



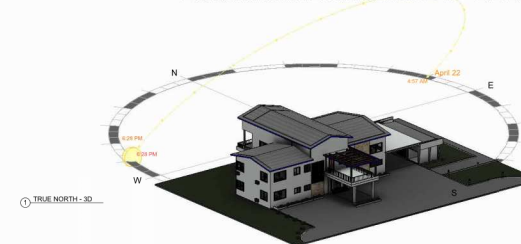
Project Status: construction Working Drawing
Date: March 4, 2026

PROPOSED RENOVATION OF A TWO (2) FLOORS RESIDENTIAL BUILDING

OWNER : BENSONVILLE CITY

DATE: MARCH 4, 2026

LOCATION: MONTSERRADO - LIBERIA.



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Grand total: 35	

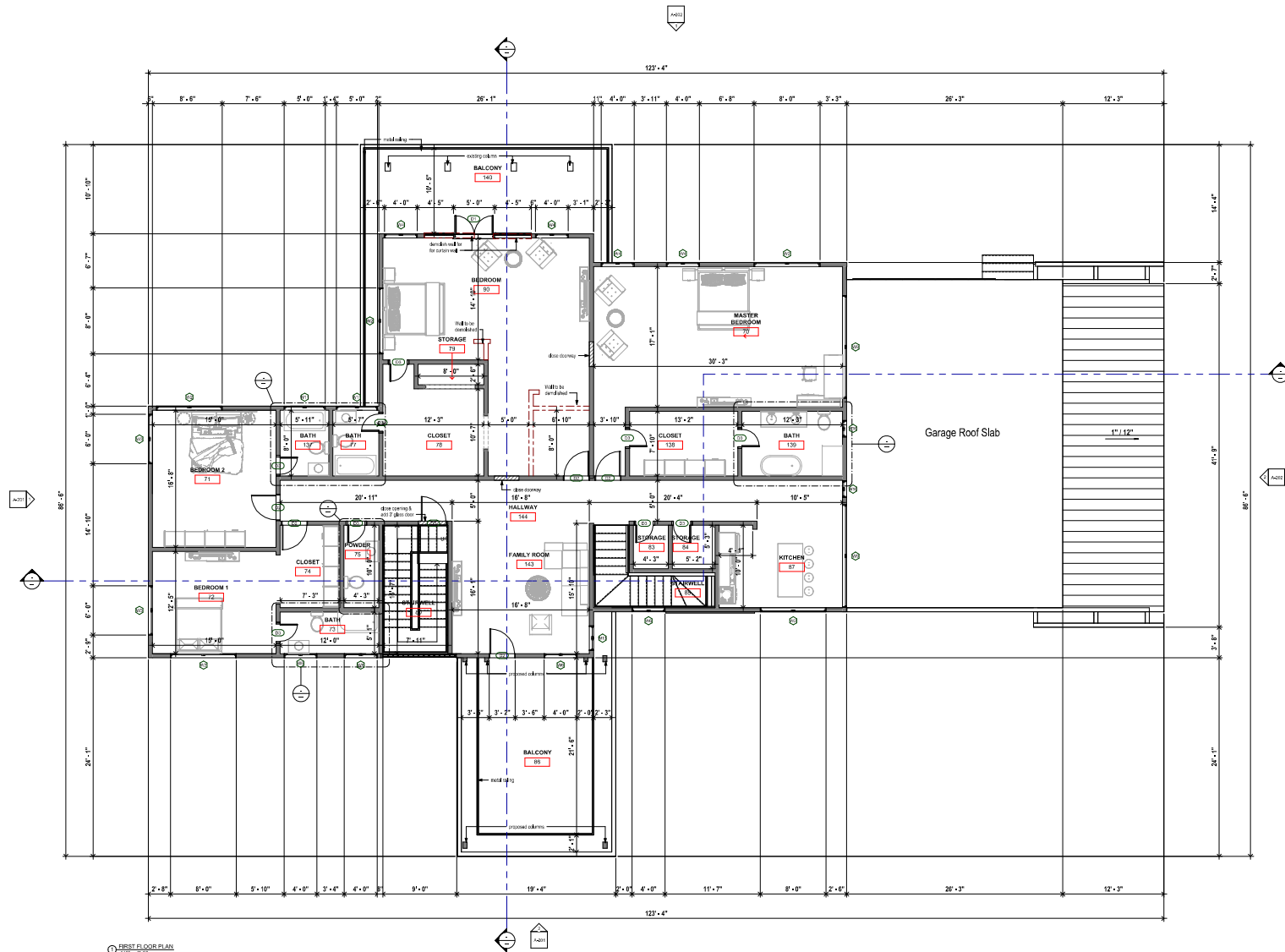




1. FIRST FLOOR PLAN
1/4" = 1'-0"



Wall Legend



Wall Legend	
	Existing CMU wall
	Demolished CMU wall
	Proposed CMU wall

Wall Legend
1/8" = 1'-0"

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



FURNITURE LAYOUT - GROUND FLOOR
1/4" = 1'-0"

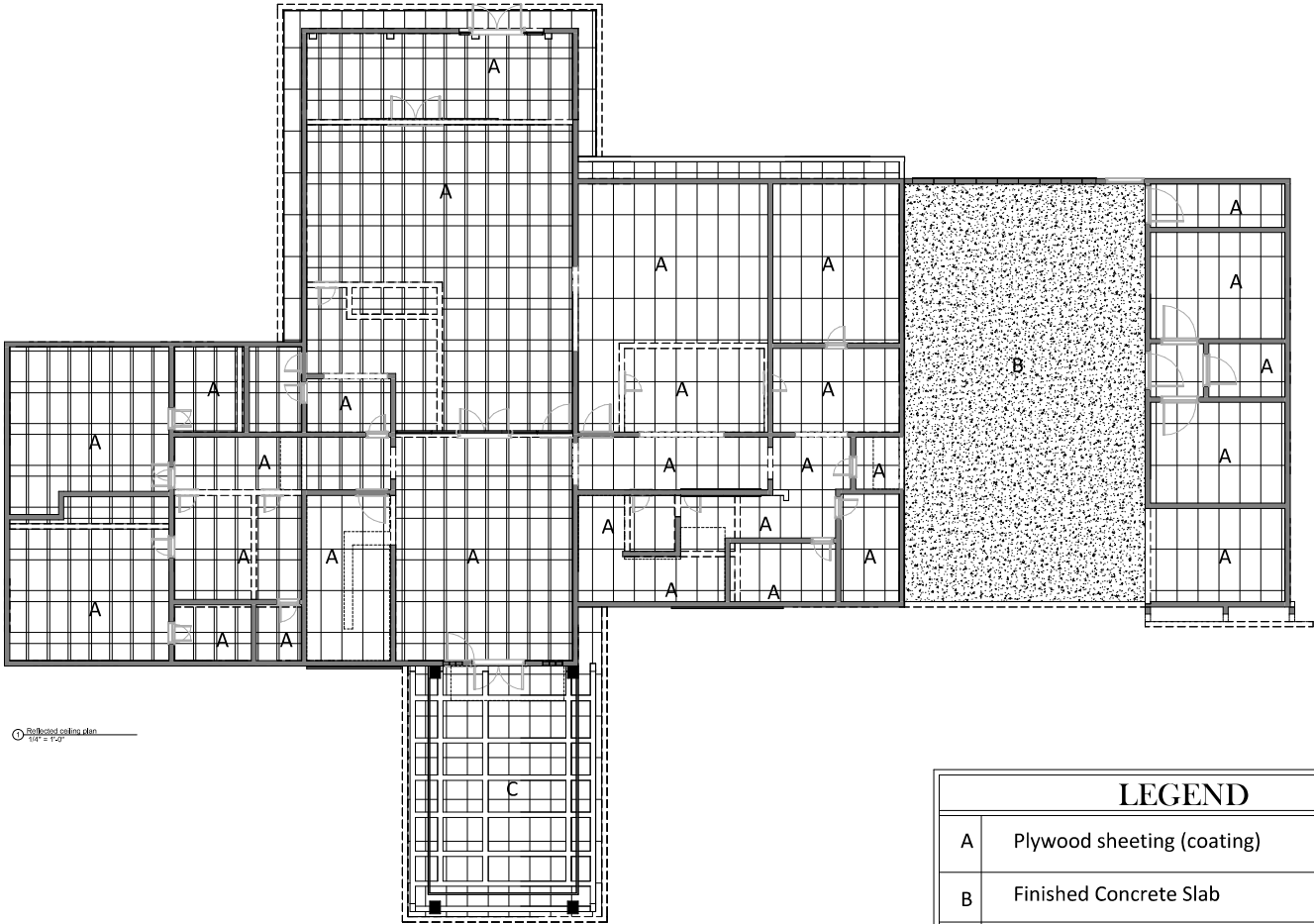
FURNITURE LEGEND
1/2" = 1'-0"



