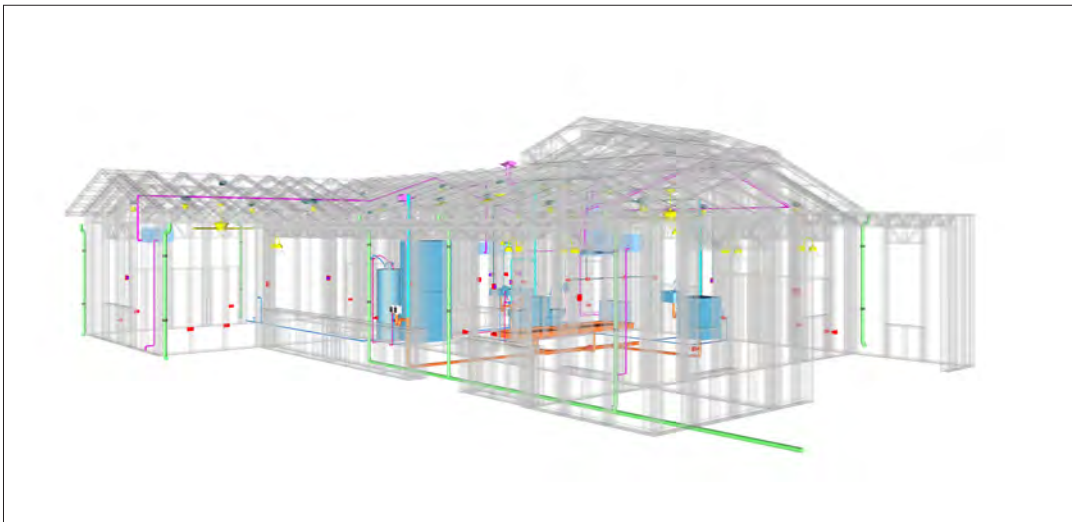
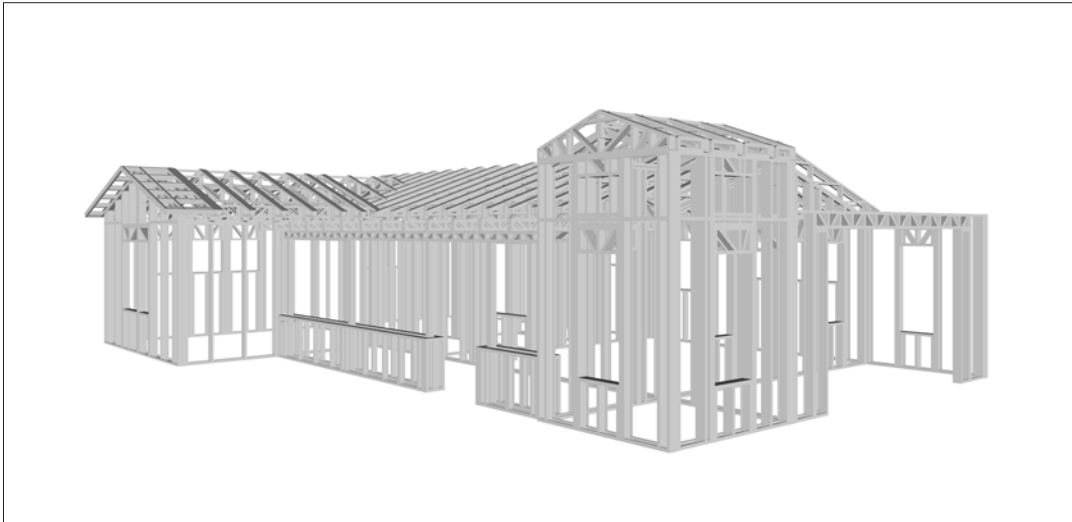
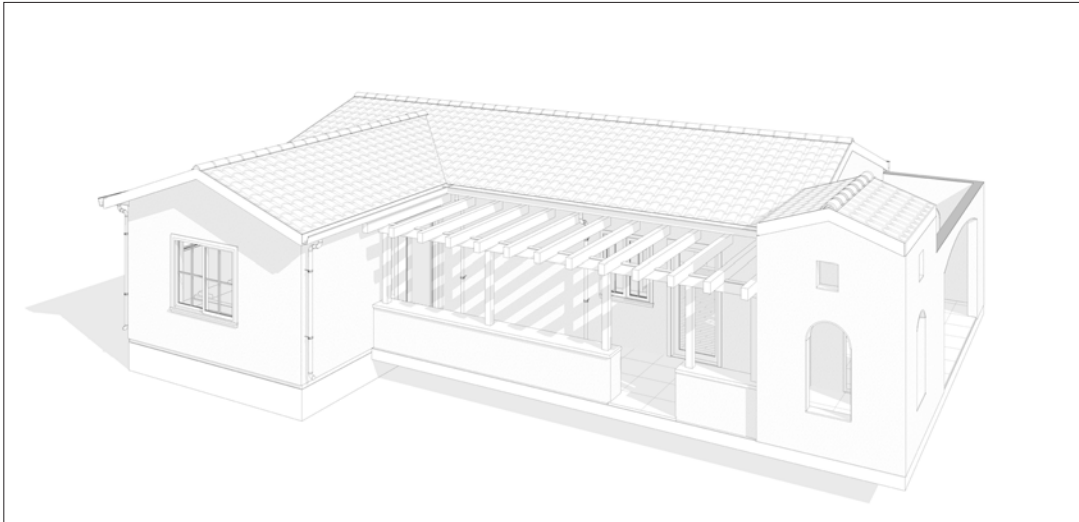




## ORION

The Orion is a charming Spanish-style two-bedroom, two-bathroom home designed for comfortable and efficient living. The exterior walls are finished with a light stucco, creating a warm and traditional aesthetic. A simple gable roof covered in terracotta tiles provides shelter and complements the overall Spanish style. A notable architectural feature is the integrated tower element, adding vertical interest and a unique focal point to the design. The prominent covered porch and pergola supported by substantial timber posts, creating a welcoming outdoor space. Arched openings and decorative window details further enhance the Spanish architectural character.

Inside, the Orion features a simple L-shaped plan. The living, dining, and kitchen areas are seamlessly merged into a single large room at one end of the house, creating a spacious and versatile living space. The bedrooms are thoughtfully located on the other end of the plan, offering private and quiet retreats. Functional spaces, such as the bathrooms and laundry, are strategically placed between the living area and the bedrooms, creating a clear separation and enhancing the overall functionality of the home.

### 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



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## 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.



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

### KEY PLAN

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
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|     |             |      |

### NOTE:

### LEGEND:

### PROJECT

**130-Orion-910-  
2Bd2Ba-Spanish-  
Tower-550**

### DRAWING NAME

## INTRODUCTION

### CLIENT NAME:

### PROJECT NUMBER:

### DATE:

### DESIGNED BY:

### DRAWN BY:

### CHECKED BY:

## DISCLAIMER

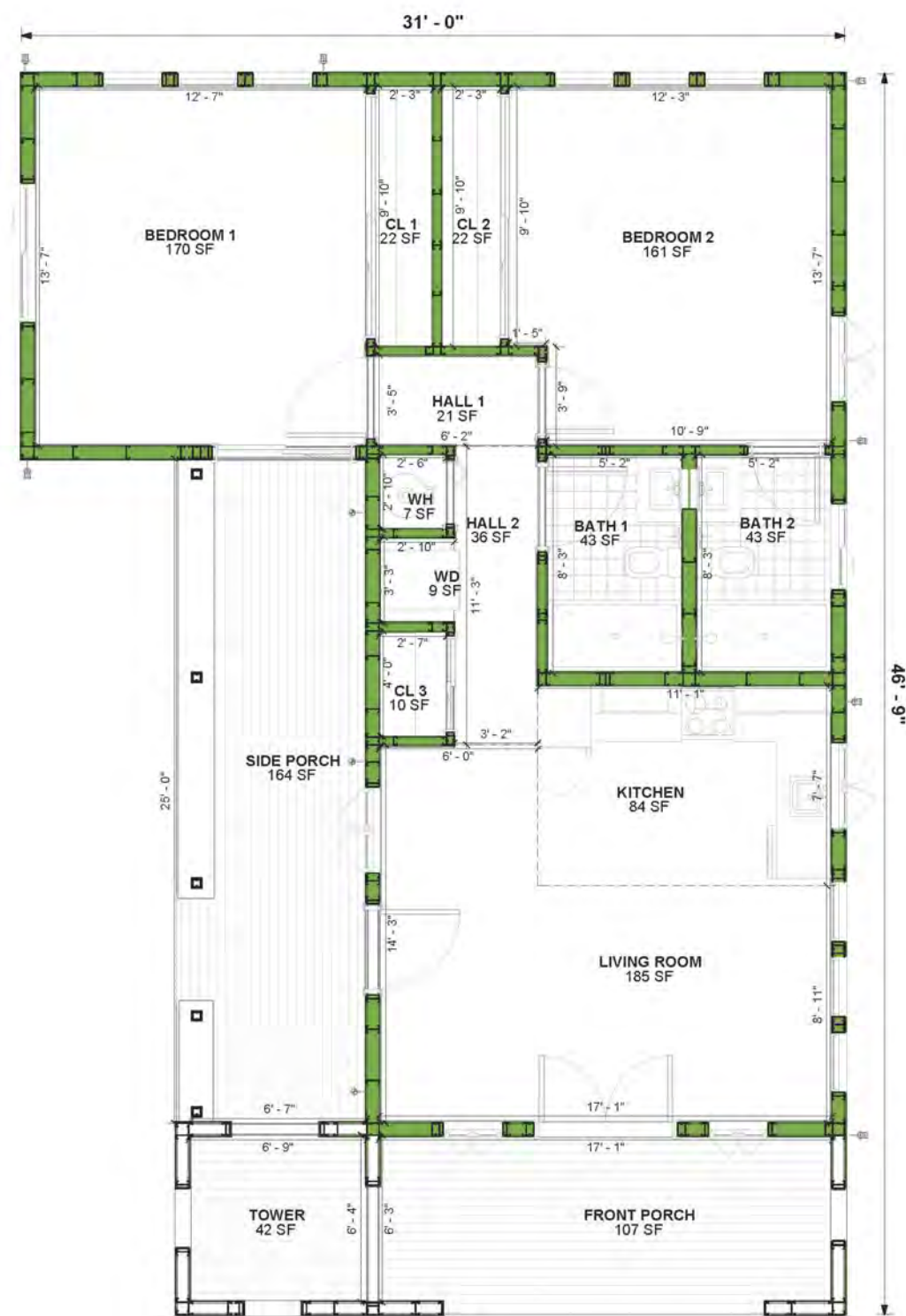
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## FLOOR PLAN

**910 SF**

**2 Bed Rooms**

**Covered Porch**



FrameUpNow  
GROUND FLOOR PLAN  
909 SF







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  |  |

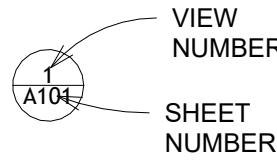
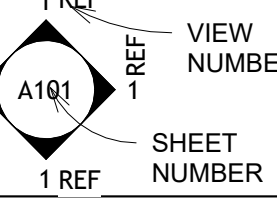
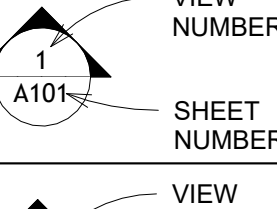
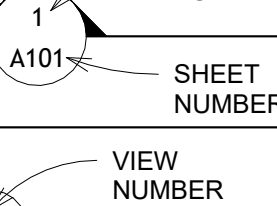
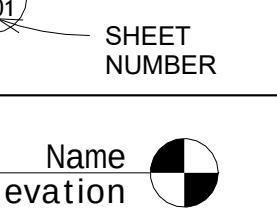
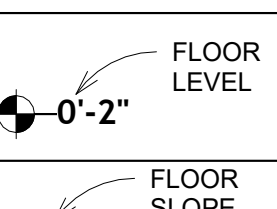
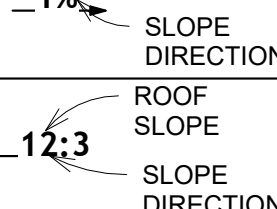
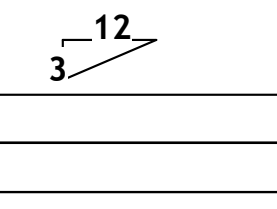
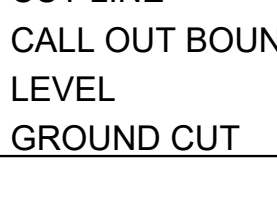
ZONING

|  |  |
|--|--|
|  |  |
|--|--|

CODES AND AMENDMENTS

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

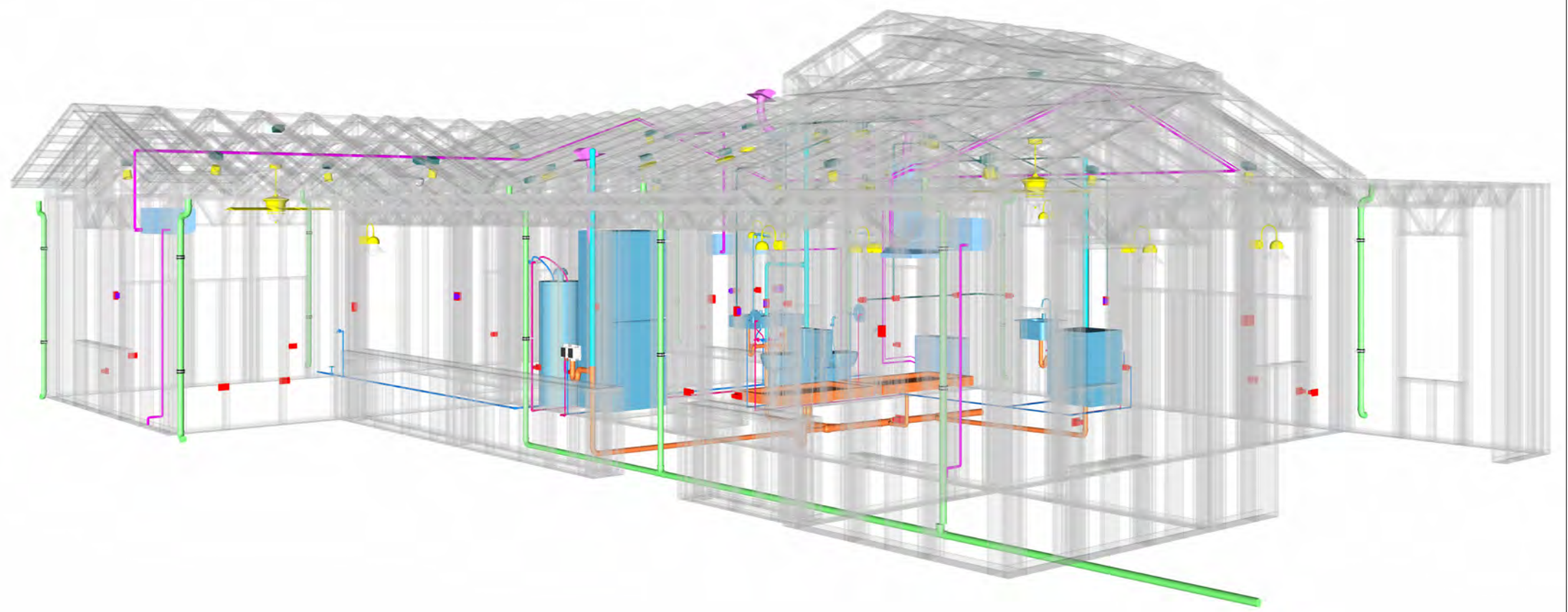
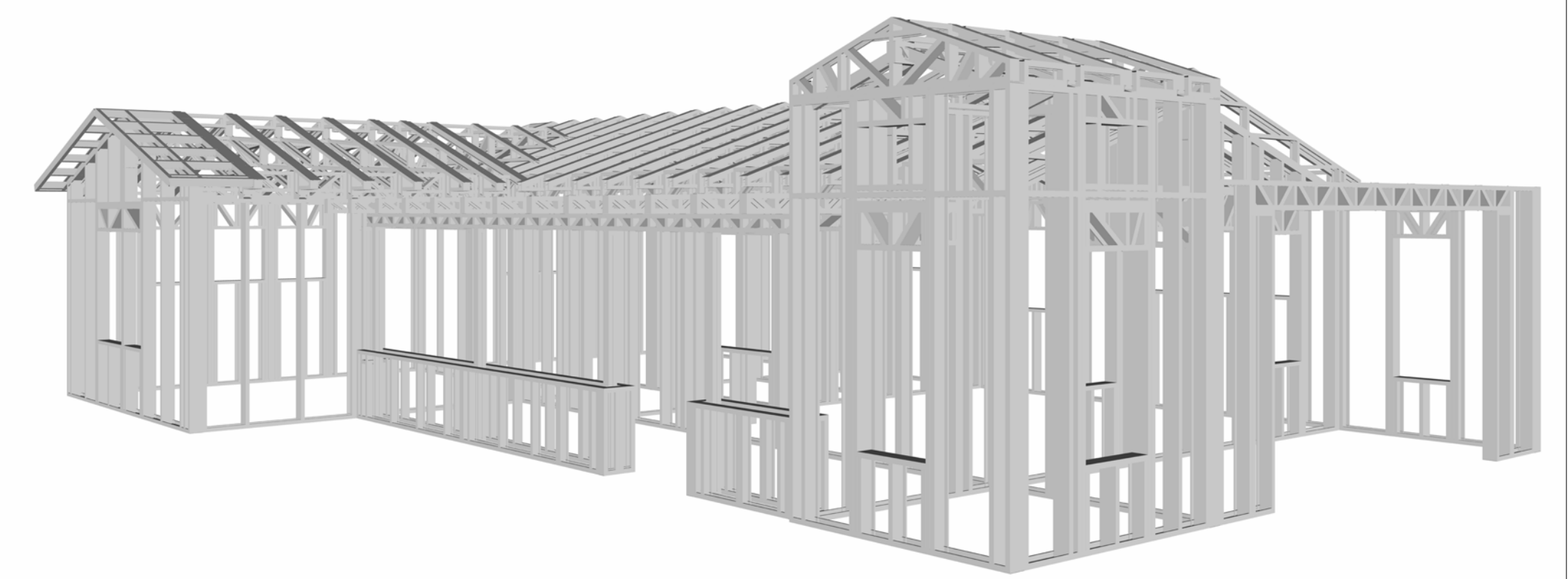
| LINE LEGEND            |       |
|------------------------|-------|
| HIDDEN LINE            | ----- |
| ROOM SEPARATOR         | ----- |
| DOOR OPENING DIRECTION | ----- |
| OVER HEAD              | ----- |
| CUT LINE               | ----- |
| CALL OUT BOUNDRY       | ----- |
| LEVEL             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

| SYMBOLS                                                                             | SYMBOLS NAME         |
|-------------------------------------------------------------------------------------|----------------------|
|    | CALLOUT HEAD         |
|    | INTERIOR ELEVATION   |
|    | BUILDING ELEVATION   |
|    | SECTION              |
|    | DETAIL VIEW          |
|    | ELEVATION LEVEL      |
|    | SPOT ELEVATION       |
|   | FLOOR SLOPE          |
|  | ROOF SLOPE           |
|  | ROOF SLOPE ELEVATION |

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| 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  | TAG'S NAME               |
|------|--------------------------|
| CA01 | CASEWORK TAG             |
| 1    | DOOR TAG                 |
| 1    | FURNITURE TAG            |
| 1    | WINDOW TAG               |
| SE01 | SPECIALTY EQUIPMENT TAG  |
| ME01 | MECHANICAL EQUIPMENT TAG |
| PE01 | PLUMBING EQUIPMENT TAG   |

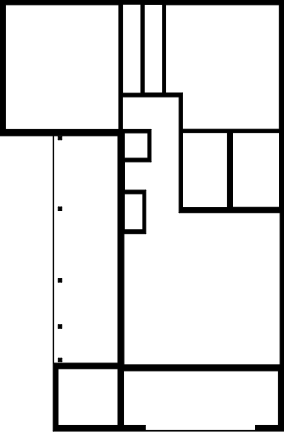
| ABBREVIATION |                                           |
|--------------|-------------------------------------------|
| AFS          | ACTION FLOOR SYSTEMS                      |
| ASTM D698    | AMERICAN SOCIETY FOR TESTING AND MATERIAL |
| CA           | CASEWORK                                  |
| 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. STHD8  | 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 CONSENSING 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                           |



# 130 ORION 910 2BD 2BA SPANISH TOWER 550

| SQUARE FOOTAGE |      |
|----------------|------|
| LIVING         | 909  |
| PORCH          | 347  |
| TOTAL          | 1256 |

## KEY PLAN



| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
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## NOTE:

## LEGEND:

## PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

## DRAWING NAME

COVER SHEET

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:05 AM |
| 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.

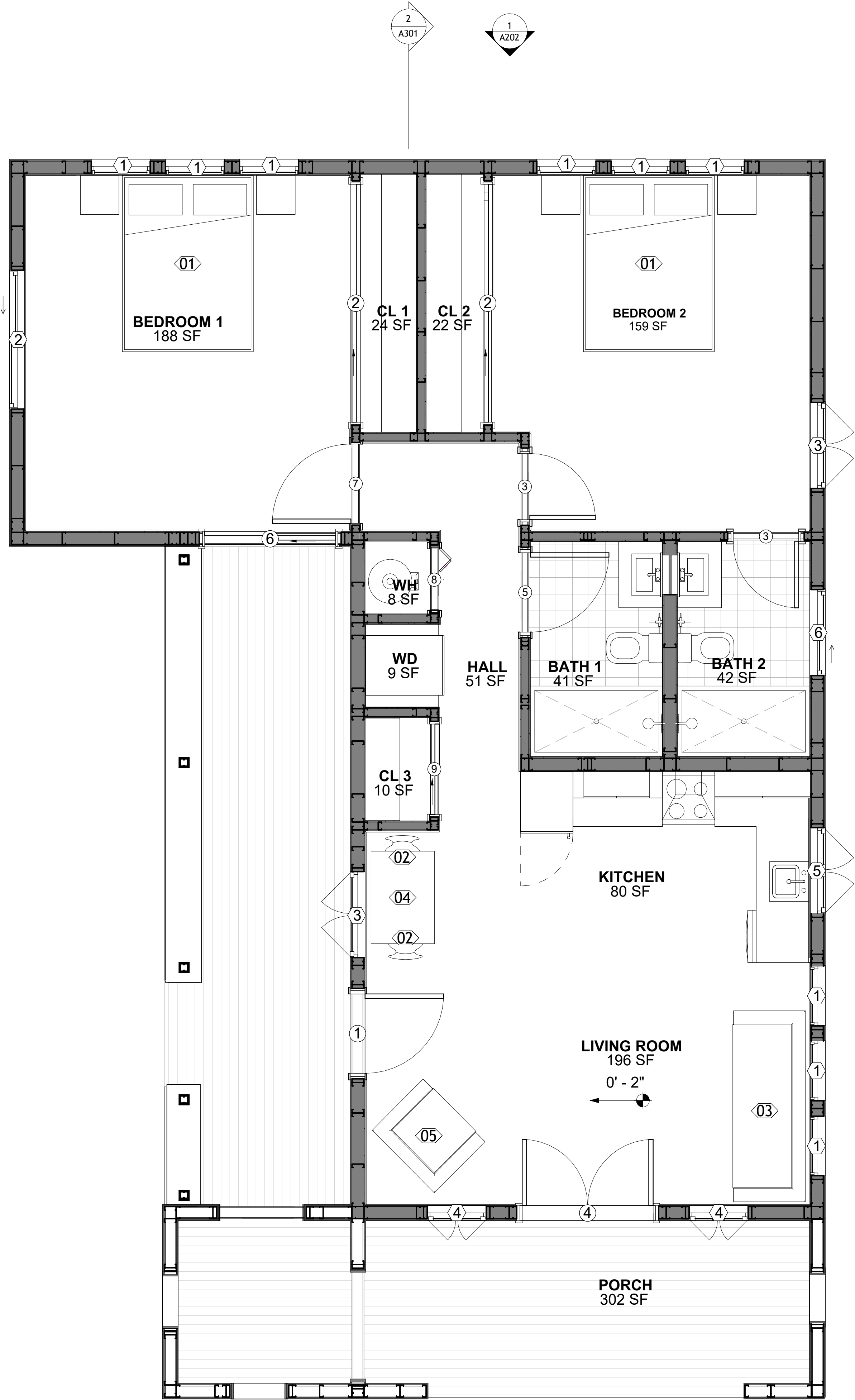
REFER TO SHEETS **A201** & **A202** FOR GENERAL NOTES ON EXTERNAL FINISHING MATERIALS

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 A |                    |       |
|----------------------|--------------------|-------|
| TYPE MARK            | TYPE               | COUNT |
| 01                   | KING SIZE BED      | 2     |
| 02                   | DINING CHAIR       | 2     |
| 03                   | THREE SEAT SOFA    | 1     |
| 04                   | 25" X 60" DINING 2 | 1     |
| 05                   | ONE SEAT SOFA      | 1     |

| ROOM FINISH SCHEDULE A |             |                |             |                       |                |                |          |
|------------------------|-------------|----------------|-------------|-----------------------|----------------|----------------|----------|
| ROOM NUMBER            | ROOM NAME   | FLOOR FINISH   | BASE FINISH | WALL FINISH           | CEILING FINISH | CEILING HEIGHT | COMMENTS |
| 01                     | BATH 1      | VINYL TILES    | CONCRETE    | CERAMIC TILE          | MRD            | 8' - 0"        |          |
| 02                     | BEDROOM 2   | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 03                     | BATH 2      | VINYL TILES    | CONCRETE    | CERAMIC TILE          | MRD            | 8' - 0"        |          |
| 04                     | KITCHEN     | HARDWOOD       | CONCRETE    | WALL PAINTT + CERAMIC | DRY WALL       | 8' - 0"        |          |
| 05                     | LIVING ROOM | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 06                     | CL 3        | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 07                     | WD          | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 08                     | WH          | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 09                     | CL 2        | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 10                     | CL 1        | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 12                     | BEDROOM 1   | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 13                     | HALL        | HARDWOOD       | CONCRETE    | WALL PAINT            | DRY WALL       | 8' - 0"        |          |
| 14                     | PORCH       | PROCELAIN TILE | CONCRETE    | STUCCO FINISH         | PLYWOOD        | 8' - 0"        |          |



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

| SQUARE FOOTAGE |      |
|----------------|------|
| LIVING         | 909  |
| PORCH          | 347  |
| TOTAL          | 1256 |

KEY PLAN

| NO. | DESCRIPTION | DATE |
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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

DRAWING NAME

FLOOR PLAN

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:06 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

A101

SCALE: As indicated



KEY PLAN

| NO. | DESCRIPTION | DATE |
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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

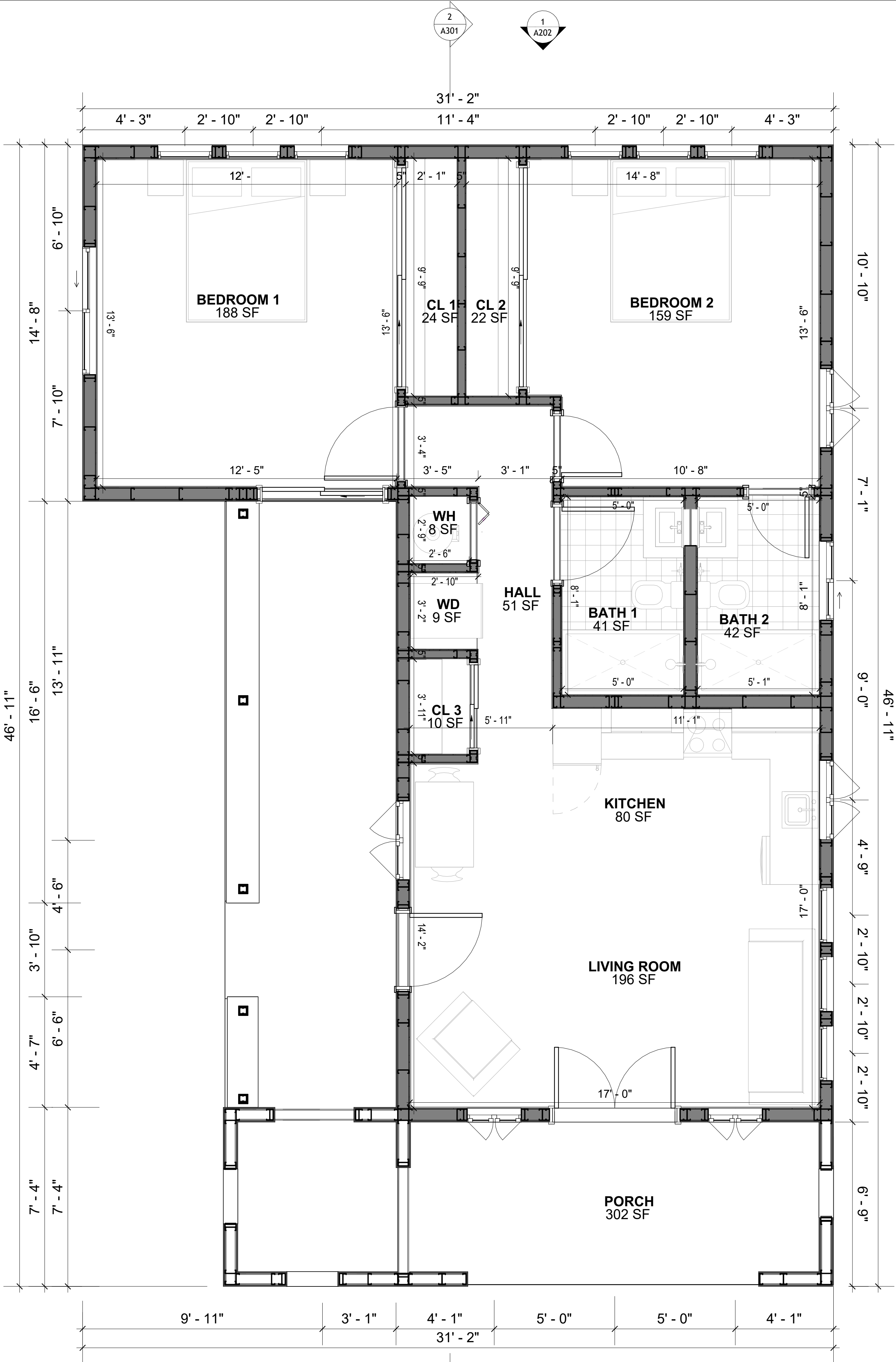
DRAWING NAME

DIMENSION PLAN

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:07 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

A102

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



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

| SQUARE FOOTAGE |      |
|----------------|------|
| LIVING         | 909  |
| PORCH          | 347  |
| TOTAL          | 1256 |

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.

