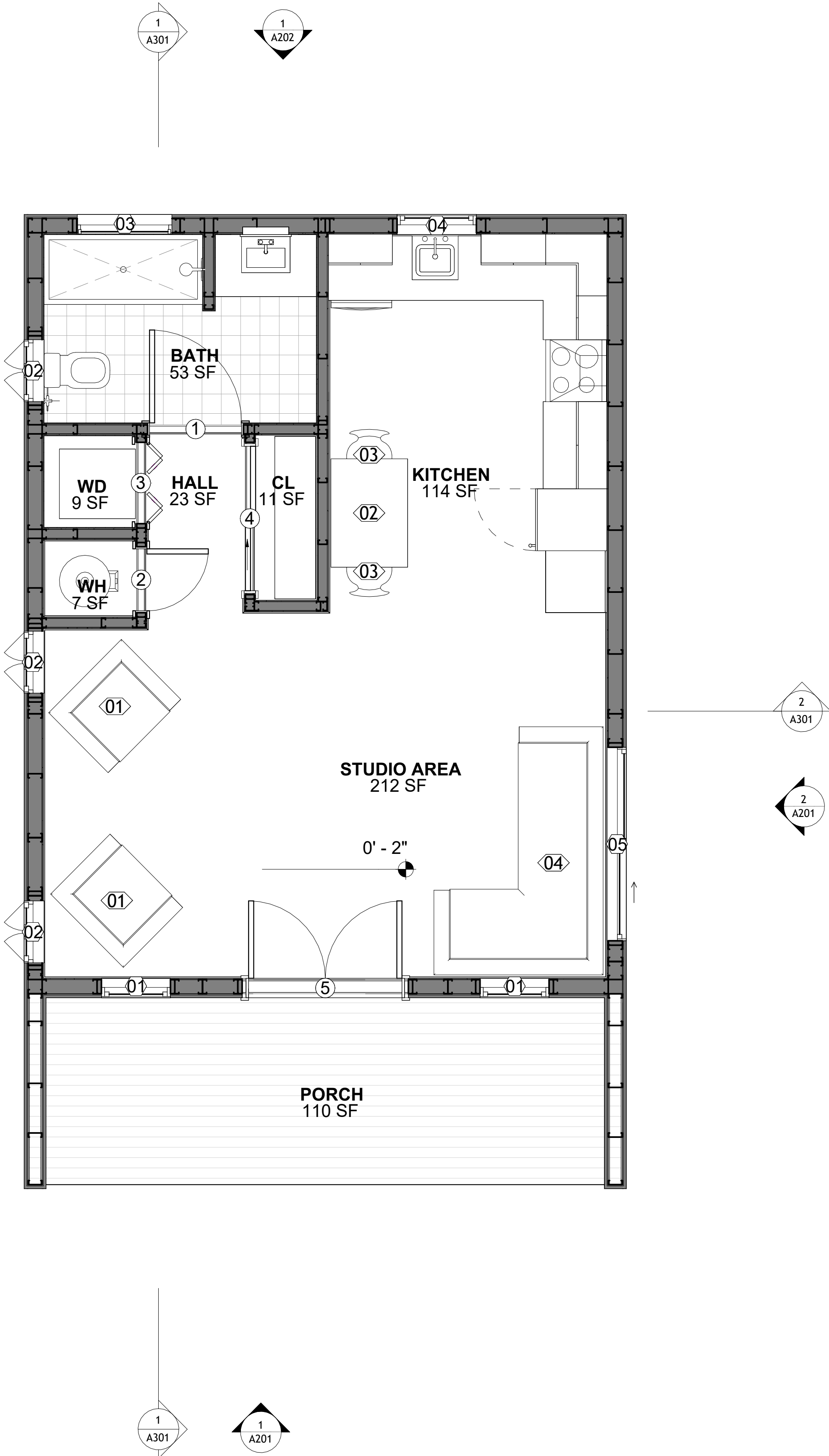
FURNITURE SCHEDULE		
TYPE MARK	TYPE	COUNT
01	ONE SEAT SOFA	2
02	CLOSED - 900 X 660MM 2	1
03	DINING CHAIR	2
04	FOUR SIT 65" X 95"	1

ROOM FINISH SCHEDULE							
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
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	CL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
05	WD	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
06	WH	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
07	HALL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
08	PORCH	PROCELAIN TILE	CONCRETE	EXTERIOR-GRADE PLYWOOD	PLYWOOD	8' - 0"	

1

FLOOR PLAN

3/8" = 1'-0"



SQUARE FOOTAGE	
LIVING	485
PORCH	120
TOTAL	605

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

FLOOR PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:15 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A101

SCALE: As indicated

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

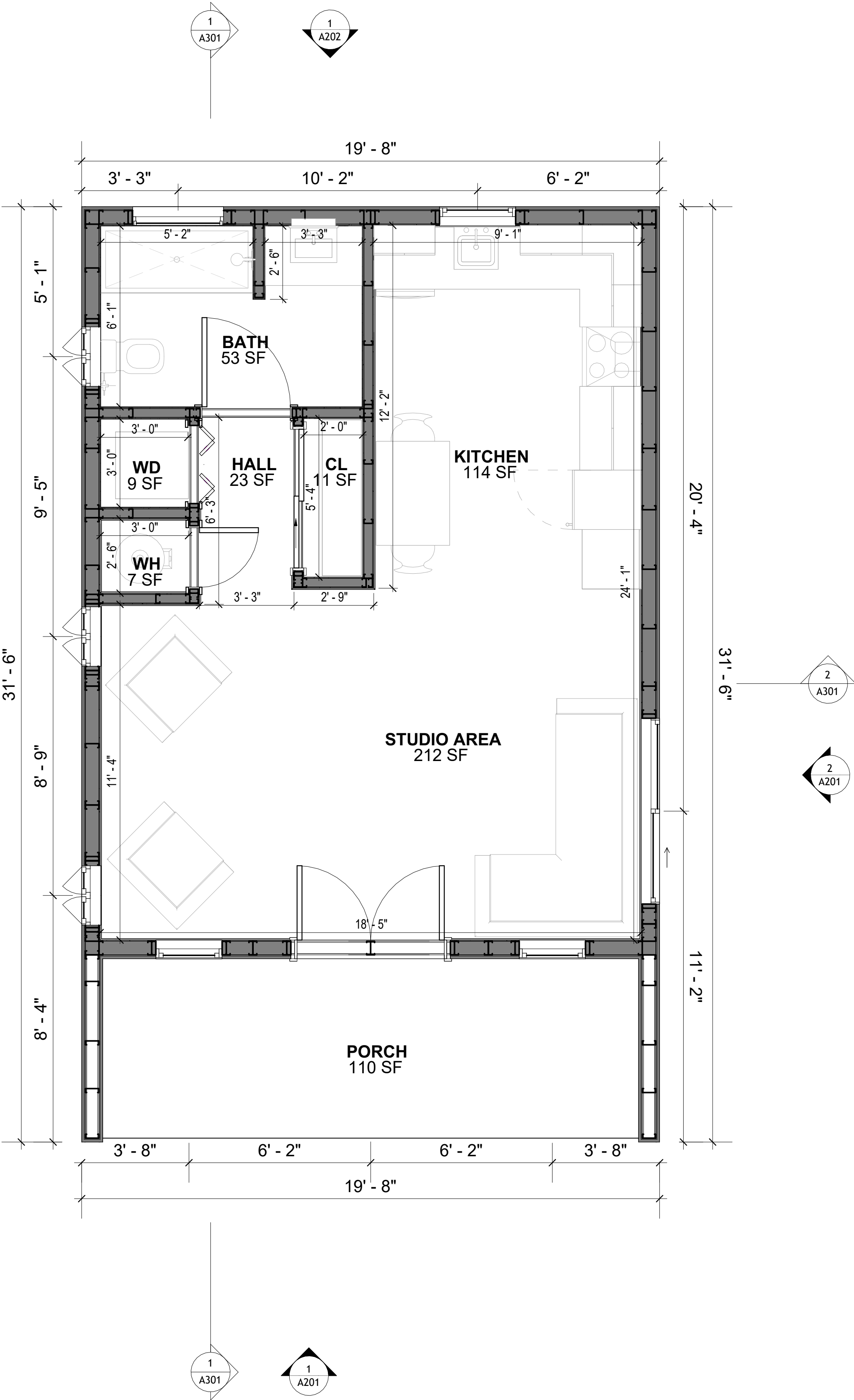
DIMENSION PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:16 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A102

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

1 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.

FOUNDATION NOTES

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.

1. **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 INSPECTION
- 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 2021
- 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.

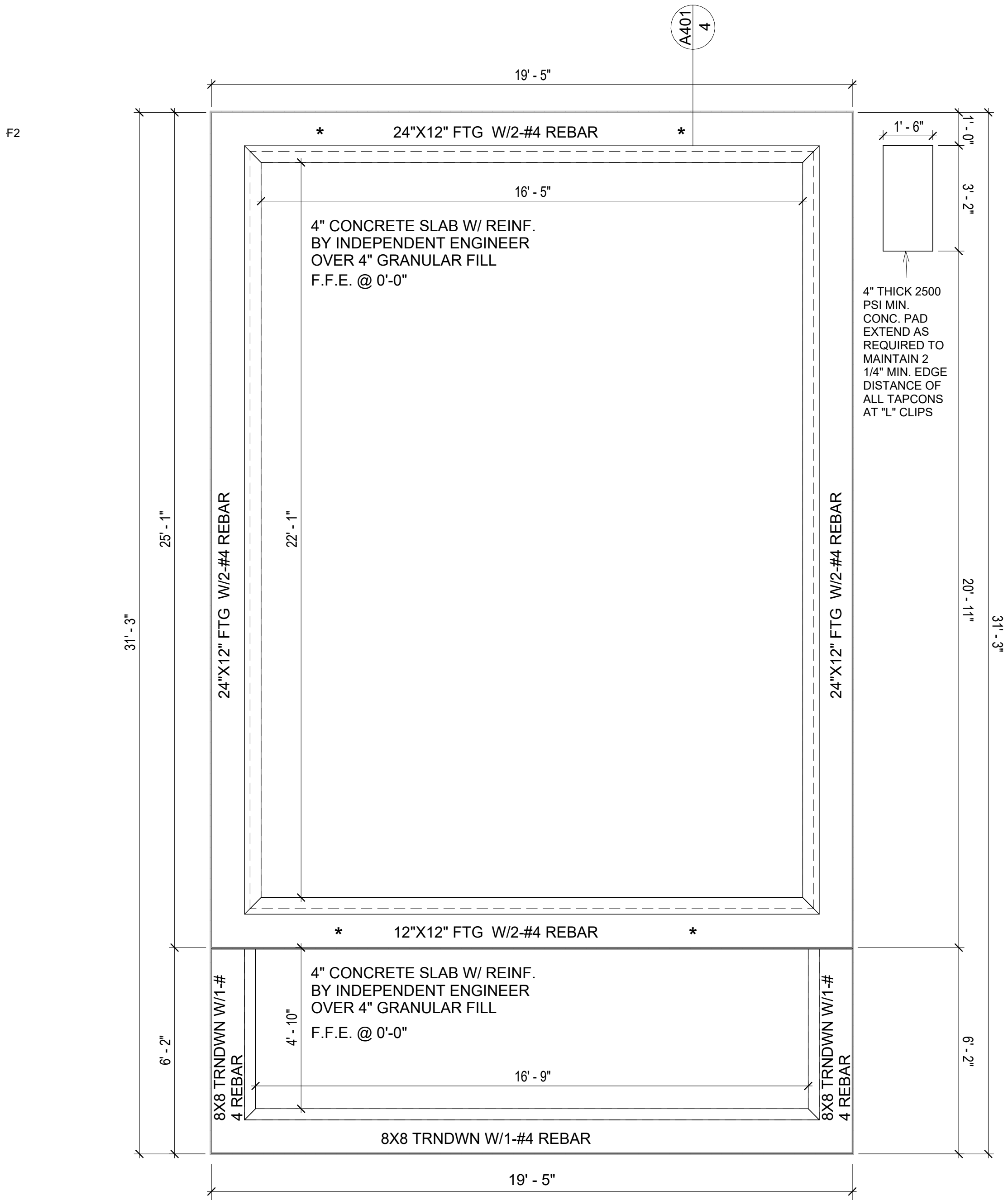
3. **CONCRETE CONSTRUCTION:**
- THE SLAB SHALL BE UNDERLAIN BY A VAPOR BARRIER/RETARDER IN THE LIVING AREA (TYPICALLY POLYETHYLENE, UNLESS MORE STRINGENT PROTECTION REQUIRED BY THE ARCHITECT, ENGINEER, FLOOR COVERING MANUFACTURER, OR ACCEPTED PRACTICE). UNLESS OTHERWISE REQUIRED, BARRIER MAY BE OMITTED 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.

4. **REINFORCEMENT :**
- 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:
1. 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
3. 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.
4. 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:

1. ALL HOLDDOWNS , STRAP, AND POST LOCATIONS.
2. CONCRETE FINISHES. PANEL RISER LOCATION - WHERE APPLICABLE.
3. UNDERSLAB MECHANICAL REQUIREMENTS.
4. 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.
7. SLOPE FINISH GRADE AWAY FROM FOOTING.

NOTE: FIELD VERIFY ALL DIMENSIONS SEE DIMENSIONED ARCHITECTURAL DRAWINGS



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

SQUARE FOOTAGE	
LIVING	485
PORCH	120
TOTAL	605

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT
151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME
FOUNDATION PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:16 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

S101

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

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

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.
2. TERMITE PROTECTION SHALL BE PROVIDED PER IRC SECTION R318.1
3. NONE TYPICAL ANCHOR BOLT SPACING AT SHEAR WALL AND HOLD DOWN SPECIFICATIONS PER APPROVED ARCHITECTURAL PLANS.
4. INSTALL HOLDDOWNS 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.

1. REINFORCEMENT
2. 2300 PSI CONCRETE POUR

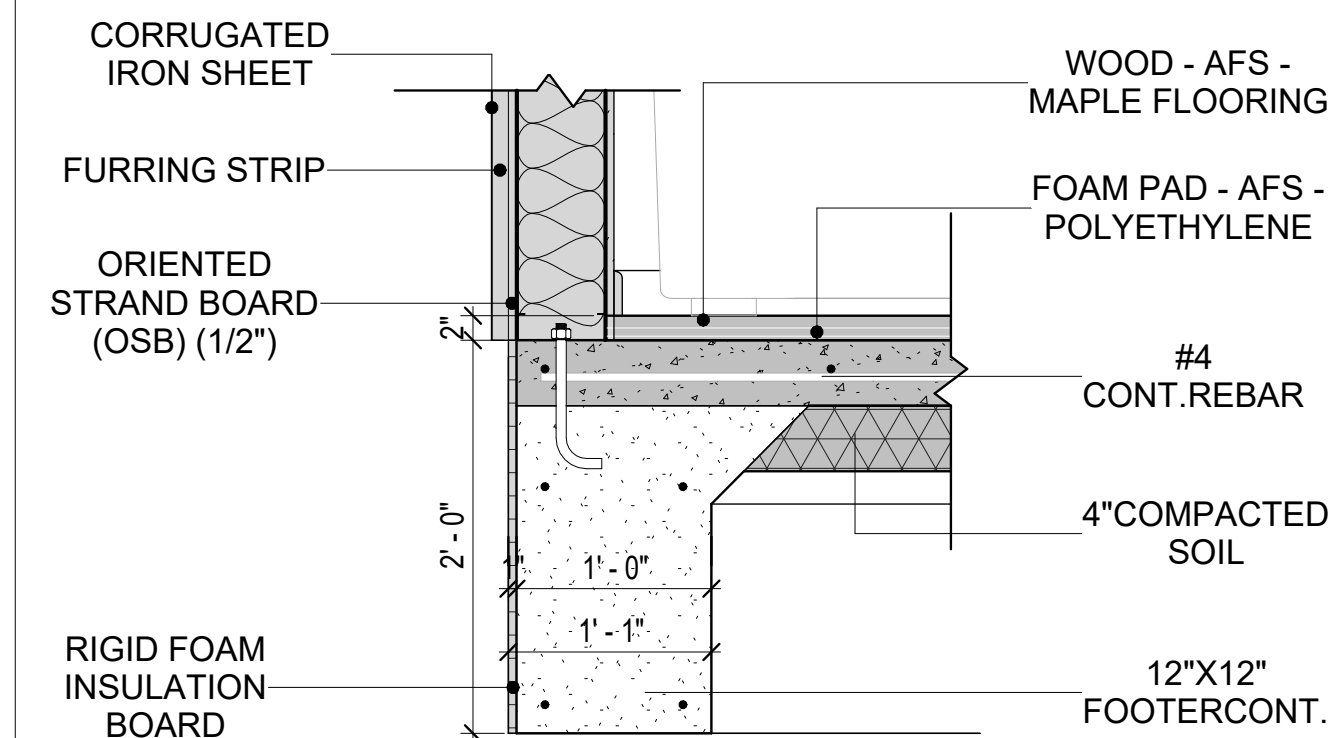
1. ALL REINFORCING SLABS BARS SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE TO ASTM-A706, AND BARS SMALLER THAN 10 MM MAYBE PLAIN.
2. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:

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 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.

- 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" = 1'-0"



KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

**151-Haven-499-Studio-
Contemporary Barn-550**

DRAWING NAME

STRUCTURAL FLOOR PLAN

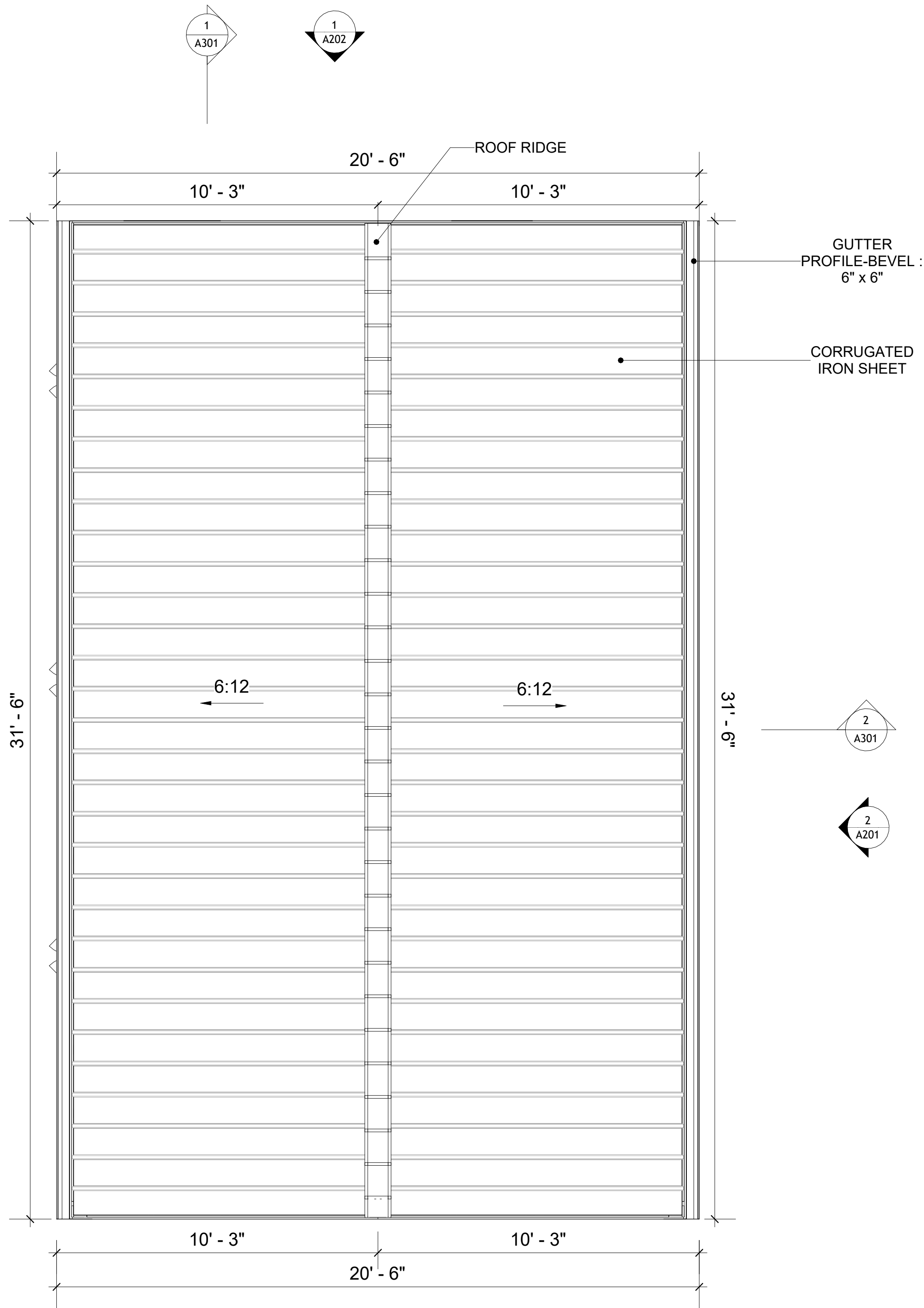
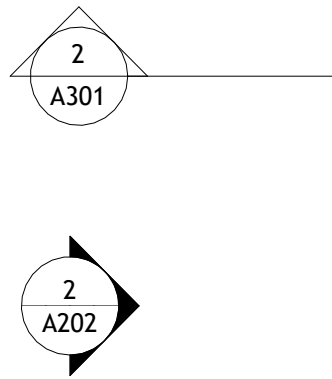
CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:17 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

S102

SCALE: **As indicated**

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.
- 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.