FURNITURE LAYOUT - FIRST FLOOR
1/4" = 1'-0"

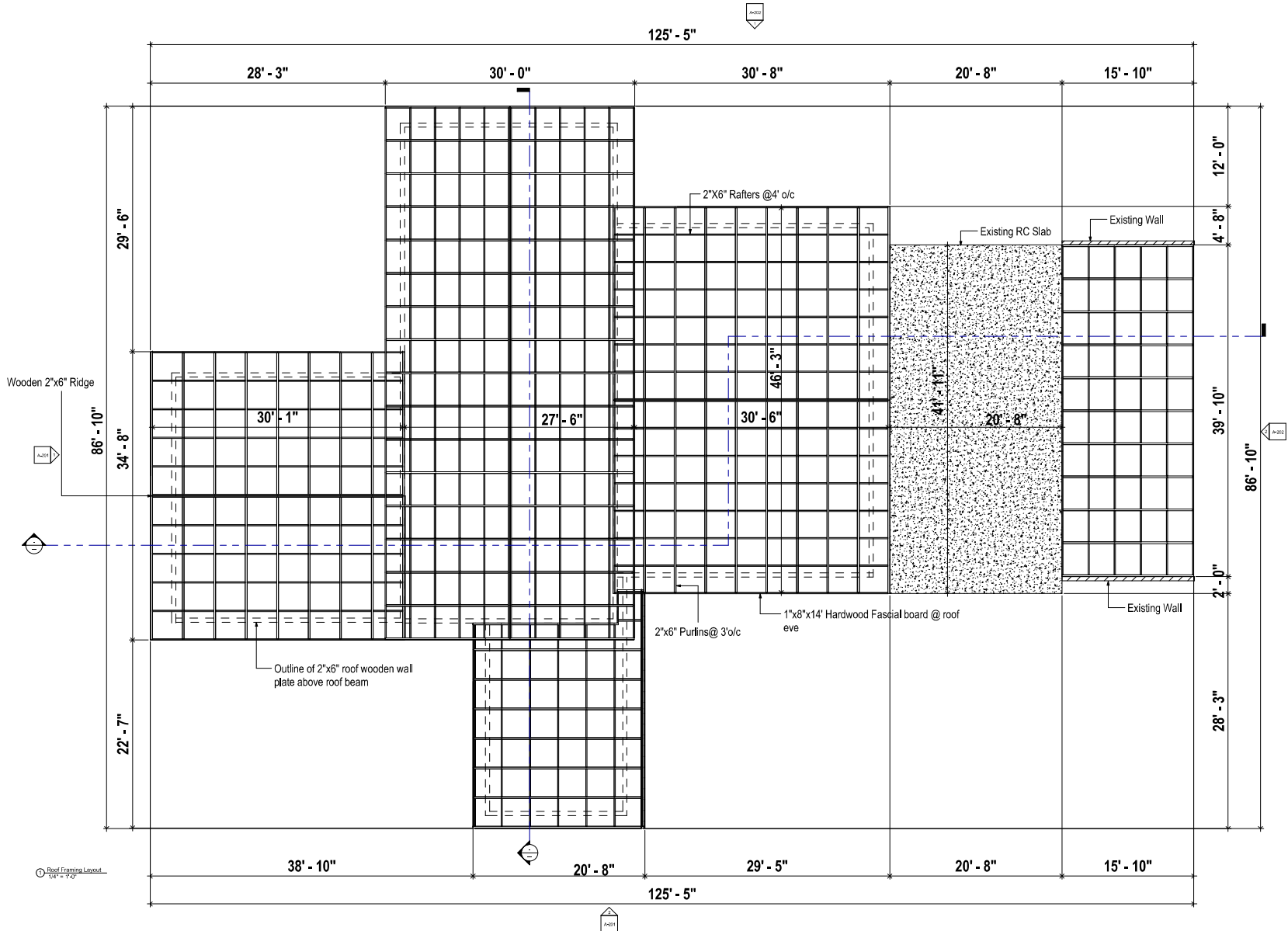
FURNITURE LEGEND		
TAG	DESCRIPTION	COMMENT
A	King sized bed (to owner's spec.)	
B	coffee table (to owner's spec.)	
C	sofa (to owner's spec.)	
D	Television Stand (to owner's spec.)	
E	Workstation (to owner's spec.)	
F	Built-in closet	
G	Wardrobe	
H	Built-in countertop	
I	Stool (to owner's spec.)	
J	Wall Mounted cabinet	
K	Cabinet	
L	Dining set (to owner's spec.)	
M	Full size bed (to owner's spec.)	
L	Drawer (to owner's spec.)	