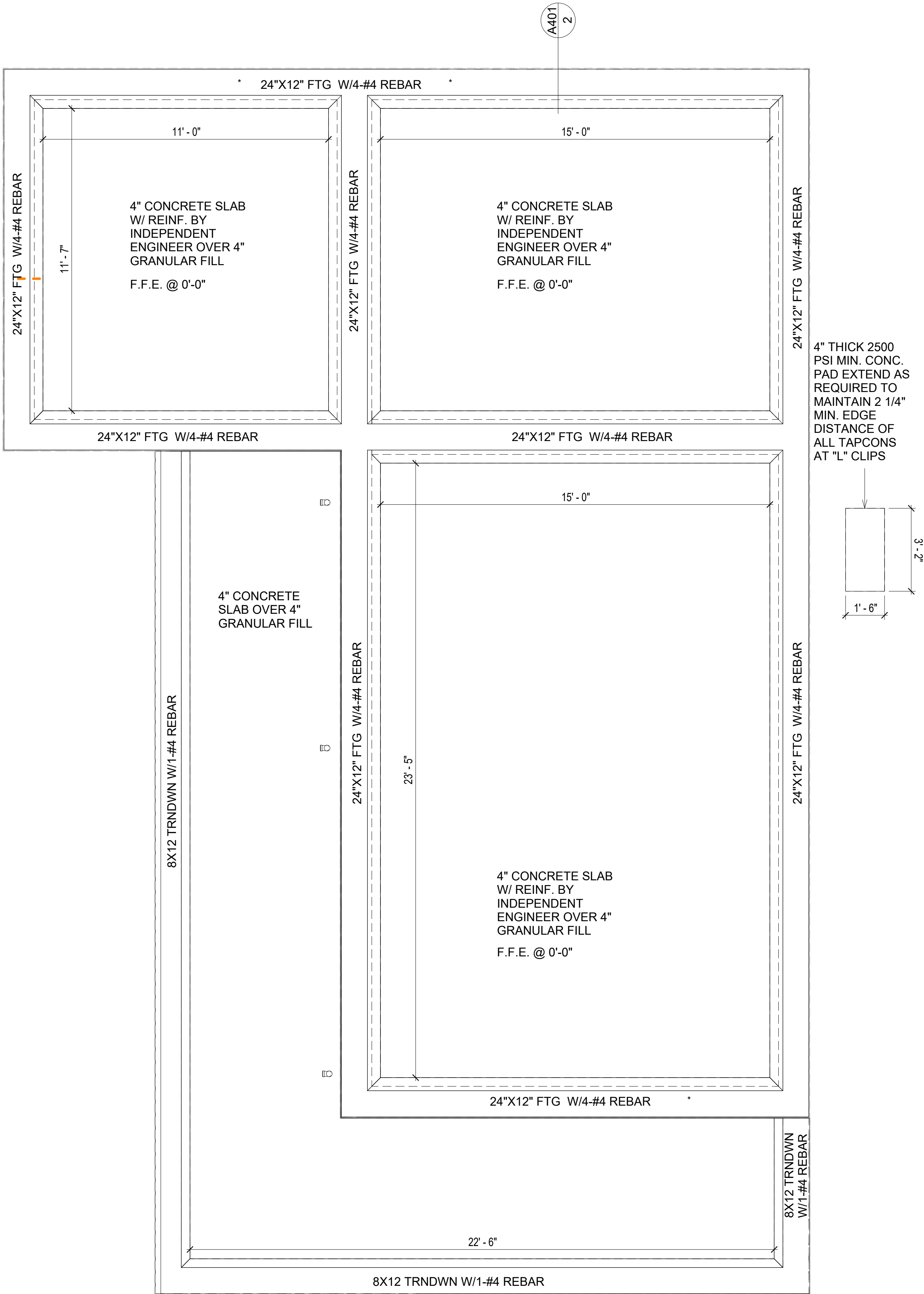
3. **CONCRETE CONSTRUCTION:**  
- THE SLAB SHALL BE UNDERLAIN BY A VAPOR BARRIER/RETARDER IN THE LIVING AREA (TYPICALLY POLYETHYLENE, UNLESS MORE STRINGENT PROTECTION REQUIRED BY THE ARCHITECT, ENGINEER, FLOOR COVERING MANUFACTURER, OR ACCEPTED PRACTICE). UNLESS OTHERWISE REQUIRED, BARRIER MAY BE OMITTED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

- ALL HOLDDOWNS , STRAP, AND POST LOCATIONS.
- CONCRETE FINISHES. PANEL RISER LOCATION - WHERE APPLICABLE.
- UNDERSLAB MECHANICAL REQUIREMENTS.
- STEM WALL BLOCKOUTS.
- UNDERSLAB ELECTRICAL REQUIREMENTS AND PANEL RISER LOCATION. WHERE APPLICABLE.
- 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



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

| SQUARE FOOTAGE |      |
|----------------|------|
| LIVING         | 909  |
| PORCH          | 347  |
| TOTAL          | 1256 |

KEY PLAN

| NO. | DESCRIPTION | DATE |
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NOTE:

LEGEND:

PROJECT

**130-ORION-910-2BD  
2BA-SPANISH-TOWER-550**

DRAWING NAME

**FOUNDATION PLAN**

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:08 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

**S101**

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



GENERAL NOTES

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

A) FOUNDATION PLAN NOTES:

- 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.
- INSTALL HOLDDOWNS BEFORE CONCRETE SLAB POUR.
- EXISTING FILL ON-SITE SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
- ALL FLOOR SLABS ARE REINFORCED ON CONCRETE SLABS.

SPECIAL INSPECTION IS REQUIRED FOR THICKENED FOUNDATION CONSTRUCTION

- REINFORCEMENT
- 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:

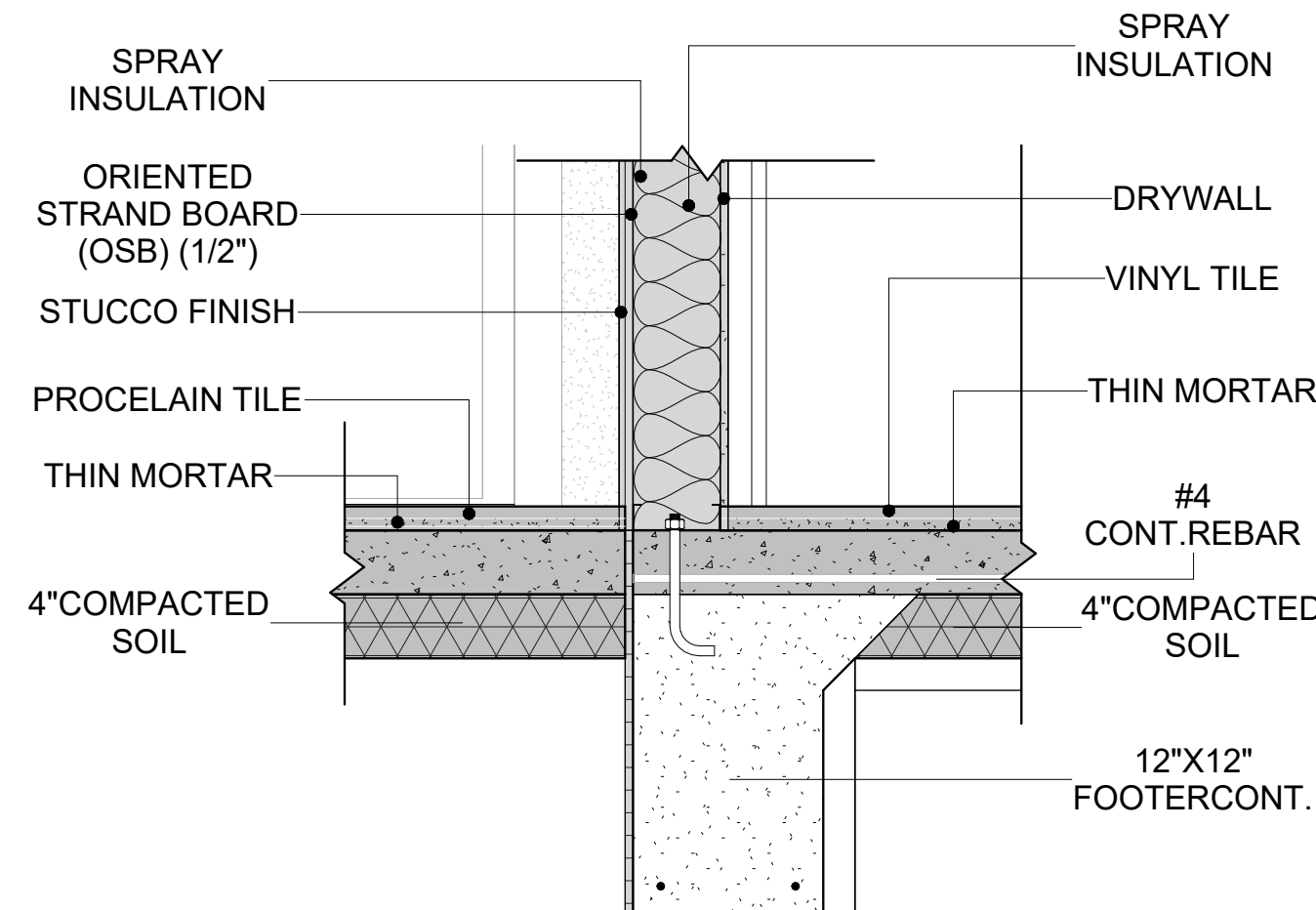
- A) FOOTING = 40,000 PSI  
B) NON-LOAD BEARING WALLS AND PARAPETS= 40,000 PSI

- SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND
- GRADE OF STEEL FOR RCC WORKS SHALL BE GRADE 4 10.
- BAR NOTATIONS GIVES INFORMATION  
A) BAR SIZE  
B) SPACING(IF REQUIRED)
- LAP REINFORCEMENT ONLY AT LOCATION SHOWN IN THE DRAWINGS
- REINFORCEMENT SHALL NOT BE CUT, VENT OR HEATED ON SITE WITHOUT ENGINEERS' APPROVAL.
- CONCRETE SLAB NOTES

- ALL SLAB REINFORCEMENT SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM TOP OF SLAB.
- 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.

#4-REBAR ON A 2'-0" X 2'-0" GRID  
SLAB ON GRADE FOUNDATION

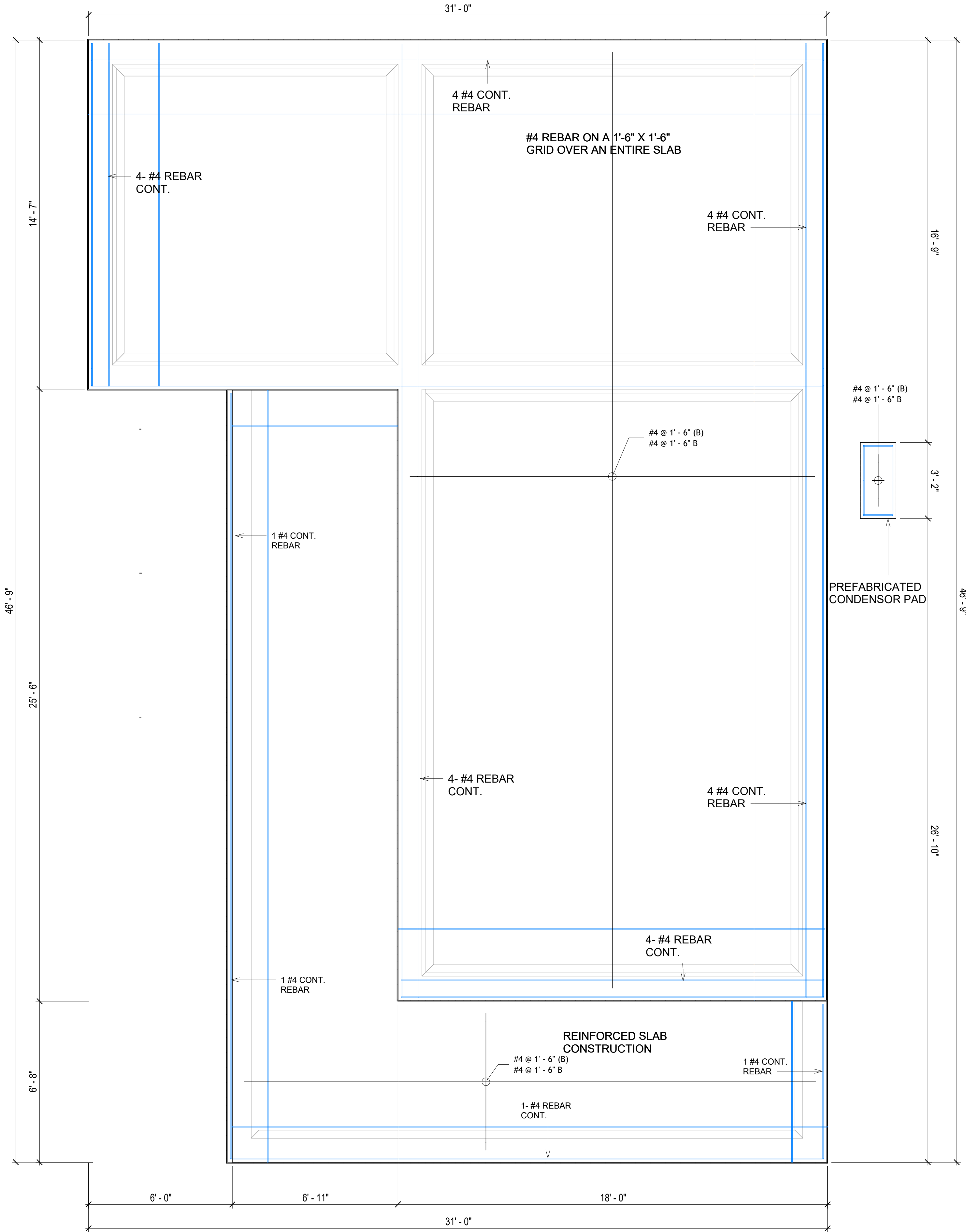


2

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

1

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



KEY PLAN

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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

DRAWING NAME

STRUCTURAL FLOOR PLAN

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:09 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

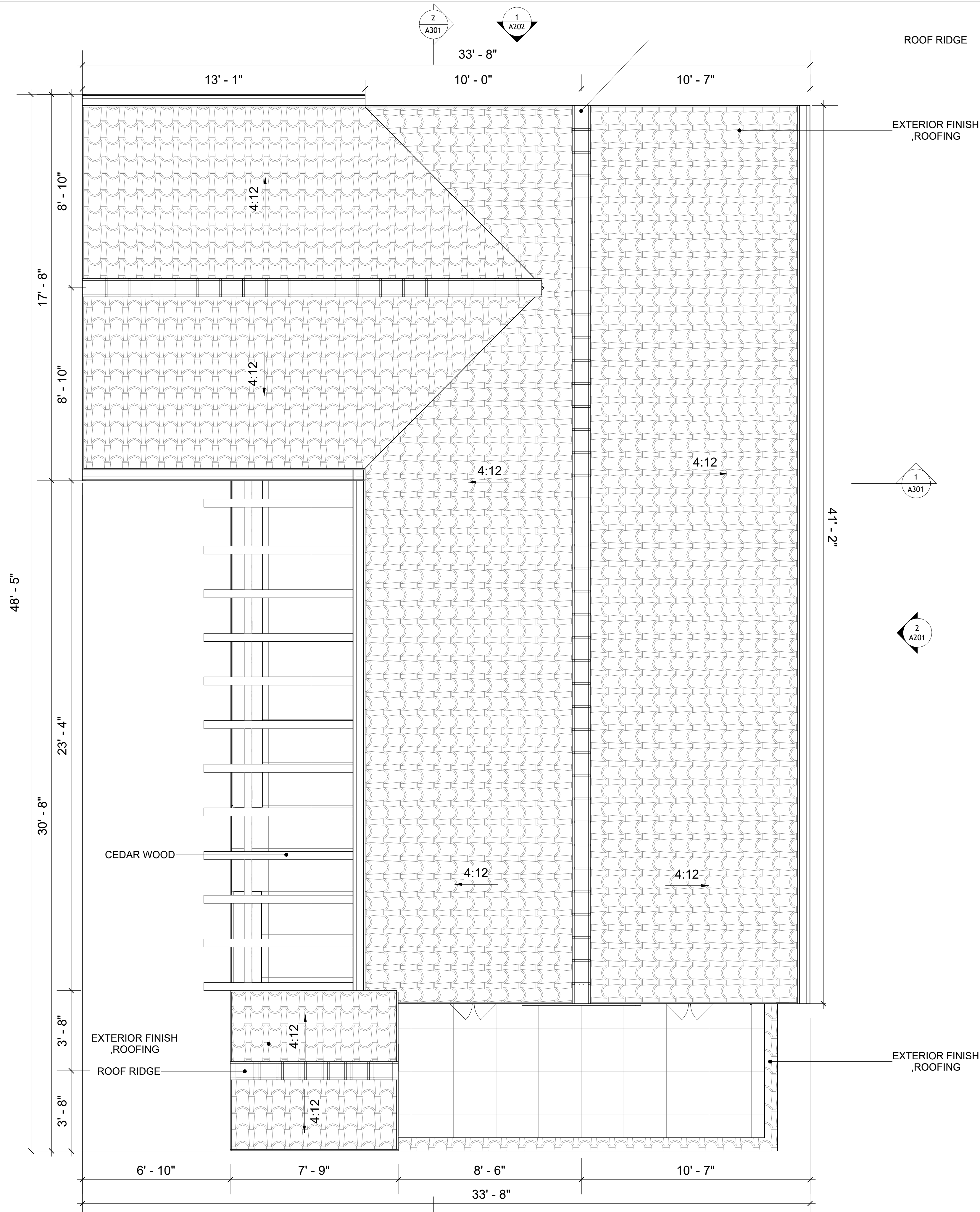
S102

SCALE: As indicated



## ROOF NOTES

1. ROOFING COMPOSITION SPECIFICATIONS 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.



| SQUARE FOOTAGE |      |
|----------------|------|
| LIVING         | 909  |
| PORCH          | 347  |
| TOTAL          | 1256 |



## KEY PLAN

[illegible]

**NOTE:**

**LEGEND:**

PROJECT

**130-ORION-910-2BD**  
**2BA-SPANISH-TOWER-550**

DRAWING NAME

## ROOF PLAN

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:12 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

# A103

SCALE: As indicated



ABOUT WALL FINISHING

STUCCO FINISH

STUCCO IS A CEMENT-BASED EXTERIOR WALL FINISH THAT OFFERS A DURABLE, WEATHER-RESISTANT, AND CUSTOMIZABLE CLADDING SOLUTION FOR BUILDINGS.

IN THIS SPECIFIC PROJECT, AMERICAN STUCCO SYSTEMS IS USED AS A FINISH MATERIAL BECAUSE IT IS GENERALLY CONSIDERED A WATER-RESISTANT EXTERIOR FINISH AND USES A THREE-COAT APPLICATION PROCESS.

3/8-INCH OF IT IS APPLIED AS AN EXTERNAL WALL FINISH AS IT IS THE MOST COMMON AND WIDELY ACCEPTED STANDARD THICKNESS FOR STUCCO EXTERIOR WALL FINISHES. THIS MULTI-LAYER APPROACH ALSO HELPS CREATE A STRONG, CRACK-RESISTANT STUCCO SURFACE.

THIS STANDARD STUCCO IS APPLIED OVER OSB SHEATHINGS (FOR COLD FORMED STRUCTURE CONSTRUCTION).

IT IS NOT DIRECTLY TROWELED OVER THE OSB BUT OVER A WATER-RESISTANT BARRIER (HOMEWRAP) AND METAL/PLASTIC LATH THAT ARE INSTALLED ON TOP SURFACE OF THE OSB TO PROVIDE AN ADDITIONAL LAYER OF PROTECTION AGAINST MOISTURE INTRUSION.

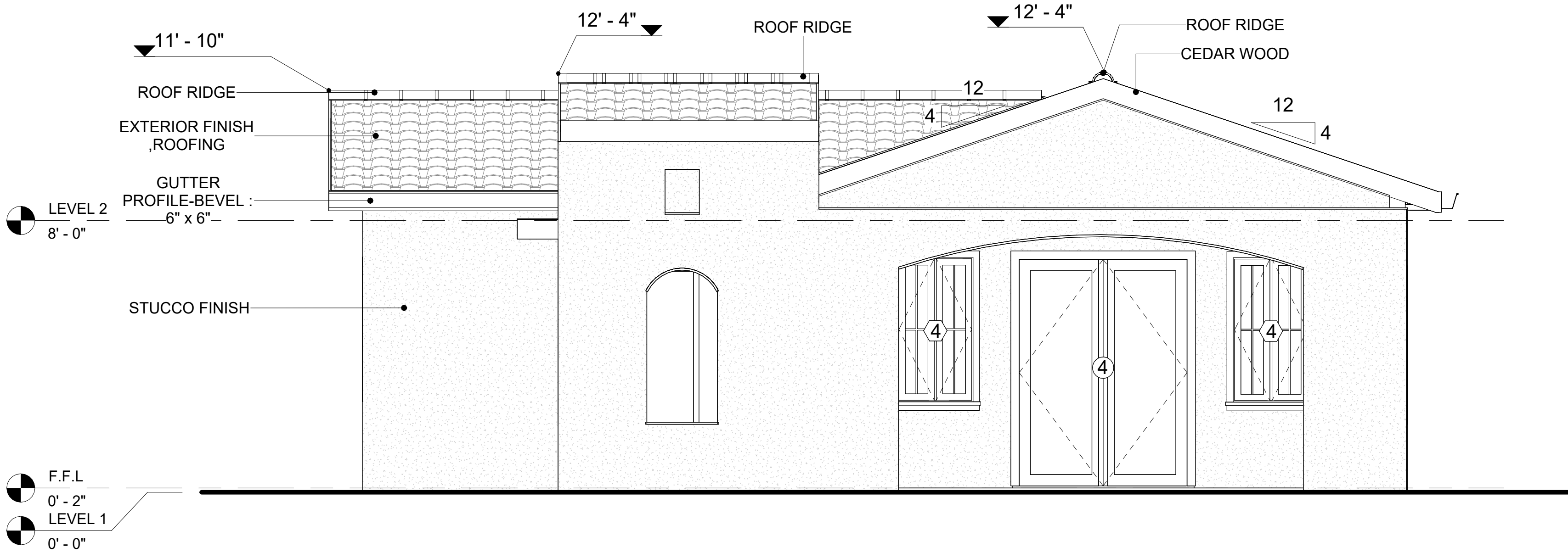
REGULAR INSPECTION AND PROMPT REPAIR OF ANY CRACKS, CHIPS, OR DAMAGE TO THE STUCCO FINISH IS IMPORTANT. THIS MAINTAINS THE STUCCO'S WATER-RESISTANT PROPERTIES OVER THE BUILDING'S LIFE SPAN.

CEDAR WOOD

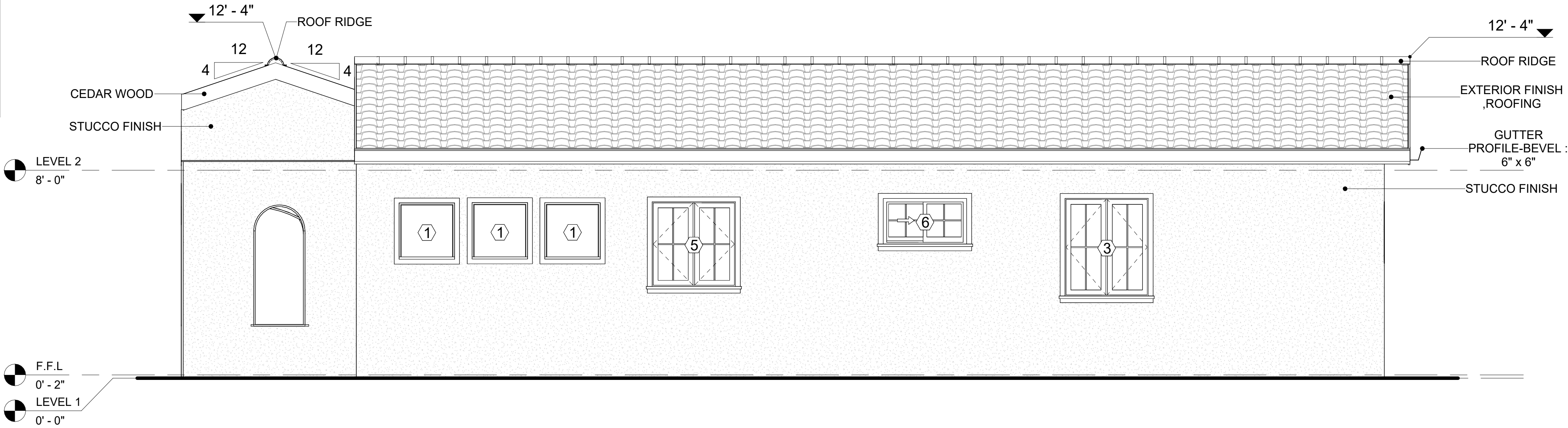
CEDAR WOOD REFERS TO THE WOOD FROM VARIOUS SPECIES OF CEDAR TREES, WHICH ARE CONIFEROUS EVERGREEN TREES KNOWN FOR THEIR DISTINCT AROMA AND NATURAL RESISTANCE TO DECAY AND INSECTS.

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.



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

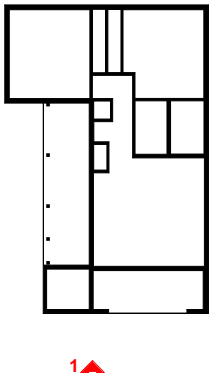


2 RIGHT SIDE ELEVATION  
3/8" = 1'-0"

| DOOR SCHEDULE    |            |                                |          |         |         |       |
|------------------|------------|--------------------------------|----------|---------|---------|-------|
| TYPE<br>MAR<br>K | SUPPLIER   | DOOR TYPE                      | LOCATION | SIZE    |         | COUNT |
|                  |            |                                |          | WIDTH   | HEIGHT  |       |
| 1                | HOME DEPOT | EXTERIOR SINGLE PANEL SWINGING | INTERIOR | 3' - 0" | 6' - 8" | 1     |
| 2                | HOME DEPOT | INTERIOR DOUBLE PANEL SLIDING  | INTERIOR | 9' - 0" | 6' - 8" | 2     |
| 3                | HOME DEPOT | INTERIOR SINGLE PANEL SWINGING | INTERIOR | 2' - 6" | 6' - 8" | 2     |
| 4                | HOME DEPOT | EXTERIOR DOUBLE PANEL SWINGING | INTERIOR | 5' - 0" | 6' - 8" | 1     |
| 5                | HOME DEPOT | INTERIOR SINGLE PANEL SWINGING | INTERIOR | 3' - 0" | 6' - 8" | 1     |
| 6                | HOME DEPOT | PATIO DOUBLE PANEL SLIDING     | INTERIOR | 5' - 0" | 6' - 8" | 1     |
| 7                | HOME DEPOT | INTERIOR SINGLE PANEL SWINGING | INTERIOR | 3' - 0" | 6' - 8" | 1     |
| 8                | HOME DEPOT | SINGLE FOLD 2                  | INTERIOR | 2' - 4" | 6' - 8" | 1     |
| 9                | HOME DEPOT | INTERIOR DOUBLE PANEL SLIDING  | INTERIOR | 3' - 5" | 6' - 8" | 1     |

| WINDOW SCHEDULE |            |             |         |         |       |
|-----------------|------------|-------------|---------|---------|-------|
| TYPE MARK       | SUPPLIER   | WINDOW TYPE | SIZE    |         | COUNT |
|                 |            |             | WIDTH   | HEIGHT  |       |
| 1               | HOME DEPOT | FIXED       | 2' - 3" | 2' - 3" | 9     |
| 2               | HOME DEPOT | SLIDING     | 5' - 3" | 4' - 3" | 1     |
| 3               | HOME DEPOT | DOUBLE HUNG | 3' - 3" | 3' - 9" | 2     |
| 4               | HOME DEPOT | DOUBLE HUNG | 2' - 3" | 4' - 3" | 2     |
| 5               | HOME DEPOT | DOUBLE HUNG | 3' - 3" | 3' - 3" | 1     |
| 6               | HOME DEPOT | SLIDING     | 3' - 3" | 1' - 9" | 1     |

KEY PLAN



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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:16 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

A201

SCALE: As indicated



ABOUT WALL FINISHING

STUCCO FINISH

STUCCO IS A CEMENT-BASED EXTERIOR WALL FINISH THAT OFFERS A DURABLE, WEATHER-RESISTANT, AND CUSTOMIZABLE CLADDING SOLUTION FOR BUILDINGS.

IN THIS SPECIFIC PROJECT, AMERICAN STUCCO SYSTEMS IS USED AS A FINISH MATERIAL BECAUSE IT IS GENERALLY CONSIDERED A WATER-RESISTANT EXTERIOR FINISH AND USES A THREE-COAT APPLICATION PROCESS.

3/8-INCH OF IT IS APPLIED AS AN EXTERNAL WALL FINISH AS IT IS THE MOST COMMON AND WIDELY ACCEPTED STANDARD THICKNESS FOR STUCCO EXTERIOR WALL FINISHES. THIS MULTI-LAYER APPROACH ALSO HELPS CREATE A STRONG, CRACK-RESISTANT STUCCO SURFACE.

THIS STANDARD STUCCO IS APPLIED OVER OSB SHEATHINGS (FOR COLD FORMED STRUCTURE CONSTRUCTION).

IT IS NOT DIRECTLY TROWELED OVER THE OSB BUT OVER A WATER-RESISTANT BARRIER (HOMEWRAP) AND METAL/PLASTIC LATH THAT ARE INSTALLED ON TOP SURFACE OF THE OSB TO PROVIDE AN ADDITIONAL LAYER OF PROTECTION AGAINST MOISTURE INTRUSION.

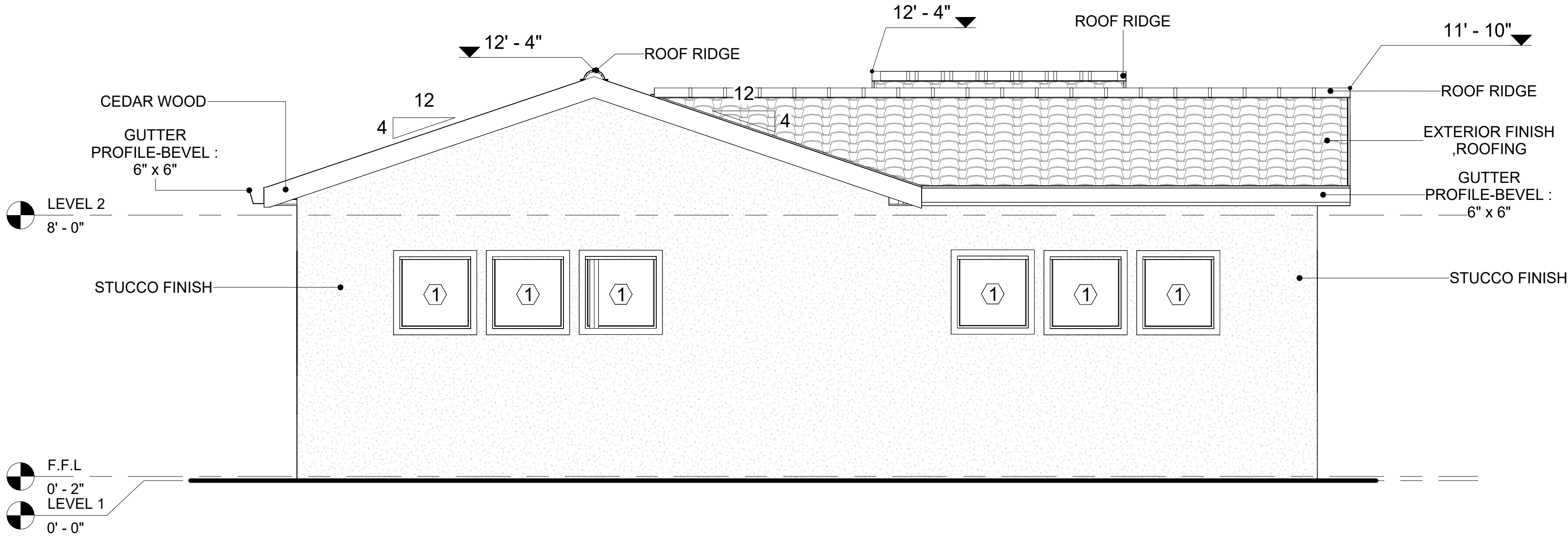
REGULAR INSPECTION AND PROMPT REPAIR OF ANY CRACKS, CHIPS, OR DAMAGE TO THE STUCCO FINISH IS IMPORTANT. THIS MAINTAINS THE STUCCO'S WATER-RESISTANT PROPERTIES OVER THE BUILDING'S LIFE SPAN.