1

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

SQUARE FOOTAGE	
LIVING	485
PORCH	120
TOTAL	605

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

ROOF PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:19 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A103

SCALE: As indicated

ABOUT WALL FINISHING

CORRUGATED IRON SHEET

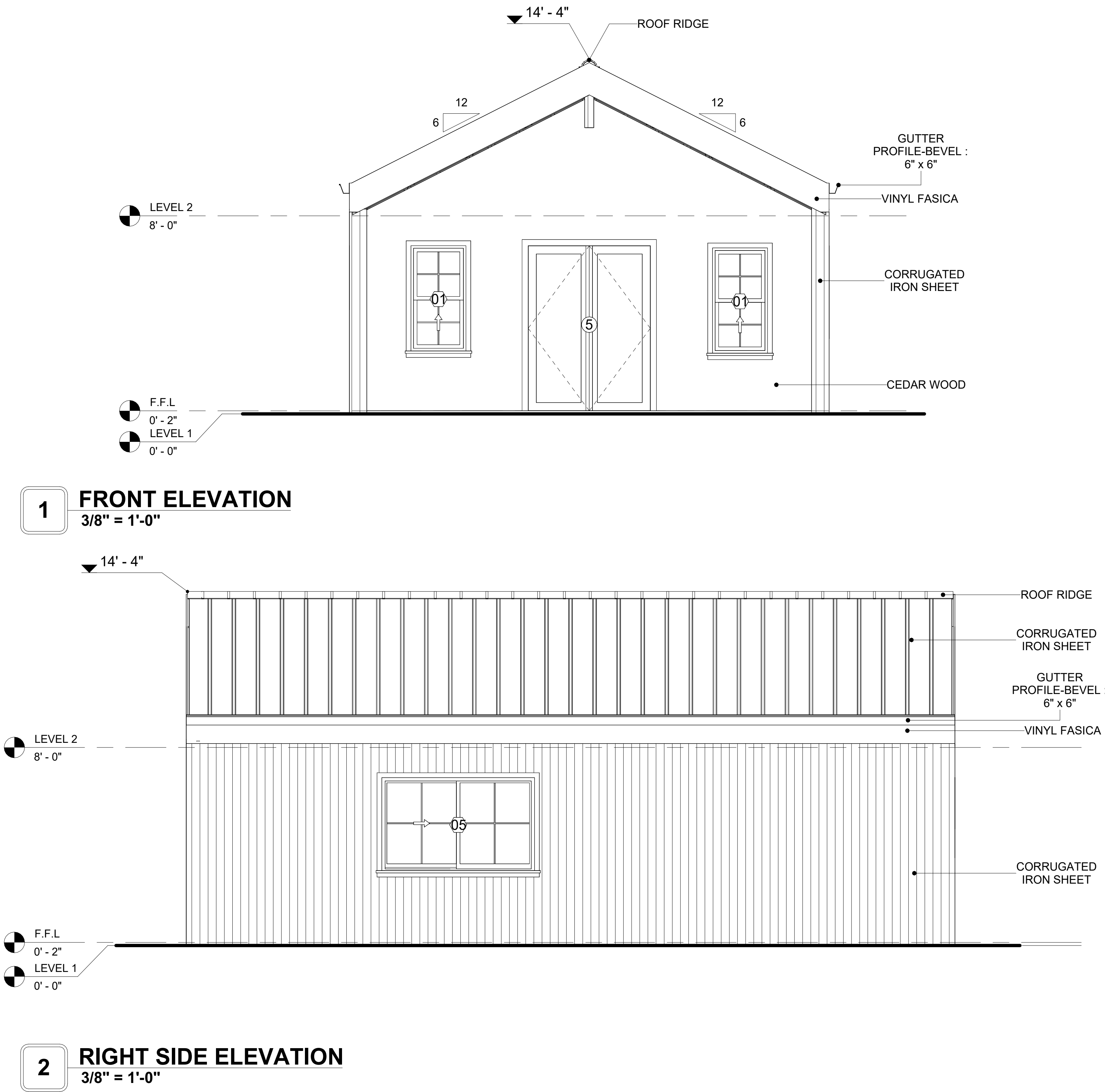
CORRUGATED IRON IS A FINISHING MATERIAL MADE FROM STEEL THAT HAS BEEN GALVANIZED (COATED WITH A THIN LAYER OF ZINC) TO PROTECT IT FROM CORROSION AND RUST.

IN THIS SPECIFIC PROJECT, THE CORRUGATED IRON SHEETS ARE INSTALLED HORIZONTALLY ON VERTICAL FURRING STRIPS THAT ARE DIRECTLY ATTACHED ONTO THE PROPERLY INSTALLED AND SEALED HOME WRAP, USING SELF-DRILLING SCREWS THAT ARE DRIVEN THROUGH THE RIDGES OR VALLEYS OF THE CORRUGATIONS.

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.

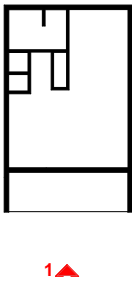
IN THIS SPECIFIC PROJECT, CEDAR WOOD IS USED A FINISH MATERIAL ON BEAMS AND COLUMNS.



DOOR SCHEDULE						
TYPE MAR K	SUPPLIER	DOOR TYPE	LOCATIO N	SIZE		COUNT
				WIDTH	HEIGHT	
1	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
2	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	2' - 0"	6' - 8"	1
3	HOME DEPOT	DOOR-BIFOLD_9052	INTERIOR	2' - 6"	6' - 8"	1
4	HOME DEPOT	INTERIOR DOUBLE PANEL SLIDING	INTERIOR	4' - 8"	6' - 8"	1
5	HOME DEPOT	EXTERIOR DOUBLE PANEL SWINGING	INTERIOR	5' - 0"	6' - 8"	1

WINDOW SCHEDULE					
TYPE MARK	SUPPLIER	WINDOW TYPE	SIZE		COUNT
			WIDTH	HEIGHT	
01	HOME DEPOT	SINGLE HUNG	2' - 3"	4' - 3"	2
02	HOME DEPOT	DOUBLE HUNG	2' - 0"	2' - 4"	3
03	HOME DEPOT	FIXED	3' - 1"	2' - 1"	1
04	HOME DEPOT	SINGLE HUNG	2' - 7"	3' - 3"	1
05	HOME DEPOT	SLIDING	6' - 3"	3' - 9"	1

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:21 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

ABOUT WALL FINISHING

CORRUGATED IRON SHEET

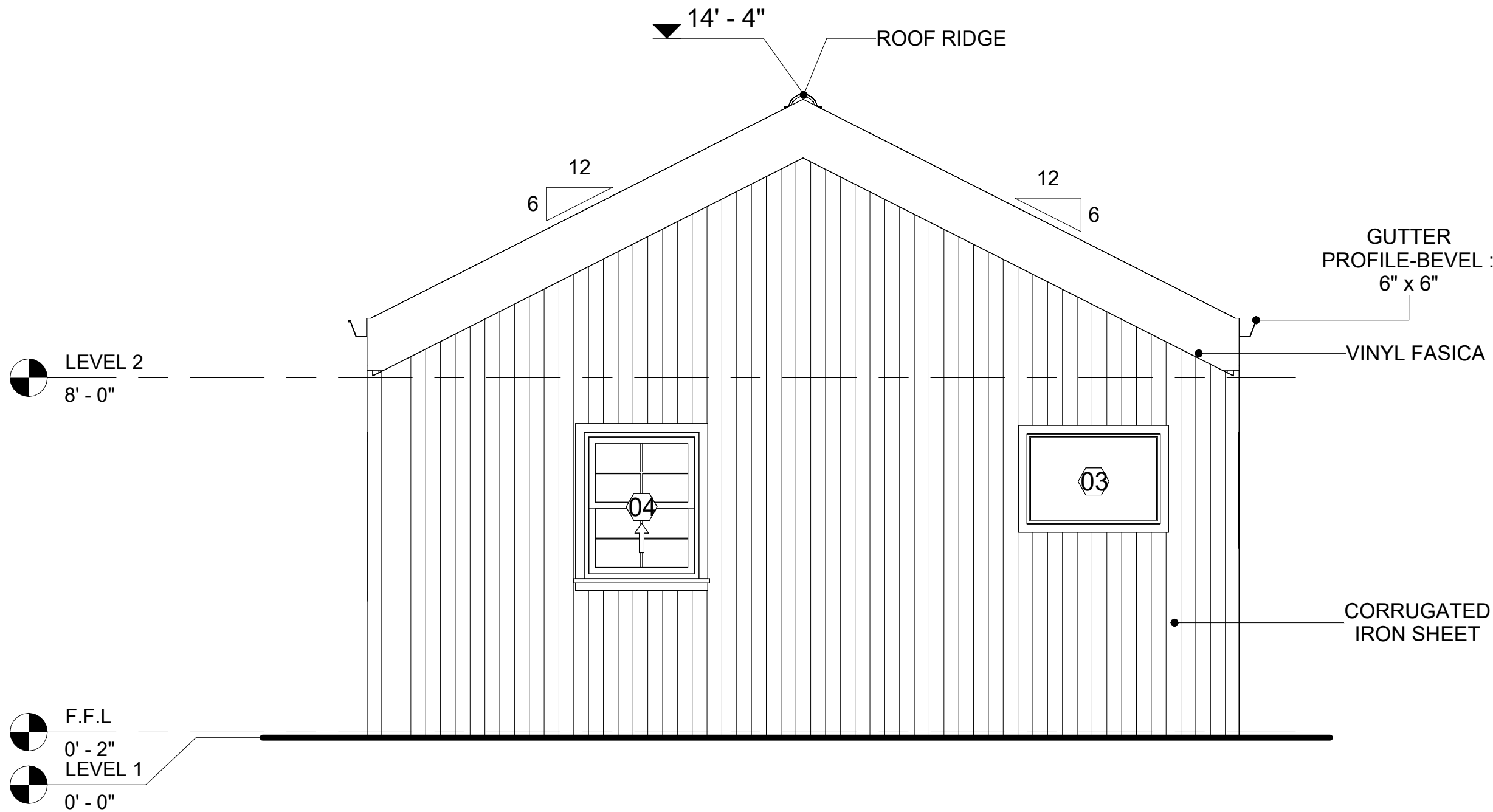
CORRUGATED IRON IS A FINISHING MATERIAL MADE FROM STEEL THAT HAS BEEN GALVANIZED (COATED WITH A THIN LAYER OF ZINC) TO PROTECT IT FROM CORROSION AND RUST.

IN THIS SPECIFIC PROJECT, THE CORRUGATED IRON SHEETS ARE INSTALLED HORIZONTALLY ON VERTICAL FURRING STRIPS THAT ARE DIRECTLY ATTACHED ONTO THE PROPERLY INSTALLED AND SEALED HOME WRAP, USING SELF-DRILLING SCREWS THAT ARE DRIVEN THROUGH THE RIDGES OR VALLEYS OF THE CORRUGATIONS.

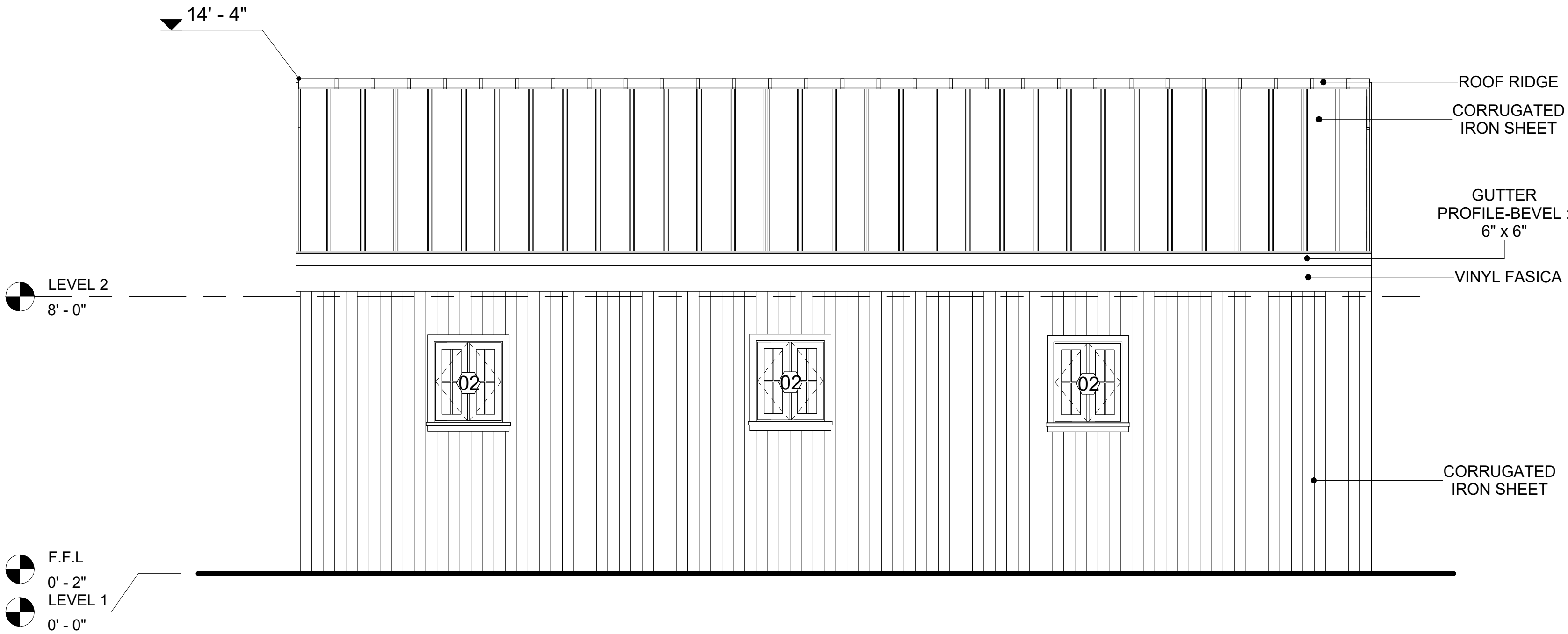
CEDAR WOOD

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 A FINISH MATERIAL ON BEAMS AND COLUMNS.

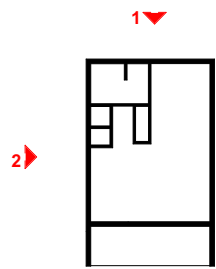


1 REAR ELEVATION
3/8" = 1'-0"



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

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

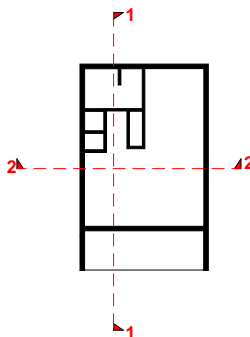
LEGEND:

PROJECT
151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME
ARCHITECTURAL ELEVATIONS

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:23 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

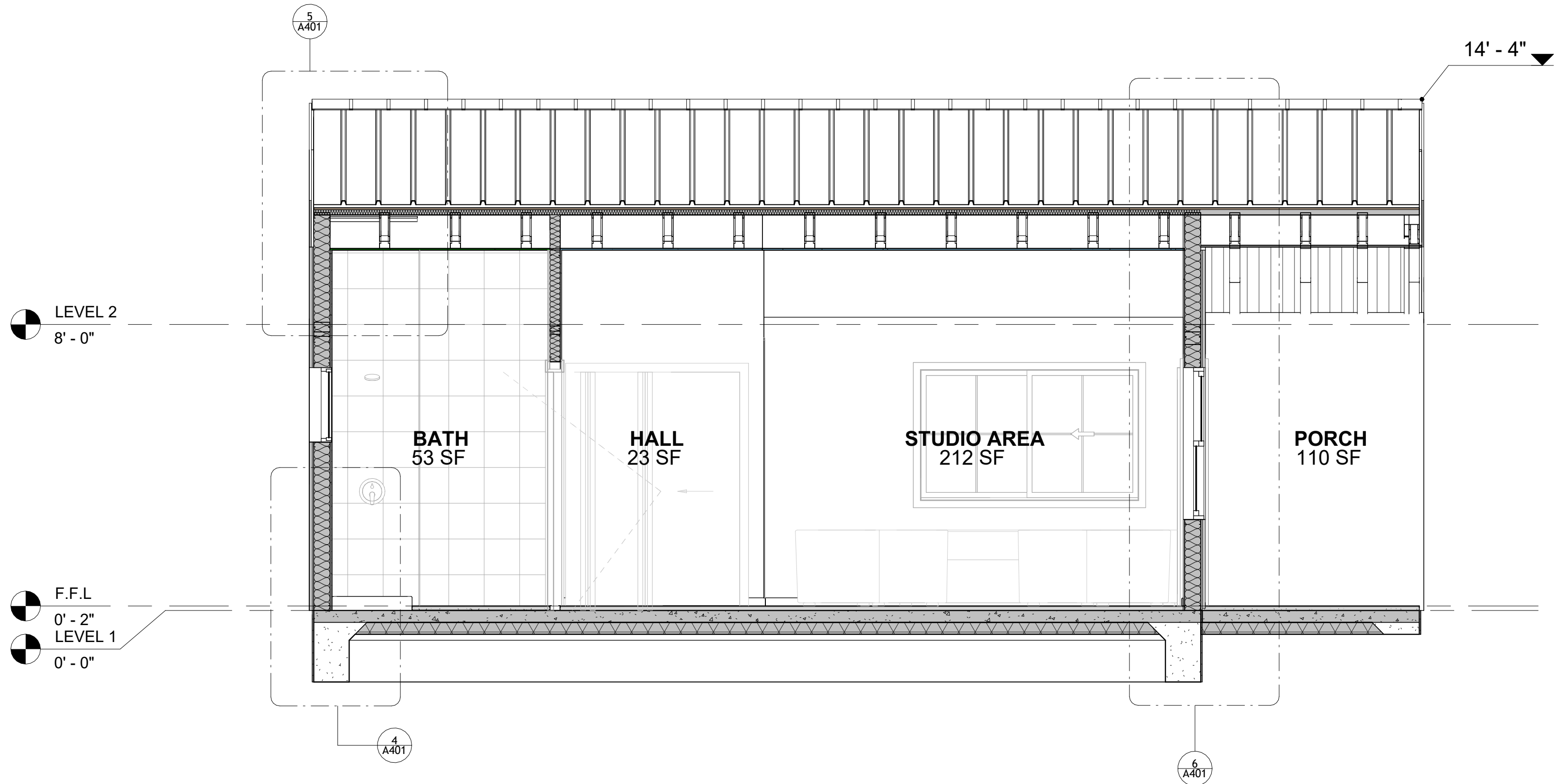
DRAWING NAME

ARCHITECTURAL SECTIONS

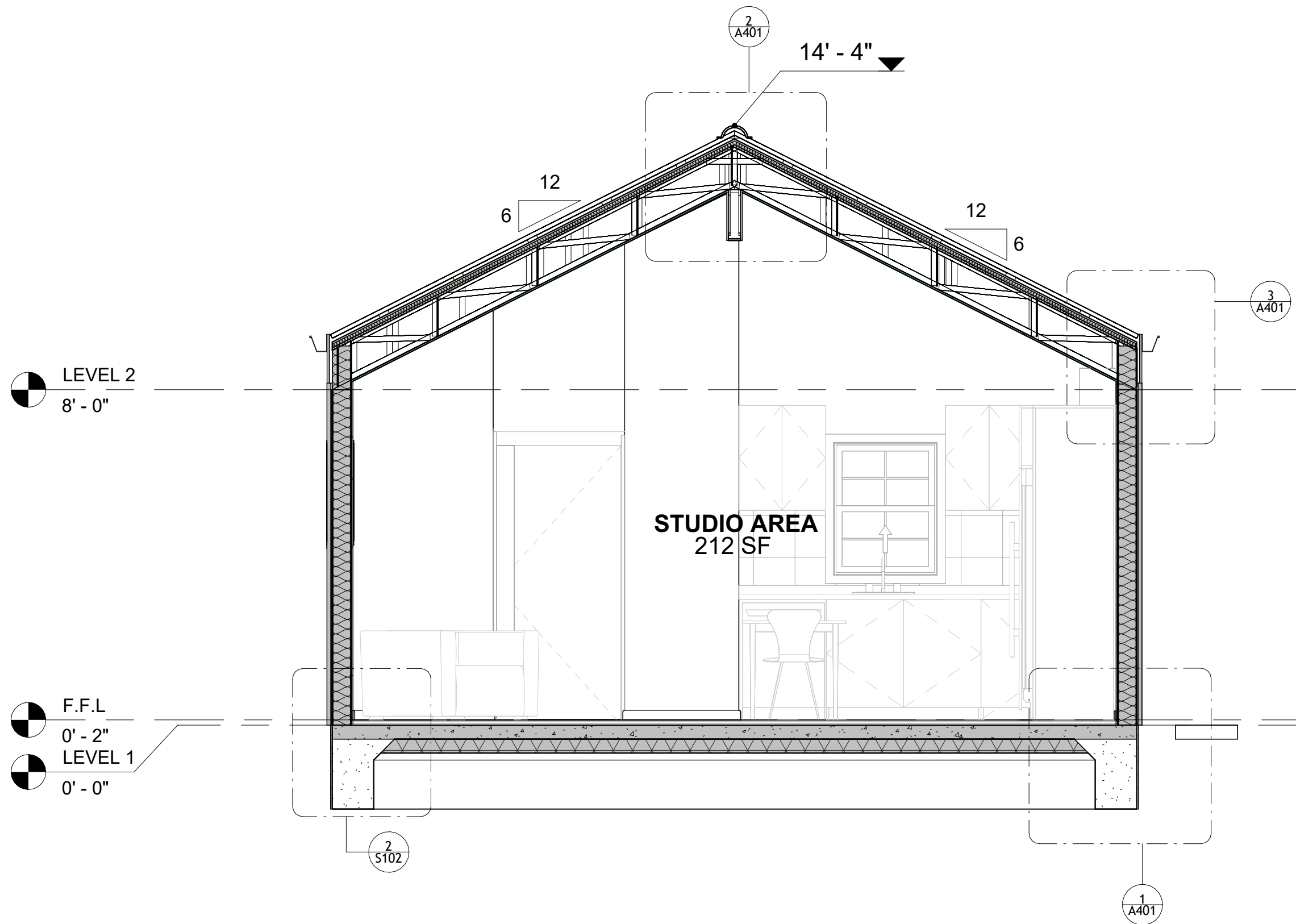
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PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:24 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A301