FURNITURE LEGEND
1/2" = 1'-0"



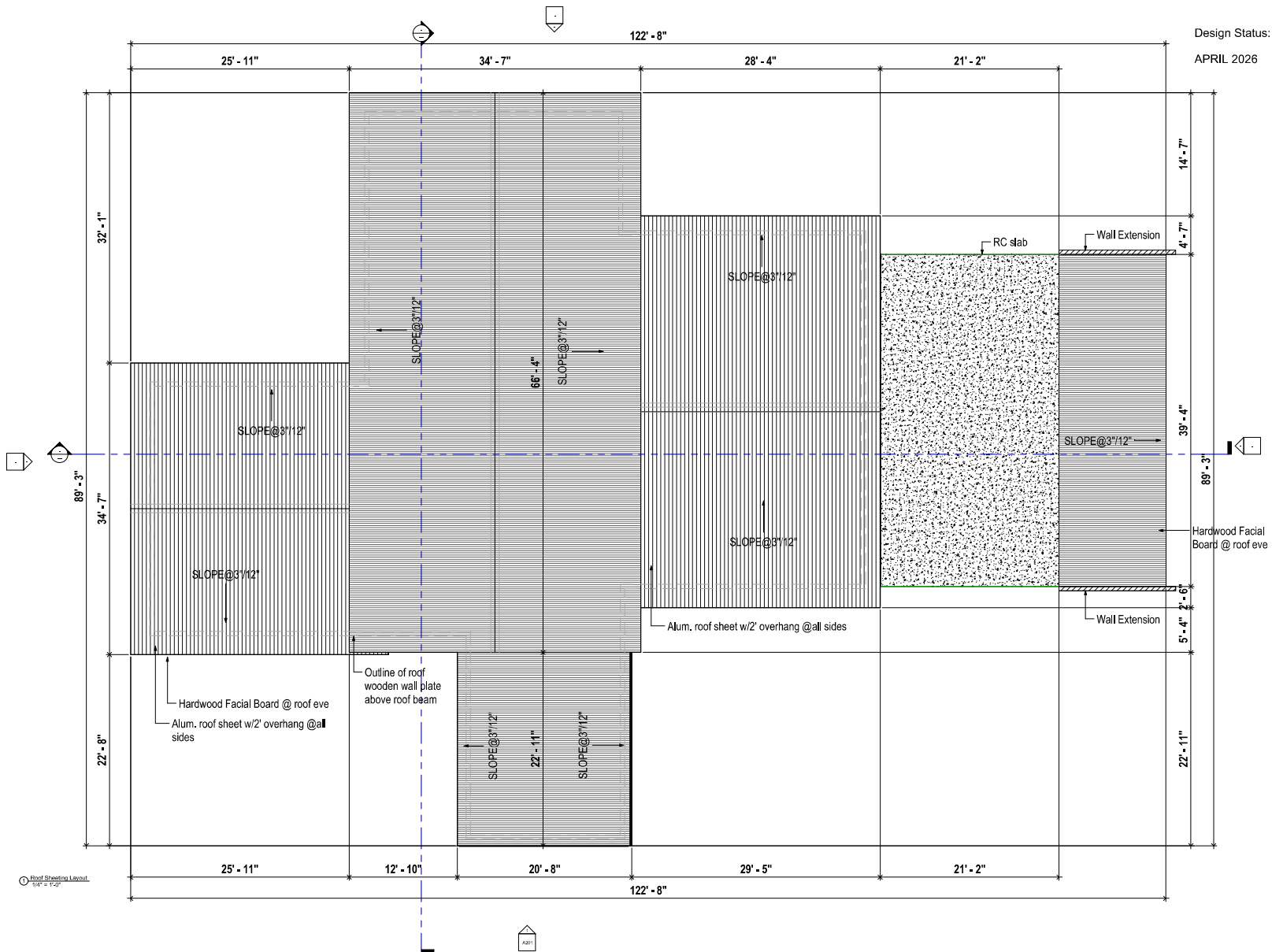
① Reflected ceiling plan
1/4" = 1'-0"