CEDAR WOOD

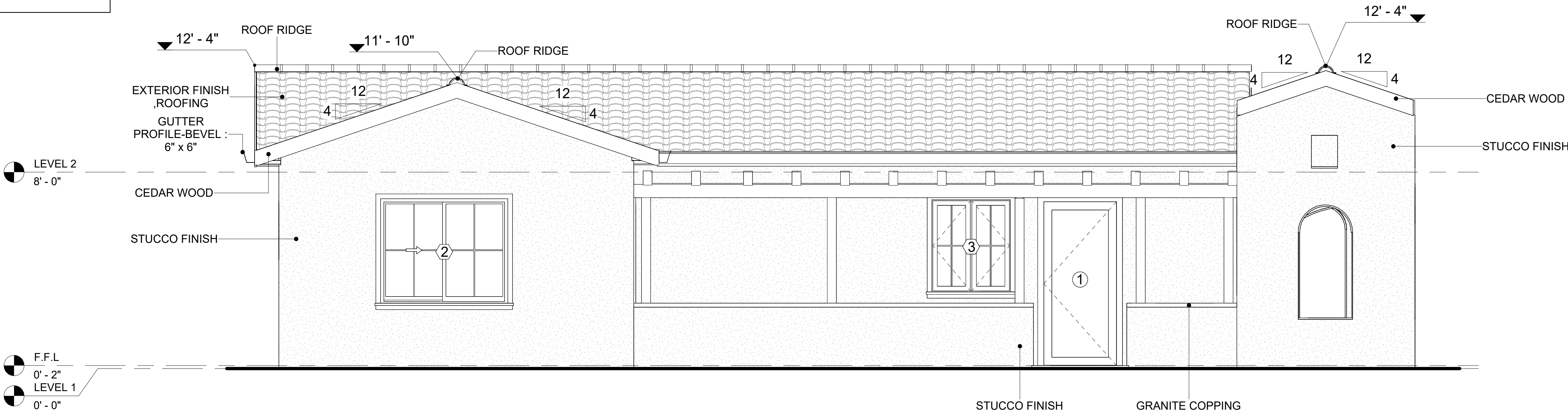
CEDAR WOOD REFERS TO THE WOOD FROM VARIOUS SPECIES OF CEDAR TREES, WHICH ARE CONIFEROUS EVERGREEN TREES KNOWN FOR THEIR DISTINCT AROMA AND NATURAL RESISTANCE TO DECAY AND INSECTS.

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.

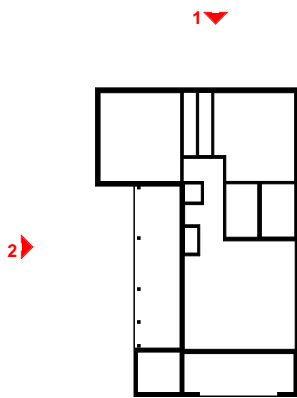


1 REAR ELEVATION  
3/8" = 1'-0"



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

KEY PLAN



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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

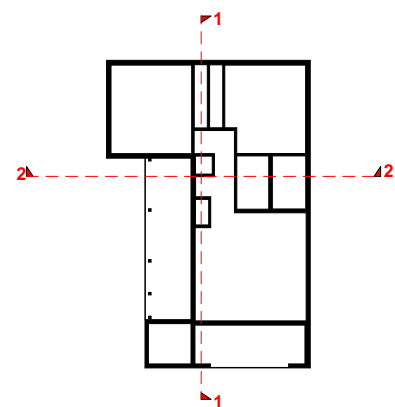
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| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:20 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
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A202

SCALE: As indicated



KEY PLAN



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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

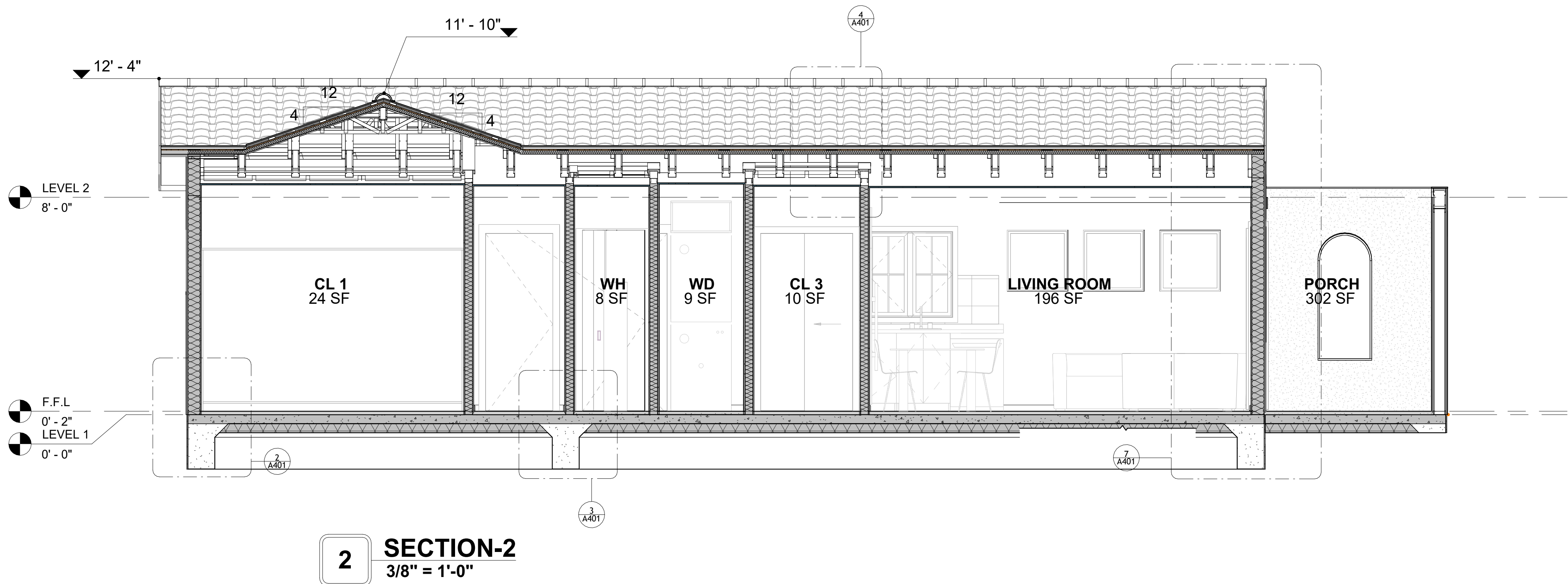
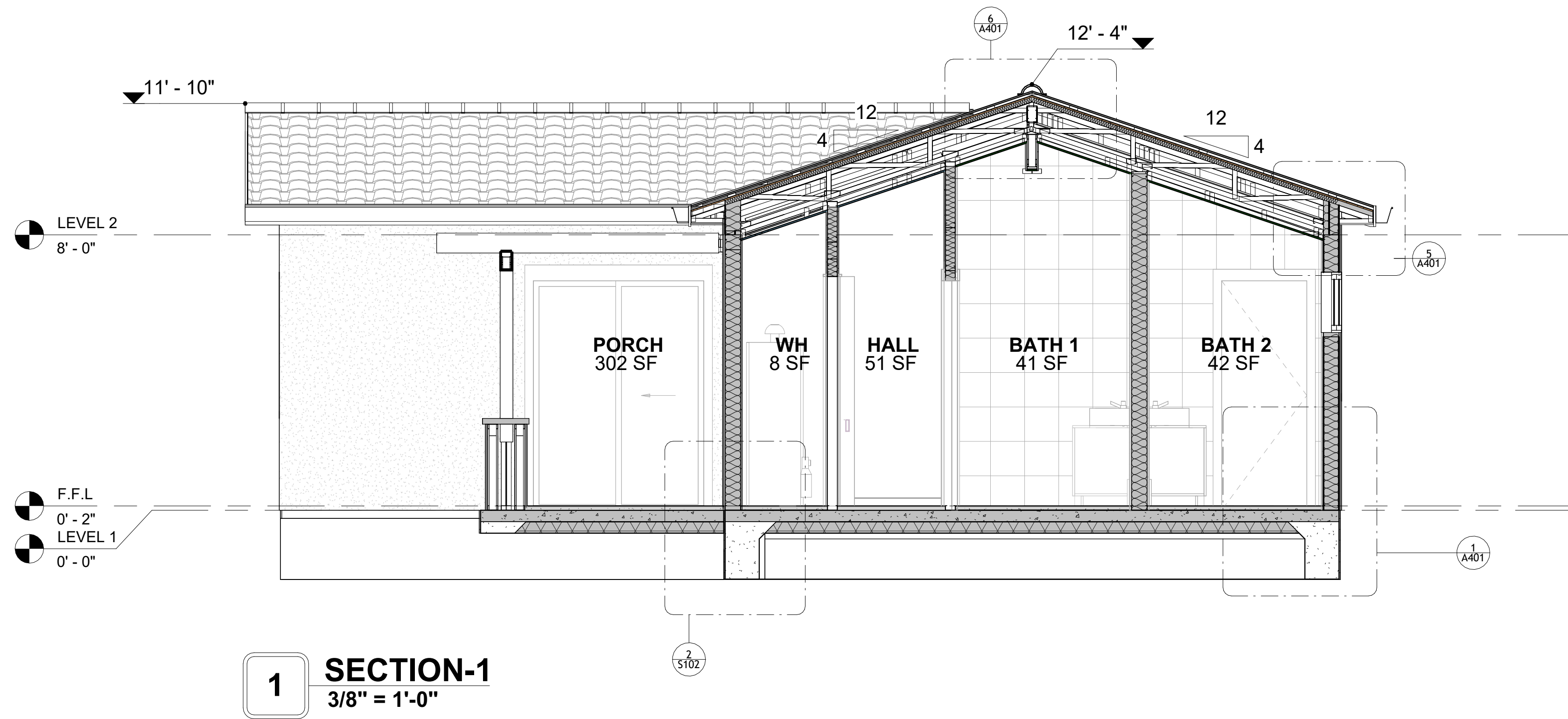
DRAWING NAME

ARCHITECTURAL SECTIONS

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|-----------------|-----------------------|
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| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:22 AM |
| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

A301

SCALE: As indicated





KEY PLAN

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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

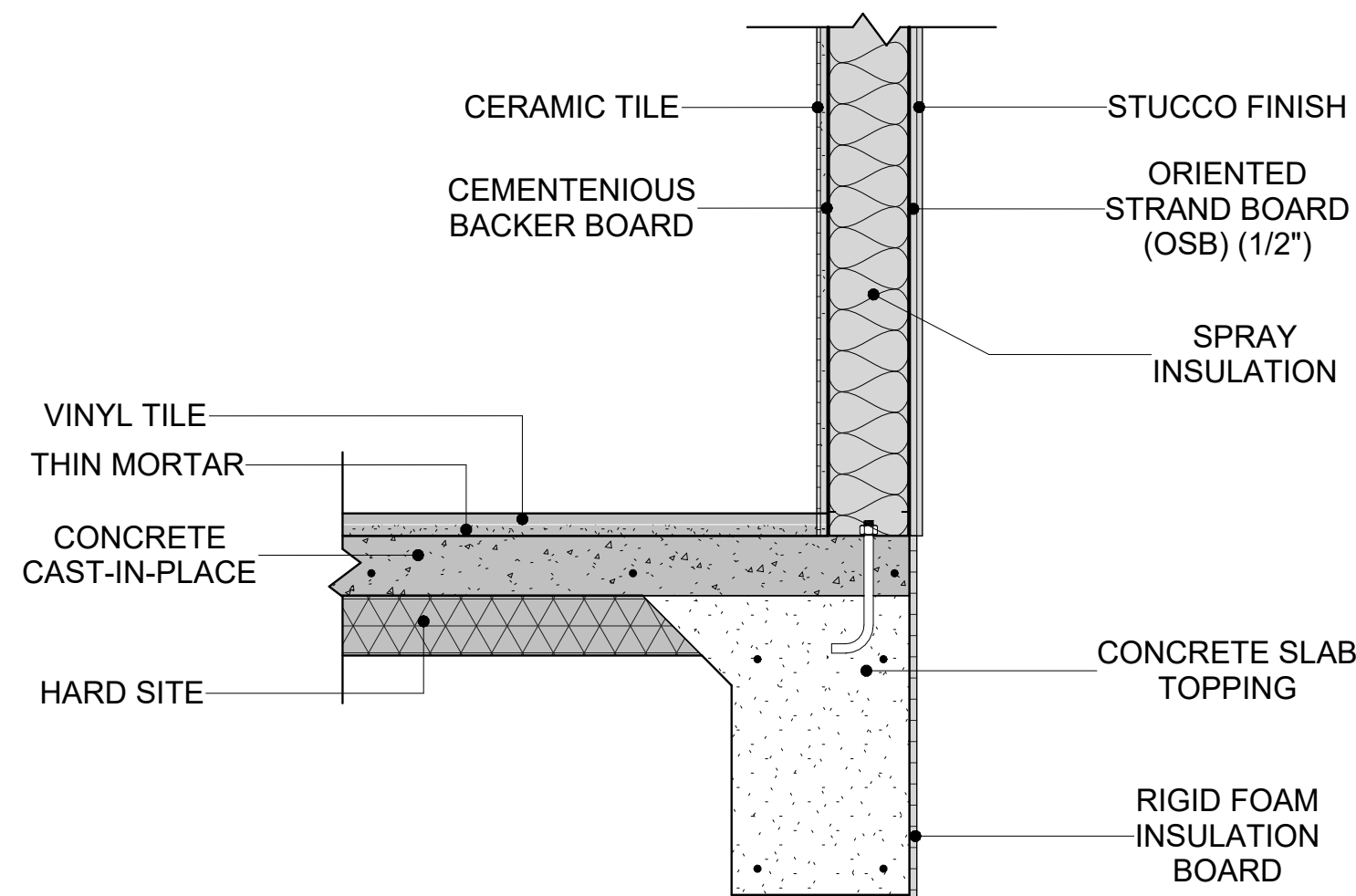
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ARCHITECTURAL DETAILS

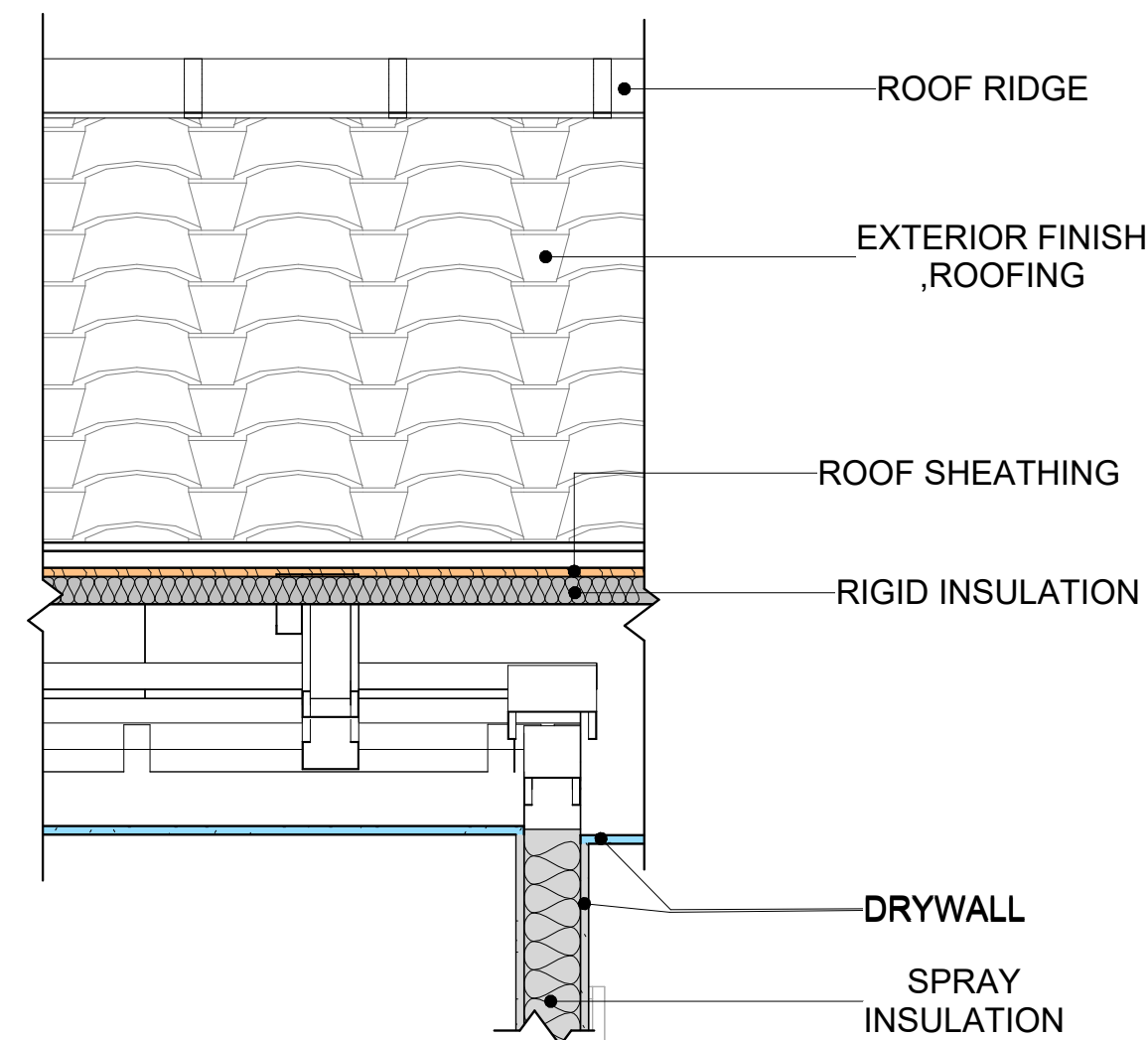
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| DESIGNED BY:    | Designer              |
| DRAWN BY:       | Author                |
| CHECKED BY:     | Checker               |

A401

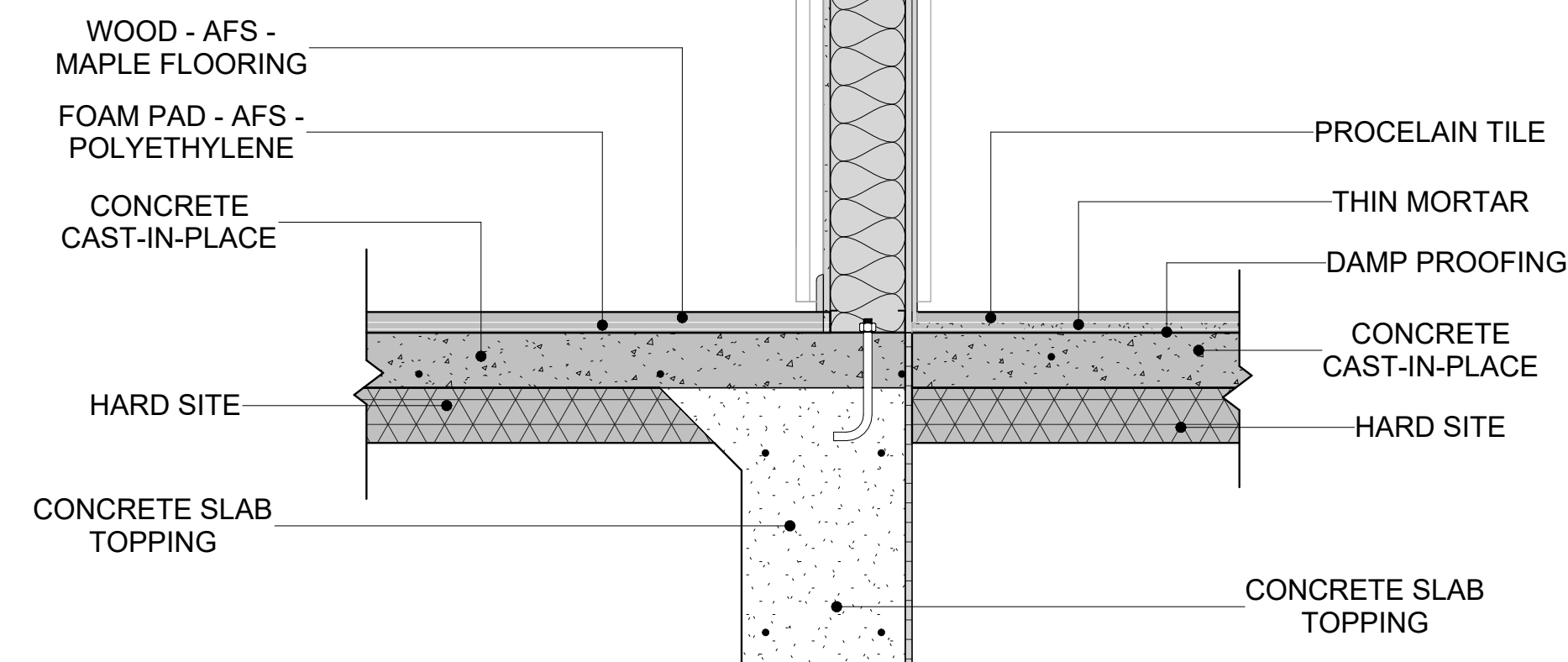
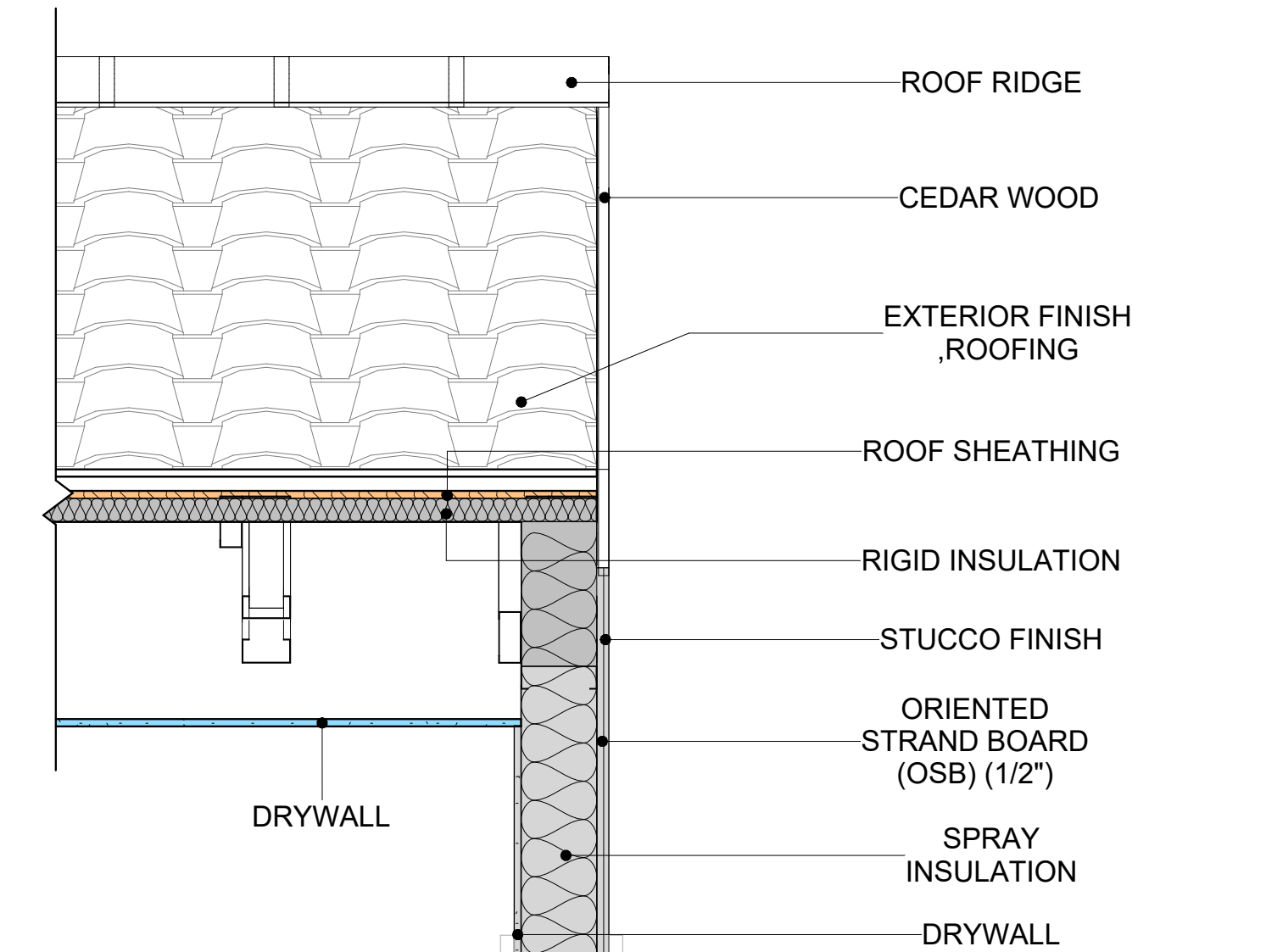
SCALE: 1" = 1'-0"



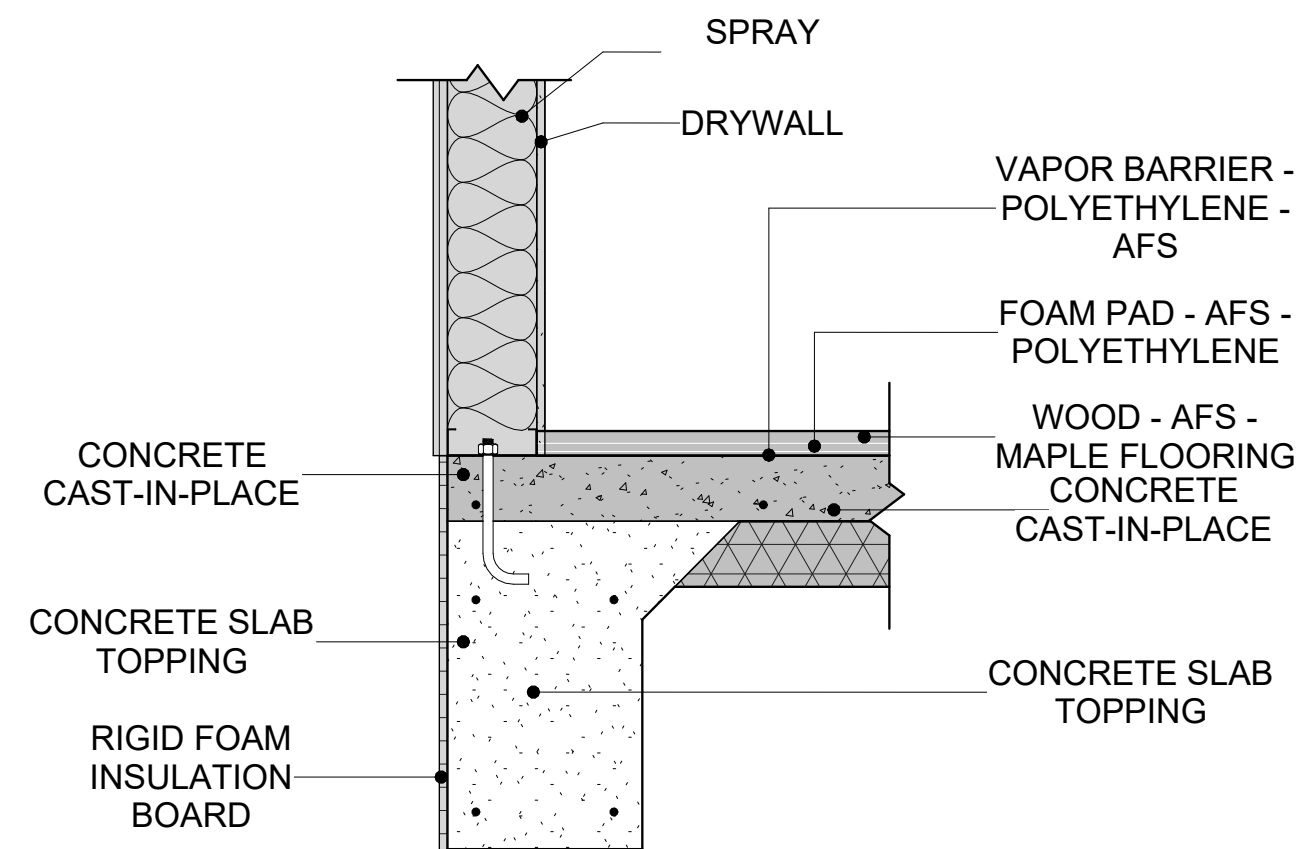
1 TYPICAL WALL FTG  
1" = 1'-0"



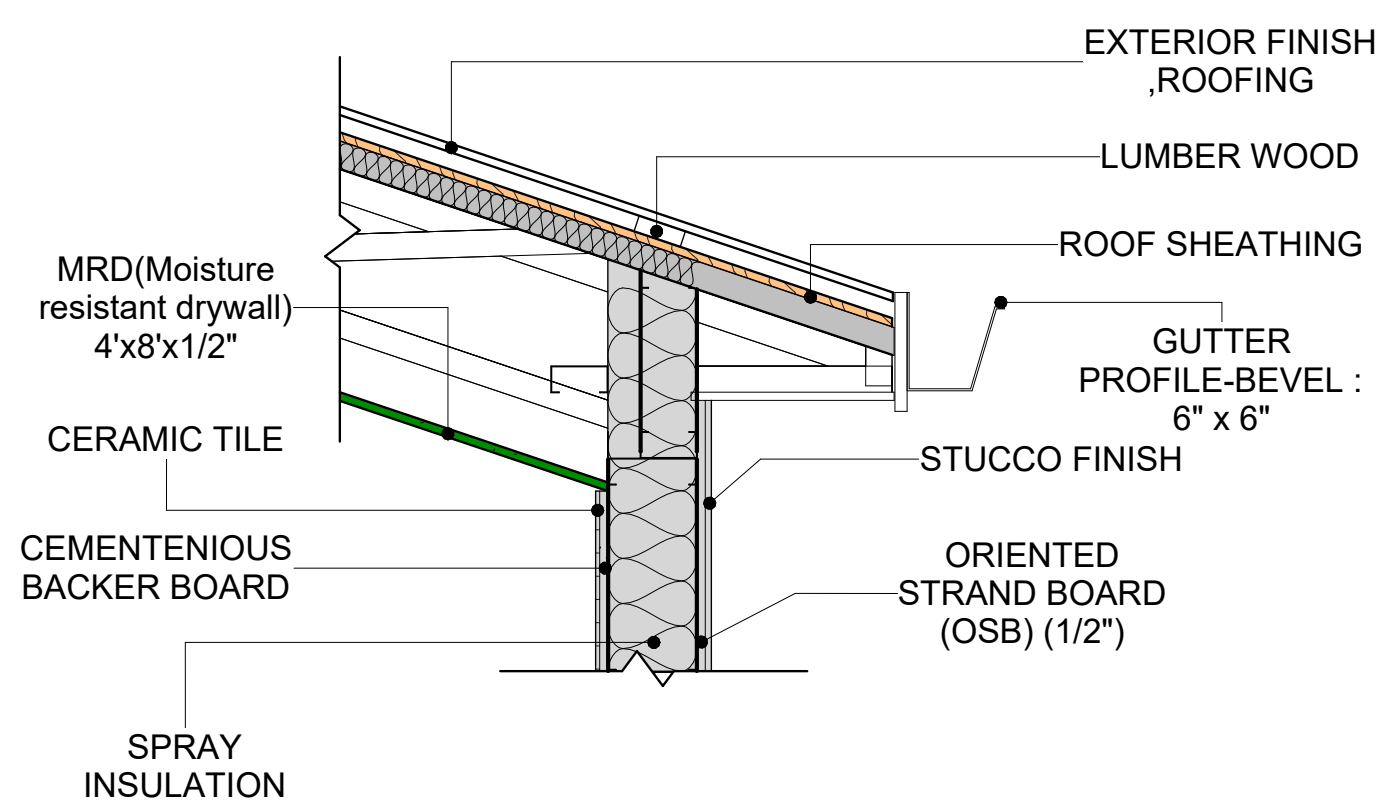
4 ROOF ON WALL  
1" = 1'-0"