SCALE: As indicated



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



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

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-
Contemporary Barn-550

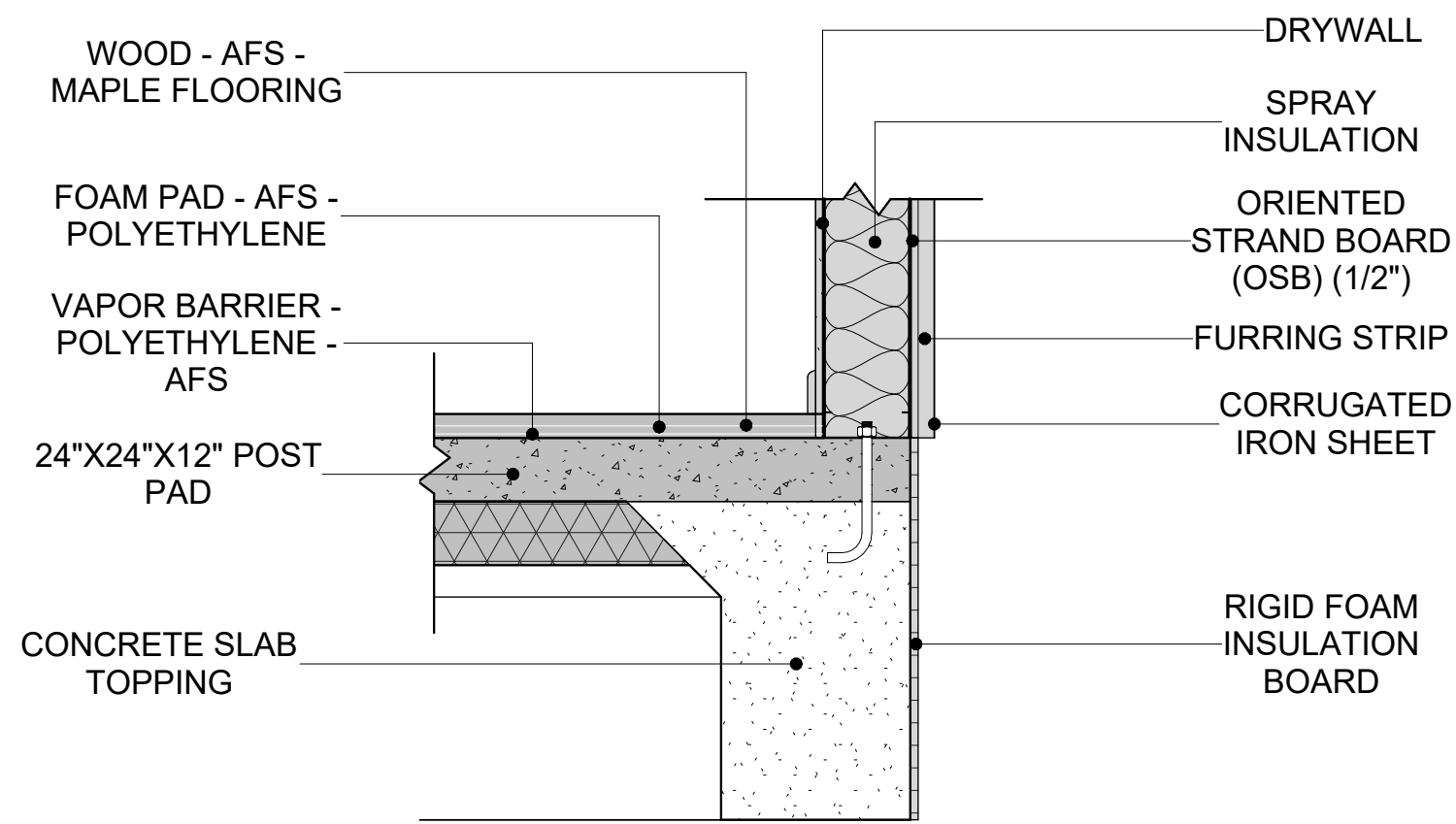
DRAWING NAME

ARCHITECTURAL DETAILS

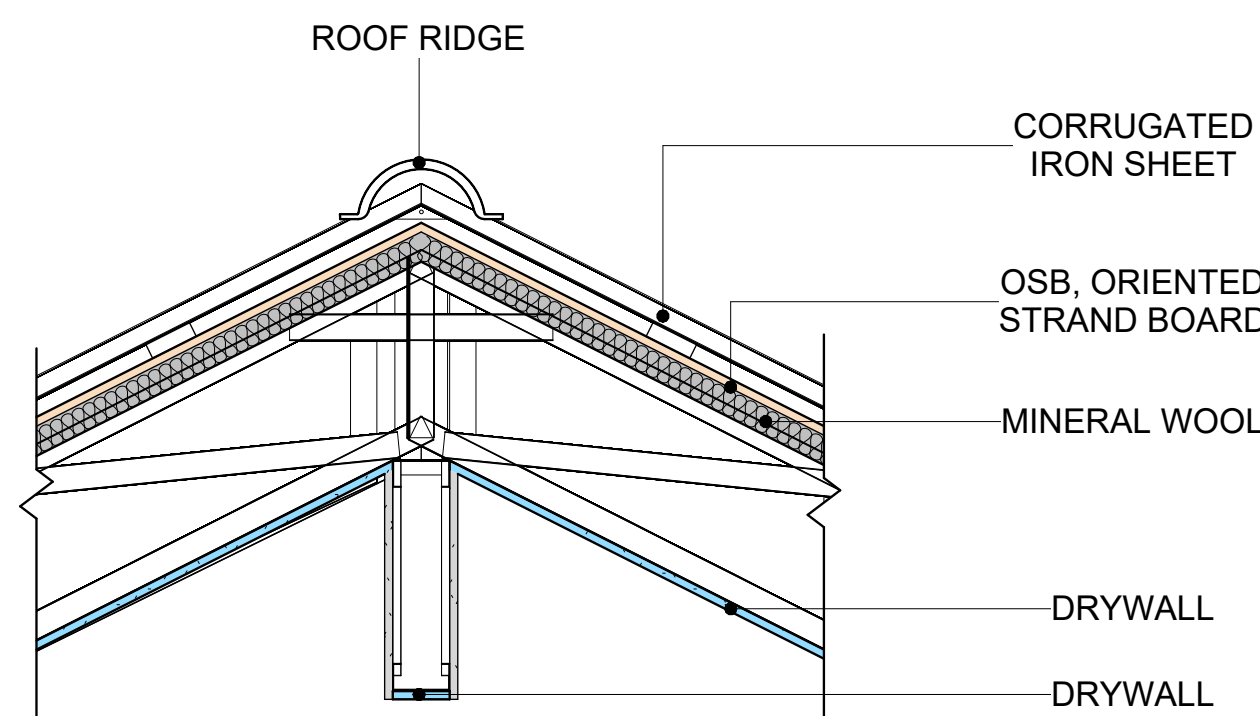
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PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:26 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A401

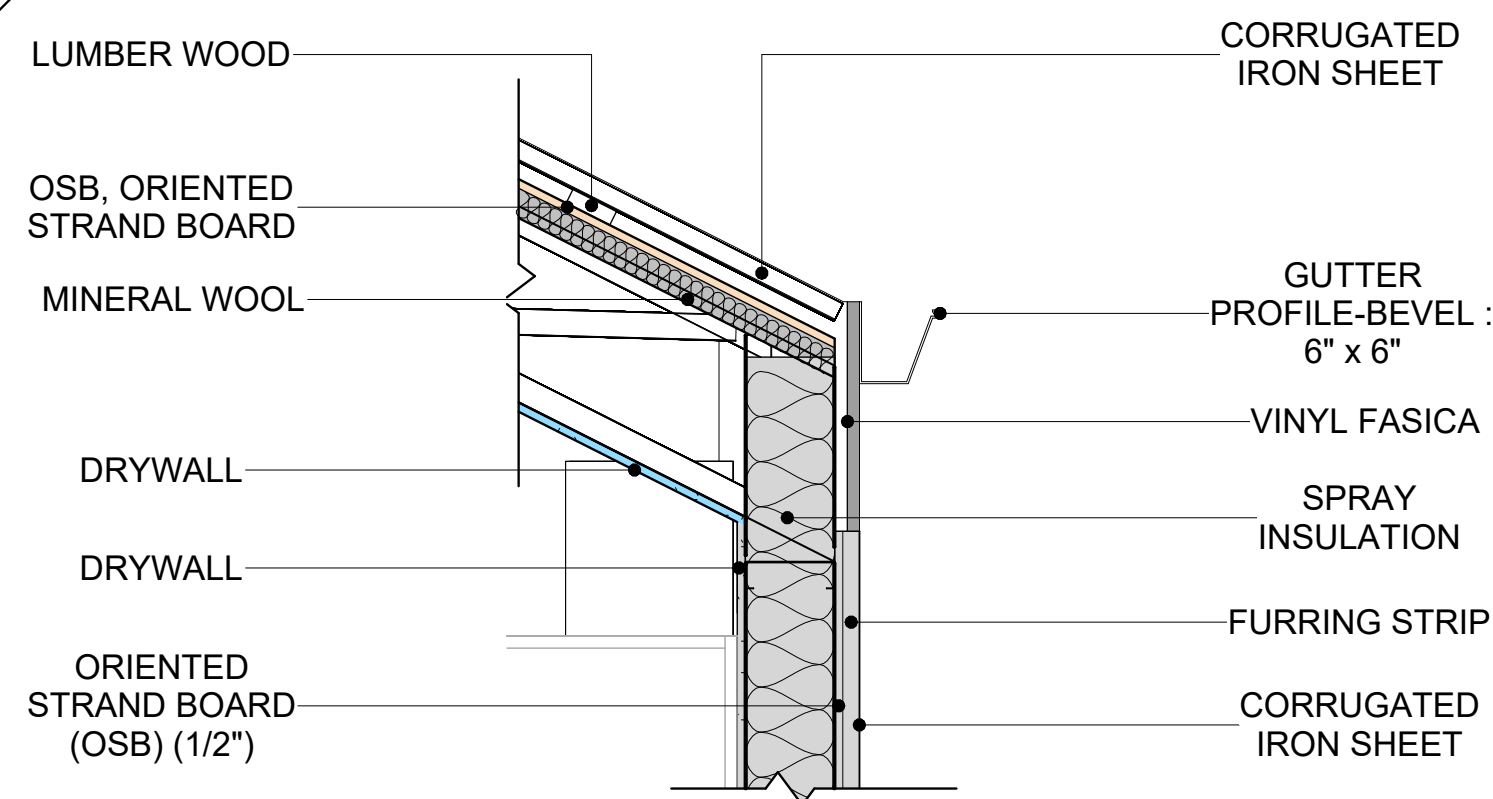
SCALE: 1" = 1'-0"



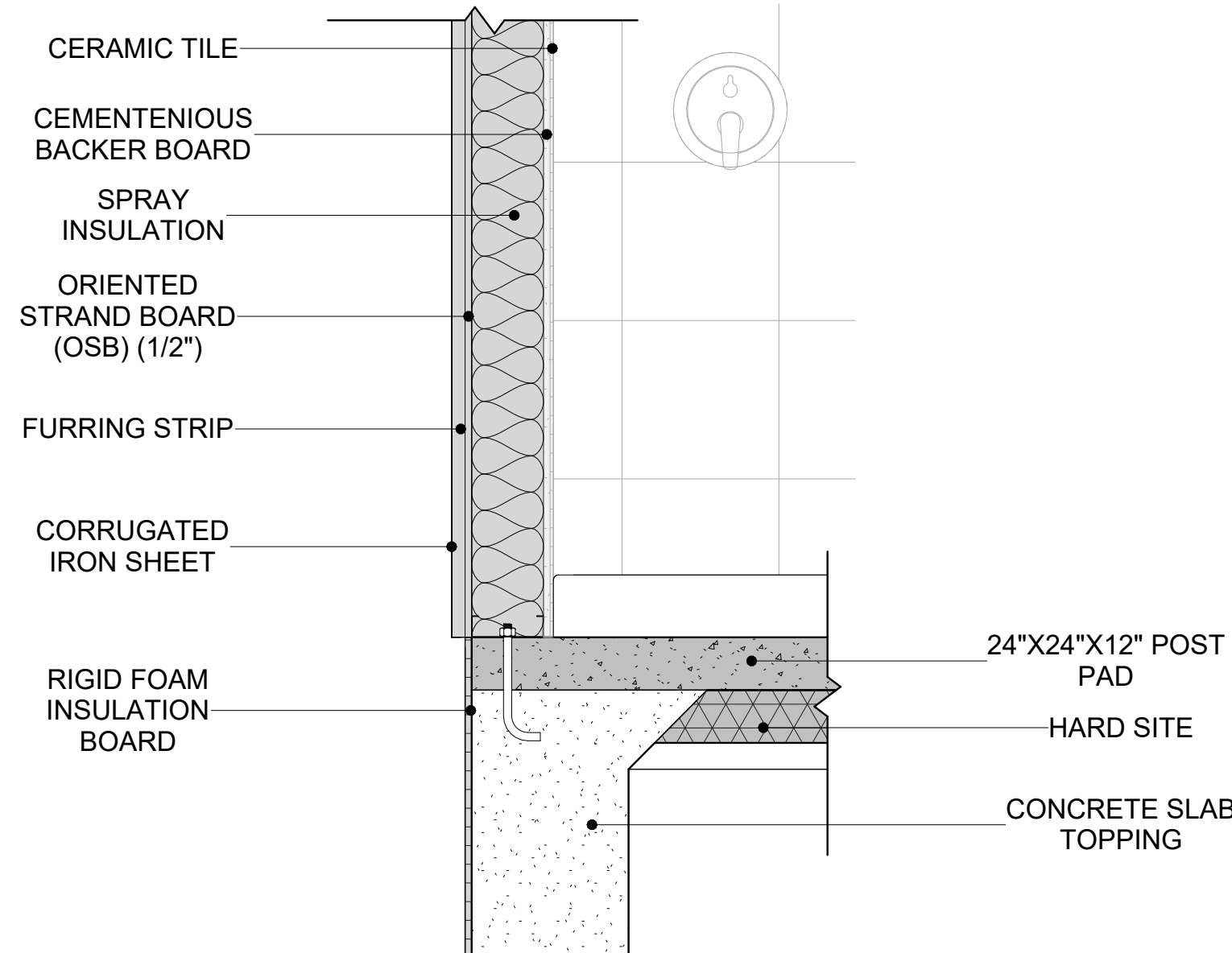
1 TYPICAL WALL FTG
1" = 1'-0"



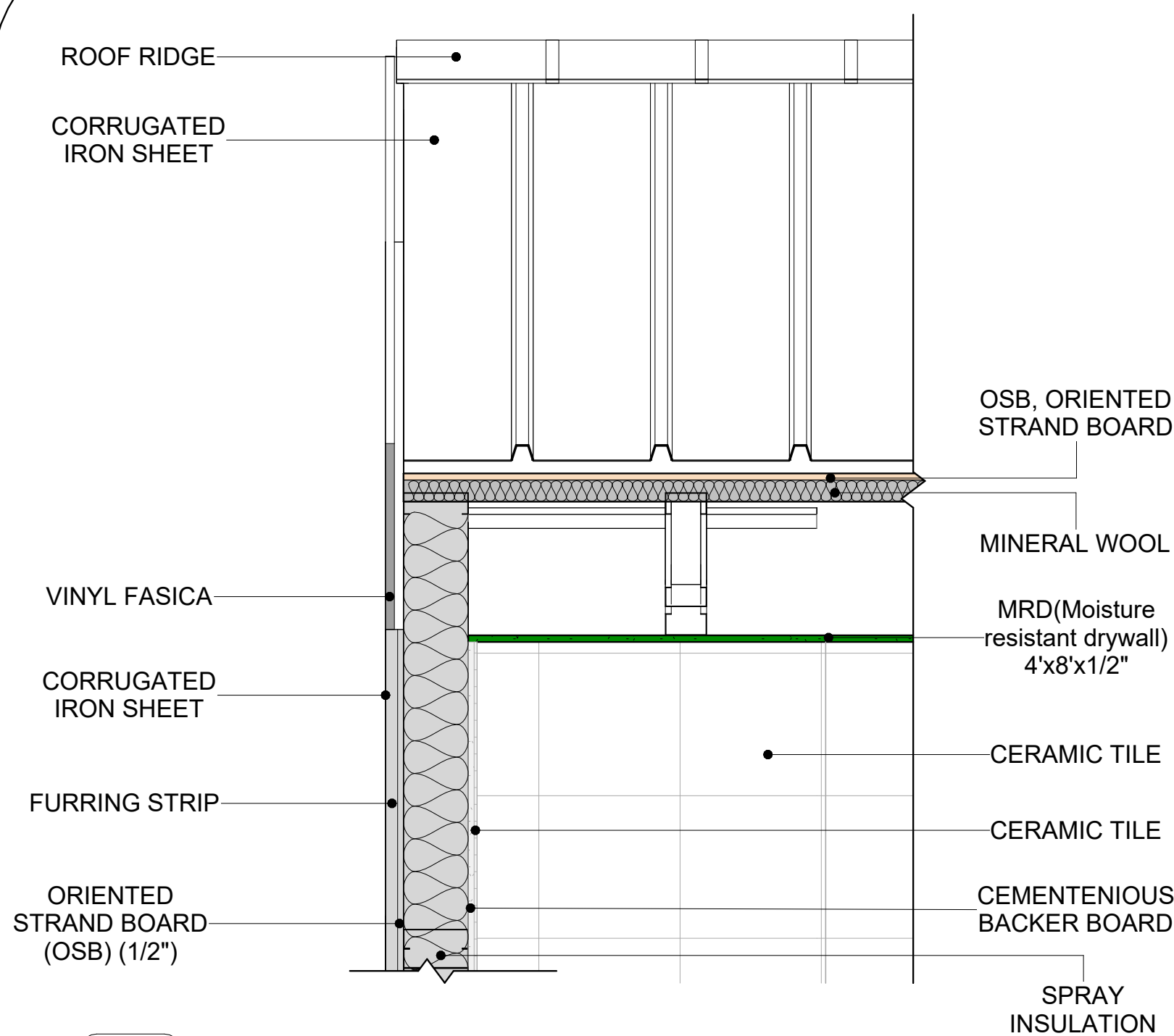
2 ROOF PITCH
1" = 1'-0"



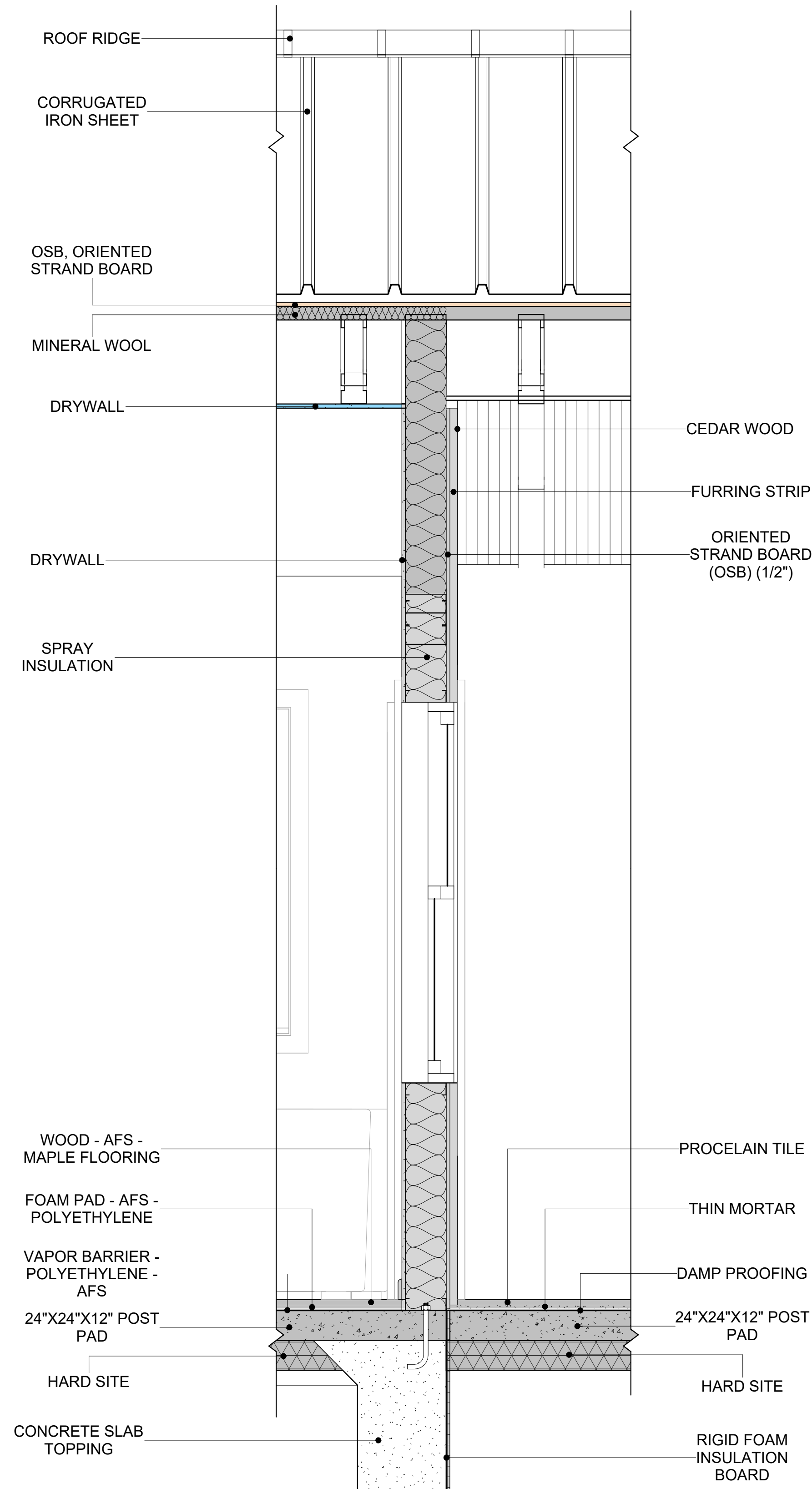
3 WALL TO ROOF CONN.
1" = 1'-0"



4 TYPICAL WALL FTG2
1" = 1'-0"



5 ROOF ON WALL
1" = 1'-0"



6 BUILDING SECTION
1" = 1'-0"

- CASEWORK GENERAL NOTES
1.

ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH.
2.

DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
3.

PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS AND OTHERWISE NOTED.
4.

MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY.
5.

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.
6.

ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
7.

ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
8.

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.
9.