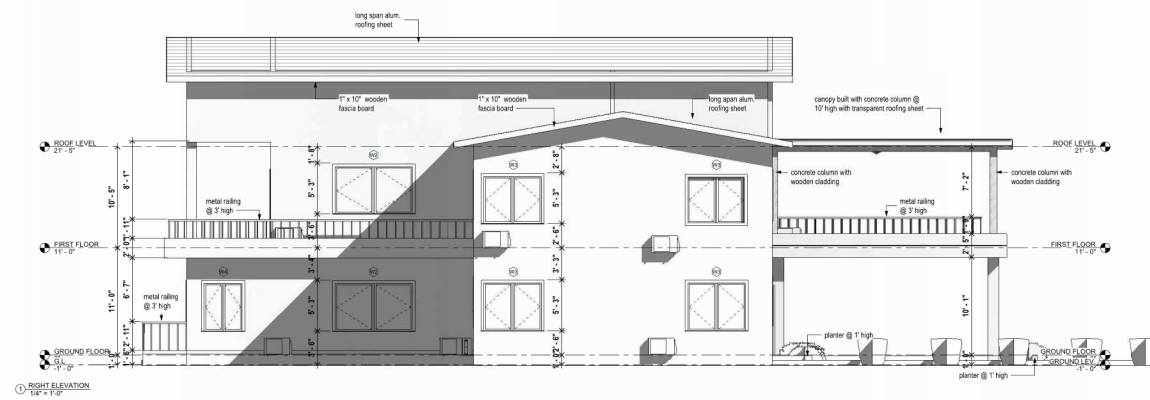
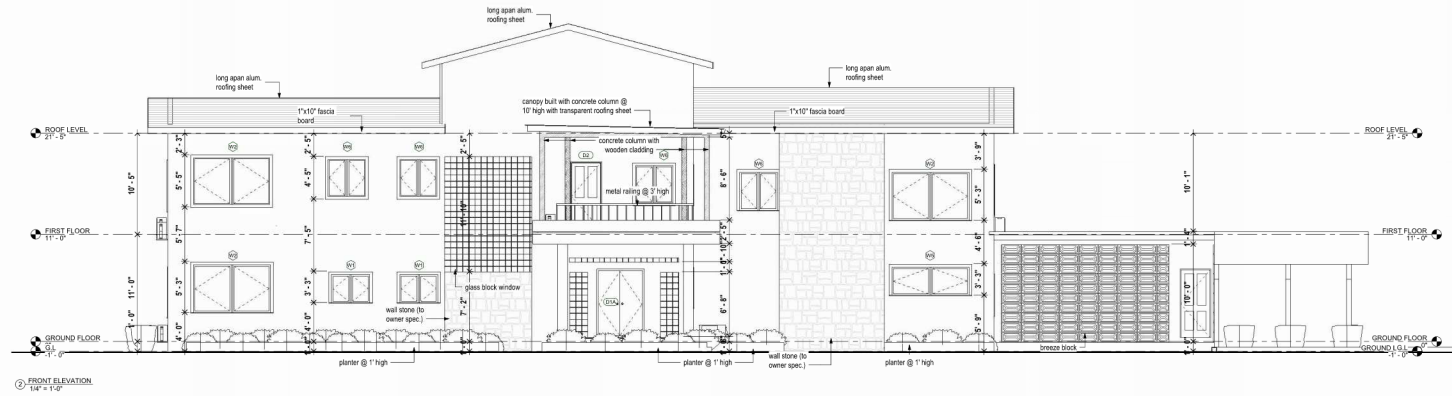
LEGEND	
A	Plywood sheeting (coating)
B	Finished Concrete Slab
C	Wooden Frame