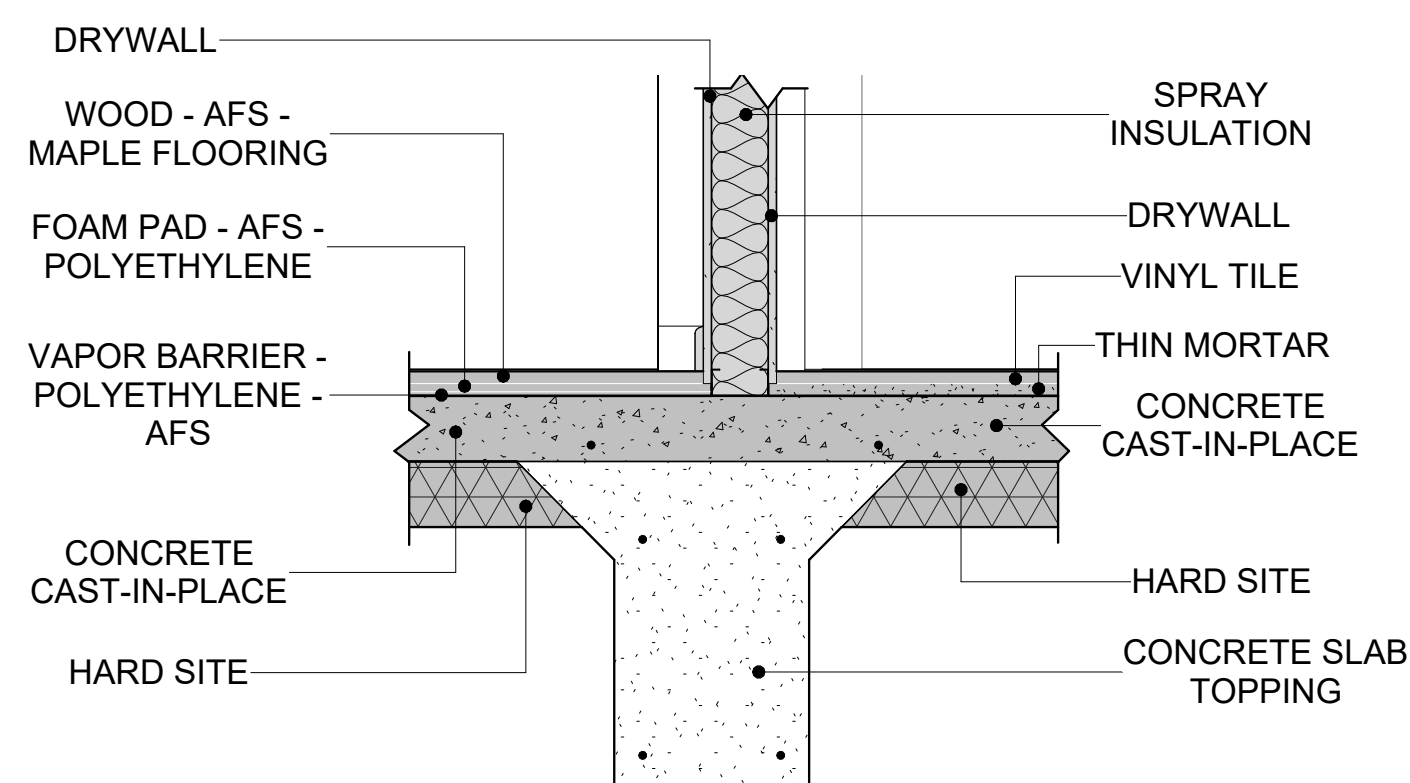
7 BUILDING SECTION  
1" = 1'-0"



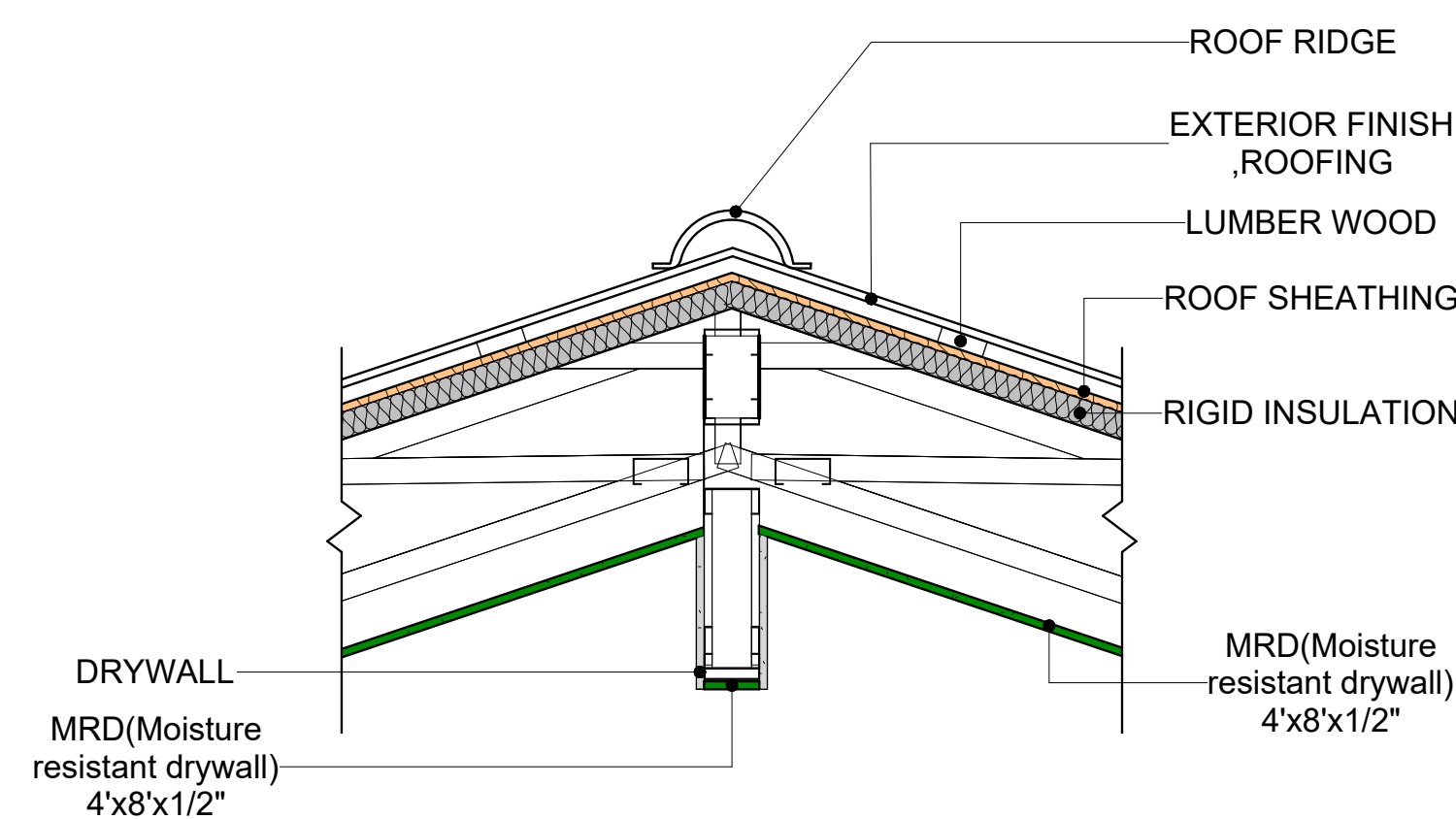
2 TYPICAL WALL FTG 2  
1" = 1'-0"



5 ROOF ON WALL 2  
1" = 1'-0"



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



6 ROOF/TRUSS CONN.  
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 CASEWORK WHICH MEETS A WALL AT ONE OR BOTH ENDS, TO BE PROVIDED WITH FILLER PANELS AND SCRIBED TO THE WALL(S) AS REQUIRED.
7.

ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
8.

ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
9.

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.

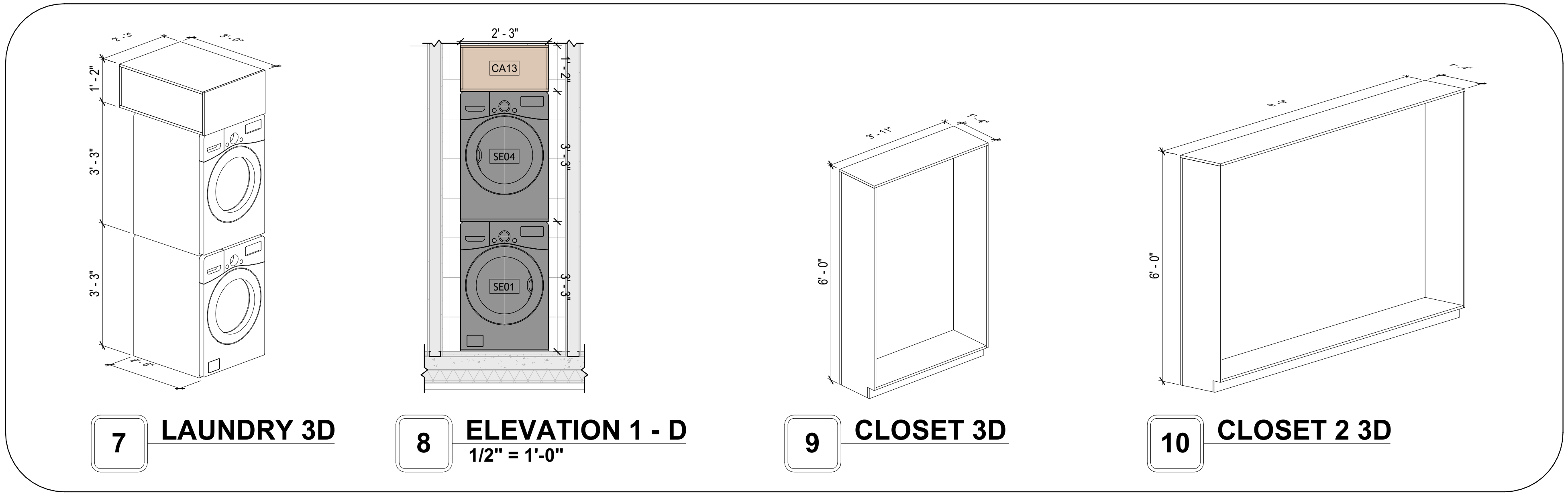
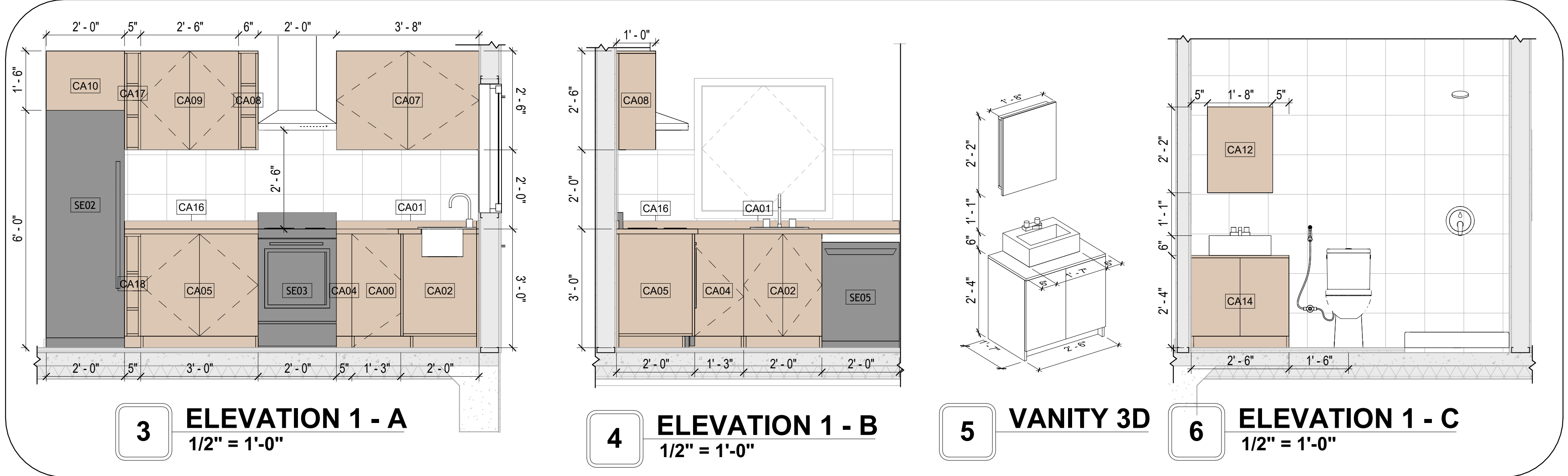
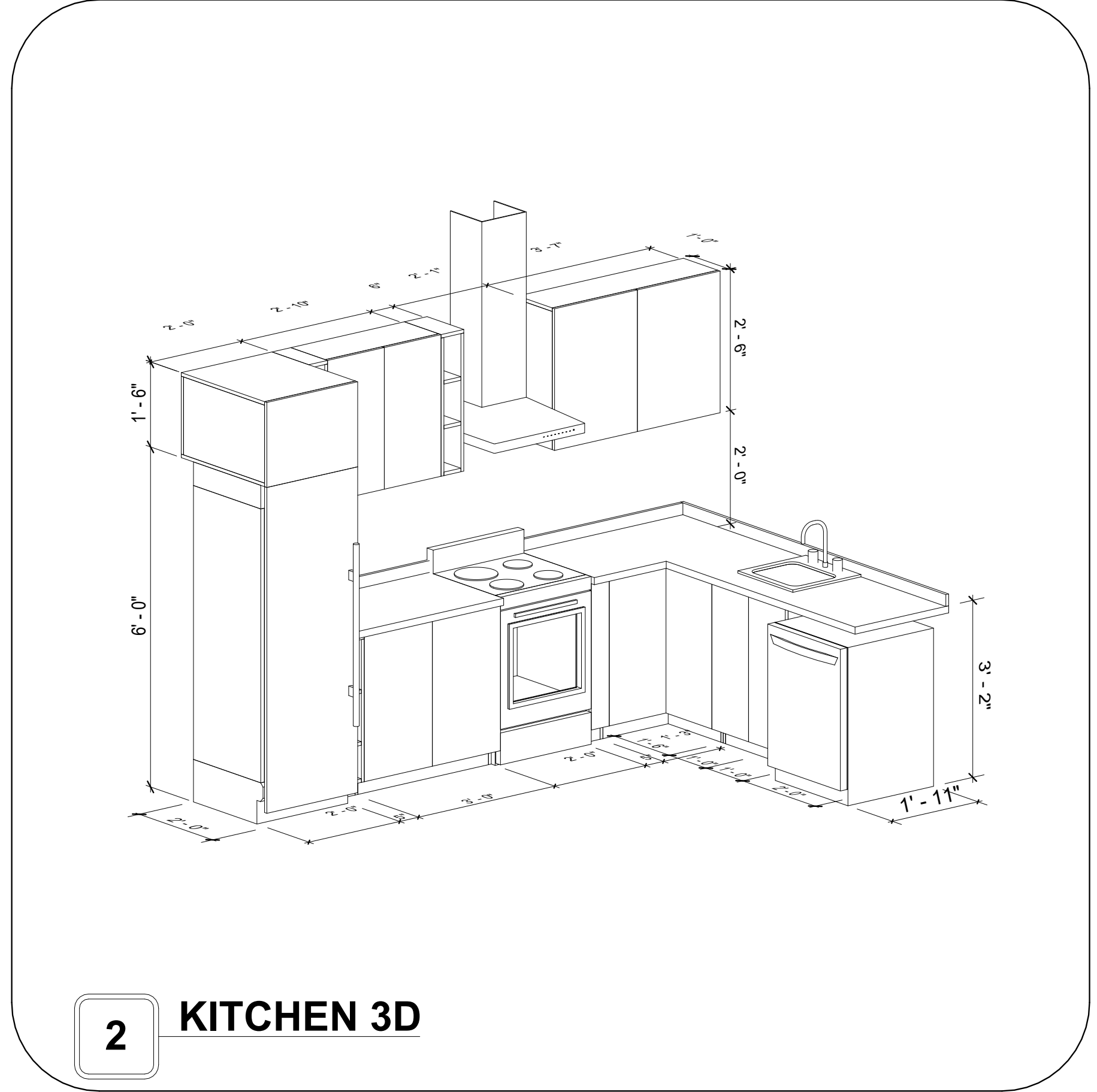
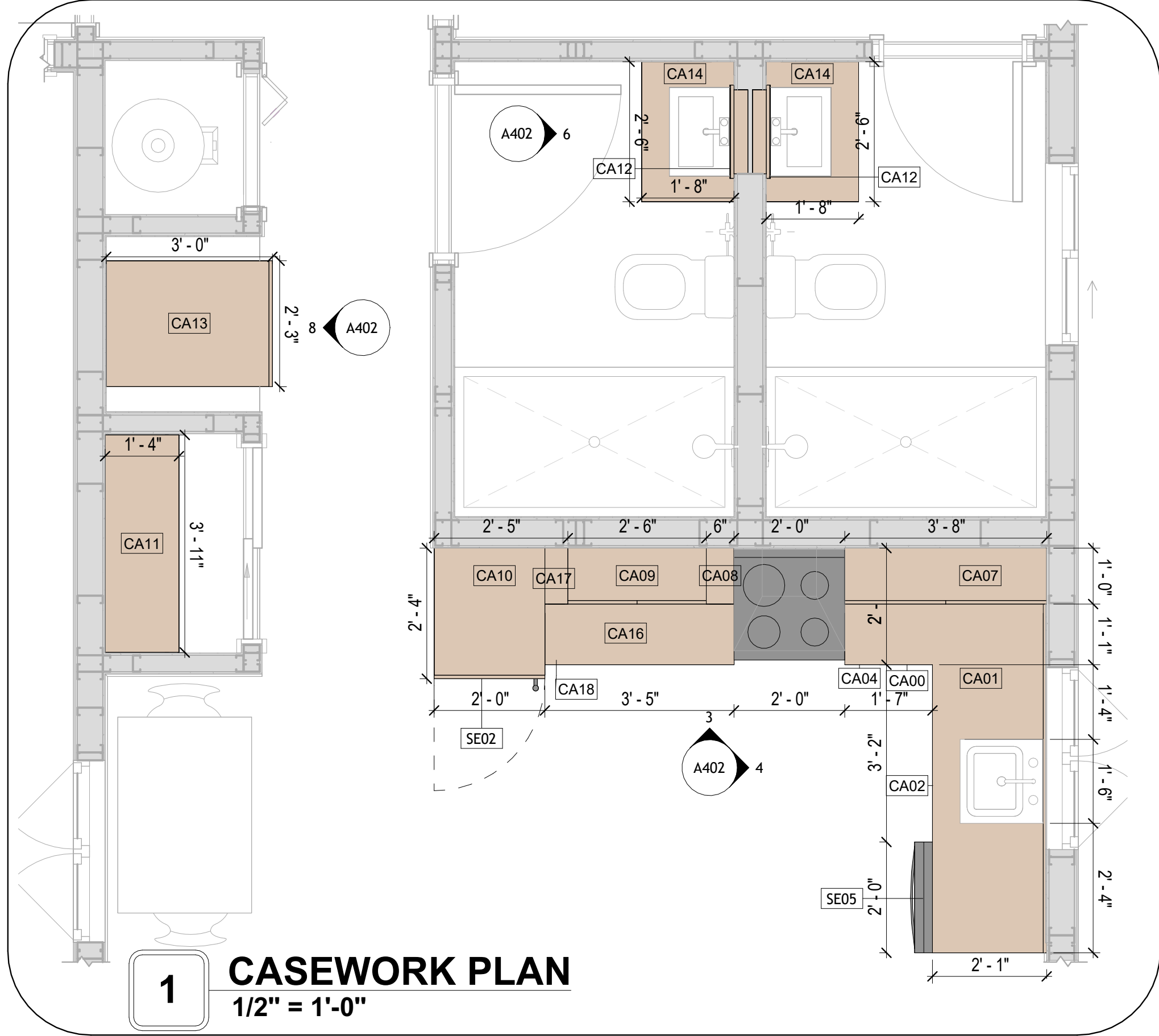
ALL CABINETS AND DRAWERS ARE PROVIDED WITH RECESSED HANDLES.
11.

CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
12.

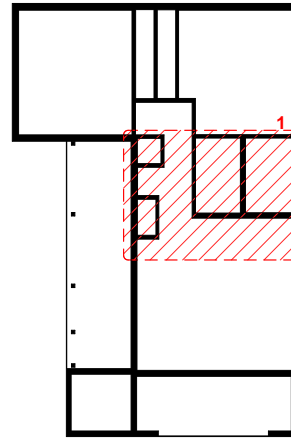
CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT.

| CASEWORK SCHEDULE |                            |       |          |          |         |       |
|-------------------|----------------------------|-------|----------|----------|---------|-------|
| TYPE MARK         | TYPE                       | COUNT | HEIGHT   | WIDTH    | DEPTH   | AREA  |
| 00                | BASE CABINET L-SHAPED 2    | 1     | 2' - 11" | 3' - 3"  | 3' - 3" | 9 SF  |
| 01                | L-SHAPE COUNTER TOP        | 1     | 0' - 4"  | 7' - 0"  | 7' - 0" | 2 SF  |
| 02                | BASE CABINET DOUBLE DOOR 1 | 1     | 2' - 11" | 2' - 0"  | 2' - 0" | 6 SF  |
| 04                | WALL FILLER                | 1     | 2' - 11" | 0' - 5"  | 2' - 0" | 1 SF  |
| 05                | BASE CABINET DOUBLE DOOR 2 | 1     | 2' - 11" | 3' - 0"  | 2' - 0" | 9 SF  |
| 07                | WALL CABINET DOUBLE DOOR 1 | 1     | 2' - 6"  | 3' - 8"  | 1' - 0" | 9 SF  |
| 08                | WALL FILLER                | 1     | 2' - 6"  | 0' - 6"  | 1' - 0" | 1 SF  |
| 09                | WALL CABINET DOUBLE DOOR 2 | 1     | 2' - 6"  | 2' - 6"  | 1' - 0" | 6 SF  |
| 10                | LAUNDRY OPEN CABINET       | 1     | 1' - 6"  | 2' - 0"  | 2' - 4" | 3 SF  |
| 11                | CLOSET 1                   | 1     | 6' - 0"  | 3' - 11" | 1' - 4" | 23 SF |
| 12                | RECESSED_MED_CABINET       | 2     | 2' - 0"  | 1' - 6"  | 0' - 3" | 3 SF  |
| 13                | LAUNDRY OPEN CABINET 2     | 1     | 1' - 2"  | 2' - 3"  | 3' - 0" | 3 SF  |
| 14                | VANITY                     | 2     | 2' - 4"  | 2' - 6"  | 1' - 8" | 6 SF  |
| 15                | CLOSET 2                   | 2     | 6' - 0"  | 9' - 9"  | 1' - 4" | 58 SF |
| 16                | LINEAR COUNTER TOP 2.2     | 1     | 0' - 4"  | 3' - 5"  | 2' - 1" | 1 SF  |
| 17                | WALL FILLER 2.2            | 1     | 2' - 6"  | 0' - 5"  | 1' - 0" | 1 SF  |
| 18                | BASE_FILLER_1.2.2          | 1     | 2' - 11" | 0' - 5"  | 2' - 0" | 1 SF  |
| GRAND TOTAL       |                            | 20    |          |          |         |       |

| 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 |
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NOTE:

LEGEND:

PROJECT

130-ORION-910-2BD  
2BA-SPANISH-TOWER-550

DRAWING NAME

ARCHITECTURAL CASEWORK

|                 |                       |
|-----------------|-----------------------|
| CLIENT NAME:    | Client Name           |
| PROJECT NUMBER: | 0033_15               |
| DATE:           | 3/22/2025 11:48:26 AM |
| 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 ORION 2BD1BA SPANISH TOWER. 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 BMODIFY 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 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

SUPPLY DIFFUSER

RETURN DIFFUSER

EXHAUST DIFFUSER

SIDEWALL SUPPLY DIFFUSER

FLEXIBLE CONNECTION

ELEVATION INCLINE - RISE;  
IN DIRECTION OF FLOW

ELEVATION INCLINE - DROP;  
IN DIRECTION OF FLOW

CONNECT NEW DUCT TO  
EXISTING DUCT

VAINED ELBOW; TYPICAL AT ALL  
SQUARE AND RECTANGULAR  
ELBOWS

VANED ELBOW; SHORT RADIUS

STANDARD RADIUS ELBOW

SUPPLY DUCT

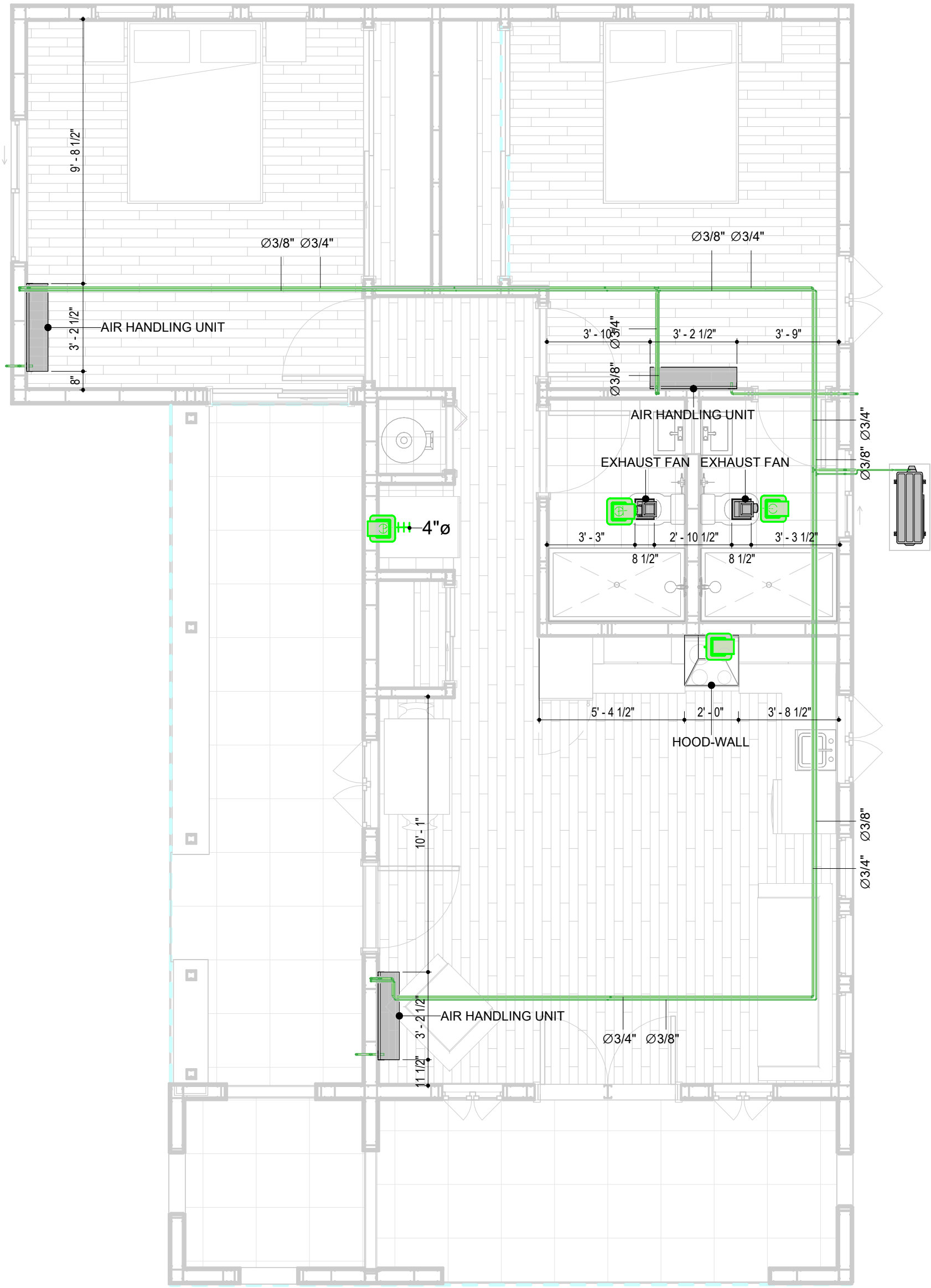
RETURN DUCT

AIR HANDLING UNIT

TRANSITION

AIR CONDENSER

DUCT HANGER



1 HVAC PLAN  
1/4" = 1'-0"

HVAC COLOR SCHEME  
AIR CONDITIONING PIPE LINE

| REFRIGERANT LINE SCHEDULE |             |          |        |
|---------------------------|-------------|----------|--------|
| CATAGORY                  | DESCRIPTION | DIAMETER | LENGTH |
| PIPE TYPES                | COPPER      | 1/4"     | 2.02   |
| PIPE TYPES                | COPPER      | 3/8"     | 98.08  |
| PIPE TYPES                | COPPER      | 1/2"     | 0.68   |
| PIPE TYPES                | COPPER      | 3/4"     | 122.23 |

| REFRIGERANT LINE FITTING SCHEDULE |                                |                   |       |
|-----------------------------------|--------------------------------|-------------------|-------|
| CATAGORY                          | 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       | 3     |
| ELBOW - GENERIC                   | ELBOW - GENERIC: STANDARD/HVAC | 3/4"ø-3/4"ø       | 28    |
| ELBOW - GENERIC                   | ELBOW - GENERIC: STANDARD/HVAC | 3/8"ø-3/8"ø       | 21    |
| TEE - GENERIC                     | TEE - GENERIC: STANDARD        | 3/4"ø-3/4"ø-3/4"ø | 2     |
| TEE - GENERIC                     | TEE - GENERIC: STANDARD        | 3/8"ø-3/8"ø-3/8"ø | 2     |
| TRANSITION - GENERIC              | TRANSITION - GENERIC: STANDARD | 3/4"ø-1/2"ø       | 4     |
| TRANSITION - GENERIC              | TRANSITION - GENERIC: STANDARD | 3/4"ø-5/8"ø       | 3     |
| 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 | 3     |
| CONDENSER                     | CONDENSER: OUT DOOR             | 1     |
| EXHAUST FAN                   | EXHAUST FAN: 75 CFM             | 2     |
|                               | HOOD-WALL: VENT                 | 1     |

| DUCT FITTING SCHEDULE    |             |       |
|--------------------------|-------------|-------|
| CATAGORY                 | DESCRIPTION | COUNT |
| ROUND TRANSITION - ANGLE | 45 DEGREE   | 7     |

| DUCT ACCESSORY SCHEDULE |             |       |
|-------------------------|-------------|-------|
| CATAGORY                | DESCRIPTION | COUNT |
| ROOF VENT               | 3" DIAMETER | 4     |

| FLEX DUCT SCHEDULE |             |        |          |       |
|--------------------|-------------|--------|----------|-------|
| DESCRIPTION        | DESCRIPTION | LENGTH | DIAMETER | COUNT |
| FLEX DUCT ROUND    | FLEX-ROUND  | 10.58  | 4"       | 4     |
| GRAND TOTAL: 4     |             | 10.58  |          |       |



KEY PLAN

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NOTE:

LEGEND:

PROJECT

130-Orion-910-2Bd 2Ba  
Spanish-Tower-550

DRAWING NAME

HVAC COVER

CLIENT NAME: Owner  
PROJECT NUMBER: 15\_0001  
DATE: 3/22/2025 1:28:10 AM  
DESIGNED BY: Designer  
DRAWN BY: Author  
CHECKED BY: Checker

M101

SCALE: As indicated



## ELECTRICAL NOTES

3. THIS DRAWING DEPICTS THE ELECTRICAL SYSTEM FOR THE 130-Orion-910-28d 1Ba-Spanish-Porch-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 DIMENSIONED.
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                         | 910 @ 3W | 2,730 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                                     |          | 26,030 W |
| FRIST 10,000 @ 100%                       |          | 10,000 W |
| REMAINDER @ 40%                           |          | 6,412W   |
| MINI. SPLIT UNITS                         |          | 10,000 W |
| TOTAL                                     |          | 26,412 W |
| 26,412 W DIVIDED BY 240V = 110 AMPS TOTAL |          |          |
| (USE 200 AMP SERVICE)                     |          |          |