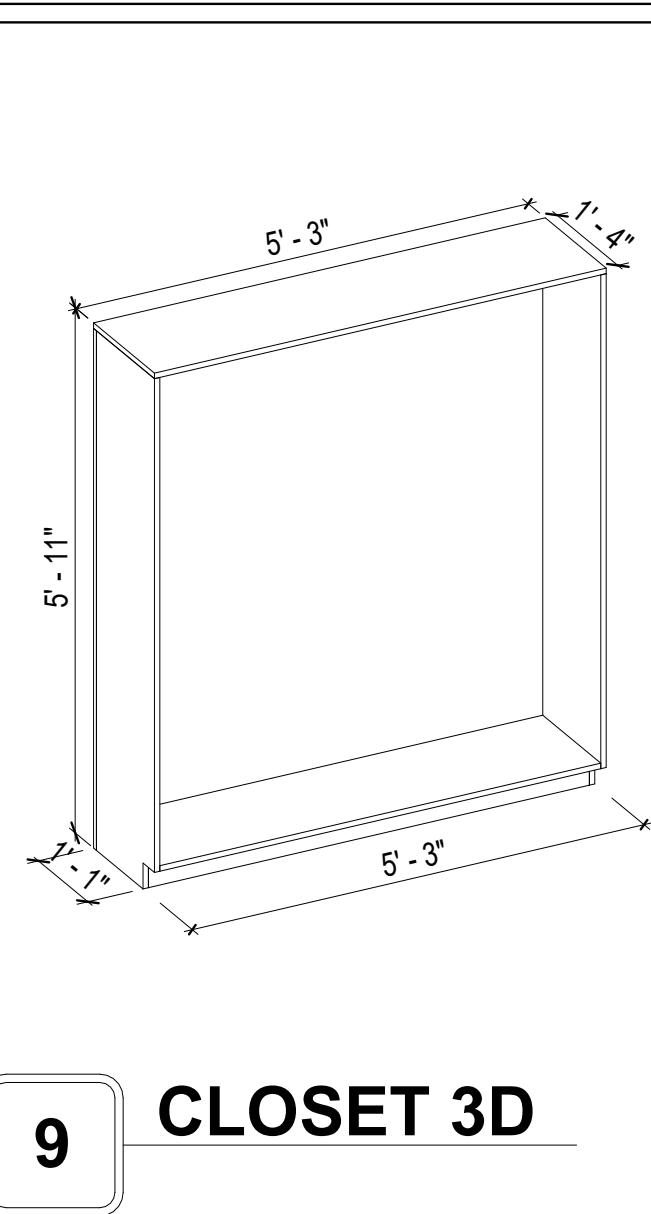
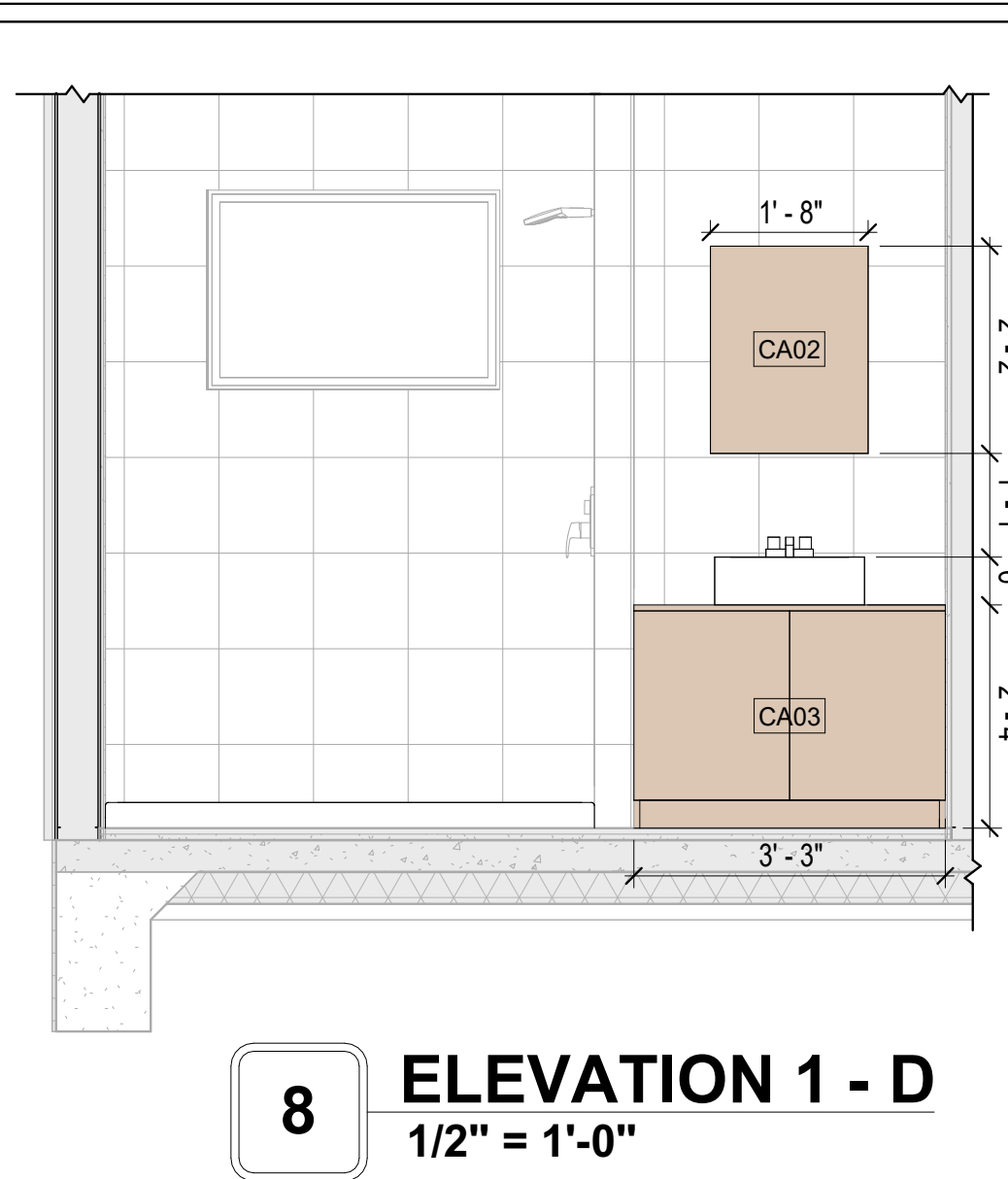
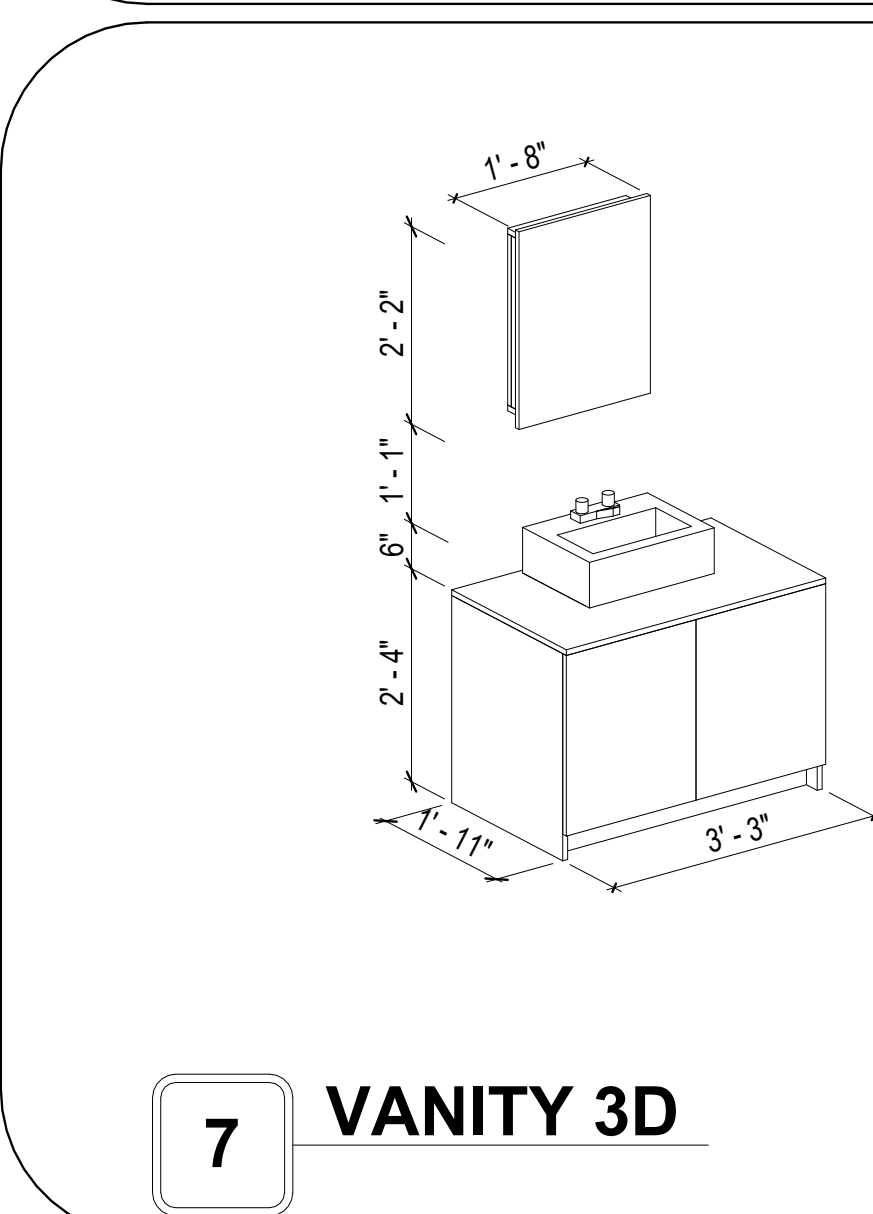
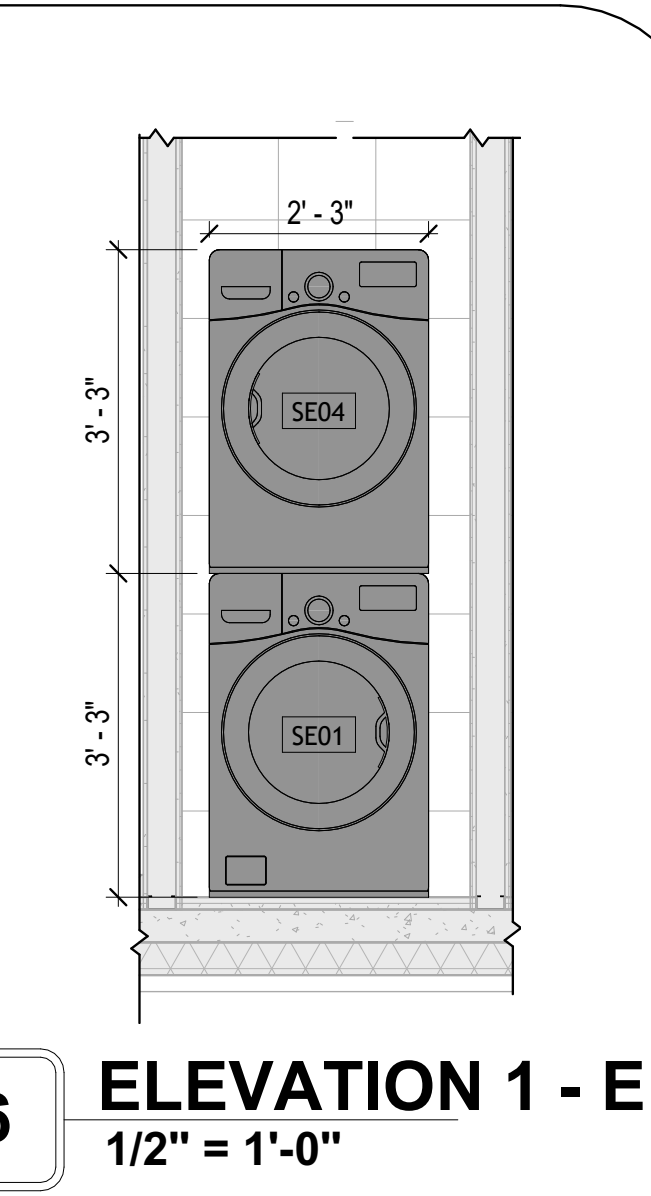
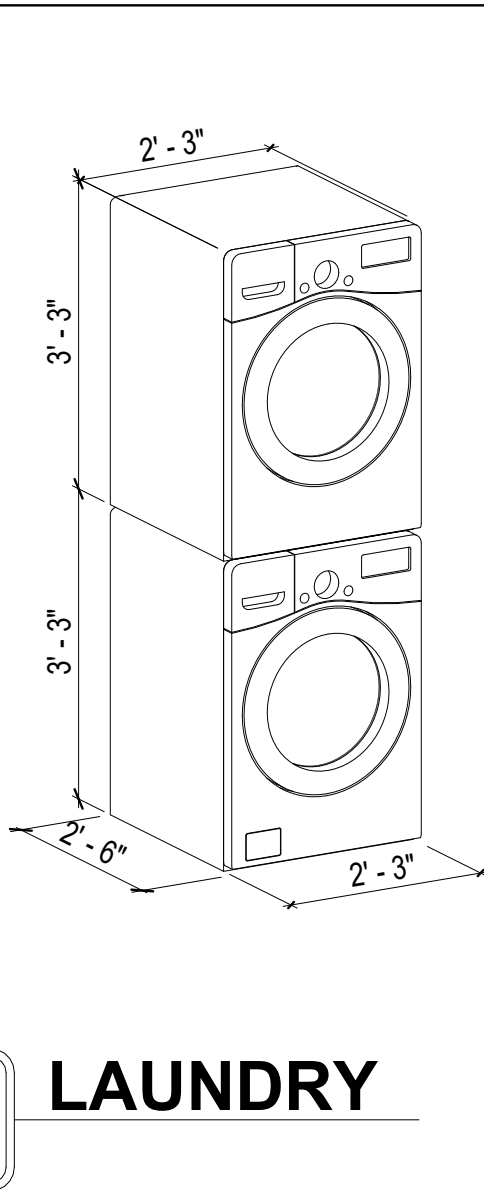
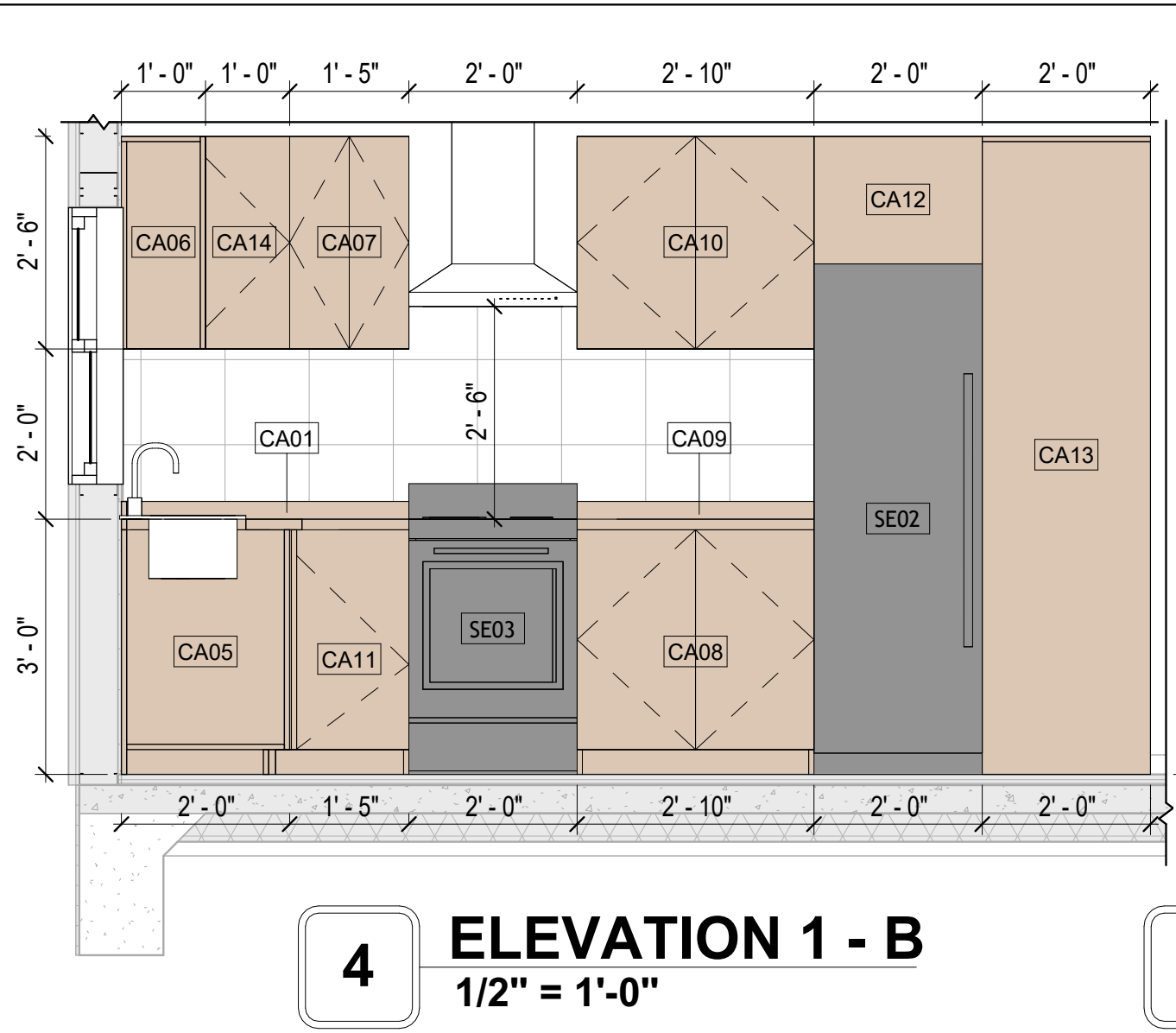
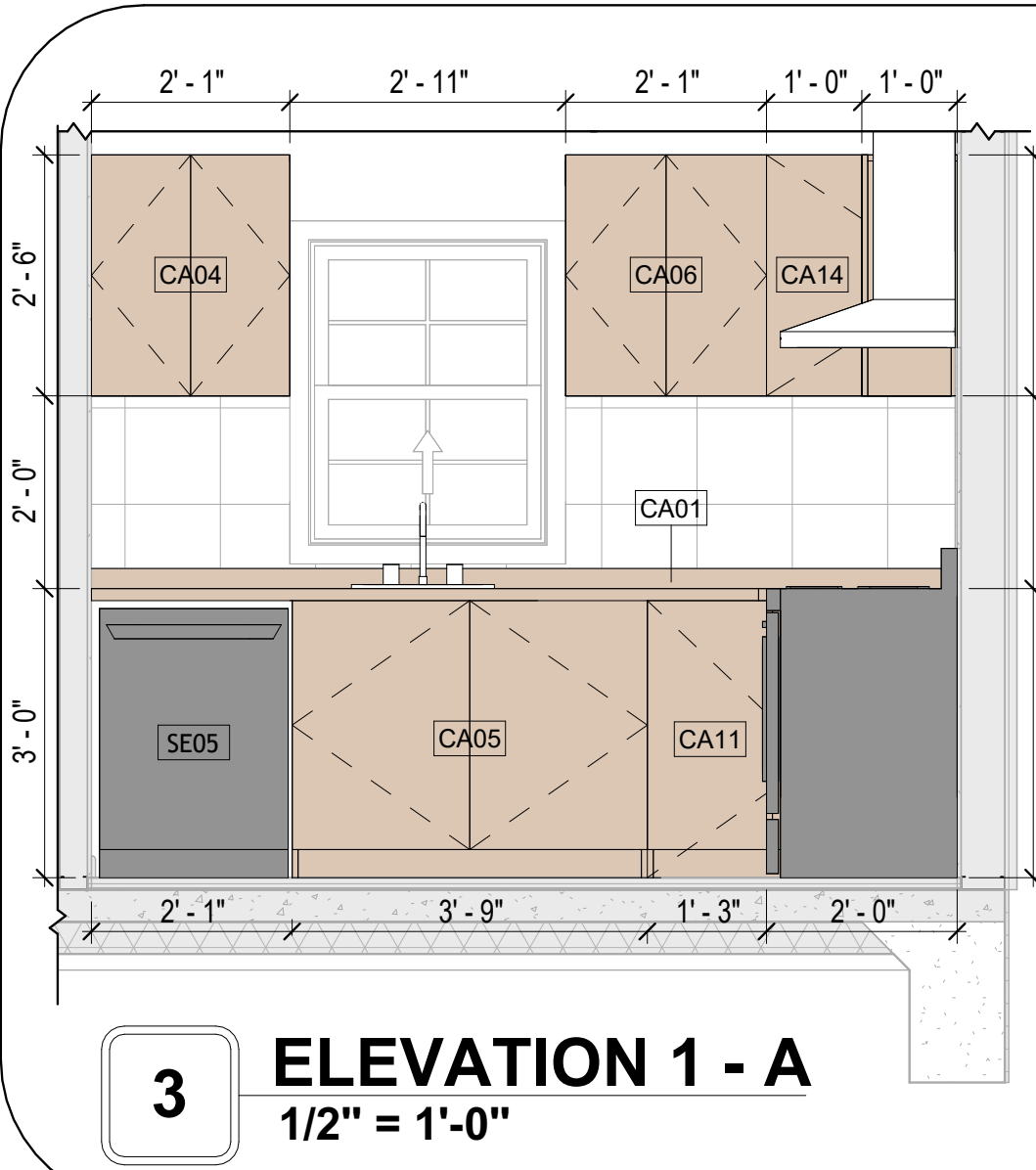
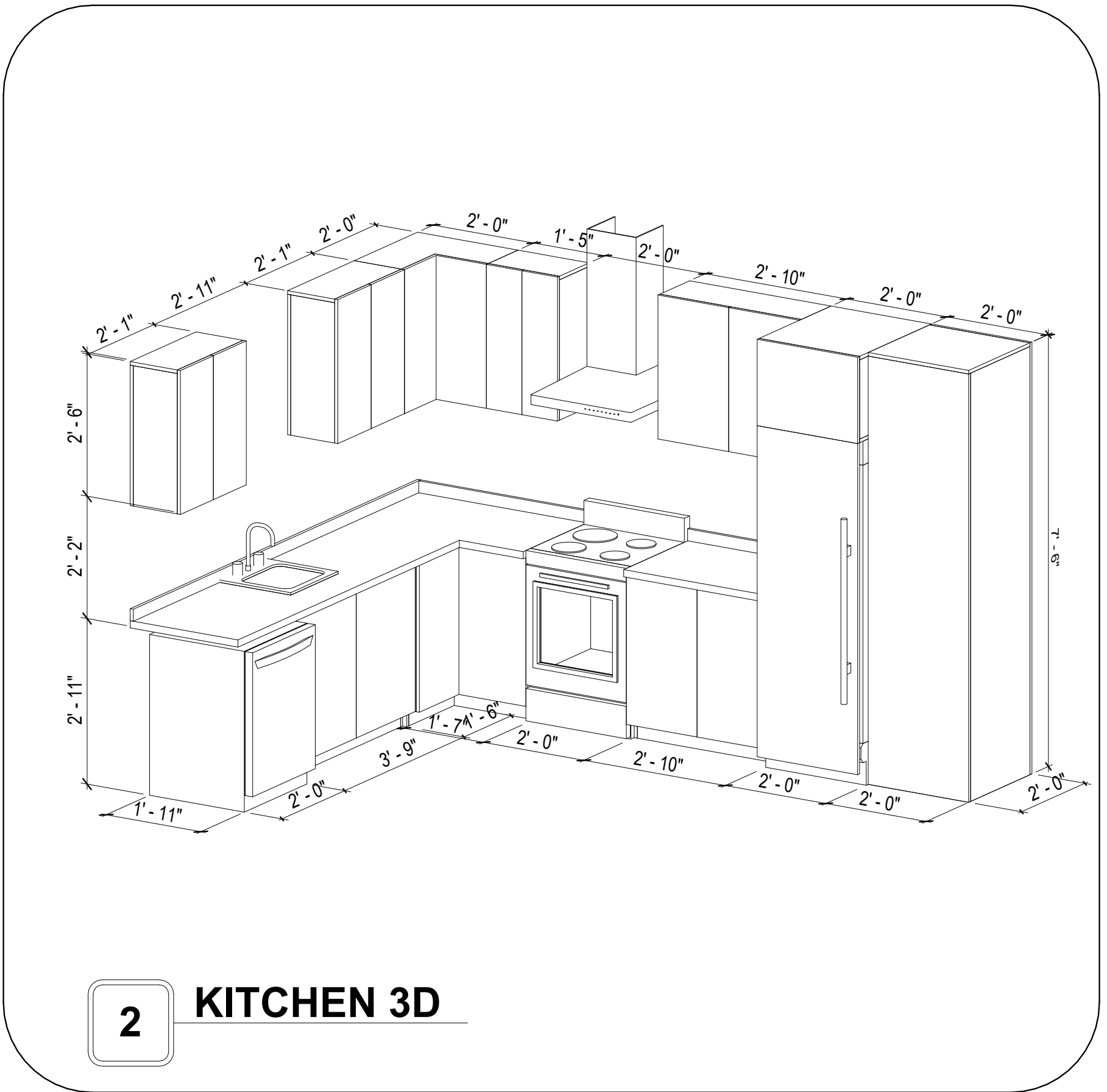
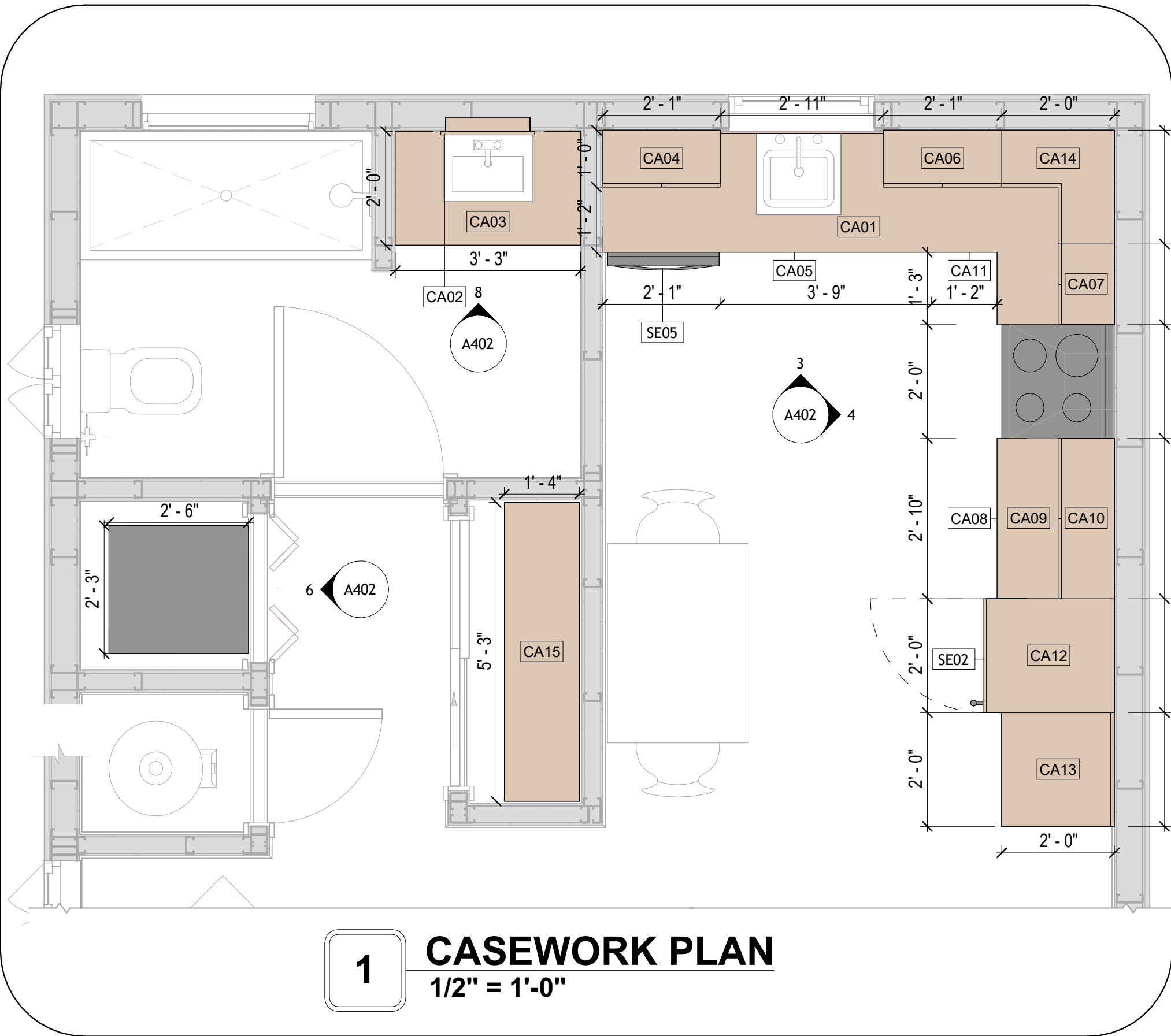
ALL CABINETS AND DRAWERS ARE PROVIDED WITH RECESSED HANDLES.
10.

CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
11.

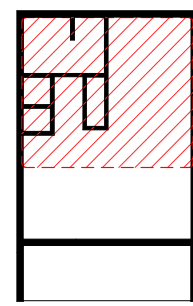
CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT.

CASEWORK SCHEDULE						
TYPE MAR K	TYPE	COUN T	HEIGHT	WIDTH	DEPTH	AREA
01	L-SHAPE COUNTER TOP 2	1	0' - 4"	7' - 0"	7' - 0"	2 SF
02	RECESSED_MED_CABINET 2	1	2' - 0"	1' - 6"	0' - 3"	3 SF
03	VANITY_CABINET_2 2	1	2' - 4"	3' - 3"	2' - 0"	8 SF
04	WALL CABINET DOUBLE DOOR 4	1	2' - 6"	2' - 1"	1' - 0"	5 SF
05	BASE_CABINET_DOUBLE_DOOR 3	1	2' - 11"	3' - 9"	2' - 0"	11 SF
06	WALL CABINET DOUBLE DOOR 5	1	2' - 6"	2' - 1"	1' - 0"	5 SF
07	WALL CABINET DOUBLE DOOR 6	1	2' - 6"	1' - 5"	1' - 0"	4 SF
08	BASE CABINET DOUBLE DOOR 3	1	2' - 11"	2' - 10"	2' - 0"	8 SF
09	LINEAR COUNTER TOP 2	1	0' - 4"	2' - 10"	2' - 1"	1 SF
10	WALL CABINET DOUBLE DOOR 3	1	2' - 6"	2' - 10"	1' - 0"	7 SF
11	BASE_CABINET_L-SHAPED 2	1	2' - 11"	3' - 5"	3' - 3"	10 SF
12	REFRIGERATOR TOP	1	1' - 6"	2' - 0"	2' - 4"	3 SF
13	HD_TALL_CABINET_24	1	7' - 6"	2' - 0"	2' - 0"	15 SF
14	WALL_CABINET_L-SHAPE	1	2' - 6"	2' - 0"	2' - 0"	5 SF
15	CLOSET_2 2	1	5' - 11"	5' - 3"	1' - 4"	31 SF
GRAND TOTAL		15				

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



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

ARCHITECTURAL CASEWORK

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:13:28 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

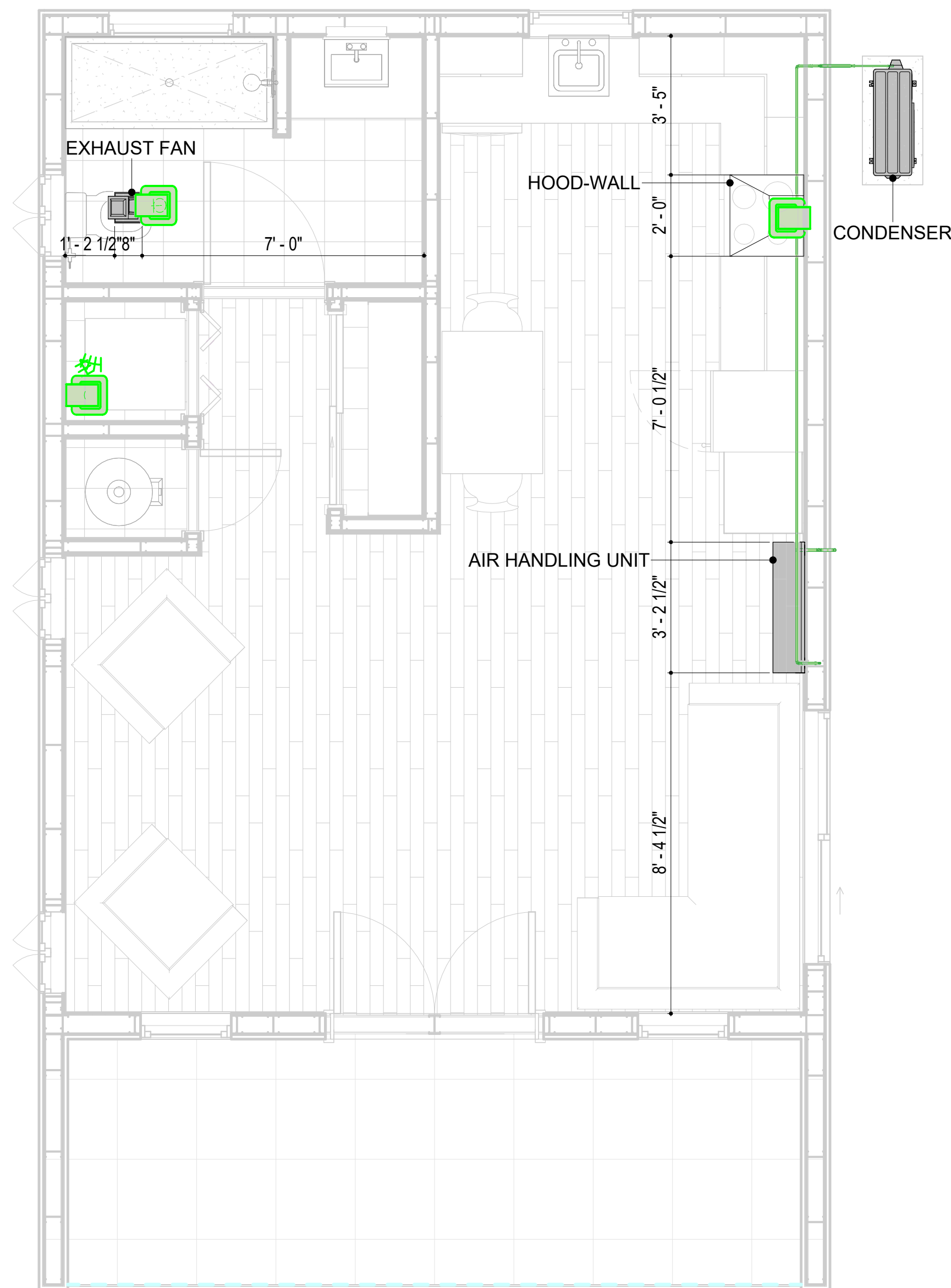
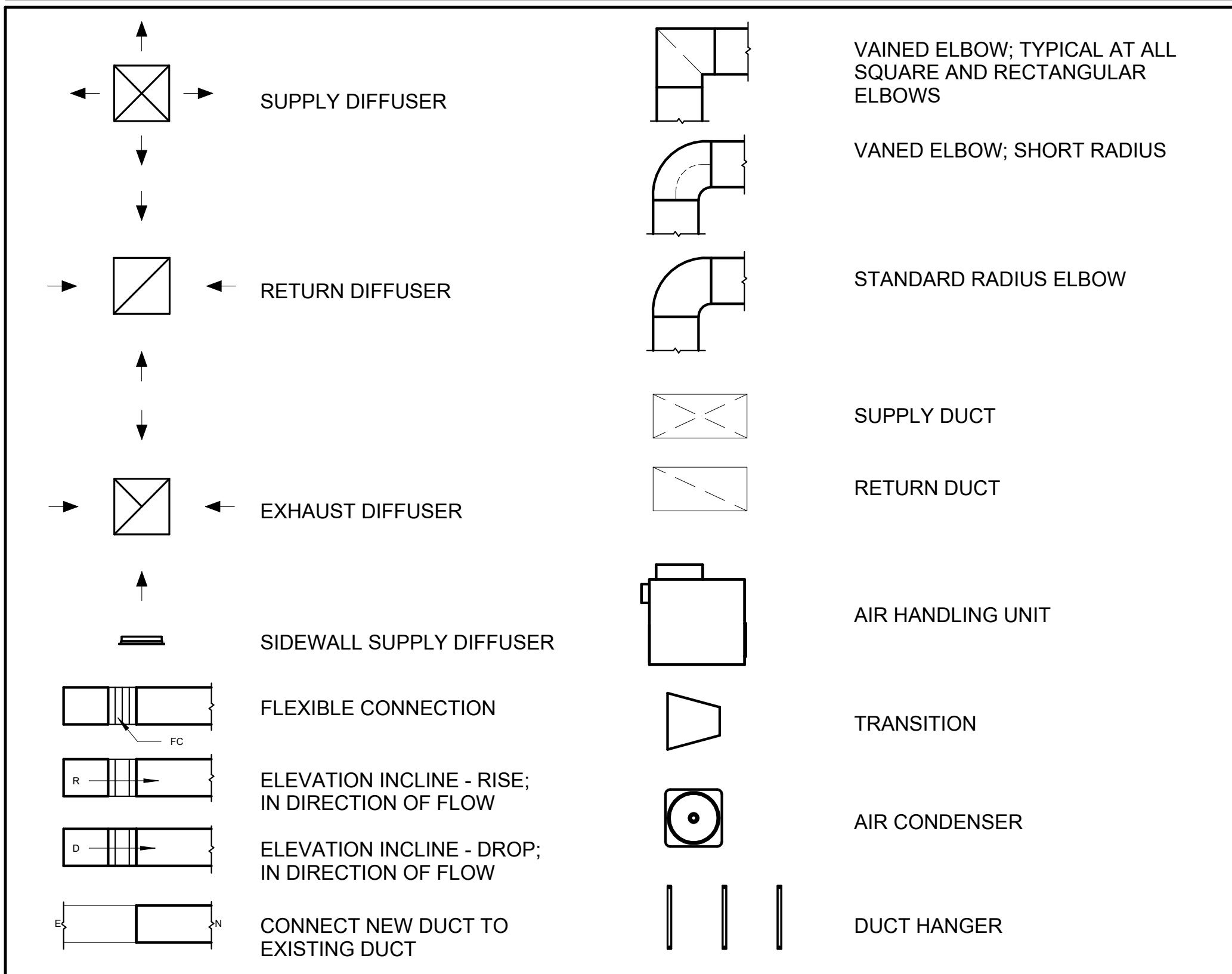
A402

SCALE: As indicated

GENERAL NOTES

1. THIS DRAWING DEPICTS THE HVAC (HEATING, VENTILATION, AND AIR CONDITIONING) SYSTEM FOR THE HAVEN STUDIO BARN. 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 INDUSTRY BEST PRACTICES.
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 BE MODIFIED WITH THE SPECIFIC LOCATIONS AND WIRING DETAILS WILL BE DETERMINED DURING THE CONTROL SYSTEM DESIGN AND INSTALLATION.
9. THE HVAC SYSTEM DESIGN CONSIDERS ENERGY EFFICIENCY, INDOOR AIR QUALITY, OCCUPANT COMFORT, AND NOISE CONTROL, FOLLOWING APPLICABLE GUIDELINES AND REGULATIONS.
10. COORDINATION WITH OTHER TRENDS 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 FOR EASY SERVICING AND MAINTENANCE. PROVIDE ADEQUATE SPACE AROUND EQUIPMENT FOR PROPER AIRFLOW AND SERVICE ACCESS.
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.
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.

SYMBOLS



1 HVAC PLAN

HVAC COLOR SCHEME

AIR CONDITIONING PIPE
LINE

REFRIGERANT LINE SCHEDULE

CATEGORY	DESCRIPTION	DIAMETER	LENGTH
PIPE TYPES	COPPER	1/4"	1.02
PIPE TYPES	COPPER	3/8"	26.99
PIPE TYPES	COPPER	1/2"	0.95
PIPE TYPES	COPPER	3/4"	32.35

REFRIGERANT LINE FITTING SCHEDULE

CATEGORY	DESCRIPTION	Size	Count
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	1/2"ø-1/2"ø	1
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	1/4"ø-1/4"ø	1
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/4"ø-3/4"ø	10
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/8"ø-3/8"ø	7
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

CATEGORY	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

FLEX DUCT SCHEDULE

DESCRIPTION	DESCRIPTION	LENGTH	DIAMETER	COUNT
FLEX DUCT ROUND	FLEX-ROUND	8.06	4"	3
GRAND TOTAL: 3		8.06		



KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

**151-Haven-499-Studio-
Contemporary Barn-550**

DRAWING NAME

HVAC PLAN

CLIENT NAME:	Owner
PROJECT NUMBER:	15_0001
DATE:	3/6/2025 2:05:28 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

M101

SCALE: As indicated

ELECTRICAL NOTES

1. THIS DRAWING DEPICTS THE ELECTRICAL SYSTEM FOR THE 151-Haven-499-Studio-Barn-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 EQUIPMENT.
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 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

ELECTRICAL CALCS			
LIGHT AND OUTLETS	499 @ 3W	1,497 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		24,797 W	
FRIST 10,000 @ 100% REMAINDER @ 40% MINI. SPLIT UNITS		10,000 W 5,919W 10,000 W	
TOTAL		25,919 W	
25,919 W DIVIDED BY 240V =108 AMPS TOTAL			
(USE 200 AMP SERVICE)			

Branch Panel:

Location: STUDIO AREA 01						Volts: 120/240 Single				A.I.C. Rating:					
Supply From:						Phases: 1				Mains Type:					
Mounting: Recessed						Wires: 3				Mains Rating: 200 A					
Enclosure: Type 1										MCB Rating: 1 A					
Notes:															
Circuit Number	Circuit Description	Number of Elements	Rating	Length	Wire Size	A		B		Wire Size	Length	Rating	Number of Elements	Circuit Description	Circuit Number
1	BATH GFCI & LIGHT	7	20 A	32' - 7 21/32"	1-#12, 1-#12, 1-#12	576 VA	336 VA			1-#14, 1-#14, 1-#14	38' - 1 1/4"	15 A	7	KITCHEN LIGHT	2
3	KITCHEN GFCI	4	20 A	30' - 4 7/32"	1-#12, 1-#12, 1-#12			720 VA	1200 VA	1-#12, 1-#12, 1-#12	32' - 5 31/32"	20 A	1	DISHWASHER	4
5	OVENHOOD	1	20 A	15' - 6 15/32"	1-#12, 1-#12, 1-#12	180 VA	2500 VA			2-#10, 1-#10, 1-#10	33' - 9 21/32"	30 A	1	DRYER	6
7	WASHING MASHEIN	1	20 A	35' - 10 5/32"	1-#12, 1-#12, 1-#12			1200 VA	2500 VA	--	--	--	--	--	8
9	WATER HEATER	1	20 A	29' - 9 3/32"	2-#12, 1-#12, 1-#12	2250 VA	209 VA			1-#14, 1-#14, 1-#14	27' - 7 7/8"	15 A	7	LIVING LIGHT	10
11	--	--	--	--	--			2250 VA	1080 VA	1-#12, 1-#12, 1-#12	34' - 10 7/16"	20 A	6	LIVING RECEPTACLE	12
13	HALL LIGHT	7	15 A	26' - 3 7/32"	1-#14, 1-#14, 1-#14	240 VA	200 VA			1-#12, 1-#12, 1-#12	30' - 9 1/2"	20 A	3	OUTDOOR LIGHT	14
15	OUTDOOR GFCI	3	20 A	27' - 6 1/16"	1-#12, 1-#12, 1-#12			540 VA	2500 VA	2-#6, 1-#6, 1-#10	22' - 10 13/32"	60 A	1	CONDENSER	16
17	RANGE	1	50 A	18' - 10 1/16"	2-#8, 1-#8, 1-#10	2500 VA	2500 VA			--	--	--	--	--	18
19	--	--	--	--	--			2500 VA	2500 VA	2-#12, 1-#12, 1-#12	13' - 5 15/32"	20 A	1	REFRIGERATOR	20
21							2500 VA			--	--	--	--	--	22
23															24
25															26
						13978 VA		16990 VA							
						116 A		142 A							
Legend:															
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals					
LIGHTING - DWELLING UNIT				400 VA		100.00%		400 VA							
OTHER				712 VA		100.00%		712 VA		Total Conn. Load: 30967 VA					
RECEPTACLE				5280 VA		100.00%		5280 VA		Total Est. Demand: 29967 VA					
LIGHTING				100 VA		100.00%		100 VA		Total Conn.: 129 A					
CONDENSER				5000 VA		100.00%		5000 VA		Total Est. Demand: 125 A					
WATER HEATER				4500 VA		100.00%		4500 VA							
RANGE				5000 VA		80.00%		4000 VA							
DRYER				5000 VA		100.00%		5000 VA							
REFRIGERATOR				5000 VA		100.00%		5000 VA							
Notes:															

ELECTRICAL ABBREVIATIONS LIST

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



Tucson,AZ, USA
888-864-0184
inquire@frameupnow.com
www.frameupnow.com

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

SCHEDULE

CLIENT NAME:	Owner
PROJECT NUMBER:	0244_11
DATE:	3/6/2025 4:01:28 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E101

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

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

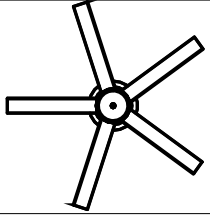
E4001.5 GROUNDING OF ENCLOSURES.

METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS SHALL BE CONNECTED TO AN EQUIPMENT GROUNDING CONDUCTOR.

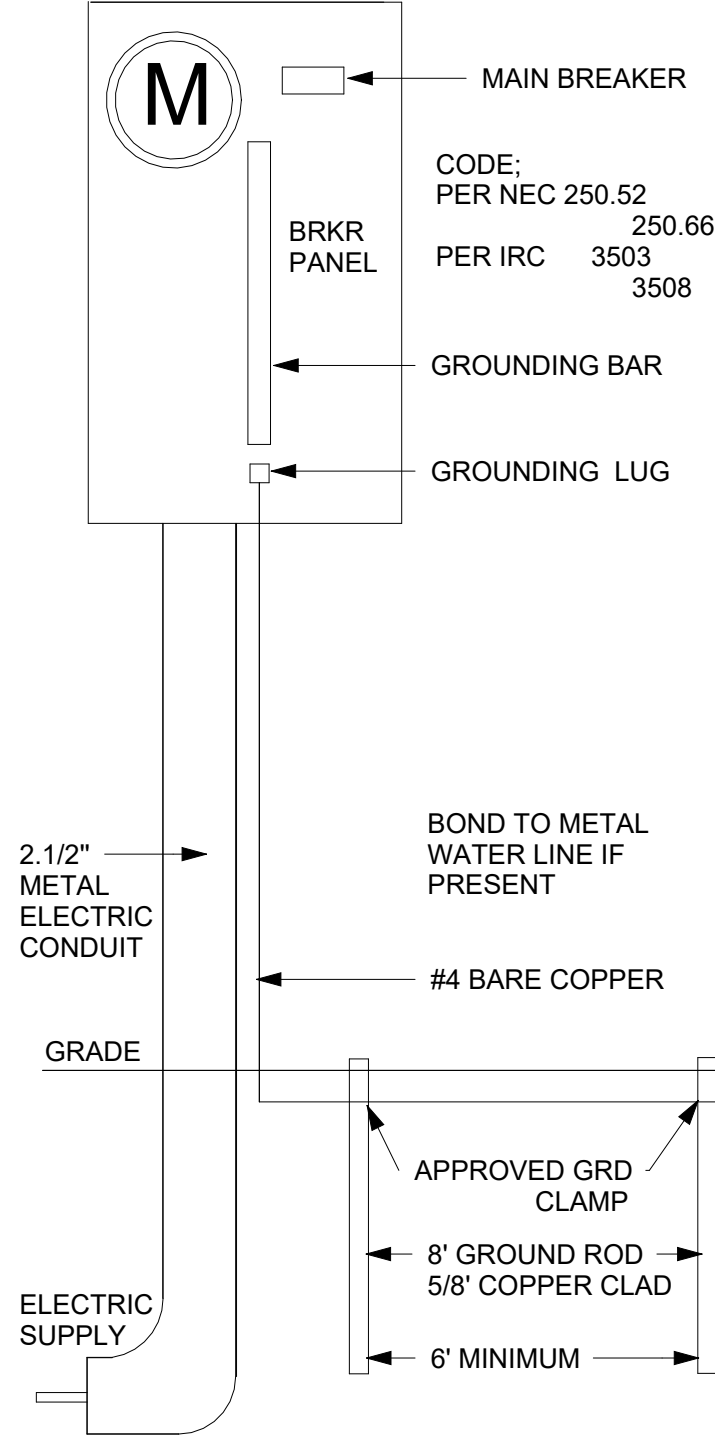
METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS USED AS SERVICE EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION E3609.4. WHERE NONMETALLIC ENCLOSURES ARE USED WITH METAL RACEWAYS OR METAL-ARMORED CABLES, PROVISIONS SHALL BE MADE FOR CONNECTING THE EQUIPMENT GROUNDING CONDUCTOR.