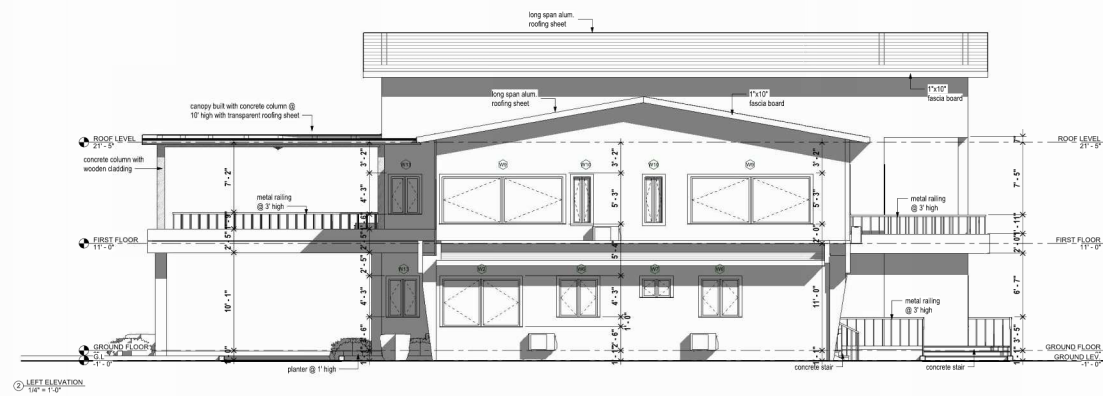


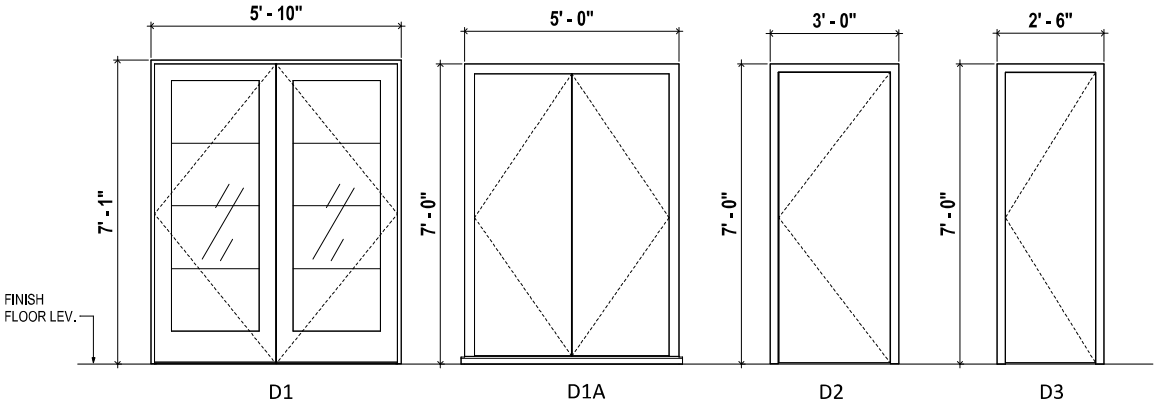
Design Status: RENOVATION DWG.