### Branch Panel:

Location: CL 1 10  
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 Number | Circuit Description             | Number of Elements | Rating | Length         | Wire Size           | A                 |                   | B       |         | Wire Size           | Length          | Rating | Number of Elements | Circuit Description  | Circuit Number |
|----------------|---------------------------------|--------------------|--------|----------------|---------------------|-------------------|-------------------|---------|---------|---------------------|-----------------|--------|--------------------|----------------------|----------------|
| 1              | BED 1&2 LIGHT AND SMOKEDETECTOR | 19                 | 20 A   | 30' - 0 15/32" | 1-#12, 1-#12, 1-#12 | 956 VA            | 456 VA            |         |         | 1-#12, 1-#12, 1-#12 | 53' - 11 23/32" | 20 A   | 11                 | KITCHEN & HALL LIGHT | 2              |
| 3              | OUTDOOR LIGHT                   | 8                  | 15 A   | 58' - 4 19/32" | 1-#14, 1-#14, 1-#14 |                   |                   | 500 VA  | 209 VA  | 1-#14, 1-#14, 1-#14 | 55' - 3 7/32"   | 15 A   | 6                  | LIVING LIGHT         | 4              |
| 5              | WATER HEATER                    | 1                  | 30 A   | 27' - 5 15/32" | 2-#10, 1-#10, 1-#10 | 2250 VA           | 2500 VA           |         |         | 2-#10, 1-#10, 1-#10 | 28' - 11 7/32"  | 30 A   | 1                  | DRYER                | 6              |
| 7              | --                              | --                 | --     | --             | --                  |                   |                   | 2250 VA | 2500 VA | --                  | --              | --     | --                 | --                   | 8              |
| 9              | WASHEING MASHEIN                | 1                  | 20 A   | 29' - 7 19/32" | 1-#12, 1-#12, 1-#12 | 1200 VA           | 2500 VA           |         |         | 2-#8, 1-#8, 1-#10   | 42' - 2 27/32"  | 40 A   | 1                  | RANGE                | 10             |
| 11             | KITCHEN GFCI                    | 3                  | 20 A   | 49' - 1 13/16" | 1-#12, 1-#12, 1-#12 |                   |                   | 540 VA  | 2500 VA | --                  | --              | --     | --                 | --                   | 12             |
| 13             | REFRIGERATOR                    | 1                  | 20 A   | 36' - 6 9/16"  | 1-#12, 1-#12, 1-#12 | 1800 VA           | 1200 VA           |         |         | 1-#12, 1-#12, 1-#12 | 55' - 8 21/32"  | 20 A   | 1                  | DISHWASHER           | 14             |
| 15             | LIV. RECEPTACLE                 | 6                  | 20 A   | 64' - 5 13/32" | 1-#12, 1-#12, 1-#12 |                   |                   | 1080 VA | 396 VA  | 1-#12, 1-#12, 1-#12 | 51' - 10 13/16" | 20 A   | 6                  | BATH 1 LIGHT & GFCI  | 16             |
| 17             | OUTDOOR GFCI                    | 4                  | 20 A   | 64' - 7 29/32" | 1-#12, 1-#12, 1-#12 | 720 VA            | 2500 VA           |         |         | 2-#6, 1-#6, 1-#10   | 44' - 11 7/16"  | 60 A   | 1                  | CONDENSER            | 18             |
| 19             | BED 2 LIGHT & GFCI              | 7                  | 20 A   | 37' - 4 3/32"  | 1-#12, 1-#12, 1-#12 |                   |                   | 396 VA  | 2500 VA | --                  | --              | --     | --                 | --                   | 20             |
| 21             | OVEN HOOD                       | 1                  | 20 A   | 39' - 9 5/32"  | 1-#12, 1-#12, 1-#12 | 180 VA            |                   |         |         |                     |                 |        |                    |                      | 22             |
| 23             |                                 |                    |        |                |                     |                   |                   |         |         |                     |                 |        |                    |                      | 24             |
| 25             |                                 |                    |        |                |                     |                   |                   |         |         |                     |                 |        |                    |                      | 26             |
|                |                                 |                    |        |                |                     | 16259 VA<br>135 A | 12844 VA<br>107 A |         |         |                     |                 |        |                    |                      |                |

**Legend:**

| Load Classification      | Connected Load | Demand Factor | Estimated Demand | Panel Totals                       |
|--------------------------|----------------|---------------|------------------|------------------------------------|
| LIGHTING - DWELLING UNIT | 800 VA         | 100.00%       | 800 VA           |                                    |
| OTHER                    | 1476 VA        | 100.00%       | 1476 VA          | <b>Total Conn. Load:</b> 29103 VA  |
| RECEPTACLE               | 5280 VA        | 100.00%       | 5280 VA          | <b>Total Est. Demand:</b> 28103 VA |
| LIGHTING                 | 300 VA         | 100.00%       | 300 VA           | <b>Total Conn.:</b> 121 A          |
| CONDENSER                | 5000 VA        | 100.00%       | 5000 VA          | <b>Total Est. Demand:</b> 117 A    |
| WATER HEATER             | 4500 VA        | 100.00%       | 4500 VA          |                                    |
| RANGE                    | 5000 VA        | 80.00%        | 4000 VA          |                                    |
| DRYER                    | 5000 VA        | 100.00%       | 5000 VA          |                                    |
| REFRIGERATOR             | 1800 VA        | 100.00%       | 1800 VA          |                                    |

**Notes:**

## 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                       |
| ACLG    | ABOVE CEILING                    | DEPT         | DEPARTMENT                       | HV           | HIGH VOLTAGE                 |
| 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 | EC           | 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      |
| CB      | 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    |



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

## KEY PLAN

[illegible]

**NOTE:**

**LEGEND:**

PROJECT

**134-Orion-910-2Bd**  
**2Ba-Spanish-Tower-550**

DRAWING NAME

## SCHEDULE

|                 |                      |
|-----------------|----------------------|
| CLIENT NAME:    | Owner                |
| PROJECT NUMBER: | 0379_13              |
| DATE:           | 3/21/2025 5:11:03 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

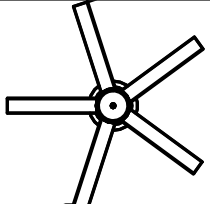
E4001.5 GROUNDING OF ENCLOSURES.

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

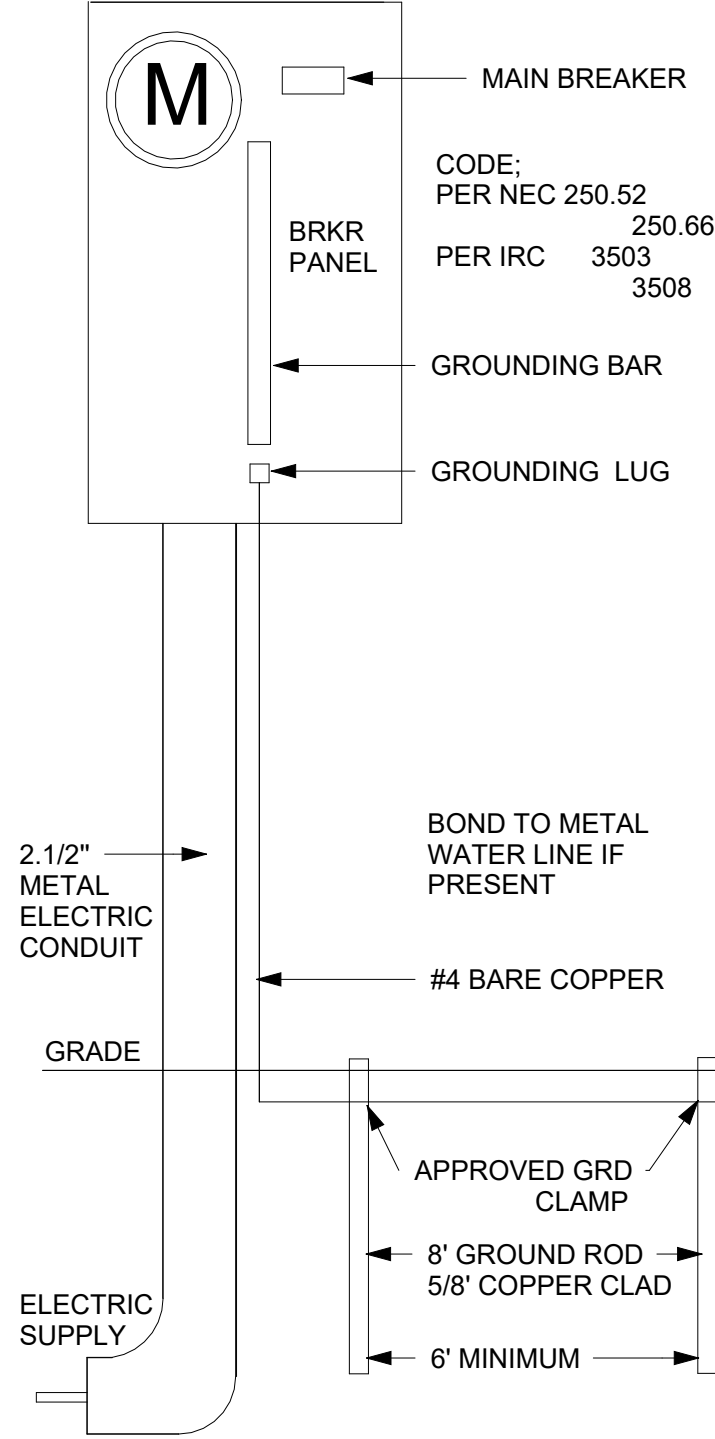
METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS USED AS SERVICE EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION E3609.4. WHERE NONMETALLIC ENCLOSURES ARE USED WITH METAL RACEWAYS OR METAL-ARMORED CABLES, PROVISIONS SHALL BE MADE FOR CONNECTING THE EQUIPMENT GROUNDING CONDUCTOR.

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

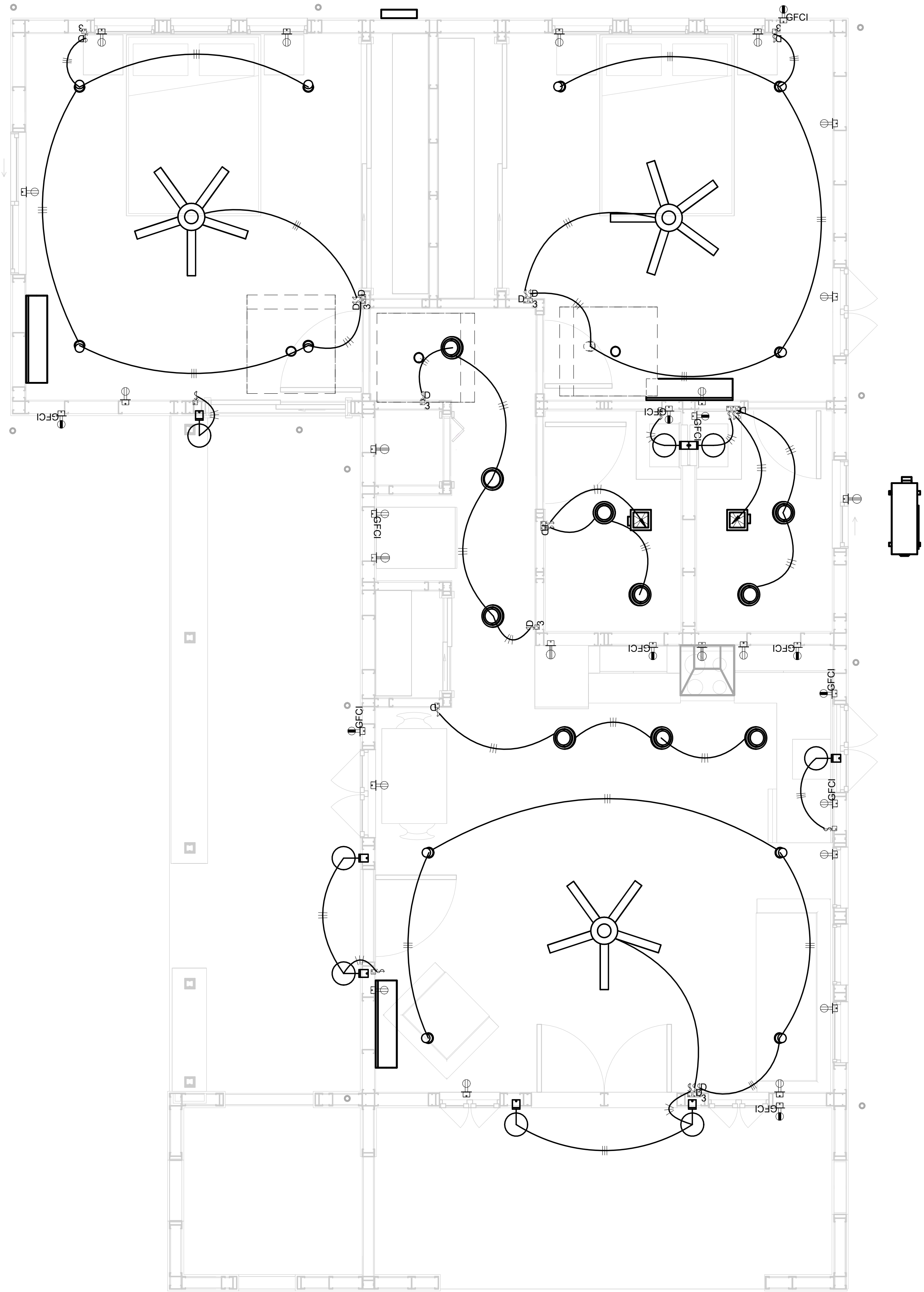


2

SERVICE PANEL DIAGRAM  
12" = 1'-0"

1

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



KEY PLAN

| NO. | DESCRIPTION | DATE |
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NOTE:

LEGEND:

PROJECT

134-Orion-910-2Bd  
2Ba-Spanish-Tower-550

DRAWING NAME

LIGHTING

|                 |                      |
|-----------------|----------------------|
| CLIENT NAME:    | Owner                |
| PROJECT NUMBER: | 0379_13              |
| DATE:           | 3/21/2025 5:11:07 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.

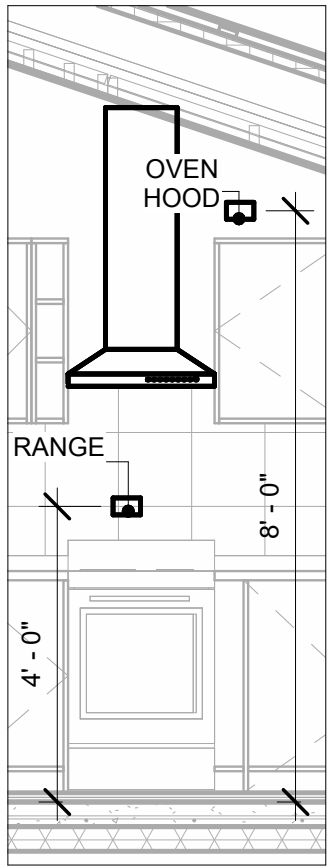
For circuits with 120 volts consider using EMT or PVC conduits if needed.
4.

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.

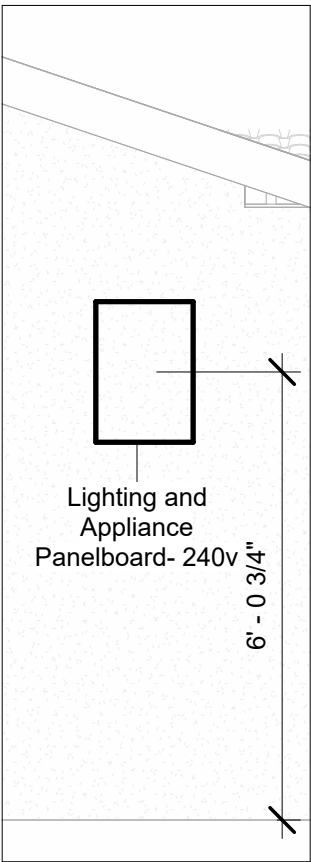
All wiring and cables to be used in the project must also conform to the latest National Electrical Code (NEC), 2015.
7.

All cables and wires used should be rated for their respective loading and should be gauged and conform to the NEC.



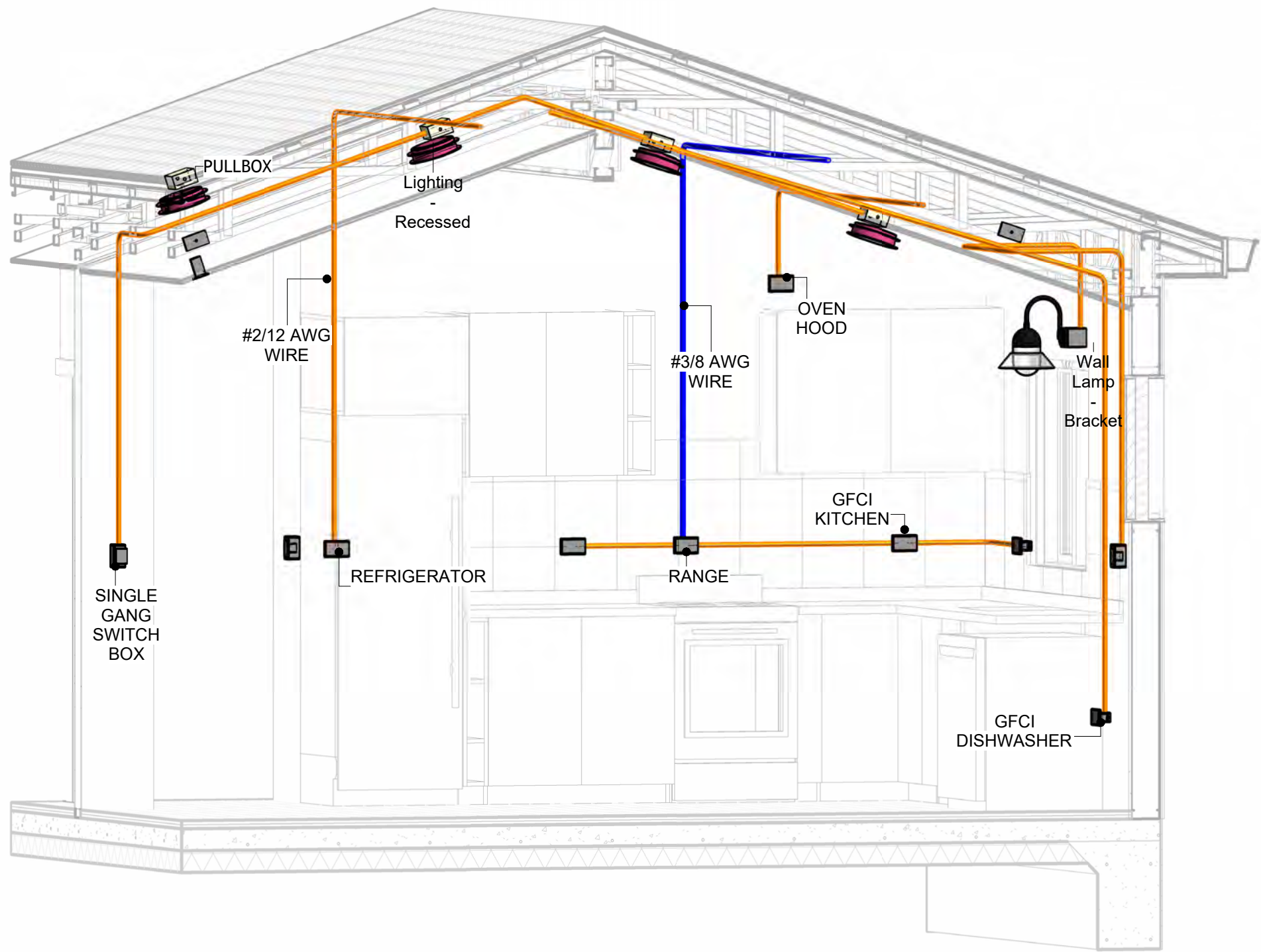
2

Range & OvenHood  
3/8" = 1'-0"



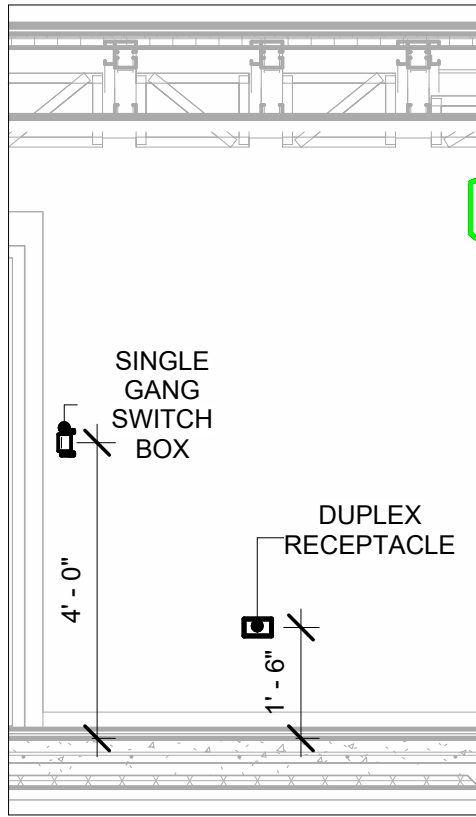
3

Panel  
3/8" = 1'-0"



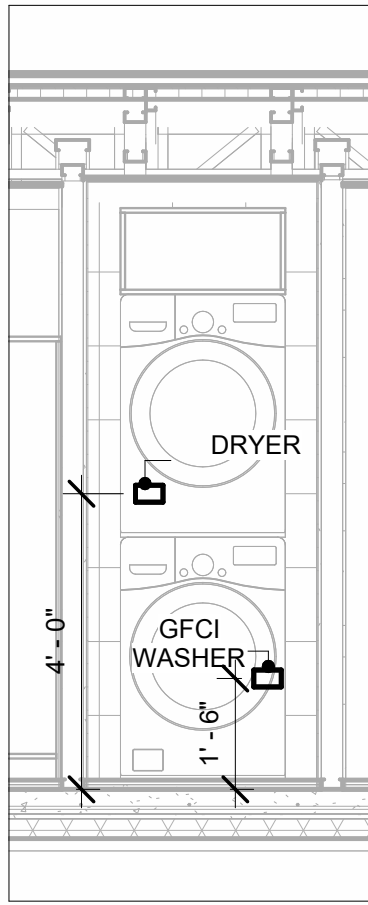
1

3D-KITCHEN



4

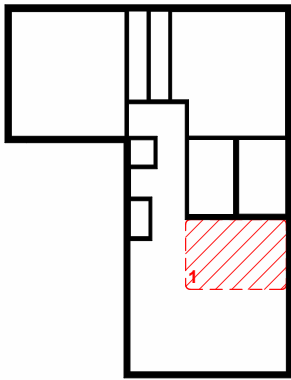
Switch & Receptacle  
3/8" = 1'-0"



5

Dryer & Washer  
3/8" = 1'-0"

KEY PLAN



| NO. | DESCRIPTION | DATE |
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NOTE:

LEGEND:

PROJECT

134-Orion-910-2Bd  
2Ba-Spanish-Tower-550

DRAWING NAME

POWER

|                 |                      |
|-----------------|----------------------|
| CLIENT NAME:    | Owner                |
| PROJECT NUMBER: | 0379_13              |
| DATE:           | 3/21/2025 5:11:34 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.

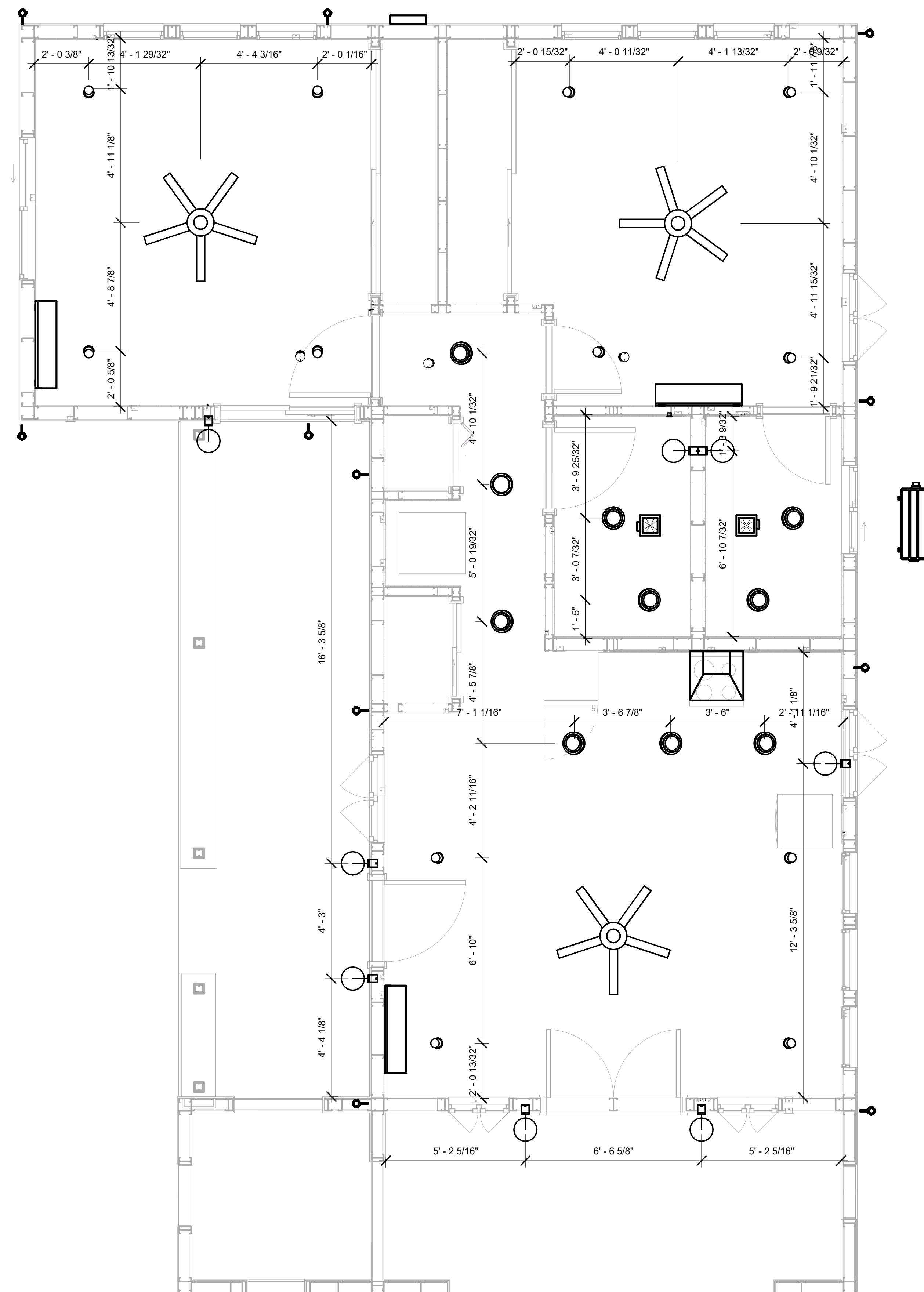
1. THE MINIMUM SIZE OF JUNCTION BOX TO BE USED IS 2"x4"x(1.5" OR 3.5" DEEP) THIS ARE TO BE USED FOR SINGLE GANG SWITCH OR OUTLETS.
2. FOR DOUBLE GANG (2 GANG) OUTLETS AND SWITCHES THE MINIMUM SIZE OF THE JUNCTION BOX TO BE PROVIDED SHALL NOT BE LESS THAN 4"x4"x(1.5" OR 3.5" DEEP)
3. FOR THREE GANG (3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

| FAMILY   | COUNT | DESCRIPTION  |
|----------|-------|--------------|
| PULLBOX1 | 28    | #1/4 PULLBOX |

| TYPE                   | COUNT |
|------------------------|-------|
| DOUBLE GANG SWITCH BOX | 3     |
| SINGLE GANG SWITCH BOX | 8     |
| TRIPLE GANG SWITCH BOX | 2     |

| TYPE                  | COUNT |
|-----------------------|-------|
| DIMMER                | 6     |
| FAN SWITCH            | 2     |
| SINGLE POLE           | 6     |
| THREE WAY WITH DIMMER | 7     |

| 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 | 3     |
| 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 | 12    |
| WALL LAMP - BRACKET             | 120 V/1-100 VA                 | 200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES | 8     |



**DIMENSION FOR LIGHT FIXTURES**  
**3/8" = 1'-0"**

[illegible]

**LEGEND:**

134-Orion-910-2Bd  
2Ba-Spanish-Tower-550

## DIMENSION PLAN FOR LIGHT FIXTURES

|                 |                      |
|-----------------|----------------------|
| CLIENT NAME:    | Owner                |
| PROJECT NUMBER: | 0379_13              |
| DATE:           | 3/21/2025 5:11:37 PM |
| DESIGNED BY:    | Designer             |
| DRAWN BY:       | Author               |
| CHECKED BY:     | Checker              |

# E104

SCALE: As indicated



NOTES;

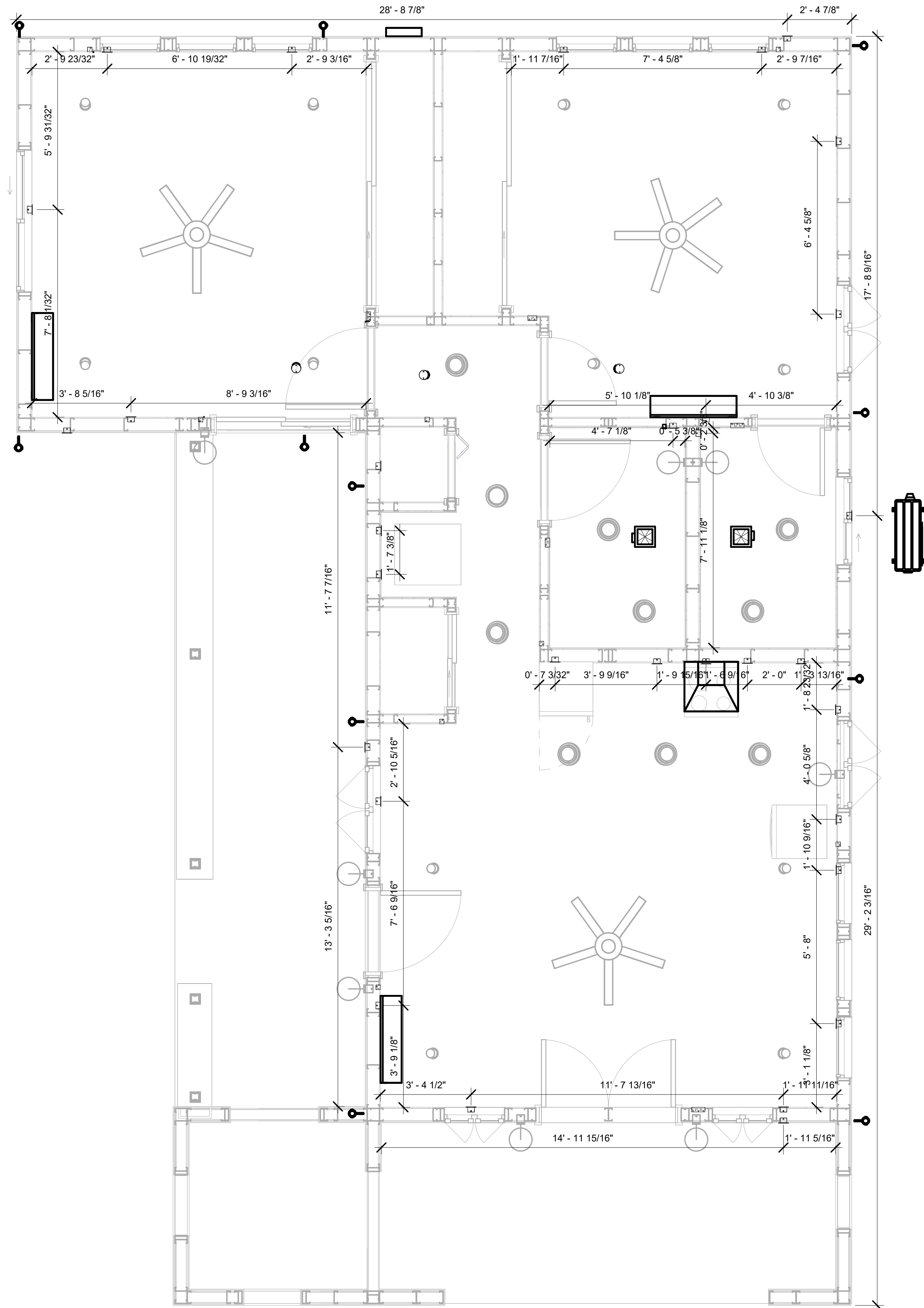
1. VERIFY EQUIPMENT PLUG CONFIGURATION BEFORE PURCHASING RECEPTACLES
2. FOR ALL EQUIPMENT.
3. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, WALL SWITCHES, RECEPTACLES AND OTHER DEVICES WITH ARCHITECTURAL DRAWINGS.
4. USE METALLIC JUNCTION BOX WITH THE GFCI RECEPTACLES, WITH HIGHT VOLTAGE.