NONMETALLIC BOXES FOR SWITCHES SHALL BE INSTALLED WITH A WIRING METHOD THAT PROVIDES OR INCLUDES AN EQUIPMENT GROUNDING CONDUCTOR. (404.12)

ELECTRICAL LEGEND

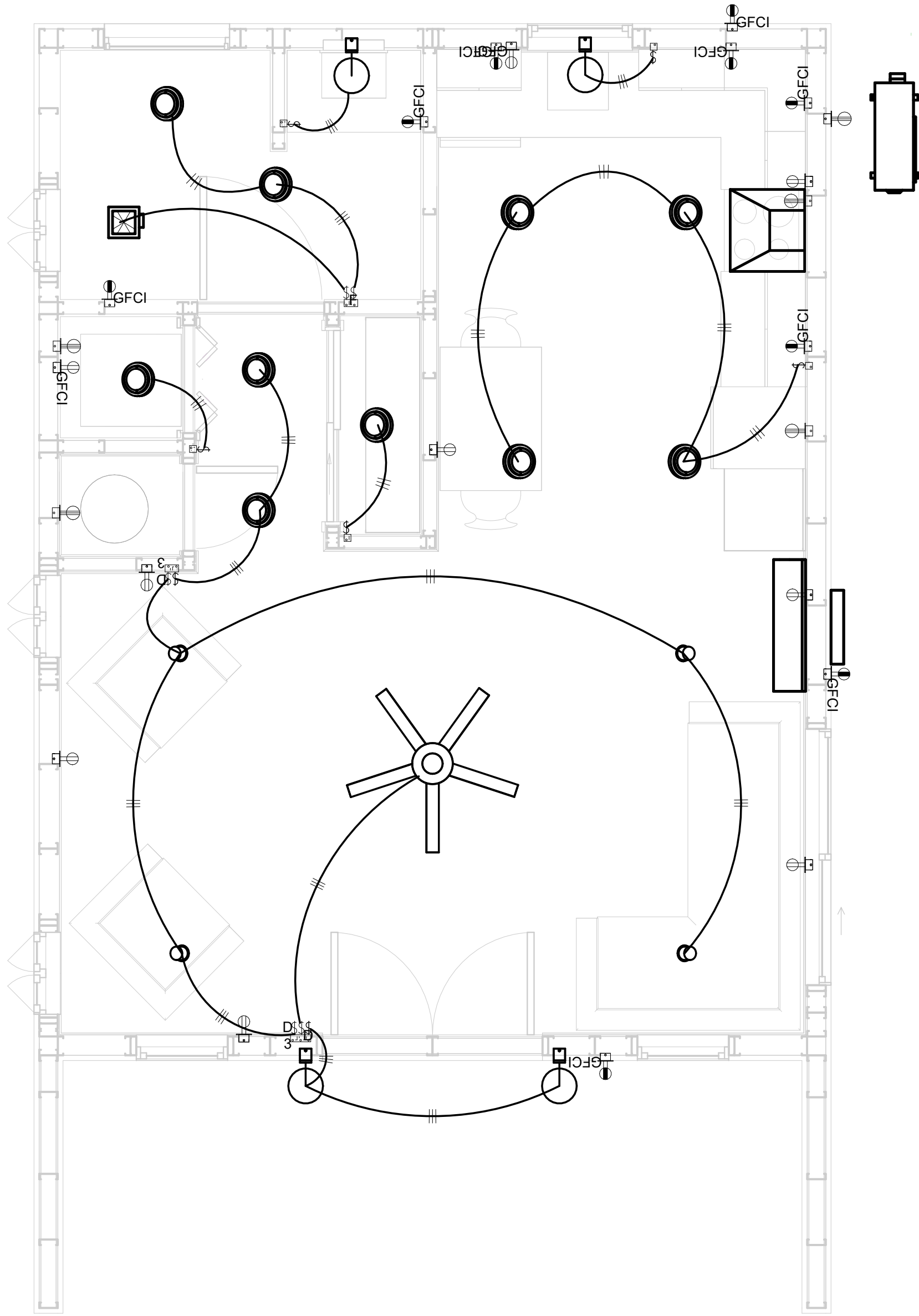
	Electrical Lights With Fan
	Waterproof Recessed Can Light
	Pendant Light
	Recessed Can Light
	Wall Lamp
	Standalone linear
	Single Switch
	Three way Switch
	Fan Switch
	Duplex Receptacle
	Triplex Receptacle
	GFCI Receptacle
	Exhaust Fan
	Smoke and heat detector

200 AMP METER SERVICE PANEL



2

SERVICE PANEL DIAGRAM
12" = 1'-0"



1

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

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

LIGHTING

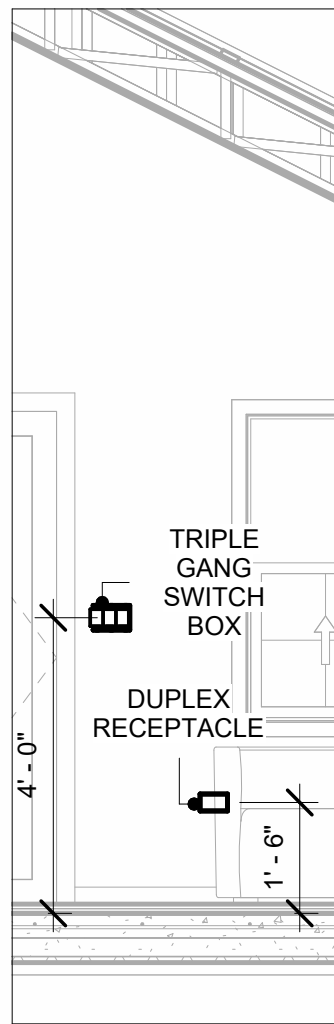
CLIENT NAME:	Owner
PROJECT NUMBER:	0244_11
DATE:	3/6/2025 4:01:30 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E102

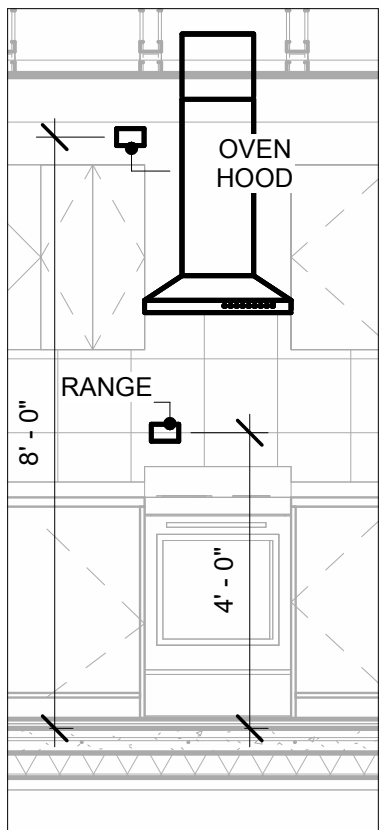
SCALE: As indicated

NOTES: CONDUIT, CABLE AND WIRING

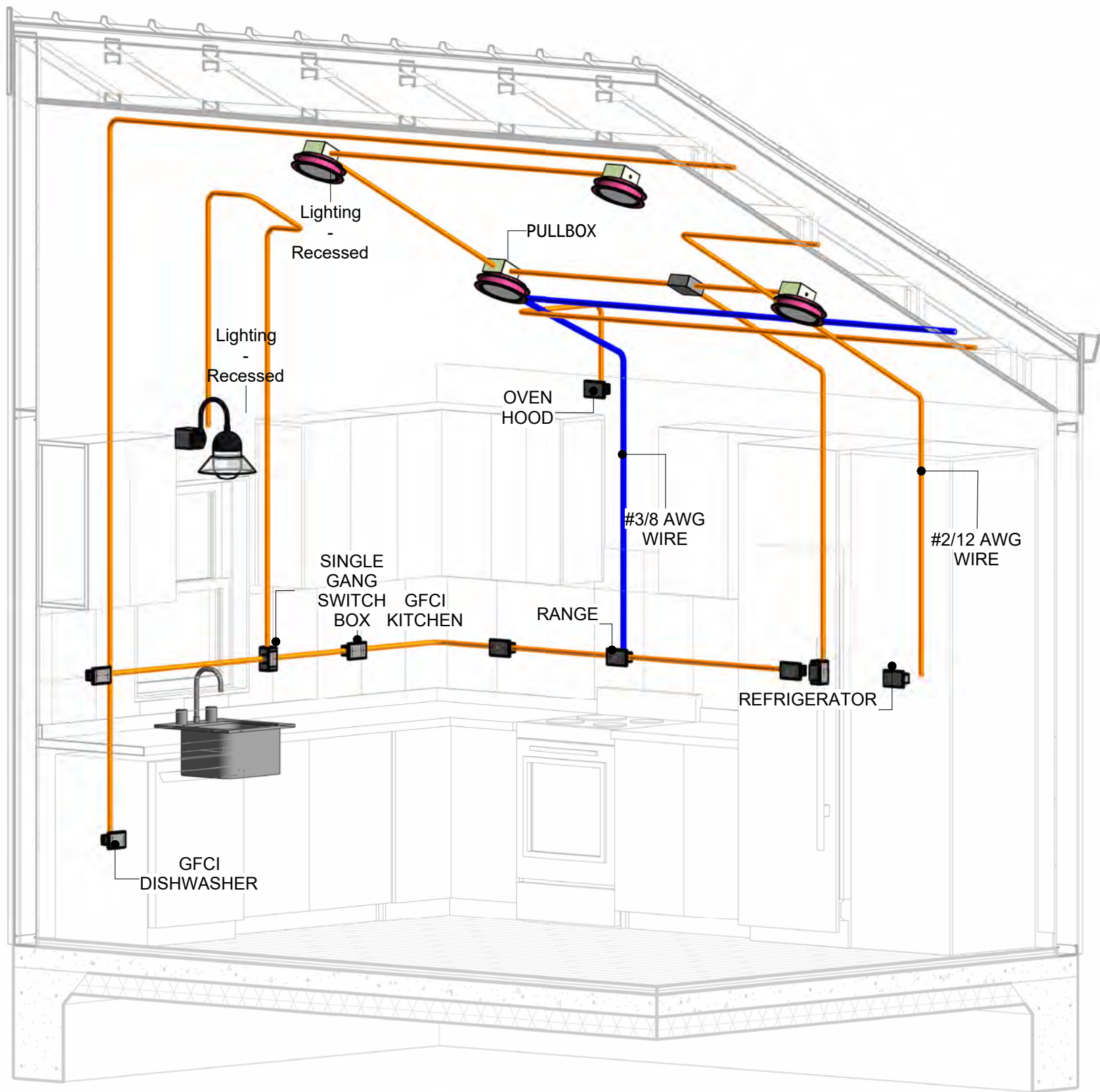
1. Use Metallic Conduits (IMC) for cables running under concrete slabs.
2. Use IMC for circuits with high voltage appliances (240 volts and above)
3. For circuits with 120 volts consider using EMT or PVC conduits if needed.
4. For Low voltage applications up to 50 volts consider using non metallic conduits.
5. All conduits to be used in the project must conform to the latest National Electrical Code (NEC), 2015.
6. All wiring and cables to be used in the project must also conform to the latest National Electrical Code (NEC), 2015.
7. All cables and wires used should be rated for their respective loading and should be gauged and conform to the NEC.



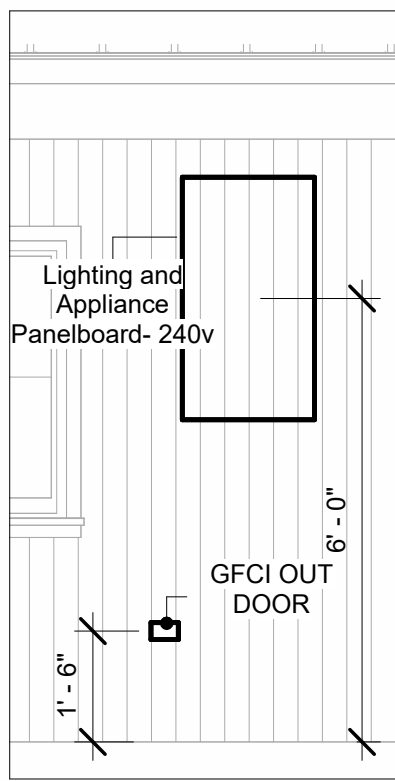
2 RECEPTACLE & SWITCH
3/8" = 1'-0"



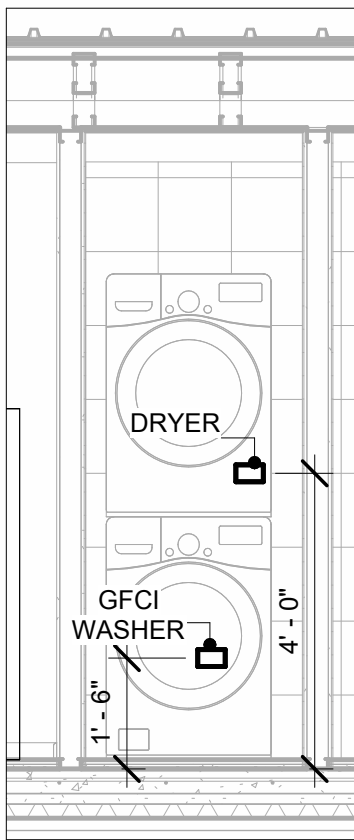
3 RANGE & OVENHOOD
3/8" = 1'-0"



1 3D-KITCHEN

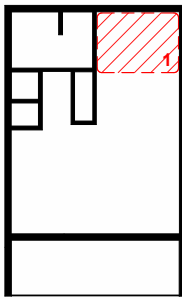


4 PANELBOARD& OUTDOOR GFCI
3/8" = 1'-0"



5 DRYER& WASHER
3/8" = 1'-0"

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-
Contemporary Barn-550

DRAWING NAME

POWER

CLIENT NAME:	Owner
PROJECT NUMBER:	0244_11
DATE:	3/6/2025 4:01:54 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E103

SCALE: As indicated

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.

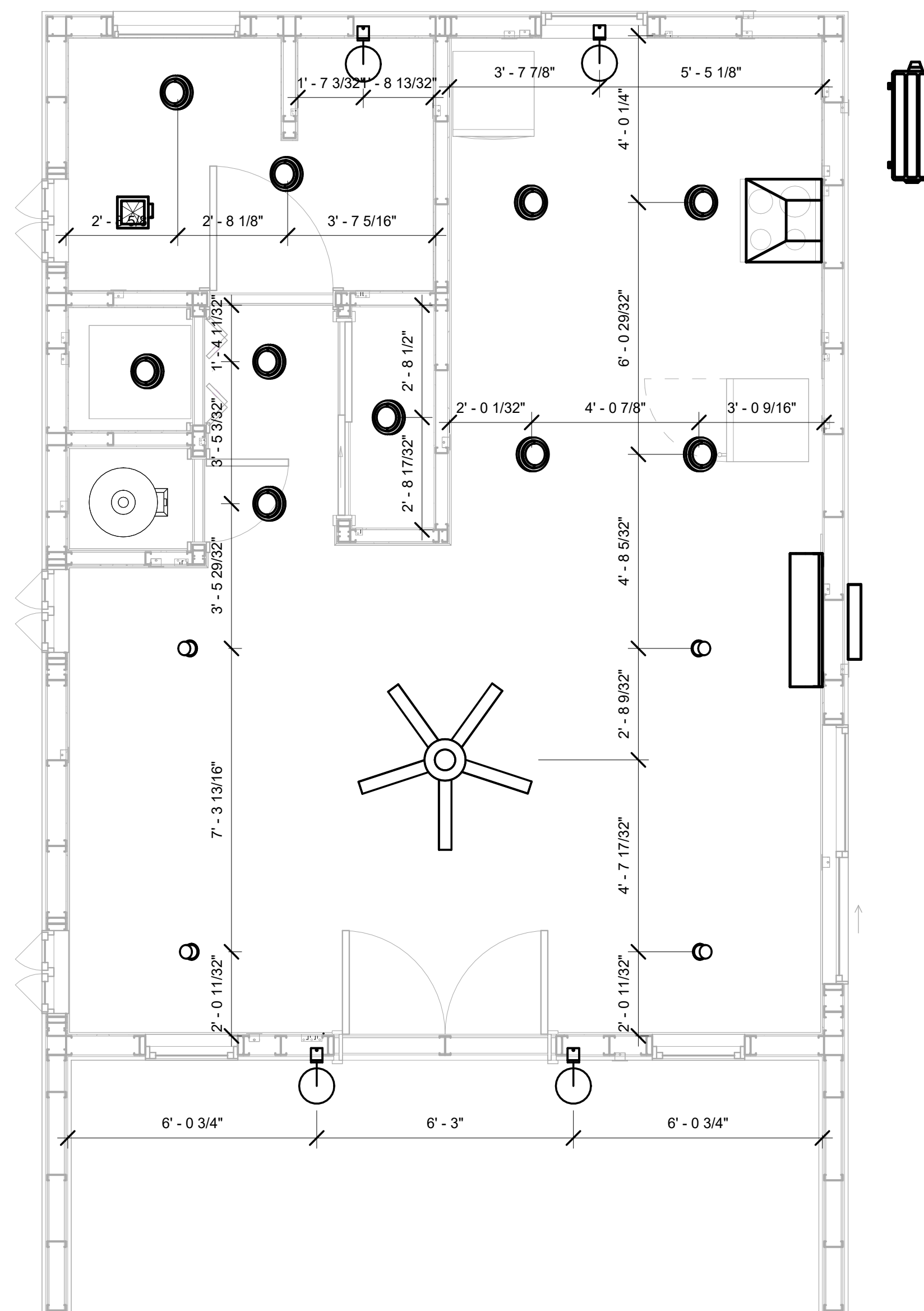
1. THE MINIMUM SIZE OF JUNCTION BOX TO BE USED IS 2"x4"x(1.5" OR 3.5" DEEP) THIS ARE TO BE USED FOR SINGLE GANG SWITCH OR OUTLETS.
2. FOR DOUBLE GANG (2 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE JUNCTION BOX TO BE PROVIDED SHALL NOT BE LESS THAN 4"x4"x(1.5" OR 3.5" DEEP)
3. FOR THREE GANG (3 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE JUNCTION BOX SHALL NOT BE LESS THAN 6"x4"x(1.5" OR 3.5" DEEP).

FAMILY	COUNT	DESCRIPTION
CONDUIT JUNCTION BOX - TEE - ALUMINUM	1	
PULLBOX1	15	#1/4 PULLBOX

TYPE	COUNT
DOUBLE GANG SWITCH BOX	2
SINGLE GANG SWITCH BOX	5
TRIPLE GANG SWITCH BOX	1

TYPE	COUNT
DIMMER	1
FAN SWITCH	1
SINGLE POLE	8
THREE WAY WITH DIMMER	2

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	10
SASSO 100 ROUND WALLWASHER TRIM	120 V/1-28 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	4
WALL LAMP - BRACKET	120 V/1-100 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	4



DIMENSION FOR LIGHT FIXTURES

[illegible]

LEGEND:

**151-Haven-499-Studio-
Contemporary Barn-550**

DIMENSION PLAN FOR LIGHT FIXTURES

CLIENT NAME:	Owner
PROJECT NUMBER:	0244_11
DATE:	3/6/2025 4:01:55 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E104

SCALE: **As indicated**

1. VERIFY EQUIPMENT PLUG CONFIGURATION BEFORE PURCHASING RECEPTACLES FOR ALL EQUIPMENT.
2. 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.

TYPE	COUNT
CONDENSER	1
DRYER	1
DUPLEX RECEPTACLE	6
GFCI BATH ROOM	2
GFCI DISHWASHER	1
GFCI KITCHEN	4
GFCI OUT DOOR	3
GFCI WASHER	1
OVEN HOOD	1
RANGE	1
REFRIGERATOR	1
WATER HEATER	1

TYPE	CIRCUIT NUMBER	ELECTRICAL DATA	COUNT
GFCI BATH ROOM	1	120 V/1-180 VA	2
GFCI KITCHEN	3	120 V/1-180 VA	4
GFCI DISHWASHER	4	120 V/1-1200 VA	1
OVEN HOOD	5	120 V/1-180 VA	1
DRYER	6,8	240 V/2-5000 VA	1
GFCI WASHER	7	120 V/1-1200 VA	1
WATER HEATER	9,11	240 V/2-4500 VA	1
DUPLEX RECEPTACLE	12	120 V/1-180 VA	6
GFCI OUT DOOR	15	120 V/1-180 VA	3
CONDENSER	16,18	240 V/2-5000 VA	1
RANGE	17,19	240 V/2-5000 VA	1
REFRIGERATOR	20,22	240 V/2-5000 VA	1

[illegible]

LEGEND:

**151-Haven-499-Studio-
Contemporary Barn-550**

DIMENSION PLAN FOR FITTINGS

CLIENT NAME:	Owner
PROJECT NUMBER:	0244_11
DATE:	3/6/2025 4:01:57 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E105

SCALE: **As indicated**

SHEET LIST	
SHEET NUMBER	SHEET NAME
P101	NOTE AND SCHEDULE
P102	WATER SUPPLY AND SEWAGE SYSTEM

PIPE COLOR SCHEME	
—	DOMESTIC COLD WATER
—	DOMESTIC HOT WATER
- - -	SANITARY VENT
—	SANITARY SEWER
—	STORM DRAINAGE
—	GRAY WATER
—	GAS LINE

PLUMBING NOTES

1. 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.
2. 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.
4. 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.
20. POLYVINYL CHLORIDE (PVC) SHALL BE USED FOR THE RAIN WATER SYSTEM.
21. THE MINIMUM 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

Ø	DIAMETER
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BFF	BELOW FINISHED FLOOR
BLW	BELOW
CO	CLEAN OUT
CW	COLD WATER
D	DEGREE
DFU	DRANAGE FIXTURE UNIT
DIA	DIAMETER
DN	DOWN
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOOR SINK
FT	FOOT/FEET
HB	HOSE BIB
HW	HOT WATER
IN	INCH
MIN	MINIMUM
NO	NUMBER
NTS	NOT TO SCALE
PEX	CROSS-LINKED POLYETHYLENE
PLBG	PLUMBING
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RD	ROOF DRAIN
RED	REDUCER
RM	ROOM
RW	RAIN WATER
SF	SQUARE FOOT
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEAN OUT
WSFU	WATER SUPPLY FIXTURE UNIT

PLUMBING LEGEND

	CAP
	BEND 45 DEG
	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"	22 FT
ACRYLONITRILE BUTADIENE STYRENE (ABS)	2"	41 FT
ACRYLONITRILE BUTADIENE STYRENE (ABS)	3"	21 FT
CROSS-LINKED POLYETHYLENE (PEX)	1/2"	87 FT
CROSS-LINKED POLYETHYLENE (PEX)	3/4"	20 FT
CROSS-LINKED POLYETHYLENE (PEX)	1"	1 FT
POLYVINYL CHLORIDE - RIGID	2"	67 FT