APRIL 2026





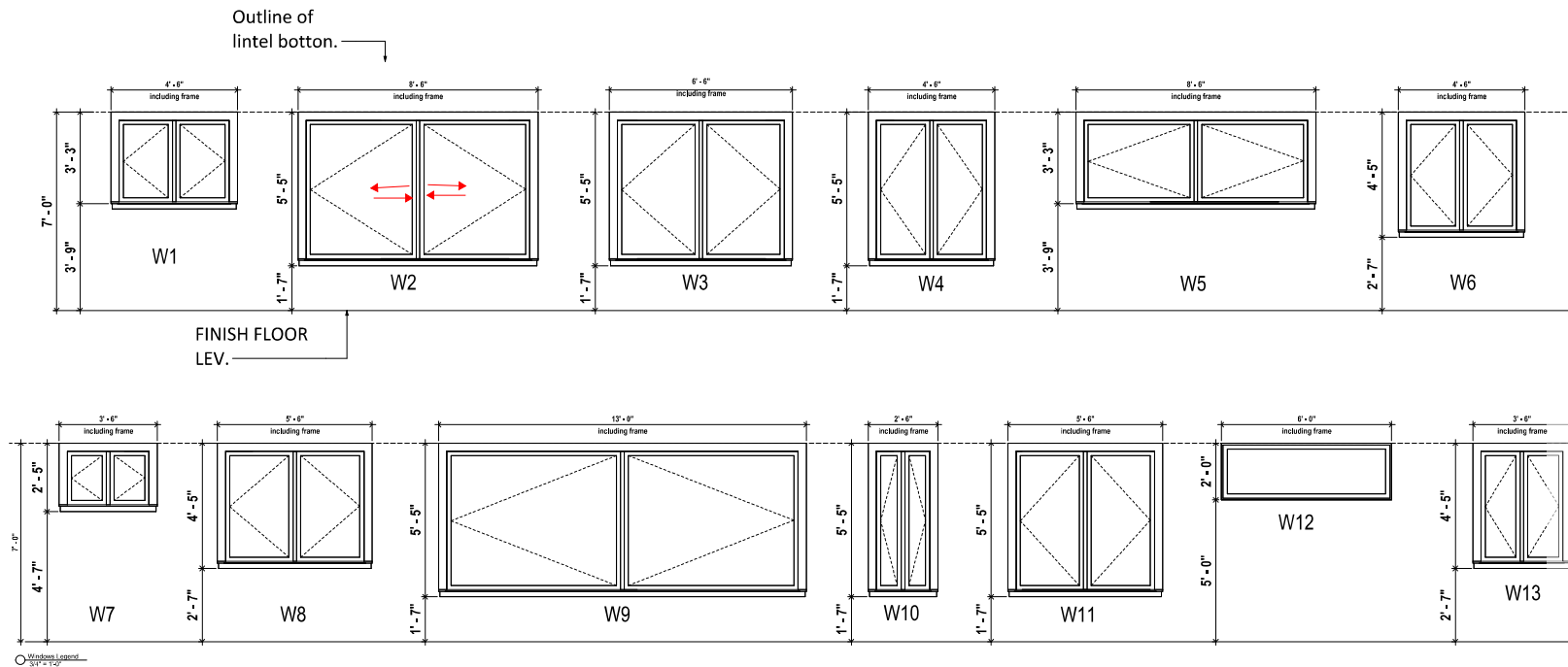




○ Doors Legend
1" = 1'-0"