ELECTRICAL FIXTURE SCHEDULE (RECEPTACLE)

| TYPE              | COUNT |
|-------------------|-------|
| CONDENSER         | 1     |
| DRYER             | 1     |
| DUPLEX RECEPTACLE | 15    |
| GFCI BATH ROOM    | 2     |
| GFCI DISHWASHER   | 1     |
| GFCI KITCHEN      | 3     |
| GFCI OUT DOOR     | 4     |
| GFCI WASHER       | 1     |
| OVEN HOOD         | 1     |
| RANGE             | 1     |
| REFRIGERATOR      | 1     |
| WATER HEATER      | 1     |

ELECTRICAL OUTLET SCHEDULE

| TYPE              | CIRCUIT NUMBER | ELECTRICAL DATA | COUNT |
|-------------------|----------------|-----------------|-------|
| DUPLEX RECEPTACLE |                | 120 V/1-180 VA  | 9     |
| WATER HEATER      | 5,7            | 240 V/2-4500 VA | 1     |
| DRYER             | 6,8            | 240 V/2-5000 VA | 1     |
| GFCI WASHER       | 9              | 120 V/1-1200 VA | 1     |
| RANGE             | 10,12          | 240 V/2-5000 VA | 1     |
| GFCI KITCHEN      | 11             | 120 V/1-180 VA  | 3     |
| REFRIGERATOR      | 13             | 120 V/1-1800 VA | 1     |
| GFCI DISHWASHER   | 14             | 120 V/1-1200 VA | 1     |
| DUPLEX RECEPTACLE | 15             | 120 V/1-180 VA  | 6     |
| GFCI BATH ROOM    | 16             | 120 V/1-180 VA  | 1     |
| GFCI OUT DOOR     | 17             | 120 V/1-180 VA  | 4     |
| CONDENSER         | 18,20          | 240 V/2-5000 VA | 1     |
| GFCI BATH ROOM    | 19             | 120 V/1-180 VA  | 1     |
| OVEN HOOD         | 21             | 120 V/1-180 VA  | 1     |



1

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

KEY PLAN

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
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NOTE:

LEGEND:

PROJECT

134-Orion-910-2Bd  
2Ba-Spanish-Tower-550

DRAWING NAME

DIMENSION PLAN  
FOR FITTINGS

|                 |                      |
|-----------------|----------------------|
| CLIENT NAME:    | Owner                |
| PROJECT NUMBER: | 0379_13              |
| DATE:           | 3/21/2025 5:11:39 PM |
| DESIGNED BY:    | Designer             |
| DRAWN BY:       | Author               |
| CHECKED BY:     | Checker              |

E105

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



| SHEET LIST   |                                |
|--------------|--------------------------------|
| Sheet Number | Sheet Name                     |
| P101         | NOTE AND SCHEDULE              |
| P102         | WATER SUPPLY AND SEWAGE SYSTEM |

| PIPe Color SCHEME |                     |
|-------------------|---------------------|
| <div></div>       | DOMESTIC COLD WATER |
| <div></div>       | DOMESTIC HOT WATER  |
| <div></div>       | SANITARY VENT       |
| <div></div>       | SANITARY SEWER      |
| <div></div>       | STORM DRAINAGE      |

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"   | 13 ft  |
| Acrylonitrile Butadiene Styrene (ABS) | 2"       | 56 ft  |
| Acrylonitrile Butadiene Styrene (ABS) | 3"       | 9 ft   |
| Cross-linked polyethylene (PEX)       | 1/2"     | 101 ft |
| Cross-linked polyethylene (PEX)       | 3/4"     | 63 ft  |
| Polyvinyl Chloride - Rigid            | 2"       | 108 ft |

| FITTING SCHEDULE     |                   |     |
|----------------------|-------------------|-----|
| FITTING              | Size              | QTY |
| Domestic Cold Water  |                   |     |
| PEX 90 Degree Elbow  | 1/2"ø-1/2"ø       | 16  |
| PEX 90 Degree Elbow  | 3/4"ø-3/4"ø       | 4   |
| PEX Tee Elbow        | 1/2"ø-1/2"ø-1/2"ø | 4   |
| PEX Tee Elbow        | 3/4"ø-3/4"ø-3/4"ø | 7   |
| PEX Transition Elbow | 1"ø-3/4"ø         | 2   |
| PEX Transition Elbow | 3/4"ø-1/2"ø       | 6   |

|                      |                   |    |
|----------------------|-------------------|----|
| Domestic Hot Water   |                   |    |
| PEX 90 Degree Elbow  | 1/2"ø-1/2"ø       | 10 |
| PEX 90 Degree Elbow  | 3/4"ø-3/4"ø       | 3  |
| PEX Tee Elbow        | 1/2"ø-1/2"ø-1/2"ø | 6  |
| PEX Transition Elbow | 3/4"ø-1/2"ø       | 6  |

|                          |             |    |
|--------------------------|-------------|----|
| Rain Water               |             |    |
| Bend Rain Water System   | 2"ø-2"ø     | 20 |
| Bend Sewerage System     | 2"ø-2"ø     | 7  |
| PVC 90 Degree Bend Elbow | 2"ø-2"ø     | 1  |
| PVC TEE Elbow            | 2"ø-2"ø-2"ø | 2  |

|                                         |                                 |   |
|-----------------------------------------|---------------------------------|---|
| 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                         | 2 |
| ABS Bend Long Sweep Elbow               | 2"ø-2"ø                         | 1 |
| ABS P-Trap                              | 1 1/2"ø-1 1/2"ø                 | 4 |
| ABS P-Trap                              | 2"ø-2"ø                         | 1 |
| ABS Reducer Elbow                       | 2"ø-1 1/2"ø                     | 2 |
| ABS Reducer Elbow                       | 3"ø-2"ø                         | 3 |
| ABS TEE Elbow                           | 2"ø-2"ø-2"ø                     | 1 |
| ABS TEE Elbow                           | 3"ø-3"ø-3"ø                     | 1 |
| ABS Trap P                              | 2"ø-2"ø                         | 1 |
| ABS WASTE DOUBLE TEE                    | 1 1/2"ø-1 1/2"ø-1 1/2"ø-1 1/2"ø | 1 |
| ABS WASTE DOUBLE TEE                    | 2"ø-2"ø-2"ø-2"ø                 | 1 |
| ABS WASTE DOUBLE TEE                    | 3"ø-3"ø-3"ø-3"ø                 | 1 |
| ABS Wye Combination with 8th Bend Elbow | 2"ø-2"ø-1 1/2"ø                 | 1 |
| ABS Wye Combination with 8th Bend Elbow | 3"ø-3"ø-1 1/2"ø                 | 1 |
| ABS Wye Combination with 8th Bend Elbow | 3"ø-3"ø-2"ø                     | 1 |
| ABS Wye Combination with 8th Bend Elbow | 3"ø-3"ø-3"ø                     | 1 |

|                          |                 |   |
|--------------------------|-----------------|---|
| Vent                     |                 |   |
| ABS 90 Degree Bend Elbow | 1 1/2"ø-1 1/2"ø | 1 |
| ABS Reducer Elbow        | 2"ø-1 1/2"ø     | 1 |
| ABS TEE Elbow            | 2"ø-2"ø-2"ø     | 1 |
| ABS Vent Cap Elbow       | 2"ø             | 3 |

| WATER FIXTURE UNIT SCHEDULE |     |            |       |
|-----------------------------|-----|------------|-------|
| Family                      | QTY | UNIT VALUE | TOTAL |

|                    |   |          |     |
|--------------------|---|----------|-----|
| Dishwasher         | 1 | 1.4      | 1.4 |
| Shower Tray        | 2 |          | 0   |
| Shower Trim        | 2 | 1.4      | 2.8 |
| Sink Island Single | 1 | 1.4      | 1.4 |
| Vanity Sink        | 2 |          | 0   |
| Washer             | 1 | 1.4      | 1.4 |
| Water Closet       | 2 | <varies> | 2.2 |

| WASTE FIXTURE UNIT SCHEDULE |     |            |       |
|-----------------------------|-----|------------|-------|
| Family                      | QTY | DFU Values | TOTAL |

|                    |   |          |   |
|--------------------|---|----------|---|
| Dishwasher         | 1 | 2        | 2 |
| Shower Tray        | 2 |          | 0 |
| Sink Island Single | 1 | 2        | 2 |
| Vanity Sink        | 2 |          | 0 |
| Washer             | 1 | 2        | 2 |
| Water Closet       | 2 | <varies> | 3 |

| FIXTURE SCHEDULE |     |             |
|------------------|-----|-------------|
| fixture          | QTY | Description |

|                    |   |  |
|--------------------|---|--|
| Dishwasher         | 1 |  |
| Dryer              | 1 |  |
| Shower Tray        | 2 |  |
| Shower Trim        | 2 |  |
| Sink Island Single | 1 |  |
| Vanity Sink        | 2 |  |
| Washer             | 1 |  |
| Water Closet       | 2 |  |
| Water Heater       | 1 |  |

| 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        |        |       |        |      |      |
| 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       | 3"     | 3"    | 2"     | 1/2" | 1/2" |
| Water Heater       | N/A    | N/A   | N/A    | 3/4" | 3/4" |

| ACCESSORIES & FITTINGS SCHEDULE |     |              |
|---------------------------------|-----|--------------|
| fixture                         | QTY | Descriptions |

|                                    |    |  |
|------------------------------------|----|--|
| DISHWASHER SUPPLY SINGLE CONNECTOR | 1  |  |
| DISHWASHER SEWAGE SINGLE CONNECTOR | 1  |  |
| Hanging pipe clamp                 | 20 |  |
| Hose Bib                           | 2  |  |
| LAUNDRY SWEAT CONNECTOR1           | 1  |  |
| Shutoff Valve                      | 8  |  |



KEY PLAN

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
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|     |             |      |
|     |             |      |
|     |             |      |

NOTE:

LEGEND:

PROJECT

134-Orion-910-2Bd 2Ba  
Spanish-Tower-550

DRAWING NAME

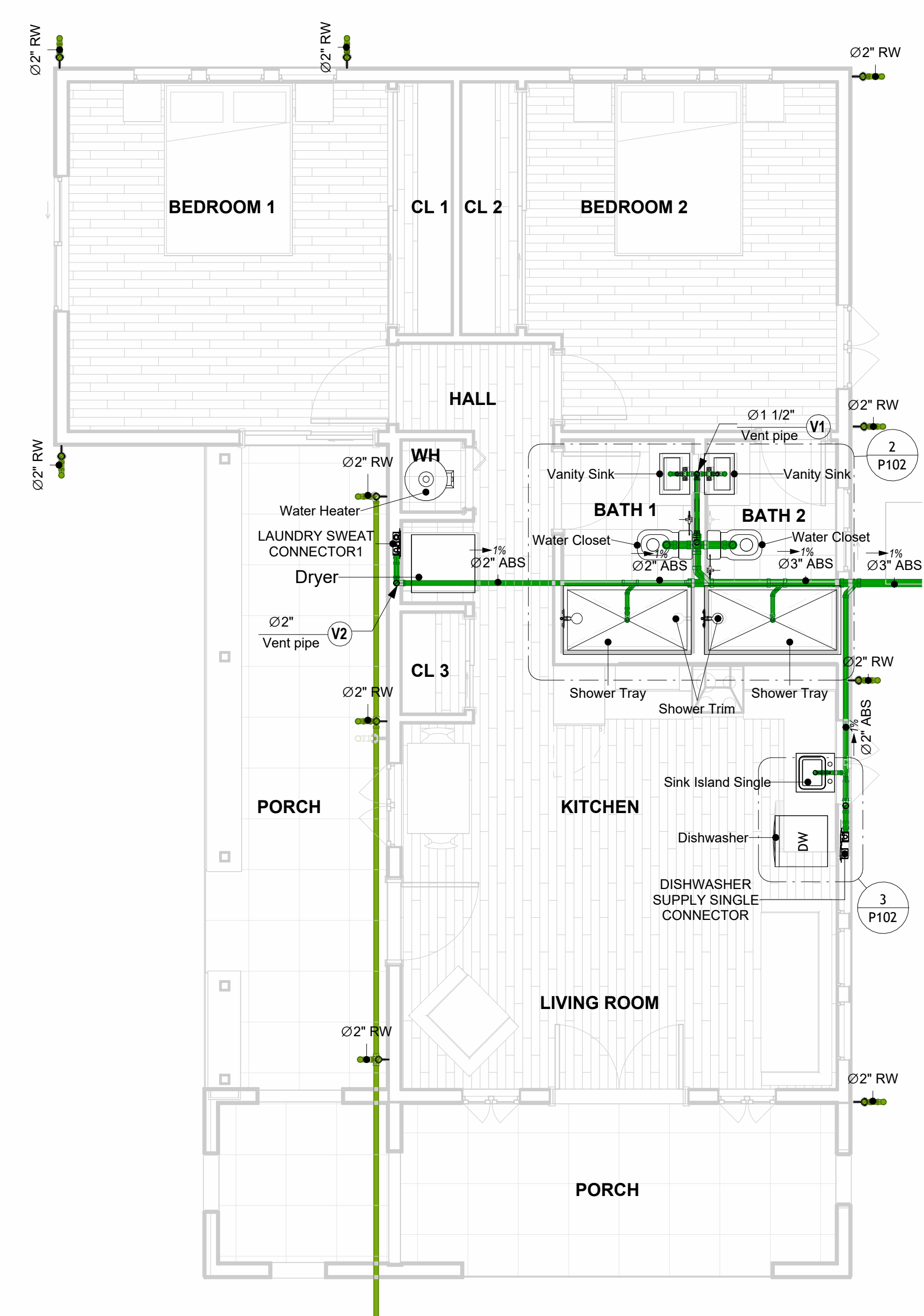
NOTE AND SCHEDULE

|                 |                      |
|-----------------|----------------------|
| CLIENT NAME:    |                      |
| PROJECT NUMBER: | 0379_13              |
| DATE:           | 3/21/2025 7:49:04 AM |
| DESIGNED BY:    | Designer             |
| DRAWN BY:       | Author               |
| CHECKED BY:     | Checker              |

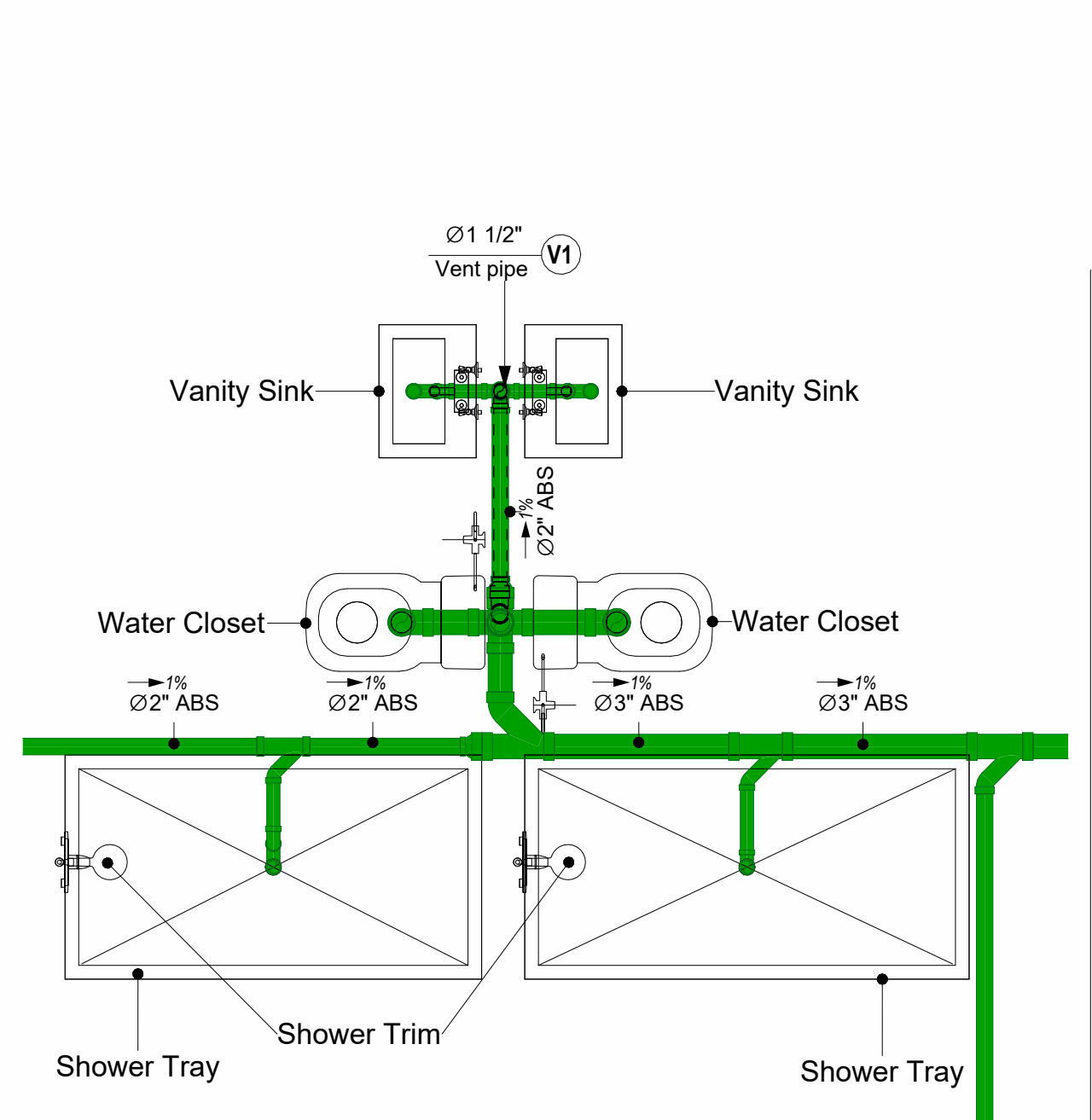
P101

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

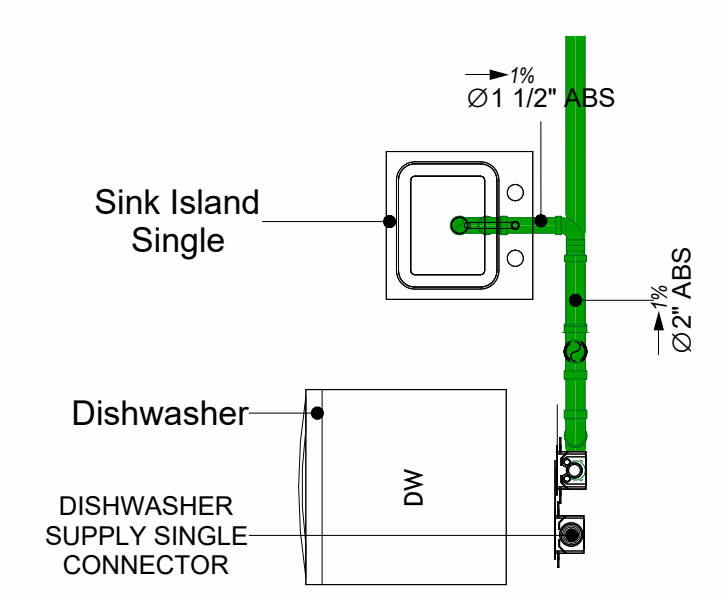




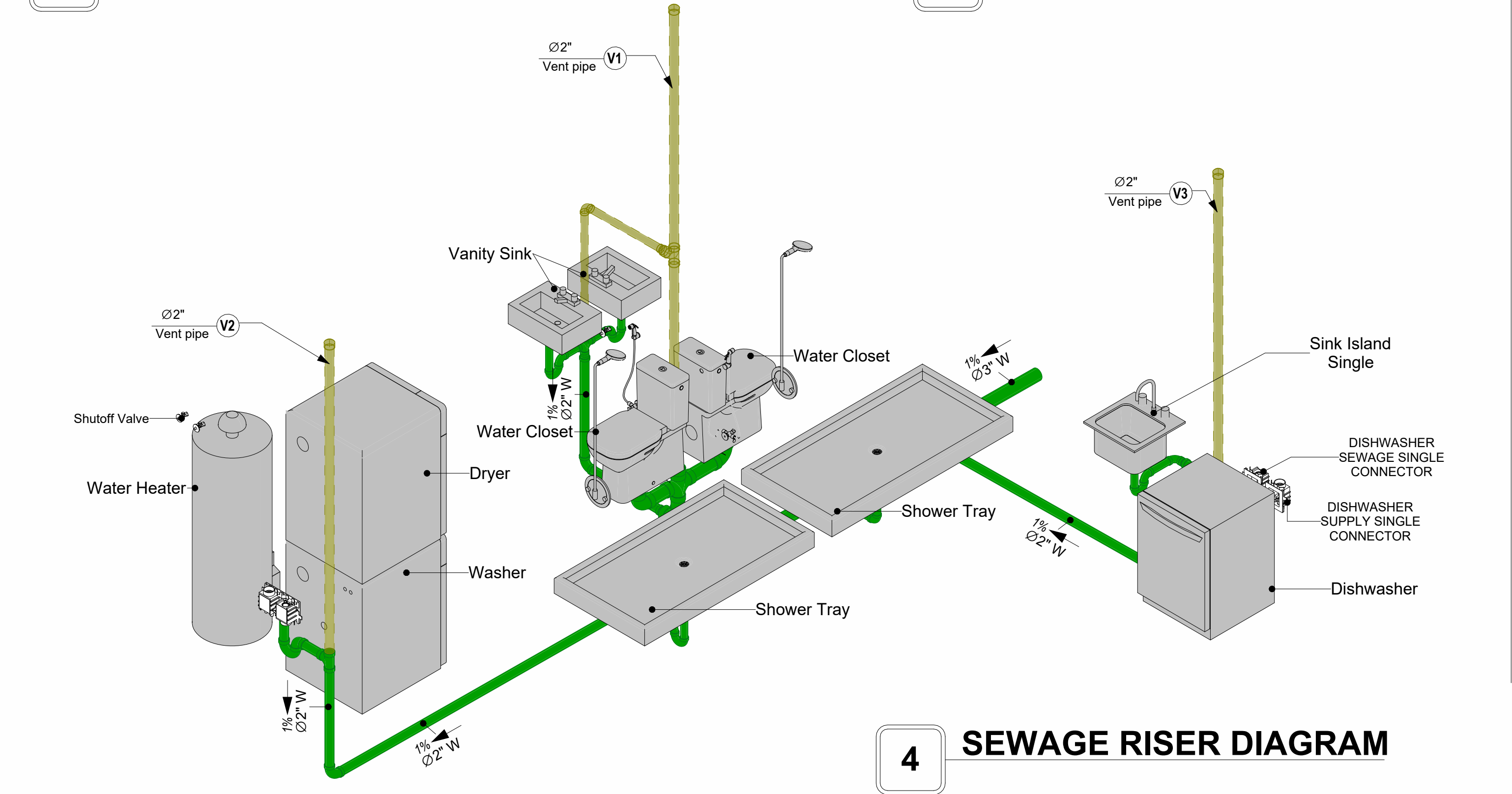
1 OVERALL SANITARY  
1/4" = 1'-0"



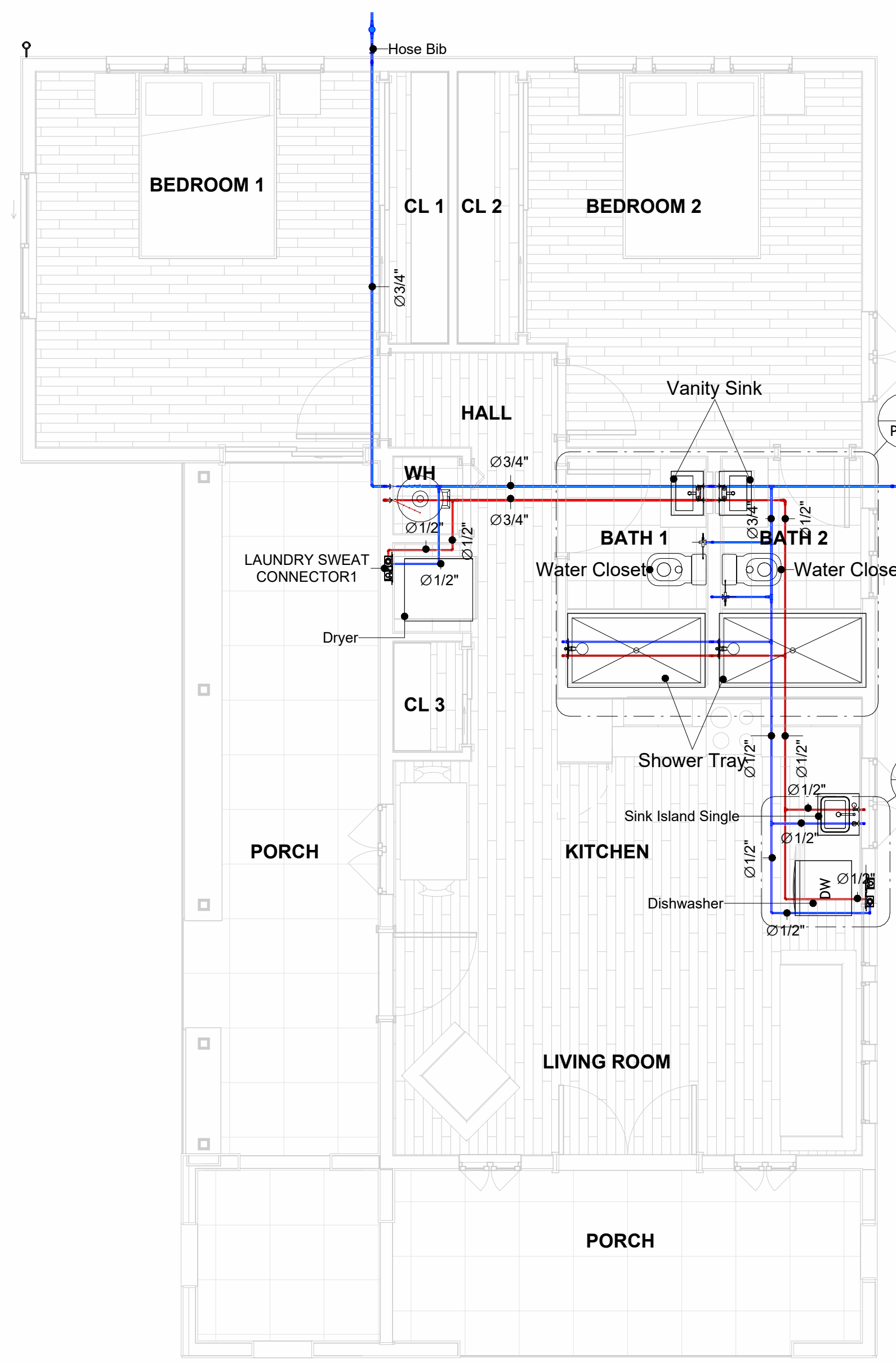
2 BATH SEWAGE  
1/2" = 1'-0"



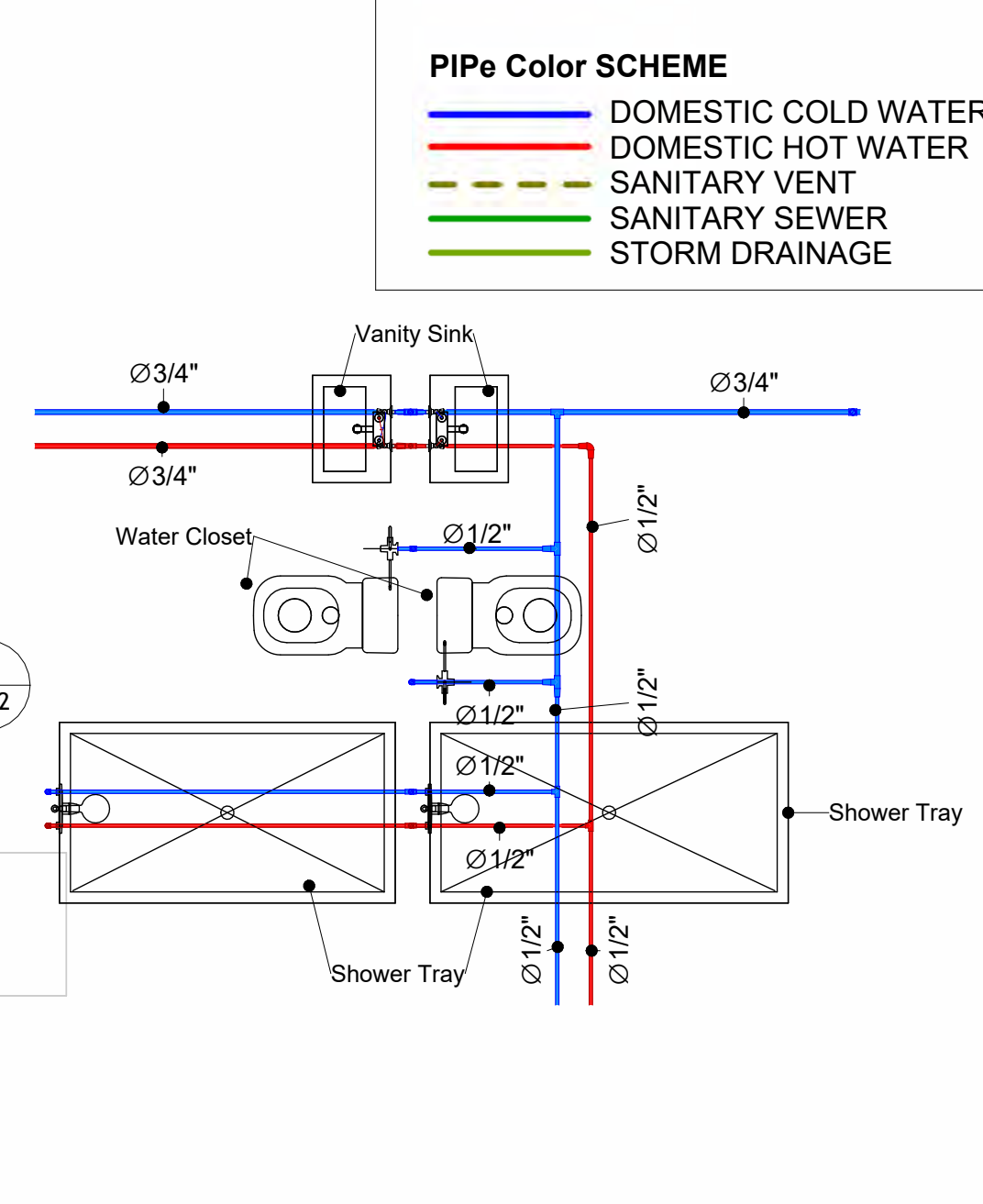
3 KITCHEN SEWAGE  
1/2" = 1'-0"