FITTING SCHEDULE		
FITTING	SIZE	QTY
DOMESTIC COLD WATER		
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	12
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	1
PEX TEE ELBOW	1/2"ø-1/2"ø-1/2"ø	5
PEX TEE ELBOW	3/4"ø-3/4"ø-3/4"ø	2
PEX TRANSITION ELBOW	1"ø-3/4"ø	1
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	1
DOMESTIC HOT WATER		
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	14
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	2
PEX TEE ELBOW	1/2"ø-1/2"ø-1/2"ø	4
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	1
RAIN WATER		
PVC 90 DEG BEND ELBOW	2"ø-2"ø	8
SEWAGE		
ABS 90 DEGREE BEND ELBOW	1 1/2"ø-1 1/2"ø	2
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	2
ABS P-TRAP	2"ø-2"ø	2
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-3"ø	2
ABS TEE REDUCER ELBOW	2"ø-2"ø-1 1/2"ø	1
ABS TEE REDUCER ELBOW	3"ø-3"ø-1 1/2"ø	1
ABS TEE REDUCER ELBOW	3"ø-3"ø-2"ø	1
WASTE DOUBLE TEE	2"ø-2"ø-2"ø-2"ø	1
VENT		
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.
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						16		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	16	
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	2	
HOSE BIB	1	
SHUTOFF VALVE	6	

PLUMBING SCHEDULE					
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	16		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	16		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

151-Haven-499-Studio-Contemporary Barn-550

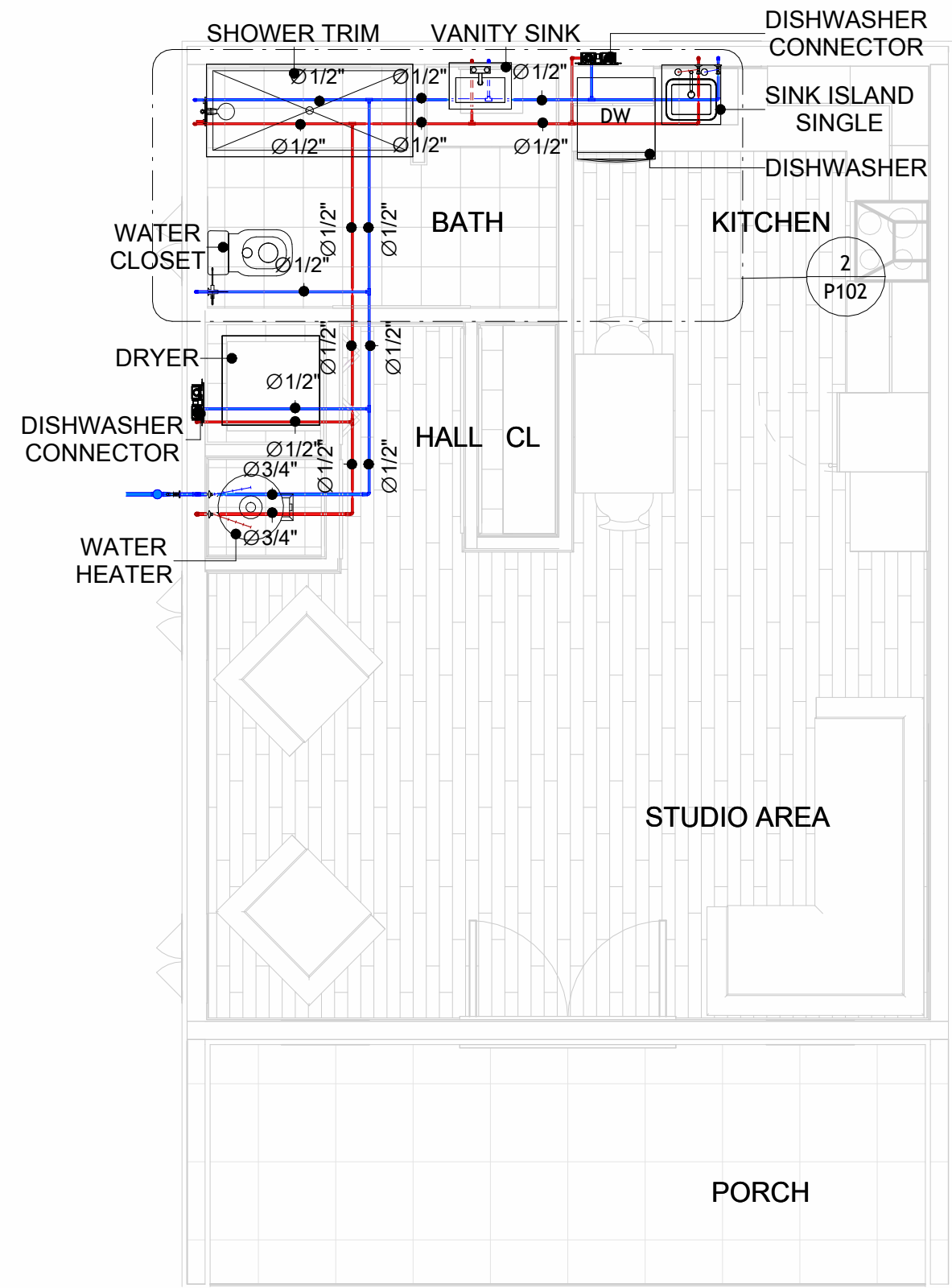
DRAWING NAME

NOTE AND SCHEDULE

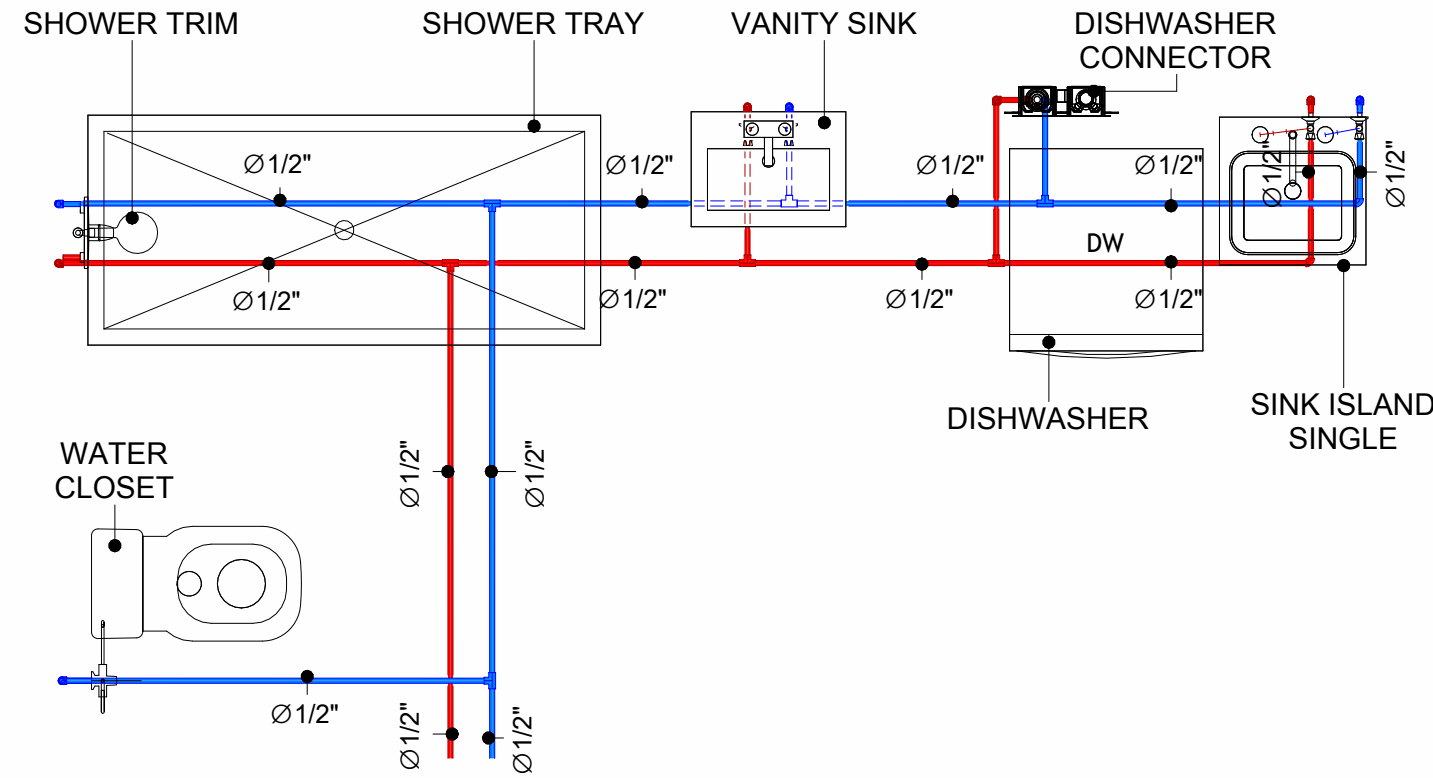
CLIENT NAME:	
PROJECT NUMBER:	0244_11
DATE:	3/5/2025 12:48:21 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

P101

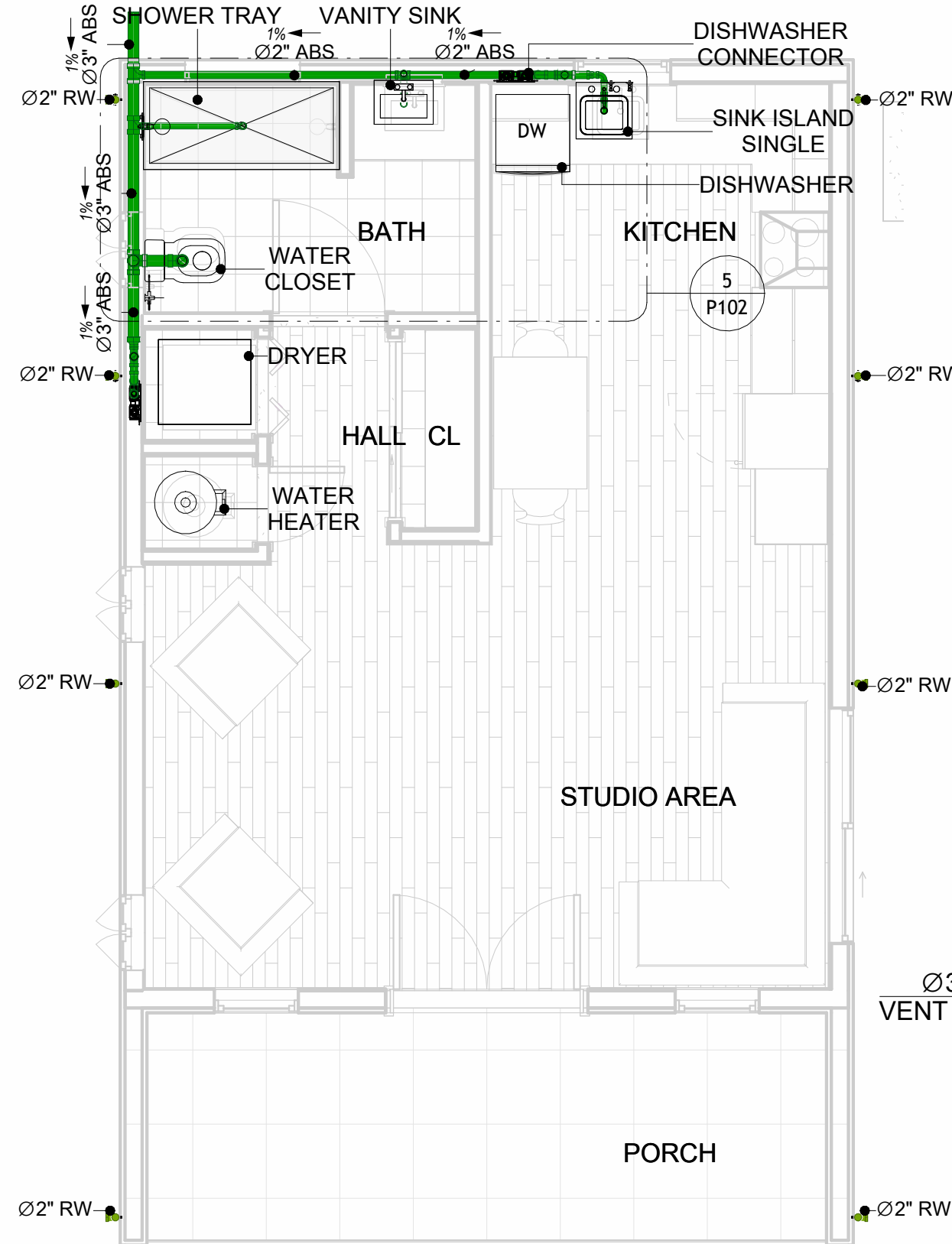
SCALE: 1/2" = 1'-0"



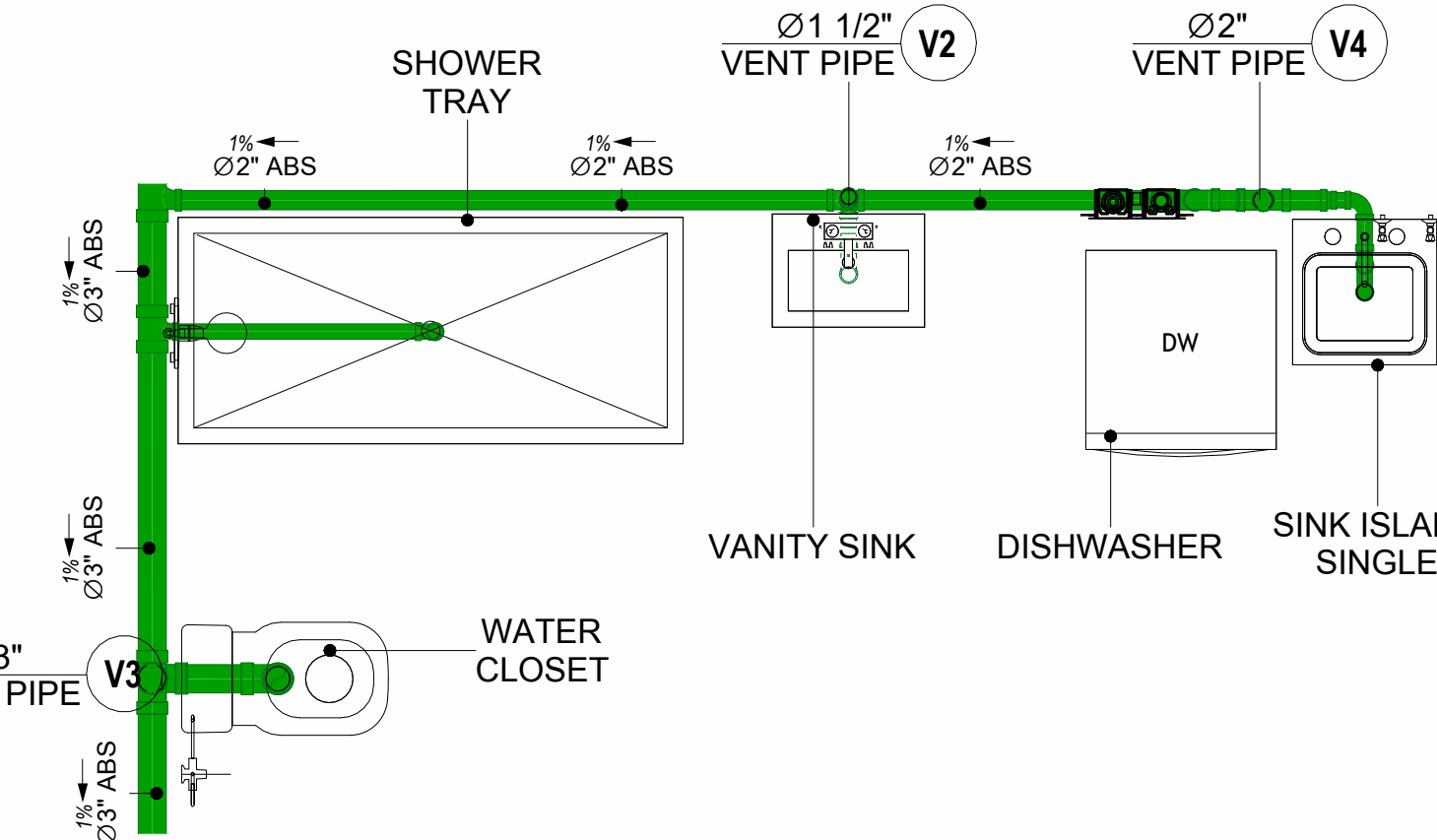
1 OVERALL WATER SUPPLY
1/4" = 1'-0"



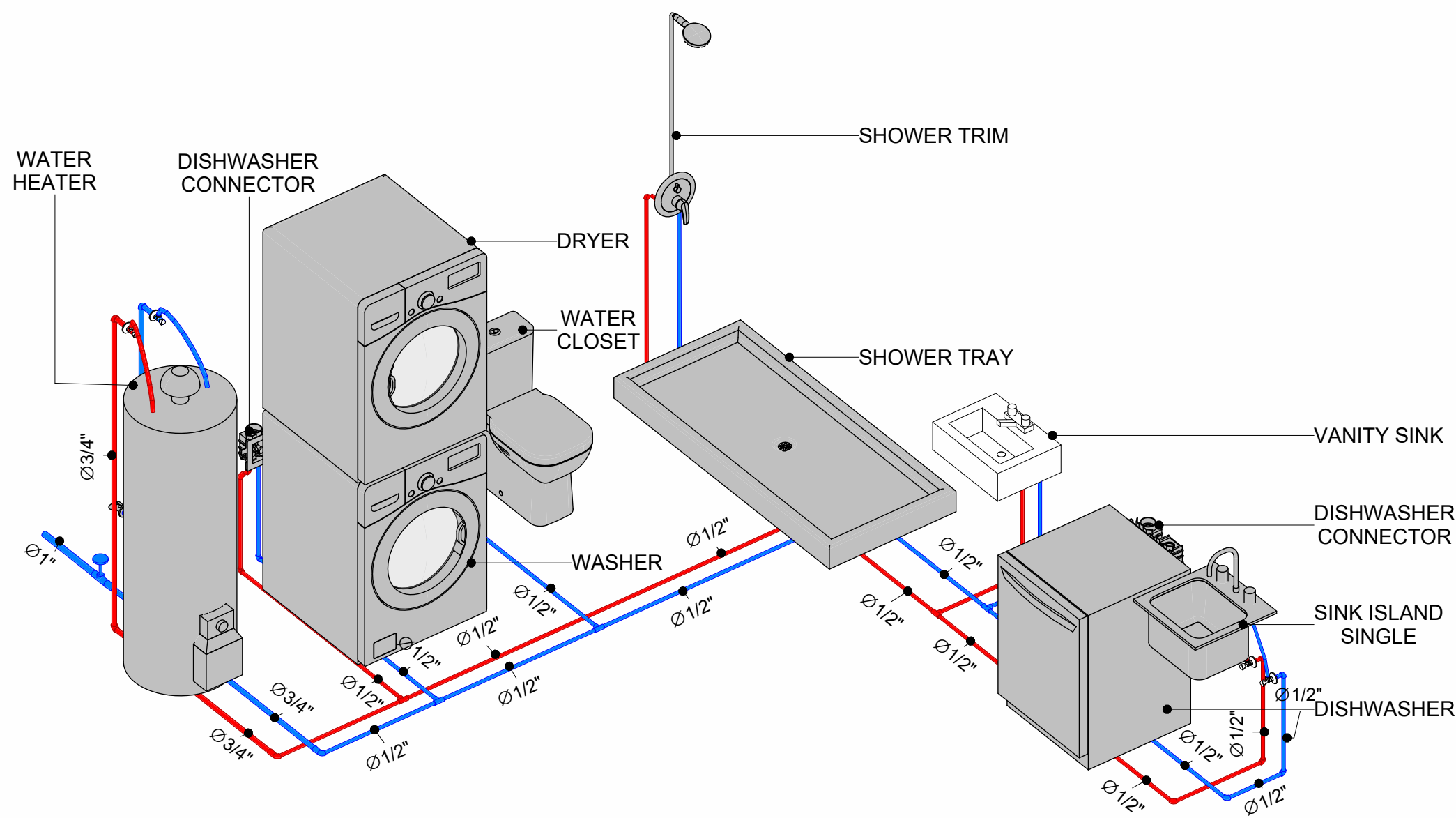
2 BATH AND KITCHEN WATER SUPPLY
1/2" = 1'-0"



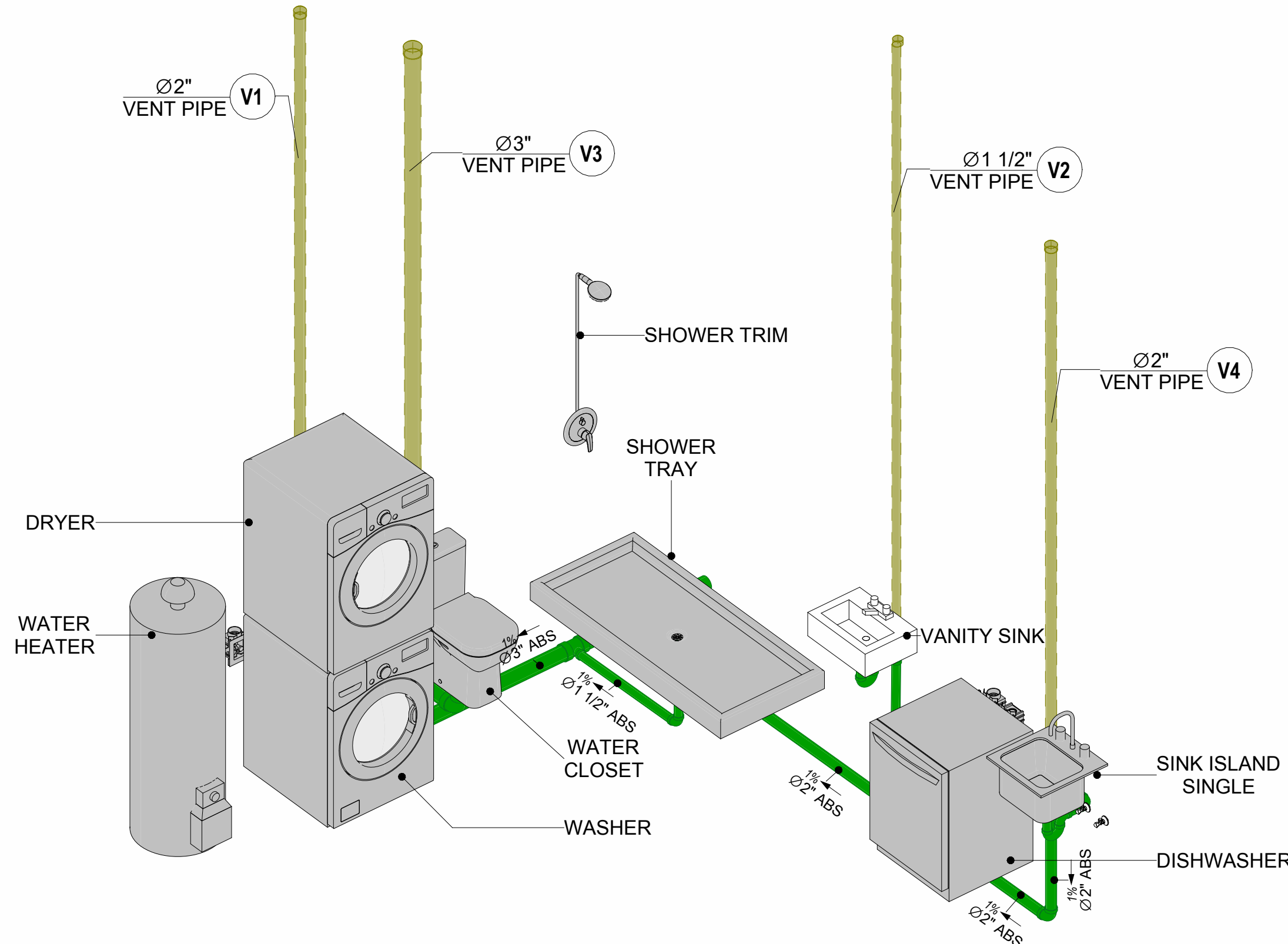
4 OVERALL SANITARY
1/4" = 1'-0"



5 BATH AND KITCHEN SEWAGE
1/2" = 1'-0"



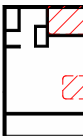
3 WATER SUPPLY RISER DIAGRAM



6 SEWAGE RISER DIAGRAM

PIPE COLOR SCHEME	
—	DOMESTIC COLD WATER
—	DOMESTIC HOT WATER
—	SANITARY VENT
—	SANITARY SEWER
—	STORM DRAINAGE
—	GRAY WATER
—	GAS LINE

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

151-Haven-499-Studio-Contemporary Barn-550

DRAWING NAME

WATER SUPPLY AND SEWAGE SYSTEM

CLIENT NAME:

PROJECT NUMBER: 0244_11

DATE: 3/5/2025 12:48:50 PM

DESIGNED BY: Designer

DRAWN BY: Author

CHECKED BY: Checker

P102

SCALE: As indicated

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!