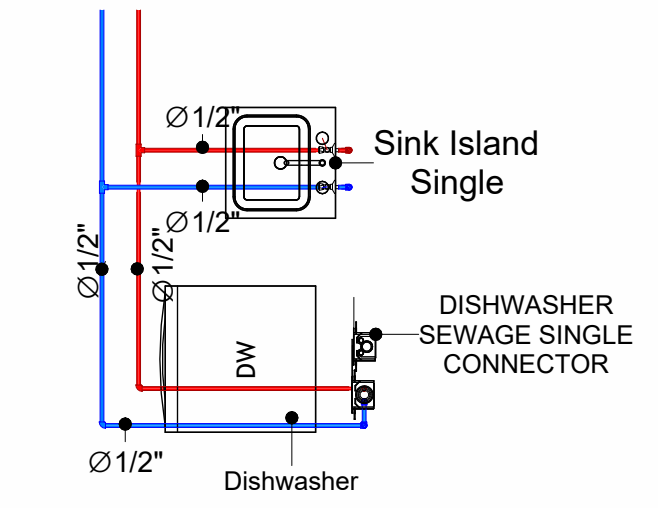
4 SEWAGE RISER DIAGRAM



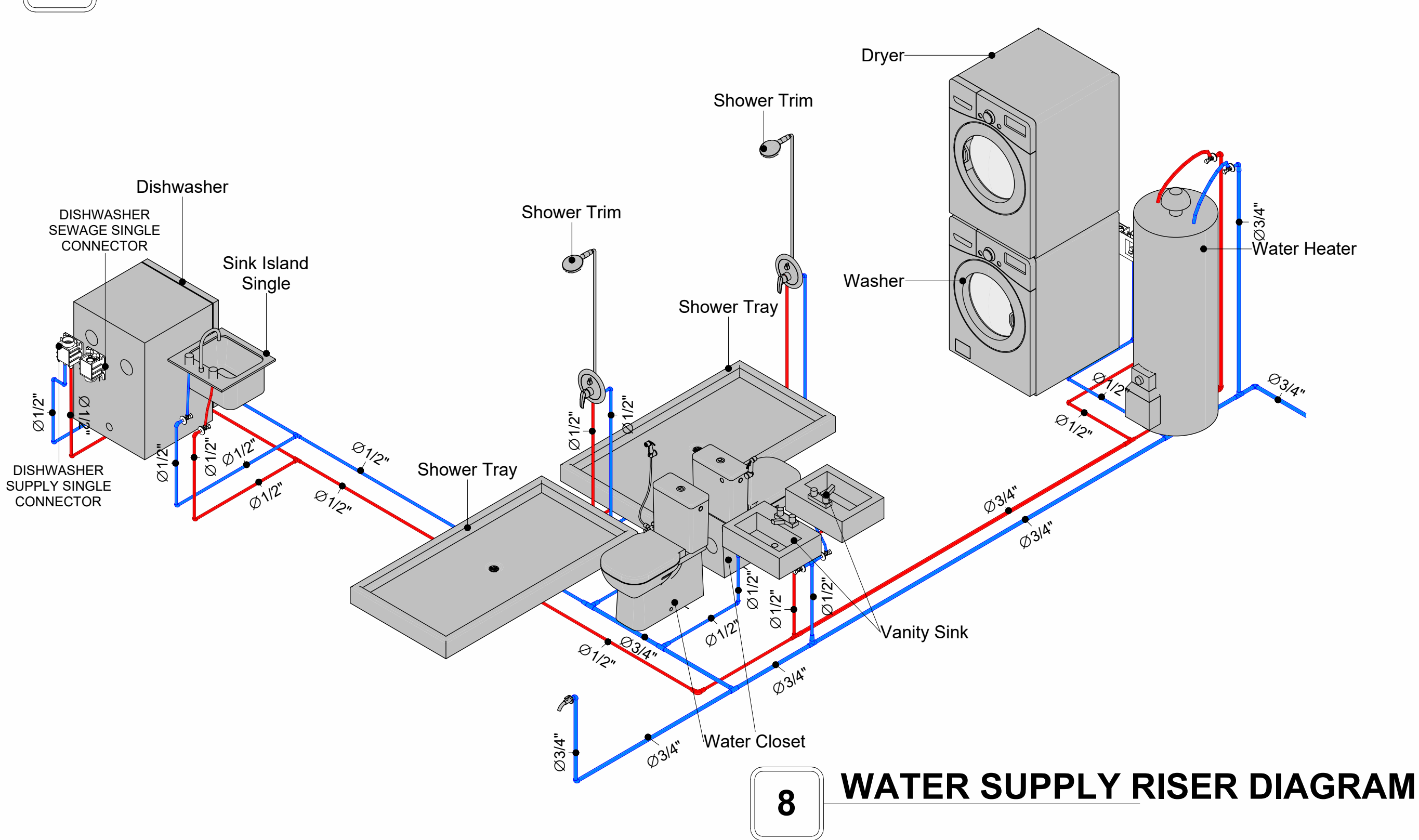
5 OVERALL WATER SUPPLY  
1/4" = 1'-0"



6 BATH WATER SUPPLY  
3/8" = 1'-0"



7 KITCHEN WATER SUPPLY  
3/8" = 1'-0"



8 WATER SUPPLY RISER DIAGRAM

KEY PLAN

| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
|     |             |      |
|     |             |      |
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|     |             |      |
|     |             |      |

NOTE:

LEGEND:

PROJECT

134-Orion-910-2Bd 2Ba  
Spanish-Tower-550

DRAWING NAME

WATER SUPPLY AND  
SEWAGE SYSTEM

CLIENT NAME:

PROJECT NUMBER: 0379\_13

DATE: 3/21/2025 7:49:30 AM

DESIGNED BY: Designer

DRAWN BY: Author

CHECKED BY: Checker



# 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                             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | The wall frames, trusses and beams can be erected in a just a few days                 |
| 2                                     | Minimal Construction Skills Required                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Pre-assembled walls and trusses require no specialized skills to erect                 |
| 3                                     | Build as DIY, Hybrid or by a General Contractor      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Do it yourself, Hybrid (involve special contractors) or hire a General Contractor      |
| 4                                     | Build It As You Can Afford It                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Impervious to Weather - build as you have the time and money                           |
| 5                                     | Up Front Cost of Framing Materials                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | As to only the framing material, wood is less expensive                                |
| 6                                     | Total Cost To Build                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Savings in time, labor, and other areas make light gauge steel LESS expensive          |
| 7                                     | Termites and wood boring insects                     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Termites, carpenter ants and wood boring insects eat wood, not metal                   |
| 8                                     | Mold resistant                                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Metal does not attract mold                                                            |
| 9                                     | Damage caused by exterior and interior flooding      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Metal needs no reconditioning after a flood                                            |
| 10                                    | Fire Resistant                                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Non-combustible                                                                        |
| 11                                    | Lower insurance rates                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Many insurance underwriters now provide lower rates for metal framed homes             |
| 12                                    | Walls, trusses, and beams retain their original form | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Perfectly straight walls - no shimming of drywall                                      |
| 13                                    | Corners are 90 degrees                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | No need for templating of countertops to adjust for out of square corners              |
| 14                                    | Strength and weight                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Metal is stronger than wood and weighs less - no need for crane to lift ADU trusses    |
| 15                                    | IBC Engineered Stamp                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | If an engineering stamp is necessary, months of waiting are saved                      |
| 16                                    | Complete BOM (Materials Shopping List)               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Take the materials shopping list to Home Depot and start shopping/pricing              |
| 17                                    | Flexible in Seismic Areas - Won't Fracture           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Light gauge steel is flexible and won't fracture when the earth moves                  |
| 18                                    | No Waste At Job Site                                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Steel is the most recycled material in the world. A typical wood home has 20-30% waste |
| 19                                    | Environmentally Friendly                             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Trees don't have to be destroyed and the source of most metal is from recycling        |
| 20                                    | How-To Videos Included                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | How-to videos provide simple assembly instructions                                     |
| 21                                    | Relationship Counselor                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 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                      |



Orion-2Bd 2Ba-Spanish-Tower



Orion-2Bd 2Ba-Spanish-Tower

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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GENERAL NOTES

- 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



| Orion-2Bd 2Ba-Spanish-Tower          |                           |                               |      |          |            |       |             |
|--------------------------------------|---------------------------|-------------------------------|------|----------|------------|-------|-------------|
| ARCHITECTURAL MATERIAL SHOPPING LIST |                           |                               |      |          |            |       |             |
| No.                                  | Item                      | Type                          | Unit | Quantity | Unit Price | Total | Description |
| <b>APPLIANCES</b>                    |                           |                               |      |          |            |       |             |
| 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        |            |       |             |
| <b>CASEWORKS</b>                     |                           |                               |      |          |            |       |             |
| 1                                    | Kitchen Cabinet           |                               | FT   | 16.23    |            |       |             |
| 2                                    | Laundry Cabinet           |                               | FT   | 2.25     |            |       |             |
| 3                                    | Vanity Cabinet            |                               | FT   | 2.5      |            |       |             |
| 4                                    | Medicine Cabinet          |                               | PCS  | 2        |            |       |             |
| 5                                    | Kitchen countertop        |                               | SF   | 25.55    |            |       |             |
| 6                                    | Laundry Countertop        |                               | PCS  | 1        |            |       |             |
| 7                                    | Bathroom Countertop       |                               | SF   | 0        |            |       |             |
| 8                                    | Island                    |                               | FT   | 0        |            |       |             |
| 9                                    | Peninsula                 |                               | FT   | 0        |            |       |             |
| 10                                   | Closets                   |                               | SF   | 140.31   |            |       |             |
| <b>CEILING</b>                       |                           |                               |      |          |            |       |             |
| 1                                    | Ceiling Board             | Dry Wall                      | SF   | 681      |            |       |             |
| 2                                    | Dry Wall Fastener         | Screw                         | PCS  | 1192     |            |       |             |
| 3                                    | Vapor Retarder            | Polyethylene film             | SF   | 771      |            |       |             |
| 4                                    | Vapor Retarder Fastener   | Nails with washer heads       | PCS  | 2313     |            |       |             |
| 5                                    | Ceiling Board (MRD)       | Moisture resistant drywall    | SF   | 90       |            |       |             |
| 6                                    | MRD Fastener              |                               | PCS  | 158      |            |       |             |
| 7                                    | Ceiling Board             | Marine Plywood                | SF   | 0        |            |       |             |
| 8                                    | Marine Plywood Fastener   | Screw                         | PCS  | 0        |            |       |             |
| 9                                    | Dry Wall Tape             |                               | FT   | 386      |            |       |             |
| <b>FLOORING</b>                      |                           |                               |      |          |            |       |             |
| 1                                    | Main Living Space         |                               | SF   | 335.49   |            |       |             |
| 2                                    | Bathroom                  |                               | SF   | 73.83    |            |       |             |
| 3                                    | Bedroom                   |                               | SF   | 374.7    |            |       |             |
| 4                                    | Porch                     |                               | SF   | 348.06   |            |       |             |
| <b>STRUCTURE</b>                     |                           |                               |      |          |            |       |             |
| 1                                    | Foundation                |                               | SF   | 1,254.72 |            |       |             |
| <b>WALLS EXTERIOR</b>                |                           |                               |      |          |            |       |             |
| 1                                    | Stucco Finish             |                               | SF   | 1827     |            |       |             |
| 2                                    | Wall Paint                |                               | SF   | 1827     |            |       |             |
| 3                                    | Wall Shteathing (OSB)     |                               | SF   | 1827     |            |       |             |
| 4                                    | Shteathing Fastener       | Self-drilling screws(100/pkt) | PKT  | 18.27    |            |       |             |
| 5                                    | Wall Insulation           |                               | SF   | 3238     |            |       |             |
| 6                                    | Wall Homewrap             |                               | SF   | 1827     |            |       |             |
| 7                                    | Home wrap Fastener        | Stapled fastener (200/pkt)    | PKT  | 7        |            |       |             |
| 8                                    | Stone Copping             | Masonry stone                 | SF   | 0        |            |       |             |
| 9                                    | Stone Veneer              | Masonry stone                 | SF   | 0        |            |       |             |
| <b>WALLS INTERIOR</b>                |                           |                               |      |          |            |       |             |
| 1                                    | Cementitious Backer Board |                               | SF   | 562      |            |       |             |
| 2                                    | Kerdi membrane            |                               | SF   | 562      |            |       |             |
| 3                                    | Kerdi membrane Fastener   |                               | SF   | 562      |            |       |             |
| 4                                    | Wall Ceramic Tile         |                               | SF   | 562      |            |       |             |
| 5                                    | Drywall Board             |                               | SF   | 1663     |            |       |             |
| 6                                    | Drywall Fastener          | Self-drilling screws(100/pkt) | PKT  | 16.63    |            |       |             |
| 7                                    | Wall Paint                |                               | SF   | 1663     |            |       |             |
|                                      | Drywall Tape              |                               | FT   | 312      |            |       |             |
| 8                                    | Wall Skirting             |                               | FT   | 133      |            |       |             |



# ARCHITECTURAL BOM



|         |                          |                 |     |        |  |  |  |
|---------|--------------------------|-----------------|-----|--------|--|--|--|
| DOORS   |                          |                 |     |        |  |  |  |
| 1       | Exterior Swinging        | 3' - 0" X 6'-8" | PCS | 1      |  |  |  |
| 2       | Interior Swinging        | 3' - 0" X 6'-8" | PCS | 1      |  |  |  |
| 3       | Interior Sliding         | 9' - 0" X 6'-8" | PCS | 2      |  |  |  |
| 4       | Interior Swinging        | 2' - 6" X 6'-8" | PCS | 2      |  |  |  |
| 5       | Patio Sliding            | 5' - 0" X 6'-8" | PCS | 1      |  |  |  |
| 6       | Exterior Swinging        | 5' - 0" X 6'-8" | PCS | 1      |  |  |  |
| 7       | Interior Swinging        | 3' - 0" X 6'-8" | PCS | 1      |  |  |  |
| 8       | Folding                  | 2' - 4" X 6'-8" | PCS | 1      |  |  |  |
| 9       | Interior Sliding         | 3' - 5" X 6'-8" | PCS | 1      |  |  |  |
| 10      | Exterior Door Trim       |                 | FT  | 53     |  |  |  |
| 11      | Interior Door Trim       |                 | FT  | 336    |  |  |  |
| 12      | Entry Lock set           |                 | PCS | 3      |  |  |  |
| 13      | Privacy Lock set         |                 | PCS | 4      |  |  |  |
| 14      | Passage Lock set         |                 | PCS | 4      |  |  |  |
| WINDOWS |                          |                 |     |        |  |  |  |
| 1       | Awning                   | 2' - 3" X 2'-3" | PCS | 9      |  |  |  |
| 2       | Sliding                  | 5' - 3" X 4'-3" | PCS | 1      |  |  |  |
| 3       | Casement                 | 3' - 3" X 3'-9" | PCS | 2      |  |  |  |
| 4       | Casement                 | 2' - 3" X 4'-3" | PCS | 2      |  |  |  |
| 5       | Casement                 | 3' - 3" X 3'-3" | PCS | 1      |  |  |  |
| 6       | Sliding                  | 3' - 3" X 1'-9" | PCS | 1      |  |  |  |
| 7       | Exterior Window Trim     |                 | FT  | 181    |  |  |  |
| 8       | Interior Window Trim     |                 | FT  | 181    |  |  |  |
| ROOF    |                          |                 |     |        |  |  |  |
| 1       | Roof Covering            |                 | SF  | 2326.0 |  |  |  |
| 2       | Roof Covering Fastener   |                 | PCS | 1163   |  |  |  |
| 3       | Roof Felt Paper          |                 | SF  | 1163.0 |  |  |  |
| 4       | Roof Felt Paper Fastener |                 | PCS | 6978.0 |  |  |  |
| 5       | Roof Sheathing           |                 | SF  | 1163   |  |  |  |
| 6       | Roof Sheathing Fastener  |                 | PCS | 9304   |  |  |  |
| 7       | Batten                   |                 | FT  | 586.0  |  |  |  |
| 8       | Batten Fastener          |                 | PCS | 440.6  |  |  |  |
| 9       | Soffit                   |                 | SF  | 130.0  |  |  |  |
| 10      | Soffit Fastener          |                 | PCS | 65.0   |  |  |  |
| 11      | Fascia                   |                 | FT  | 182.0  |  |  |  |
| 12      | Fascia board fastener    |                 | PCS | 91     |  |  |  |
| 13      | Roof Insulation          |                 | SF  | 2326.0 |  |  |  |



## Orion-2Bd 2Ba-Spanish-Tower

## ELECTRICAL MATERIAL SHOPPING LIST

| No.                                            | Item                              | Type          | Unit | Quantity | Description |
|------------------------------------------------|-----------------------------------|---------------|------|----------|-------------|
| <a href="#">⬇</a> LIGHTING FIXTURES            |                                   |               |      |          |             |
| 1                                              | Kitchen Ceiling Light             |               | PCS  | 3        |             |
| 2                                              | Exterior Wall Mounted Light       |               | PCS  | 3        |             |
| 3                                              | Livingroom Ceiling Light With Fan |               | PCS  | 1        |             |
| 4                                              | Bedroom Ceiling Light With Fan    |               | PCS  | 3        |             |
| 5                                              | Dining Ceiling Light              |               | PCS  | 1        |             |
| 6                                              | Bath Wall Mounted Light           |               | PCS  | 1        |             |
| 7                                              | Bathroom Ceiling Light            |               | PCS  | 1        |             |
| 8                                              | Livingroom Ceiling Light          |               | PCS  | 2        |             |
| 9                                              | Bedroom Ceiling Light             |               | PCS  | 12       |             |
| 10                                             | Hall & Entry Ceiling Light        |               | PCS  | 3        |             |
| 11                                             | Closet Ceiling Light              |               | PCS  | 0        |             |
| 12                                             | Smoke Detector                    |               | PCS  | 6        |             |
| <a href="#">⬇</a> ELECTRICAL FITTINGS          |                                   |               |      |          |             |
| 13                                             | Standard Receptacle 120V          | 20A           | PCS  | 23       |             |
| 14                                             | GFCI Receptacle 120V              | 20 A          | PCS  | 13       |             |
| 15                                             | GFCI Receptacle 240V              | 30 A          | PCS  | 3        |             |
| 16                                             | GFCI Receptacle 240V              | 50 A          | PCS  | 1        |             |
| 17                                             | GFCI Receptacle 240V              | 60 A          | PCS  | 1        |             |
| 18                                             | Fan Switch                        |               | PCS  | 4        |             |
| 19                                             | Single Pole Switch                |               | PCS  | 10       |             |
| 20                                             | Three Way Switch                  |               | PCS  | 2        |             |
| 21                                             | Dimmer Switch                     |               | PCS  | 3        |             |
| <a href="#">⬇</a> ELECTRICAL CONDUITS & WIRING |                                   |               |      |          |             |
| 22                                             | ROMEX 14 AWG                      | 14/2/W/ground | FT   | 0        |             |
| 23                                             | ROMEX 12 AWG                      | 12/3/W/ground | FT   | 0        |             |
| 24                                             | ROMEX 12 AWG                      | 12/2/W/ground | FT   | 524      |             |
| 25                                             | ROMEX 10 AWG                      | 10/3/W/ground | FT   | 71       |             |
| 26                                             | ROMEX 10 AWG                      | 10/2/W/ground | FT   | 0        |             |
| 27                                             | Romex 8 AWG                       | 8/3/W/ground  | FT   | 13       |             |
| 28                                             | Romex 8 AWG                       | 8/2/W/ground  | FT   | 0        |             |
| 29                                             | ROMEX 6 AWG                       | 6/3/W/ground  | FT   | 14       |             |
| 30                                             | Bare Copper Ground Wire 6 AWG     |               | FT   | 0        |             |
| <a href="#">⬇</a> ELECTRICAL BOXES & CIRCUTES  |                                   |               |      |          |             |
| 31                                             | Panelboard -240V 1 Phase MLO      | 200 AMP       | PCS  | 1        |             |
| 32                                             | Circuit breaker                   | 15 A          | PCS  | 0        |             |
| 33                                             | Circuit breaker                   | 20 A          | PCS  | 14       |             |
| 34                                             | Circuit breaker                   | 30 A          | PCS  | 3        |             |
| 35                                             | Circuit breaker                   | 40 A          | PCS  | 0        |             |
| 36                                             | Circuit breaker                   | 50 A          | PCS  | 1        |             |
| 37                                             | Circuit breaker                   | 60 A          | PCS  | 1        |             |
| 39                                             | Single Gang Switch Box            |               | PCS  | 2        |             |
| 40                                             | Double Gang Switch Box            |               | PCS  | 1        |             |
| 41                                             | Triple Gang Switch Box            |               | PCS  | 5        |             |
| 42                                             | Pull Box                          | #1/4          | PCS  | 26       |             |
| 43                                             | Receptacle Box                    |               | PCS  | 41       |             |



# PLUMBING BOM



| Orion-2Bd 2Ba-Spanish-Tower                         |                                             |                           |      |          |            |       |             |
|-----------------------------------------------------|---------------------------------------------|---------------------------|------|----------|------------|-------|-------------|
| PLUMBING SYSTEM MATERIAL SHOPPING LIST              |                                             |                           |      |          |            |       |             |
| No.                                                 | Item                                        | Type                      | Unit | Quantity | Unit Price | Total | Description |
| <a href="#">PLUMBING FIXTURES &amp; ACCESSORIES</a> |                                             |                           |      |          |            |       |             |
| 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  | 12       |            |       |             |
| 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        |            |       |             |
| <a href="#">SANITARY &amp; PLUMBING PIPES</a>       |                                             |                           |      |          |            |       |             |
| 1                                                   | ABS (Acrylonitrile Butadiene Styrene) Pipes | ø 1"                      | FT   | 0        |            |       |             |
| 2                                                   | ABS (Acrylonitrile Butadiene Styrene) Pipes | ø 1 1/2"                  | FT   | 13       |            |       |             |
| 3                                                   | ABS (Acrylonitrile Butadiene Styrene) Pipes | ø 2"                      | FT   | 56       |            |       |             |
| 4                                                   | ABS (Acrylonitrile Butadiene Styrene) Pipes | ø 3"                      | FT   | 9        |            |       |             |
| 5                                                   | PEX (Cross-linked polyethylene) Pipes       | ø 1/2"                    | FT   | 101      |            |       |             |
| 6                                                   | PEX (Cross-linked polyethylene) Pipes       | ø 3/4"                    | FT   | 63       |            |       |             |
| 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   | 79       |            |       |             |
| 10                                                  | PVC Pipes Sch.80 - Rigid                    | ø 3"                      | FT   | 0        |            |       |             |
| 11                                                  | Flex Pipe Round                             | ø 1/2"                    | PCS  | 8        |            |       |             |
| 12                                                  | Flex Pipe Round                             | ø 3/4"                    | PCS  | 0        |            |       |             |
| 13                                                  | Flex Pipe Round                             | ø 1"                      | PCS  | 0        |            |       |             |
| <a href="#">PIPE FITTINGS</a>                       |                                             |                           |      |          |            |       |             |
| 1                                                   | ABS 90 Degree Bend Elbow                    | 1 1/2"ø-1 1/2"ø           | PCS  | 3        |            |       |             |
| 2                                                   | ABS 90 Degree Bend Elbow                    | 2"ø-2"ø                   | PCS  | 2        |            |       |             |
| 3                                                   | ABS 90 Degree Bend Elbow                    | 3"ø-3"ø                   | PCS  | 2        |            |       |             |
| 4                                                   | ABS Bend Long Sweep Elbow                   | 2"ø-2"ø                   | PCS  | 1        |            |       |             |
| 5                                                   | ABS P-Trap                                  | 1 1/2"ø-1 1/2"ø           | PCS  | 4        |            |       |             |
| 6                                                   | ABS P-Trap                                  | 2"ø-2"ø                   | PCS  | 1        |            |       |             |
| 7                                                   | ABS Reducer Elbow                           | 2"ø-1 1/2"ø               | PCS  | 3        |            |       |             |
| 8                                                   | ABS Reducer Elbow                           | 3"ø-2"ø                   | PCS  | 3        |            |       |             |
| 9                                                   | ABS TEE Elbow                               | 2"ø-2"ø-2"ø               | PCS  | 2        |            |       |             |
| 10                                                  | ABS TEE Elbow                               | 3"ø-3"ø-3"ø               | PCS  | 1        |            |       |             |
| 11                                                  | ABS Trap P                                  | 2"ø-2"ø                   | PCS  | 1        |            |       |             |
| 12                                                  | ABS Vent Cap Elbow                          | 2"ø                       | PCS  | 3        |            |       |             |
| 13                                                  | ABS WASTE DOUBLE TEE                        | 1 1/2"ø-1 1/2"ø-1 1/2"ø-1 | PCS  | 1        |            |       |             |
| 14                                                  | ABS WASTE DOUBLE TEE                        | 2"ø-2"ø-2"ø-2"ø           | PCS  | 1        |            |       |             |
| 15                                                  | ABS WASTE DOUBLE TEE                        | 3"ø-3"ø-3"ø-3"ø           | PCS  | 1        |            |       |             |
| 16                                                  | ABS Wye Combination with 8th Bend Elbow     | 2"ø-2"ø-1 1/2"ø           | PCS  | 1        |            |       |             |
| 17                                                  | ABS Wye Combination with 8th Bend Elbow     | 3"ø-3"ø-1 1/2"ø           | PCS  | 1        |            |       |             |
| 18                                                  | ABS Wye Combination with 8th Bend Elbow     | 3"ø-3"ø-2"ø               | PCS  | 1        |            |       |             |
| 19                                                  | ABS Wye Combination with 8th Bend Elbow     | 3"ø-3"ø-3"ø               | PCS  | 1        |            |       |             |
| 20                                                  | Bend Rain Water System                      | 2"ø-2"ø                   | PCS  | 20       |            |       |             |
| 21                                                  | Bend Sewerage System                        | 2"ø-2"ø                   | PCS  | 7        |            |       |             |
| 22                                                  | PEX 90 Degree Elbow                         | 1/2"ø-1/2"ø               | PCS  | 26       |            |       |             |
| 23                                                  | PEX 90 Degree Elbow                         | 3/4"ø-3/4"ø               | PCS  | 7        |            |       |             |
| 24                                                  | PEX Tee Elbow                               | 1/2"ø-1/2"ø-1/2"ø         | PCS  | 10       |            |       |             |
| 25                                                  | PEX Tee Elbow                               | 3/4"ø-3/4"ø-3/4"ø         | PCS  | 7        |            |       |             |
| 26                                                  | PEX Transition Elbow                        | 1"ø-3/4"ø                 | PCS  | 2        |            |       |             |
| 27                                                  | PEX Transition Elbow                        | 3/4"ø-1/2"ø               | PCS  | 12       |            |       |             |
| 28                                                  | PVC 90 Degree Bend Elbow                    | 2"ø-2"ø                   | PCS  | 3        |            |       |             |



# HVAC BOM

| Orion-2Bd 2Ba-Spanish-Tower                     |                          |                            |      |          |            |       |             |
|-------------------------------------------------|--------------------------|----------------------------|------|----------|------------|-------|-------------|
| HVAC SYSTEM MATERIAL SHOPPING LIST              |                          |                            |      |          |            |       |             |
| No.                                             | Item                     | Type                       | Unit | Quantity | Unit Price | Total | Description |
| <a href="#">HVAC_DUCTS</a>                      |                          |                            |      |          |            |       |             |
| 1                                               | PIPE (REFRIGERANT LINE)  | 1/4" (Ø)                   | FT   | 2.02     |            |       |             |
| 2                                               | PIPE (REFRIGERANT LINE)  | 3/8" (Ø)                   | FT   | 98.08    |            |       |             |
| 3                                               | PIPE (REFRIGERANT LINE)  | 1/2" (Ø)                   | FT   | 0.68     |            |       |             |
| 4                                               | PIPE (REFRIGERANT LINE)  | 3/4" (Ø)                   | FT   | 122.23   |            |       |             |
| 5                                               | DRAYER HOSE              | 4" (Ø)                     | FT   | 3.1      |            |       |             |
| 6                                               | FLEX DUCT ROUND          | 4" (Ø)                     | FT   | 7.48     |            |       |             |
| <a href="#">DUCT FITTINGS &amp; ACCESSORIES</a> |                          |                            |      |          |            |       |             |
| 7                                               | ELBOW (REFRIGERANT LINE) | 1/2" (Ø)-1/2" (Ø)          | PCS  | 1        |            |       |             |
| 8                                               | ELBOW (REFRIGERANT LINE) | 1/4" (Ø)-1/4" (Ø)          | PCS  | 3        |            |       |             |
| 9                                               | ELBOW (REFRIGERANT LINE) | 3/4" (Ø)-3/4" (Ø)          | PCS  | 28       |            |       |             |
| 10                                              | ELBOW (REFRIGERANT LINE) | 3/8" (Ø)-3/8" (Ø)          | PCS  | 21       |            |       |             |
| 11                                              | TEE (REFRIGERANT LINE)   | 3/4" (Ø)-3/4" (Ø)-3/4" (Ø) | PCS  | 2        |            |       |             |
| 12                                              | TEE (REFRIGERANT LINE)   | 3/8" (Ø)-3/8" (Ø)-3/8" (Ø) | PCS  | 2        |            |       |             |
| 13                                              | TRANSITION (REFRIGERANT  | 3/4" (Ø)-1/2" (Ø)          | PCS  | 4        |            |       |             |
| 14                                              | TRANSITION (REFRIGERANT  | 3/4" (Ø)-5/8" (Ø)          | PCS  | 3        |            |       |             |
| 15                                              | TRANSITION (REFRIGERANT  | 3/8" (Ø)-1/4" (Ø)          | PCS  | 1        |            |       |             |
| <a href="#">HVAC_EQUIPMENTS</a>                 |                          |                            |      |          |            |       |             |
| 16                                              | AIR HANDLING UNIT        | WALL MOUNTED               | PCS  | 3        |            |       |             |
| 17                                              | CONDENSER                | OUTDOOR UNIT               | PCS  | 1        |            |       |             |
| 18                                              | EXHAUST FAN              | 75 CFM                     | PCS  | 2        |            |       |             |
| 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  | 2        |            |       |             |





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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

|   |                                                                                                                                                                                                                                                                                                                  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.       |



# ELECTRICAL BOM

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



# ELECTRICAL BOM



| ELECTRICAL FITTINGS |                          |      |                              |      |          |            |       |
|---------------------|--------------------------|------|------------------------------|------|----------|------------|-------|
| #                   | Item                     | Type | Description,Manufacturer,SKU | Unit | Quantity | Unit Price | Total |
| 1                   | Standard Receptacle 120V | 20A  |                              | PCS  | 15       |            |       |
| 2                   | GFCI Receptacle 120V     | 20 A |                              | PCS  | 13       |            |       |
| 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  | 2        |            |       |
| 7                   | Single Pole Switch       |      |                              | PCS  | 6        |            |       |
| 8                   | Three Way Switch         |      |                              | PCS  | 7        |            |       |
| 9                   | Dimmer Switch            |      |                              | PCS  | 6        |            |       |
| 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   | 114      |            |       |
| 3                            | ROMEX 12 AWG                  | 12/3/W/ground |                              | FT   | 517      |            |       |
| 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   | 57       |            |       |
| 9                            | Romex 8 AWG                   | 8/3/W/ground  |                              | FT   | 0        |            |       |
| 10                           | Romex 8 AWG                   | 8/2/W/ground  |                              | FT   | 43       |            |       |
| 11                           | ROMEX 6 AWG                   | 6/3/W/ground  |                              | FT   | 43       |            |       |
| 12                           | Bare Copper Ground Wire 6 AWG |               |                              | FT   |          |            |       |
| 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  | 2        |            |       |
| 3                           | Circuit breaker              | 20 A    |                              | PCS  | 11       |            |       |
| 4                           | Circuit breaker              | 30 A    |                              | PCS  | 2        |            |       |
| 5                           | Circuit breaker              | 50 A    |                              | PCS  | 1        |            |       |
| 6                           | Circuit breaker              | 60 A    |                              | PCS  | 1        |            |       |
| 7                           | Single Gang Switch Box       |         |                              | PCS  | 8        |            |       |
| 8                           | Double Gang Switch Box       |         |                              | PCS  | 3        |            |       |
| 9                           | Triple Gang Switch Box       |         |                              | PCS  | 2        |            |       |
| 10                          | Pull Box                     | #1/4    |                              | PCS  | 28       |            |       |
| 11                          | Receptacle Box               |         |                              | PCS  | 32       |            |       |
| 12                          |                              |         |                              |      |          |            |       |
| 13                          |                              |         |                              |      |          |            |       |
| 14                          |                              |         |                              |      |          |            |       |
| 15                          |                              |         |                              |      |          |            |       |