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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 erect
3 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	7 Earthquake (fault) evaluation
2 Electrical Supply Connection	8 Foundation Plan - subject to soils
3 Sewer Connection	9 Compliance with local energy codes: insulation home wrap and flashing
4 Fresh Water Supply Connection	10 Engineering for wind speed and snow load.
5 Set Backs	11 State and Local ordinances regarding ADUs
6 Soils Evaluation	12 Local Architect and/or Engineer may be necessary

Haven-Studio-Contemporary Barn



Haven-Studio-Contemporary Barn MATERIAL SHOPPING LIST

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ARCHITECTURAL BOM



Haven-Studio-Contemporary Barn							
ARCHITECTURAL MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
APPLIANCES							
1	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	19.23			
2	Laundry Cabinet		FT	0			
3	Vanity Cabinet		FT	3.29			
4	Medicine Cabinet		PCS	1			
5	Kitchen countertop		SF	28			
6	Laundry Countertop		PCS	0			
7	Bathroom Countertop		SF	0			
8	Island		FT	0			
9	Peninsula		FT	0			
10	Closets		SF	32			
CEILING							
1	Ceiling Board	Dry Wall	SF	422			
2	Dry Wall Fastener	Screw	PCS	738.5			
3	Vapor Retarder	Polyethylene film	SF	611			
4	Vapor Retarder Fastener	Nails with washer heads	PCS	1833			
5	Ceiling Board (MRD)	Moisture resistant drywall	SF	62			
6	MRD Fastener		PCS	108.5			
7	Ceiling Board	Marine Plywood	SF	127			
8	Marine Plywood Fastener	Screw	PCS	222.25			
9	Dry Wall Tape		FT	305.5			
FLOORING							
1	Main Living Space		SF	359.88			
2	Bathroom		SF	72.62			
3	Porch		SF	119.46			
STRUCTURE							
1	Foundation		SF	603.85			
WALLS EXTERIOR							
1	Exterior-Grade Plywood		SF	906			
2	Exterior-Grade Plywood Fastener	Self-drilling screws(100/pkt)	SF	9.06			
3	Wall Shteathing (OSB)		PKT	906			
4	Shteathing Fastener	Self-drilling screws(100/pkt)	SF	9.06			
5	Wall Homewrap		PKT	906			
6	Homewrap Fastener	Stapled fastener (200/pkt)	SF	3.4428			
7	Furring Strip		PKT	113.25			
8	Furring Strip Fastener	Self-drilling screws(100/pkt)	PCS	9.06			
9	Wall Paint		PKT	906			
10	Stone Copping	Masonry stone	SF	906			
11	Stone Veneer	Masonry stone	SF	0			
12	Mortar for Stone Veneer		SF	0			
13	Wall Insulation		SF	2057			
WALLS INTERIOR							
1	Cementitious Backer Board		SF	450			
2	Kerdi membrane		SF	450			
3	Kerdi membrane Fastener		SF	450			
4	Wall Ceramic Tile		SF	450			
5	Drywall Board		SF	994			
6	Drywall Fastener	Self-drilling screws(100/pkt)	PKT	9.94			
7	Wall Paint		SF	994			
8	Drywall Tape		FT	187			
9	Wall Sweep		FT	88			

ARCHITECTURAL BOM



🏠 DOORS							
1	Interior Swinging	3' - 0" X 6'-8"	PCS	1			
2	Interior Swinging	2' - 0" X 6'-8"	PCS	1			
3	Bifold	2' - 6" X 6'-8"	PCS	1			
4	Interior Sliding	4' - 8" X 6'-8"	PCS	1			
5	Exterior Swinging	5' - 0" X 6'-8"	PCS	1			
6	Exterior Door Trim		FT	19			
7	Interior Door Trim		FT	150			
8	Entry Lock set			1			
9	Privacy Lock set			1			
10	Passage Lock set			3			
🏠 WINDOWS							
1	Single Hung	2' - 3" X 4'-3"	PCS	2			
2	Casement	2' - 0" X 2'-4"	PCS	3			
3	Awning	3' - 1" X 2'-1"	PCS	1			
4	Single Hung	2' - 7" X 3'-3"	PCS	1			
5	Sliding	6' - 3" X 3'-9"	PCS	1			
6	Exterior Window Trim		FT	94			
7	Interior Window Trim		FT	94			
🏠 ROOF							
1	Roof Covering		SF	676.0			
2	Roof Covering Fastener		PCS	338			
3	Roof Felt Paper		SF	676.0			
4	Roof Felt Paper Fastener		PCS	2028.0			
5	Roof Sheathing		SF	676			
6	Roof Sheathing Fastener		PCS	5408			
7	Batten		FT	312.0			
8	Batten Fastener		PCS	234.6			
9	Soffit		SF	0.0			
10	Soffit Fastener		PCS	0.0			
11	Fascia		FT	106.0			
12	Fascia board fastener		PCS	53			
13	Roof Insulation		SF	676.0			

ELECTRICAL BOM



Haven-Studio-Contemporary Barn

ELECTRICAL MATERIAL SHOPPING LIST

No.	Item	Type	Unit	Quantity	Description
🔗 LIGHTING FIXTURES					
1	Kitchen Ceiling Light		PCS	2	
2	Kitchen Wall Mounted Light		PCS	1	
3	Exterior Wall Mounted Light		PCS	2	
4	Livingroom Ceiling Light With Fan		PCS	1	
5	Bedroom Ceiling Light With Fan		PCS	0	
6	Dining Ceiling Light		PCS	2	
7	Bathroom Wall Mounted Light		PCS	1	
8	Bathroom Ceiling Light		PCS	2	
9	Livingroom Ceiling Light		PCS	4	
10	Bedroom Ceiling Light		PCS	0	
11	Hall & Entry Ceiling Light		PCS	2	
12	Closet Ceiling Light		PCS	1	
13	WD Ceiling Light		PCS	1	
14	Smoke Detector		PCS	0	
🔗 ELECTRICAL FITTINGS					
15	Standard Receptacle 120V	20A	PCS	6	
16	GFCI Receptacle 120V	20 A	PCS	14	
17	GFCI Receptacle 240V	30 A	PCS	2	
18	GFCI Receptacle 240V	50 A	PCS	1	
19	GFCI Receptacle 240V	60 A	PCS	1	
20	Fan Switch		PCS	1	
21	Single Pole Switch		PCS	8	
22	Three Way Switch		PCS	2	
23	Dimmer Switch		PCS	1	
🔗 ELECTRICAL CONDUITS & WIRING					
24	ROMEX 14 AWG	14/2/W/ground	FT	92	
25	ROMEX 12 AWG	12/3/W/ground	FT	238	
26	ROMEX 12 AWG	12/2/W/ground	FT	44	
27	ROMEX 10 AWG	10/3/W/ground	FT	0	
28	ROMEX 10 AWG	10/2/W/ground	FT	34	
29	Romex 8 AWG	8/3/W/ground	FT	0	
30	Romex 8 AWG	8/2/W/ground	FT	19	
31	ROMEX 6 AWG	6/3/W/ground	FT	23	
32	Bare Copper Ground Wire 6 AWG		FT	0	
🔗 ELECTRICAL BOXES & CIRCUTES					
33	Panelboard -240V 1 Phase MLO	200 AMP	PCS	1	
34	Circuit breaker	15 A	PCS	3	
35	Circuit breaker	20 A	PCS	10	
36	Circuit breaker	30 A	PCS	1	
37	Circuit breaker	50 A	PCS	1	
39	Circuit breaker	60 A	PCS	1	
40	Single Gang Switch Box		PCS	5	
41	Double Gang Switch Box		PCS	2	
42	Triple Gang Switch Box		PCS	1	
43	Pull Box	#1/4	PCS	12	
44	Receptacle Box		PCS	23	

PLUMBING BOM

Haven-Studio-Contemporary Barn							
PLUMBING SYSTEM MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
🏠 PLUMBING FIXTURES & ACCESSORIES							
1	Bath Tub (Alcove Tub)		PCS	0			
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	19			
13	Gate Valve		PCS	1			
14	Dishwasher Supply Single Connector		PCS	1			
15	Dishwasher Sewage Single Connector		PCS	1			
16	Laundry Sweat Connector		PCS	1			
🏠 SANITARY & PLUMBING PIPES							
1	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1"	FT	0			
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"	FT	22			
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"	FT	41			
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"	FT	21			
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"	FT	87			
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"	FT	20			
7	PEX (Cross-linked polyethylene) Pipes	ø 1"	FT	1			
8	PVC Pipes Sch.80 - Rigid	ø 1 1/2"	FT	0			
9	PVC Pipes Sch.80 - Rigid	ø 2"	FT	67			
10	PVC Pipes Sch.80 - Rigid	ø 3"	FT	0			
11	Flex Pipe Round	ø 1/2"	PCS	8			

PLUMBING BOM

[illegible]

HVAC BOM

Haven-Studio-Contemporary Barn							
HVAC SYSTEM MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
🔗 HVAC DUCTS							
1	PIPE (REFRIGERANT LINE)	1/4" Ø	FT	1.02			
2	PIPE (REFRIGERANT LINE)	3/4" Ø	FT	26.99			
3	PIPE (REFRIGERANT LINE)	1/2" Ø	FT	0.95			
4	PIPE (REFRIGERANT LINE)	3/4" Ø	FT	32.35			
5	DRAYER HOSE	5" Ø	FT	4			
6	FLEX DUCT ROUND	4"	FT	4.06			
🔗 DUCT FITTINGS & ACCESSORIES							
7	ELBOW (REFRIGERANT LINE)	1/2" (Ø)-1/2" (Ø)	PCS	1			
8	ELBOW (REFRIGERANT LINE)	1/4" (Ø)-1/4" (Ø)	PCS	1			
9	ELBOW (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø)	PCS	10			
10	ELBOW (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)	PCS	7			
11	TRANSITION (REFRIGERANT	3/4" (Ø)-1/2" (Ø)	PCS	2			
12	TRANSITION (REFRIGERANT	3/4" (Ø)-3/8" (Ø)	PCS	1			
13	TRANSITION (REFRIGERANT	3/8" (Ø)-1/4" (Ø)	PCS	1			
15	ROUND TRANSITION(ANGLE)	#REF!	PCS	5			
🔗 HVAC EQUIPMENTS							
16	AIR HANDLING UNIT	WALL MOUNTED	PCS	1			
17	CONDENSER	OUTDOOR UNIT	PCS	1			
18	EXHAUST FAN	75 CFM	PCS	1			
19	EXHAUST HOOD	WALL MOUNTED	PCS	1			
20	HOOD-WALL: VENT	HOOD-WALL: VENT	PCS	1			
21	DRAYER: VENT	DRAYER: VENT	PCS	1			
22	ROOF VENT	3"(Ø)	PCS	1			

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ELECTRICAL BOM



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

ELECTRICAL BOM



ELECTRICAL FITTINGS							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit 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	8		
8	Three Way Switch			PCS	2		
9	Dimmer Switch			PCS	1		
10							
11							
12							
13							
14							
15							

ELECTRICAL BOM



ELECTRICAL CONDUITS & WIRING							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	ROMEX 14 AWG	14/3/W/ground		FT	92		
2	ROMEX 12 AWG	12/3/W/ground		FT	238		
3	ROMEX 12 AWG	12/2/W/ground		FT	44		
4	ROMEX 10 AWG	10/3/W/ground		FT	0		
5	ROMEX 10 AWG	10/2/W/ground		FT	34		
6	Romex 8 AWG	8/3/W/ground		FT	0		
7	Romex 8 AWG	8/2/W/ground		FT	19		
8	ROMEX 6 AWG	6/2/W/ground		FT	23		
9	Bare Copper Ground Wire 6 AWG			FT			
10							
11							
12							
13							
14							
15							
16							

ELECTRICAL BOM



ELECTRICAL BOXES & CIRCUTES							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	Panelboard -240V 1 Phase MLO	200 AMP		PCS	1		
2	Circuit breaker	15 A		PCS	3		
3	Circuit breaker	20 A		PCS	10		
4	Circuit breaker	30 A		PCS	1		
5	Circuit breaker	50 A		PCS	1		
6	Circuit breaker	60 A		PCS	1		
7	Single Gang Switch Box			PCS	5		
8	Double Gang Switch Box			PCS	2		
9	Triple Gang Switch Box			PCS	1		
10	Pull Box	#1/4		PCS	12		
11	Receptacle Box			PCS	23		
12							
13							
14							
15							

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HVAC BOM



HVAC_EQUIPMENTS							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	AIR HANDLING UNIT	WALL MOUNTED		PCS	2		
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							

PLUMBING BOM

 PLUMBING FIXTURES & ACCESSORIES							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Bath Tub (Alcove Tub)			PCS	0		
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	16		
13	Gate Valve			PCS	1		
14	Dishwasher Supply Single Connector			PCS	1		
15	Dishwasher Sewage Single Connector			PCS	1		
16	Laundry Sweat Connector			PCS	1		

PLUMBING BOM

SANITARY & PLUMBING PIPES							
#	Item	Type	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	22		
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"		FT	41		
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"		FT	21		
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"		FT	87		
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"		FT	20		
7	PEX (Cross-linked polyethylene) Pipes	ø 1"		FT	1		
8	PVC Pipes Sch.80 - Rigid	ø 1 1/2"		FT	0		
9	PVC Pipes Sch.80 - Rigid	ø 2"		FT	67		
10	PVC Pipes Sch.80 - Rigid	ø 3"		FT	0		
11	Flex Pipe Round	ø 1/2"		PCS	8		

PLUMBING BOM

PIPE FITTINGS 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS 90 Degree Bend Elbow	1 1/2"Ø-1 1/2"Ø		PCS	2		
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	2		
5	ABS P-Trap	2"Ø-2"Ø		PCS	2		
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	2		
11	ABS Tee Reducer Elbow	2"Ø-2"Ø-1 1/2"Ø		PCS	1		
12	ABS Tee Reducer Elbow	3"Ø-3"Ø-1 1/2"Ø		PCS	1		
13	ABS Tee Reducer Elbow	3"Ø-3"Ø-2"Ø		PCS	1		
14	ABS Vent Cap Elbow	1 1/2"Ø		PCS	1		
15	ABS Vent Cap Elbow	2"Ø		PCS	2		

PLUMBING BOM

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APPLIANCES							
#	Item	Type	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	0		
7	Microwave			PCS	0		
8							
9							
10							
11							
12							
13							
14							
15							
16							

ARCHITECTURAL BOM



CASEWORKS 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Kitchen Cabinet			FT	19.23		
2	Laundry Cabinet			FT	0		
3	Vanity Cabinet			FT	3.29		
4	Medicine Cabinet			PCS	1		
5	Kitchen countertop			SF	28		
6	Laundry Countertop			PCS	0		
7	Bathroom Countertop			SF	0		
8	Island			FT	0		
9	Peninsula			FT	0		
10	Closets			SF	32		
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



CEILING 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
LIVING ROOM + KITCHEN				SF	368.0		
1	Ceiling Board	Drywall		SF	368		
2	Drywall Fastener	Screw		PCS	644		
3	Vapor Retarder	Polyethylene film		SF	368		
4	Vapor Retarder Fastener	Nails with washer heads		PCS	1104		
BATH ROOM				SF	62.0		
5	Ceiling Board	MRD (Moisture resistant drywall)		SF	62		
6	MRD Fastener	Screw		PCS	109		
HALL				SF	21.0		
7	Ceiling Board	Drywall		SF	21		
8	Drywall Fastener	Screw		PCS	37		
9	Vapor Retarder	Polyethylene film		SF	21		
10	Vapor Retarder Fastener	Nails with washer heads		PCS	63		
PORCH				SF	127.0		
11	Ceiling Board	Marine Plywood		SF	127		
12	Exterior Grade Plywood	Screw		PCS	222		

ARCHITECTURAL BOM



CEILING 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	WD			SF	11.0		
13	Ceiling Board	Drywall		SF	11		
14	Drywall Fastener	Screw		PCS	19		
15	Vapor Retarder	Polyethylene film		SF	11		
16	Vapor Retarder Fastener	Nails with washer heads		PCS	33		
	CLOSET			SF	13.0		
17	Ceiling Board	Drywall		SF	13		
18	Drywall Fastener	Screw		PCS	23		
19	Vapor Retarder	Polyethylene film		SF	13		
20	Vapor Retarder Fastener	Nails with washer heads		PCS	39		
	WH			SF	9.0		
21	Ceiling Board	Drywall		SF	9		
22	Drywall Fastener	Screw		PCS	16		
23	Vapor Retarder	Polyethylene film		SF	9		
24	Vapor Retarder Fastener	Nails with washer heads		PCS	27		

ARCHITECTURAL BOM



FLOORING INTERIOR 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	CL #1						
1	Closet Flooring			SF	11.28		
2	Wood underlay	Foam Pad Polyethylene		SF	11.28		
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	11.28		
	LIVING ROOM AND KITCHEN						
4	Living Area Flooring			SF	348.6		
5	Wood underlay	Foam Pad Polyethylene		SF	348.6		
6	Vapor Retarder	Vapor Barrier Polyethylene		SF	348.6		
	BATHROOM 1						
7	Tile Finish			SF	55.15		
8	Adhesive	1/2" Thin set Mortar		SF	55.15		
9	Vapor Retarder	Vapor Barrier Polyethylene		SF	55.15		

ARCHITECTURAL BOM

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ARCHITECTURAL BOM



FLOORING EXTERIOR							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	
	STRUCTURE			SF	603.85		
1	Concrete Slab	4"concrete cast in situ		CF	201.29		
2	Insulation	Rigid insulation		SF	176.31		
3	Hard core	Compacted soil		CF	153.07		
4	Re-bar	#4 re-bar		Ton	0.57		
5	Concrete Pad	4"concrete cast in situ		CF	1.58		
6	Slab edge	Turndown		CF	143.46		
	PORCH FRONT						
1	Tile Finish			SF	119.46		
2	Adhesive	1/2" Thin set Mortar		SF	119.46		
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	119.46		

ARCHITECTURAL BOM



WALLS: EXTERIOR							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Exterior-Grade Plywood Horizontal Siding			SF	906		
2	Exterior-Grade Plywood Fastener 8/panel	Self-drilling screws(100/pkt)		PKT	9.06		
3	Wall Shteaching (OSB)			SF	906		
4	Shteaching Fastener	Self-drilling screws(100/pkt)		PKT	9.06		
5	Wall Homewrap			SF	906		
6	Homewrap Fastener	Stapled fastener (200/pkt)		PKT	3.44		
7	Furring Strip			PCS	113.25		
8	Furring Strip Fastener	Self-drilling screws(100/pkt)		PKT	9.06		
9	Wall Paint			SF	906		
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	2057		
14							
15							

ARCHITECTURAL BOM



WALLS: INTERIOR 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
BATHROOM				SF	53.0		
1	Cementitious Backer Board			SF	332		
2	Kerdi membrane			SF	332		
3	Kerdi membrane Fastener			SF	332		
4	Wall Ceramic Tile			SF	332		
CL				SF	11.0		
5	Drywall Board			SF	147		
6	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.47		
7	Wall Paint			SF	147		
8	Drywall Tape			FT	27.56422276		
HALL				SF	23.0		
9	Drywall Board			SF	74		
10	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	0.74		
11	Wall Paint			SF	74		
12	Drywall Tape			FT	13.87586724		

ARCHITECTURAL BOM



WALLS: INTERIOR 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	STUDIO			SF	216.0		
13	Drywall Board			SF	357		
14	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.57		
15	Wall Paint			SF	357		
16	Drywall Tape			FT	67.0		
	KITCHEN			SF	110.0		
17	Cementitious Backer Board			SF	28		
18	Drywall Board			SF	331		
19	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.31		
20	Kerdi membrane			SF	28		
21	Kerdi membrane Fastener			SF	28		
22	Wall Ceramic Tile			SF	28		
23	Wall Paint			SF	331		
24	Drywall Tape			FT	62.5		

ARCHITECTURAL BOM



WALLS: INTERIOR 03							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	WD			SF	9.0		
29	Cementitious Backer Board			SF	90		
30	Kerdi membrane			SF	90		
31	Kerdi membrane Fastener			SF	90		
32	Wall Ceramic Tile			SF	90		
	WH			SF	7.0		
33	Drywall Board			SF	85		
34	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	0.85		
35	Wall Paint			SF	85		
36	Drywall Tape			FT	16		
1	Wall Sweep			FT	88		

ARCHITECTURAL BOM



	DOORS						
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Interior Swinging	3' - 0" X 6'-8"		PCS	1		
2	Interior Swinging	2' - 0" X 6'-8"		PCS	1		
3	Bifold	2' - 6" X 6'-8"		PCS	1		
4	Interior Sliding	4' - 8" X 6'-8"		PCS	1		
5	Exterior Swinging	5' - 0" X 6'-8"		PCS	1		
6	Exterior Door Trim			FT	19		
7	Interior Door Trim			FT	150		
8	Entry Lock set			PCS	1		
9	Privacy Lock set			PCS	1		
10	Passage Lock set			PCS	3		
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



WINDOWS							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Single Hung	2' - 3" X 4'-3"		PCS	2		
2	Casement	2' - 0" X 2'-4"		PCS	3		
3	Awning	3' - 1" X 2'-1"		PCS	1		
4	Single Hung	2' - 7" X 3'-3"		PCS	1		
5	Sliding	6' - 3" X 3'-9"		PCS	1		
6	Exterior Window Trim			FT	94		
7	Interior Window Trim			FT	94		
8							
9							
10							
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



#	ROOF 01						
	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Roof Covering			SF	676.0		
2	Roof Covering Fastener			PCS	338		
3	Roof Felt Paper			SF	676.0		
4	Roof Felt Paper Fastener			PCS	2028.0		
5	Roof Sheathing			SF	676.0		
6	Roof Sheathing Fastener			PCS	5408		
7	Batten			FT	312.0		
8	Batten Fastener			PCS	234.6		
9	Soffit			SF	0.0		
10	Soffit Fastener			PCS	0.0		
11	Fascia			FT	106.0		
12	Fascia board fastener			PCS	53		
13	Roof Insulation			SF	676.0		
14							
15							