# HVAC BOM

| HVAC_DUCTS 01 |                         |          |                                |      |          |            |       |
|---------------|-------------------------|----------|--------------------------------|------|----------|------------|-------|
| #             | Item                    | Type     | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
| 1             | PIPE (REFRIGERANT LINE) | 1/4" (Ø) |                                | FT   | 2.02     |            |       |
| 2             | PIPE (REFRIGERANT LINE) | 3/8" (Ø) |                                | FT   | 98.08    |            |       |
| 3             | PIPE (REFRIGERANT LINE) | 1/2" (Ø) |                                | FT   | 0.68     |            |       |
| 4             | PIPE (REFRIGERANT LINE) | 3/4" (Ø) |                                | FT   | 122.23   |            |       |
| 5             | DRAYER HOSE             | 4" (Ø)   |                                | FT   | 3.1      |            |       |
| 6             | FLEX DUCT ROUND         | 4" (Ø)   |                                | FT   | 7.48     |            |       |
| 7             |                         |          |                                |      |          |            |       |
| 8             |                         |          |                                |      |          |            |       |
| 9             |                         |          |                                |      |          |            |       |
| 10            |                         |          |                                |      |          |            |       |
| 11            |                         |          |                                |      |          |            |       |
| 12            |                         |          |                                |      |          |            |       |
| 13            |                         |          |                                |      |          |            |       |
| 14            |                         |          |                                |      |          |            |       |
| 15            |                         |          |                                |      |          |            |       |
| 16            |                         |          |                                |      |          |            |       |

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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  | 3        |            |       |
| 2  | CONDENSER         | OUTDOOR UNIT    |                                | PCS  | 1        |            |       |
| 3  | EXHAUST FAN       | 75 CFM          |                                | PCS  | 2        |            |       |
| 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  | 2        |            |       |
| 8  |                   |                 |                                |      |          |            |       |
| 9  |                   |                 |                                |      |          |            |       |
| 10 |                   |                 |                                |      |          |            |       |
| 11 |                   |                 |                                |      |          |            |       |
| 12 |                   |                 |                                |      |          |            |       |
| 13 |                   |                 |                                |      |          |            |       |
| 14 |                   |                 |                                |      |          |            |       |
|    |                   |                 |                                |      |          |            |       |
|    |                   |                 |                                |      |          |            |       |

# PLUMBING BOM



| <div>  <b>PLUMBING FIXTURES &amp; ACCESSORIES</b> </div> |                                    |      |                                |      |          |            |       |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|--------------------------------|------|----------|------------|-------|
| #                                                                                                                                         | 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  | 12       |            |       |
| 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        |            |       |



# PLUMBING BOM



| <div>  <b>SANITARY &amp; PLUMBING PIPES</b> </div> |                                             |          |                                |      |          |            |       |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------|--------------------------------|------|----------|------------|-------|
| #                                                                                                                                   | 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   | 13       |            |       |
| 3                                                                                                                                   | ABS (Acrylonitrile Butadiene Styrene) Pipes | ø 2"     |                                | FT   | 56       |            |       |
| 4                                                                                                                                   | ABS (Acrylonitrile Butadiene Styrene) Pipes | ø 3"     |                                | FT   | 9        |            |       |
| 5                                                                                                                                   | PEX (Cross-linked polyethylene) Pipes       | ø 1/2"   |                                | FT   | 101      |            |       |
| 6                                                                                                                                   | PEX (Cross-linked polyethylene) Pipes       | ø 3/4"   |                                | FT   | 63       |            |       |
| 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   | 79       |            |       |
| 10                                                                                                                                  | PVC Pipes Sch.80 - Rigid                    | ø 3"     |                                | FT   | 0        |            |       |
| 11                                                                                                                                  | Flex Pipe Round                             | ø 1/2"   |                                | FT   | 8        |            |       |
| 12                                                                                                                                  | Flex Pipe Round                             | ø 3/4"   |                                | FT   | 0        |            |       |
| 13                                                                                                                                  | Flex Pipe Round                             | ø 1"     |                                | FT   | 0        |            |       |
| 14                                                                                                                                  |                                             |          |                                |      |          |            |       |
| 15                                                                                                                                  |                                             |          |                                |      |          |            |       |

# 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  | 3        |            |       |
| 2                | ABS 90 Degree Bend Elbow  | 2"Ø-2"Ø                         |                                | PCS  | 2        |            |       |
| 3                | ABS 90 Degree Bend Elbow  | 3"Ø-3"Ø                         |                                | PCS  | 2        |            |       |
| 4                | ABS Bend Long Sweep Elbow | 2"Ø-2"Ø                         |                                | PCS  | 1        |            |       |
| 5                | ABS P-Trap                | 1 1/2"Ø-1 1/2"Ø                 |                                | PCS  | 4        |            |       |
| 6                | ABS P-Trap                | 2"Ø-2"Ø                         |                                | PCS  | 1        |            |       |
| 7                | ABS Reducer Elbow         | 2"Ø-1 1/2"Ø                     |                                | PCS  | 3        |            |       |
| 8                | ABS Reducer Elbow         | 3"Ø-2"Ø                         |                                | PCS  | 3        |            |       |
| 9                | ABS TEE Elbow             | 2"Ø-2"Ø-2"Ø                     |                                | PCS  | 2        |            |       |
| 10               | ABS TEE Elbow             | 3"Ø-3"Ø-3"Ø                     |                                | PCS  | 1        |            |       |
| 11               | ABS Trap P                | 2"Ø-2"Ø                         |                                | PCS  | 1        |            |       |
| 12               | ABS Vent Cap Elbow        | 2"Ø                             |                                | PCS  | 3        |            |       |
| 13               | ABS WASTE DOUBLE TEE      | 1 1/2"Ø-1 1/2"Ø-1 1/2"Ø-1 1/2"Ø |                                | PCS  | 1        |            |       |
| 14               | ABS WASTE DOUBLE TEE      | 2"Ø-2"Ø-2"Ø-2"Ø                 |                                | PCS  | 1        |            |       |
| 15               | ABS WASTE DOUBLE TEE      | 3"Ø-3"Ø-3"Ø-3"Ø                 |                                | PCS  | 1        |            |       |



# PLUMBING BOM



| <div>  <b>PIPE FITTINGS 02</b> </div> |                                         |                   |                                |      |          |            |       |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|--------------------------------|------|----------|------------|-------|
| #                                                                                                                      | Item                                    | Type              | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
| 1                                                                                                                      | ABS Wye Combination with 8th Bend Elbow | 2"Ø-2"Ø-1 1/2"Ø   |                                | PCS  | 1        |            |       |
| 2                                                                                                                      | ABS Wye Combination with 8th Bend Elbow | 3"Ø-3"Ø-1 1/2"Ø   |                                | PCS  | 1        |            |       |
| 3                                                                                                                      | ABS Wye Combination with 8th Bend Elbow | 3"Ø-3"Ø-2"Ø       |                                | PCS  | 1        |            |       |
| 4                                                                                                                      | ABS Wye Combination with 8th Bend Elbow | 3"Ø-3"Ø-3"Ø       |                                | PCS  | 1        |            |       |
| 5                                                                                                                      | Bend Rain Water System                  | 2"Ø-2"Ø           |                                | PCS  | 20       |            |       |
| 6                                                                                                                      | Bend Sewerage System                    | 2"Ø-2"Ø           |                                | PCS  | 7        |            |       |
| 7                                                                                                                      | PEX 90 Degree Elbow                     | 1/2"Ø-1/2"Ø       |                                | PCS  | 26       |            |       |
| 8                                                                                                                      | PEX 90 Degree Elbow                     | 3/4"Ø-3/4"Ø       |                                | PCS  | 7        |            |       |
| 9                                                                                                                      | PEX Tee Elbow                           | 1/2"Ø-1/2"Ø-1/2"Ø |                                | PCS  | 10       |            |       |
| 10                                                                                                                     | PEX Tee Elbow                           | 3/4"Ø-3/4"Ø-3/4"Ø |                                | PCS  | 7        |            |       |
| 11                                                                                                                     | PEX Transition Elbow                    | 1"Ø-3/4"Ø         |                                | PCS  | 2        |            |       |
| 12                                                                                                                     | PEX Transition Elbow                    | 3/4"Ø-1/2"Ø       |                                | PCS  | 12       |            |       |
| 13                                                                                                                     | PVC 90 Degree Bend Elbow                | 2"Ø-2"Ø           |                                | PCS  | 3        |            |       |
| 14                                                                                                                     |                                         |                   |                                |      |          |            |       |
| 15                                                                                                                     |                                         |                   |                                |      |          |            |       |



| 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   | 16.23    |            |       |
| 2            | Laundry Cabinet     |      |                                | FT   | 2.25     |            |       |
| 3            | Vanity Cabinet      |      |                                | FT   | 2.5      |            |       |
| 4            | Medicine Cabinet    |      |                                | PCS  | 2        |            |       |
| 5            | Kitchen countertop  |      |                                | SF   | 25.55    |            |       |
| 6            | Laundry Countertop  |      |                                | PCS  | 1        |            |       |
| 7            | Bathroom Countertop |      |                                | SF   | 0        |            |       |
| 8            | Island              |      |                                | FT   | 0        |            |       |
| 9            | Peninsula           |      |                                | FT   | 0        |            |       |
| 10           | Closets             |      |                                | SF   | 140.31   |            |       |
| 11           |                     |      |                                |      |          |            |       |
| 12           |                     |      |                                |      |          |            |       |
| 13           |                     |      |                                |      |          |            |       |
| 14           |                     |      |                                |      |          |            |       |
| 15           |                     |      |                                |      |          |            |       |

# ARCHITECTURAL BOM



| CEILING 01 |                         |                                  |                                |      |          |            |       |
|------------|-------------------------|----------------------------------|--------------------------------|------|----------|------------|-------|
| #          | Item                    | Type                             | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|            | LIVING ROOM AND KITCHEN |                                  |                                | SF   | 291.0    |            |       |
| 1          | Ceiling Board           | Drywall                          |                                | SF   | 291      |            |       |
| 2          | Drywall Fastener        | Screw                            |                                | PCS  | 509      |            |       |
| 3          | Vapor Retarder          | Polyethylene film                |                                | SF   | 291      |            |       |
| 4          | Vapor Retarder Fastener | Nails with washer heads          |                                | PCS  | 873      |            |       |
|            | BATHROOM 1              |                                  |                                | SF   | 45.0     |            |       |
| 5          | Ceiling Board           | MRD (Moisture resistant drywall) |                                | SF   | 45       |            |       |
| 6          | MRD Fastener            | Screw                            |                                | PCS  | 79       |            |       |
|            | BATHROOM 2              |                                  |                                | SF   | 45.0     |            |       |
| 7          | Ceiling Board           | MRD (Moisture resistant drywall) |                                | SF   | 45       |            |       |
| 8          | MRD Fastener            | Screw                            |                                | PCS  | 79       |            |       |
|            | W/H                     |                                  |                                | SF   | 8.0      |            |       |
| 9          | Ceiling Board           | Drywall                          |                                | SF   | 8        |            |       |
| 10         | Drywall Fastener        | Screw                            |                                | PCS  | 14       |            |       |
| 11         | Vapor Retarder          | Polyethylene film                |                                | SF   | 8        |            |       |
| 12         | Vapor Retarder Fastener | Nails with washer heads          |                                | PCS  | 24       |            |       |
|            |                         |                                  |                                |      |          |            |       |
|            |                         |                                  |                                |      |          |            |       |



# ARCHITECTURAL BOM



| CEILING 02 |                         |                         |                                |      |          |            |       |
|------------|-------------------------|-------------------------|--------------------------------|------|----------|------------|-------|
| #          | Item                    | Type                    | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|            | W/D                     |                         |                                | SF   | 10.0     |            |       |
| 13         | Ceiling Board           | Drywall                 |                                | SF   | 10       |            |       |
| 14         | Drywall Fastener        | Screw                   |                                | PCS  | 18       |            |       |
| 15         | Vapor Retarder          | Polyethylene film       |                                | SF   | 10       |            |       |
| 16         | Vapor Retarder Fastener | Nails with washer heads |                                | PCS  | 30       |            |       |
|            | BEDROOM 1               |                         |                                | SF   | 170.0    |            |       |
| 17         | Ceiling Board           | Drywall                 |                                | SF   | 170      |            |       |
| 18         | Drywall Fastener        | Screw                   |                                | PCS  | 298      |            |       |
| 19         | Vapor Retarder          | Polyethylene film       |                                | SF   | 170      |            |       |
| 20         | Vapor Retarder Fastener | Nails with washer heads |                                | PCS  | 510      |            |       |
|            | BEDROOM 2               |                         |                                | SF   | 92.0     |            |       |
| 21         | Ceiling Board           | Drywall                 |                                | SF   | 92       |            |       |
| 22         | Drywall Fastener        | Screw                   |                                | PCS  | 161      |            |       |
| 23         | Vapor Retarder          | Polyethylene film       |                                | SF   | 92       |            |       |
| 24         | Vapor Retarder Fastener | Nails with washer heads |                                | PCS  | 276      |            |       |
|            |                         |                         |                                |      |          |            |       |
|            |                         |                         |                                |      |          |            |       |
|            |                         |                         |                                |      |          |            |       |

# ARCHITECTURAL BOM



| CEILING 03 |                         |                         |                                |      |          |            |       |
|------------|-------------------------|-------------------------|--------------------------------|------|----------|------------|-------|
| #          | Item                    | Type                    | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|            | CLOSET 1                |                         |                                | SF   | 23.0     |            |       |
| 25         | Ceiling Board           | Drywall                 |                                | SF   | 23       |            |       |
| 26         | Drywall Fastener        | Screw                   |                                | PCS  | 40       |            |       |
| 27         | Vapor Retarder          | Polyethylene film       |                                | SF   | 23       |            |       |
| 28         | Vapor Retarder Fastener | Nails with washer heads |                                | PCS  | 69       |            |       |
|            | CLOSET 2                |                         |                                | SF   | 23.0     |            |       |
| 29         | Ceiling Board           | Drywall                 |                                | SF   | 23       |            |       |
| 30         | Drywall Fastener        | Screw                   |                                | PCS  | 40       |            |       |
| 31         | Vapor Retarder          | Polyethylene film       |                                | SF   | 23       |            |       |
| 32         | Vapor Retarder Fastener | Nails with washer heads |                                | PCS  | 69       |            |       |
|            | CLOSET 3                |                         |                                | SF   | 11.0     |            |       |
| 33         | Ceiling Board           | Drywall                 |                                | SF   | 11       |            |       |
| 34         | Drywall Fastener        | Screw                   |                                | PCS  | 19       |            |       |
| 35         | Vapor Retarder          | Polyethylene film       |                                | SF   | 11       |            |       |
| 36         | Vapor Retarder Fastener | Nails with washer heads |                                | PCS  | 33       |            |       |



# ARCHITECTURAL BOM

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# ARCHITECTURAL BOM



| FLOORING INTERIOR 01 |                  |                            |                                |      |          |            |       |
|----------------------|------------------|----------------------------|--------------------------------|------|----------|------------|-------|
| #                    | Item             | Type                       | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
| BEDROOM 1            |                  |                            |                                |      |          |            |       |
| 1                    | Bedroom Flooring |                            |                                | SF   | 161      |            |       |
| 2                    | Wood underlay    | Foam Pad Polyethylene      |                                | SF   | 161      |            |       |
| 3                    | Vapor Retarder   | Vapor Barrier Polyethylene |                                | SF   | 161      |            |       |
| BEDROOM 2            |                  |                            |                                |      |          |            |       |
| 4                    | Bedroom Flooring |                            |                                | SF   | 170      |            |       |
| 5                    | Wood underlay    | Foam Pad Polyethylene      |                                | SF   | 170      |            |       |
| 6                    | Vapor Retarder   | Vapor Barrier Polyethylene |                                | SF   | 170      |            |       |
| CLOSET 1             |                  |                            |                                |      |          |            |       |
| 7                    | Closet Flooring  |                            |                                | SF   | 22       |            |       |
| 8                    | Wood underlay    | Foam Pad Polyethylene      |                                | SF   | 22       |            |       |
| 9                    | Vapor Retarder   | Vapor Barrier Polyethylene |                                | SF   | 22       |            |       |
| CLOSET 2             |                  |                            |                                |      |          |            |       |
| 10                   | Closet Flooring  |                            |                                | SF   | 22       |            |       |
| 11                   | Wood underlay    | Foam Pad Polyethylene      |                                | SF   | 22       |            |       |
| 12                   | Vapor Retarder   | Vapor Barrier Polyethylene |                                | SF   | 22       |            |       |



# ARCHITECTURAL BOM



| FLOORING INTERIOR 02 |                         |                            |                                |      |          |            |       |
|----------------------|-------------------------|----------------------------|--------------------------------|------|----------|------------|-------|
| #                    | Item                    | Type                       | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|                      | CLOSET 3                |                            |                                |      |          |            |       |
| 13                   | Closet Flooring         |                            |                                | SF   | 10       |            |       |
| 14                   | Wood underlay           | Foam Pad Polyethylene      |                                | SF   | 10       |            |       |
| 15                   | Vapor Retarder          | Vapor Barrier Polyethylene |                                | SF   | 10       |            |       |
|                      | LIVING ROOM AND KITCHEN |                            |                                |      |          |            |       |
| 16                   | Living Area Flooring    |                            |                                | SF   | 325      |            |       |
| 17                   | Wood underlay           | Foam Pad Polyethylene      |                                | SF   | 325      |            |       |
| 18                   | Vapor Retarder          | Vapor Barrier Polyethylene |                                | SF   | 325      |            |       |
|                      | BATHROOM 1              |                            |                                |      |          |            |       |
| 19                   | Tile Finish             |                            |                                | SF   | 29       |            |       |
| 20                   | Adhesive                | 1/2" Thin set Mortar       |                                | SF   | 29       |            |       |
| 21                   | Vapor Retarder          | Vapor Barrier Polyethylene |                                | SF   | 29       |            |       |
|                      | BATHROOM 2              |                            |                                |      |          |            |       |
| 22                   | Tile Finish             |                            |                                | SF   | 28       |            |       |
| 23                   | Adhesive                | 1/2" Thin set Mortar       |                                | SF   | 28       |            |       |
| 24                   | Vapor Retarder          | Vapor Barrier Polyethylene |                                | SF   | 28       |            |       |

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| FLOORING EXTERIOR |                |                            |                                |      |          |            |  |
|-------------------|----------------|----------------------------|--------------------------------|------|----------|------------|--|
| #                 | Item           | Type                       | Description, Manufacturer, SKU | Unit | Quantity | Unit Price |  |
|                   | STRUCTURE      |                            |                                | SF   | 1,254.72 |            |  |
| 1                 | Concrete Slab  | 4"concrete cast in situ    |                                | CF   | 418.24   |            |  |
| 2                 | Insulation     | Rigid insulation           |                                | SF   | 321.78   |            |  |
| 3                 | Hard core      | Compacted soil             |                                | CF   | 318.45   |            |  |
| 4                 | Re-bar         | #4 re-bar                  |                                | Ton  | 1.04     |            |  |
| 5                 | Concrete Pad   | 4"concrete cast in situ    |                                | CF   | 2        |            |  |
| 6                 | Slab edge      | Turndown                   |                                | CF   | 324.43   |            |  |
|                   | PORCH FRONT    |                            |                                |      |          |            |  |
| 7                 | Tile Finish    |                            |                                | SF   | 348.06   |            |  |
| 8                 | Adhesive       | 1/2" Thin set Mortar       |                                | SF   | 348.06   |            |  |
| 9                 | Vapor Retarder | Vapor Barrier Polyethylene |                                | SF   | 348.06   |            |  |
|                   |                |                            |                                |      |          |            |  |
|                   |                |                            |                                |      |          |            |  |
|                   |                |                            |                                |      |          |            |  |
|                   |                |                            |                                |      |          |            |  |
|                   |                |                            |                                |      |          |            |  |

# ARCHITECTURAL BOM



| WALLS: EXTERIOR |                         |                               |                                |      |          |            |       |
|-----------------|-------------------------|-------------------------------|--------------------------------|------|----------|------------|-------|
| #               | Item                    | Type                          | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
| 1               | Stucco Finish           |                               |                                | SF   | 1827     |            |       |
| 2               | Wall Shteathing (OSB)   |                               |                                | SF   | 1827     |            |       |
| 3               | Shteathing Fastener     | Self-drilling screws(100/pkt) |                                | PKT  | 18.27    |            |       |
| 4               | Wall Homewrap           |                               |                                | SF   | 1827     |            |       |
| 5               | Homewrap Fastener       | Stapled fastener (200/pkt)    |                                | PKT  | 7        |            |       |
| 6               | Wall Paint              |                               |                                | SF   | 1827.00  |            |       |
| 7               | Stone Copping           | Masonry stone                 |                                | SF   | 0.00     |            |       |
| 8               | Stone Veneer            | Masonry stone                 |                                | SF   | 0        |            |       |
| 9               | Mortar for Stone Veneer |                               |                                | SF   | 0        |            |       |
| 10              | Wall Insulation         |                               |                                | SF   | 3238     |            |       |
|                 |                         |                               |                                |      |          |            |       |
|                 |                         |                               |                                |      |          |            |       |
|                 |                         |                               |                                |      |          |            |       |
|                 |                         |                               |                                |      |          |            |       |
|                 |                         |                               |                                |      |          |            |       |



# ARCHITECTURAL BOM



| WALLS: INTERIOR 01 |                           |                               |                                |      |          |            |       |
|--------------------|---------------------------|-------------------------------|--------------------------------|------|----------|------------|-------|
| #                  | Item                      | Type                          | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|                    | BATHROOM 1                |                               |                                | SF   | 41.0     |            |       |
| 1                  | Cementitious Backer Board |                               |                                | SF   | 243      |            |       |
| 2                  | Kerdi membrane            |                               |                                | SF   | 243      |            |       |
| 3                  | Kerdi membrane Fastener   |                               |                                | SF   | 243      |            |       |
| 4                  | Wall Ceramic Tile         |                               |                                | SF   | 243      |            |       |
|                    | BATHROOM 2                |                               |                                | SF   | 42.0     |            |       |
| 5                  | Cementitious Backer Board |                               |                                | SF   | 205      |            |       |
| 6                  | Kerdi membrane            |                               |                                | SF   | 205      |            |       |
| 7                  | Kerdi membrane Fastener   |                               |                                | SF   | 205      |            |       |
| 8                  | Wall Ceramic Tile         |                               |                                | SF   | 205      |            |       |
|                    | BEDROOM 1                 |                               |                                | SF   | 172.0    |            |       |
| 9                  | Drywall Board             |                               |                                | SF   | 294      |            |       |
| 10                 | Drywall Fastener          | Self-drilling screws(100/pkt) |                                | PKT  | 2.94     |            |       |
| 11                 | Wall Paint                |                               |                                | SF   | 294      |            |       |
| 12                 | Drywall Tape              |                               |                                | FT   | 55.1     |            |       |

# ARCHITECTURAL BOM



| WALLS: INTERIOR 02 |                           |                               |                                |      |          |            |       |
|--------------------|---------------------------|-------------------------------|--------------------------------|------|----------|------------|-------|
| #                  | Item                      | Type                          | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|                    | BEDROOM 2                 |                               |                                | SF   | 159.0    |            |       |
| 13                 | Drywall Board             |                               |                                | SF   | 331      |            |       |
| 14                 | Drywall Fastener          | Self-drilling screws(100/pkt) |                                | PKT  | 3.31     |            |       |
| 15                 | Wall Paint                |                               |                                | SF   | 331      |            |       |
| 16                 | Drywall Tape              |                               |                                | FT   | 62.1     |            |       |
|                    | KITCHEN                   |                               |                                | SF   | 80.0     |            |       |
| 17                 | Cementitious Backer Board |                               |                                | SF   | 41       |            |       |
| 18                 | Drywall Board             |                               |                                | SF   | 152      |            |       |
| 19                 | Drywall Fastener          | Self-drilling screws(100/pkt) |                                | PKT  | 1.52     |            |       |
| 20                 | Kerdi membrane            |                               |                                | SF   | 41       |            |       |
| 21                 | Kerdi membrane Fastener   |                               |                                | SF   | 41       |            |       |
| 22                 | Wall Ceramic Tile         |                               |                                | SF   | 41       |            |       |
| 23                 | Wall Paint                |                               |                                | SF   | 152      |            |       |
| 24                 | Drywall Tape              |                               |                                | FT   | 28.7     |            |       |
|                    |                           |                               |                                |      |          |            |       |

# ARCHITECTURAL BOM



## WALLS: INTERIOR 03

| #  | Item             | Type                          | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|----|------------------|-------------------------------|--------------------------------|------|----------|------------|-------|
|    | LIVING ROOM      |                               |                                | SF   | 196.0    |            |       |
| 25 | Drywall Board    |                               |                                | SF   | 255      |            |       |
| 26 | Drywall Fastener | Self-drilling screws(100/pkt) |                                | PKT  | 2.55     |            |       |
| 27 | Wall Paint       |                               |                                | SF   | 255      |            |       |
| 28 | Drywall Tape     |                               |                                | FT   | 47.8     |            |       |
|    | CL 1             |                               |                                | SF   | 24.0     |            |       |
| 29 | Drywall Board    |                               |                                | SF   | 132      |            |       |
| 30 | Drywall Fastener | Self-drilling screws(100/pkt) |                                | PKT  | 1.32     |            |       |
| 31 | Wall Paint       |                               |                                | SF   | 132      |            |       |
| 32 | Drywall Tape     |                               |                                | FT   | 24.8     |            |       |
|    | CL 2             |                               |                                | SF   | 22.0     |            |       |
| 33 | Drywall Board    |                               |                                | SF   | 152      |            |       |
| 34 | Drywall Fastener | Self-drilling screws(100/pkt) |                                | PKT  | 1.52     |            |       |
| 35 | Wall Paint       |                               |                                | SF   | 152      |            |       |
| 36 | Drywall Tape     |                               |                                | FT   | 28.5     |            |       |



# ARCHITECTURAL BOM



## WALLS: INTERIOR 04

| #  | Item                      | Type                          | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
|----|---------------------------|-------------------------------|--------------------------------|------|----------|------------|-------|
|    | CL 3                      |                               |                                | SF   | 10.0     |            |       |
| 37 | Drywall Board             |                               |                                | SF   | 83       |            |       |
| 38 | Drywall Fastener          | Self-drilling screws(100/pkt) |                                | PKT  | 0.83     |            |       |
| 39 | Wall Paint                |                               |                                | SF   | 83       |            |       |
| 40 | Drywall Tape              |                               |                                | FT   | 15.6     |            |       |
|    | HALL                      |                               |                                | SF   | 51.0     |            |       |
| 41 | Drywall Board             |                               |                                | SF   | 193      |            |       |
| 42 | Drywall Fastener          | Self-drilling screws(100/pkt) |                                | PKT  | 1.93     |            |       |
| 43 | Wall Paint                |                               |                                | SF   | 193      |            |       |
| 44 | Drywall Tape              |                               |                                | FT   | 36       |            |       |
|    | WD                        |                               |                                | SF   | 9.0      |            |       |
| 45 | Cementitious Backer Board |                               |                                | SF   | 73       |            |       |
| 46 | Kerdi membrane            |                               |                                | SF   | 73       |            |       |
| 47 | Kerdi membrane Fastener   |                               |                                | SF   | 73       |            |       |
| 48 | Wall Ceramic Tile         |                               |                                | SF   | 73       |            |       |

[illegible]

# ARCHITECTURAL BOM



| #  | Item               | Type            | Description, Manufacturer, SKU | DOORS |          |            |       |
|----|--------------------|-----------------|--------------------------------|-------|----------|------------|-------|
|    |                    |                 |                                | Unit  | Quantity | Unit Price | Total |
| 1  | Exterior Swinging  | 3' - 0" X 6'-8" |                                | PCS   | 1        |            |       |
| 2  | Interior Swinging  | 3' - 0" X 6'-8" |                                | PCS   | 1        |            |       |
| 3  | Interior Sliding   | 9' - 0" X 6'-8" |                                | PCS   | 2        |            |       |
| 4  | Interior Swinging  | 2' - 6" X 6'-8" |                                | PCS   | 2        |            |       |
| 5  | Patio Sliding      | 5' - 0" X 6'-8" |                                | PCS   | 1        |            |       |
| 6  | Exterior Swinging  | 5' - 0" X 6'-8" |                                | PCS   | 1        |            |       |
| 7  | Interior Swinging  | 3' - 0" X 6'-8" |                                | PCS   | 1        |            |       |
| 8  | Folding            | 2' - 4" X 6'-8" |                                | PCS   | 1        |            |       |
| 9  | Interior Sliding   | 3' - 5" X 6'-8" |                                | PCS   | 1        |            |       |
| 10 | Exterior Door Trim |                 |                                | FT    | 53       |            |       |
| 11 | Interior Door Trim |                 |                                | FT    | 336      |            |       |
| 12 | Entry Lock set     |                 |                                | PCS   | 3        |            |       |
| 13 | Privacy Lock set   |                 |                                | PCS   | 4        |            |       |
| 14 | Passage Lock set   |                 |                                | PCS   | 4        |            |       |
| 15 |                    |                 |                                |       |          |            |       |



# ARCHITECTURAL BOM

[illegible]

ARCHITECTURAL BOM



| #  | ROOF 01                  |      |                                |      |          |            |       |
|----|--------------------------|------|--------------------------------|------|----------|------------|-------|
|    | Item                     | Type | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
| 1  | Roof Covering            |      |                                | SF   | 1163.0   |            |       |
| 2  | Roof Covering Fastener   |      |                                | PCS  | 581.5    |            |       |
| 3  | Roof Felt Paper          |      |                                | SF   | 1163.0   |            |       |
| 4  | Roof Felt Paper Fastener |      |                                | PCS  | 3489.0   |            |       |
| 5  | Roof Sheathing           |      |                                | SF   | 1163.0   |            |       |
| 6  | Roof Sheathing Fastener  |      |                                | PCS  | 9304.0   |            |       |
| 7  | Batten                   |      |                                | FT   | 586.0    |            |       |
| 8  | Batten Fastener          |      |                                | PCS  | 440.6    |            |       |
| 9  | Soffit                   |      |                                | SF   | 130.0    |            |       |
| 10 | Soffit Fastener          |      |                                | PCS  | 65.0     |            |       |
| 11 | Fascia                   |      |                                | FT   | 182.0    |            |       |
| 12 | Fascia board fastener    |      |                                | PCS  | 91.0     |            |       |
| 13 | Roof Insulation          |      |                                | SF   | 1163.0   |            |       |
|    |                          |      |                                |      |          |            |       |
|    |                          |      |                                |      |          |            |       |

# ARCHITECTURAL BOM



| #  | ROOF 02                  |      |                                |      |          |            |       |
|----|--------------------------|------|--------------------------------|------|----------|------------|-------|
|    | Item                     | Type | Description, Manufacturer, SKU | Unit | Quantity | Unit Price | Total |
| 1  | Roof Covering            |      |                                | SF   | 1163.0   |            |       |
| 2  | Roof Covering Fastener   |      |                                | PCS  | 582      |            |       |
| 3  | Roof Felt Paper          |      |                                | SF   | 1163.0   |            |       |
| 4  | Roof Felt Paper Fastener |      |                                | PCS  | 3489.0   |            |       |
| 5  | Roof Sheathing           |      |                                | SF   | 1163.0   |            |       |
| 6  | Roof Sheathing Fastener  |      |                                | PCS  | 9304     |            |       |
| 7  | Batten                   |      |                                | FT   | 0.0      |            |       |
| 8  | Batten Fastener          |      |                                | PCS  | 0.0      |            |       |
| 9  | Soffit                   |      |                                | SF   | 0.0      |            |       |
| 10 | Soffit Fastener          |      |                                | PCS  | 0.0      |            |       |
| 11 | Fascia                   |      |                                | FT   | 0.0      |            |       |
| 12 | Fascia board fastener    |      |                                | PCS  | 0        |            |       |
| 13 | Roof Insulation          |      |                                | SF   | 1163.0   |            |       |
| 14 |                          |      |                                |      |          |            |       |
| 15 |                          |      |                                |      |          |            |       |