Door Schedule						
Type Mark	Width	Height	Count	Description	Frame Material	Finish
D1	5' - 8"	7' - 0"	1	Double Exterior full glass door	Hardwood	Hardwood polish
D1A	5' - 0"	7' - 0"	4	Exterior Double Flush door in curtain wall	Hardwood	Hardwood polish
D2	3' - 0"	6' - 11"	19	Hardwood Panel Door	Hardwood	Hardwood polish
D3	2' - 6"	7' - 0"	22	Plywood door (single)	Plywood	Plywood polish

Grand total: 46



Window Schedule

Type Mark	Width	Height	Count	Description	Keynote
W1	4' - 0"	3' - 0"	4	Vision glass in alu. sliding frame window	with security guard bar within building
W2	8' - 0"	5' - 0"	12	Vision glass in alu. sliding frame window	with security guard bar within building
W3	6' - 0"	5' - 0"	4	Vision glass in alu. sliding frame window	with security guard bar within building
W4	4' - 0"	5' - 0"	6	Vision glass in alu. sliding frame window	with security guard bar within building
W5	8' - 0"	3' - 0"	1	Vision glass in alu. sliding frame window	with security guard bar within building
W6	4' - 0"	4' - 0"	6	Vision glass in alu. sliding frame window	with security guard bar within building
W7	3' - 0"	2' - 0"	1	Vision glass in alu. sliding frame window	with security guard bar within building
W8	5' - 0"	4' - 0"	3	Vision glass in alu. sliding frame window	with security guard bar within building
W9	12' - 0"	5' - 0"	2	Vision glass in alu. sliding frame window	with security guard bar within building
W10	2' - 0"	5' - 0"	2	Vision glass in alu. sliding frame window	with security guard bar within building
W11	5' - 0"	5' - 0"	2	Vision glass in alu. sliding frame window	with security guard bar within building
W12	6' - 0"	2' - 0"	1	fixed glass in alu. frame window	
W13	3' - 0"	4' - 0"	2	Vision glass in alu. sliding frame window	with security guard bar within building

ELECTRICAL COVER PAGE

PROJECT STATUS: CONSTRUCTION WORKING
DRAWING. DATE: 04/11/2025

ELECTRICAL NOTES:

- 1. GROUND ALL LOAD CENTERS, PANEL BOXES AND RECEPTACLES
- 2. ALL RECEPTACLES SHALL BE EQUIPPED WITH 3-PIN HOLES AND SHALL BE THE UNIVERSAL TYPE
- 3. ALL A/C RECEPTACLES SHALL BE INSTALLED 12INCHES BELOW CEILING LEVEL
- 4. ALL ORDINARY RECEPTACLES SHALL BE INSTALLED 18 INCHES ABOVE FINISHED LEVEL
- 5. RECEPTACLES MOUNTED ON ALL COUNTERS SHALL BE INSTALLED 12 INCHES ABOVE THE TOP OF EACH COUNTER
- 6. ALL RECEPTACLES SHALL BE WIRED WITH 3-WIRES (PHASE, NEUTRAL AND GROUND) AND SHALL BE #10AWG
- 7. GREEN COLOR WIRE SHALL BE USED AS GROUND AND WHITE AS NEUTRAL THROUGHOUT THE BUILDING. BLUE FOR THE PHASE OF ALL A/C UNITS, RED FOR ORDINARY RECEPTACLES AND BLACK FOR SPECIAL PURPOSE OUTLETS.

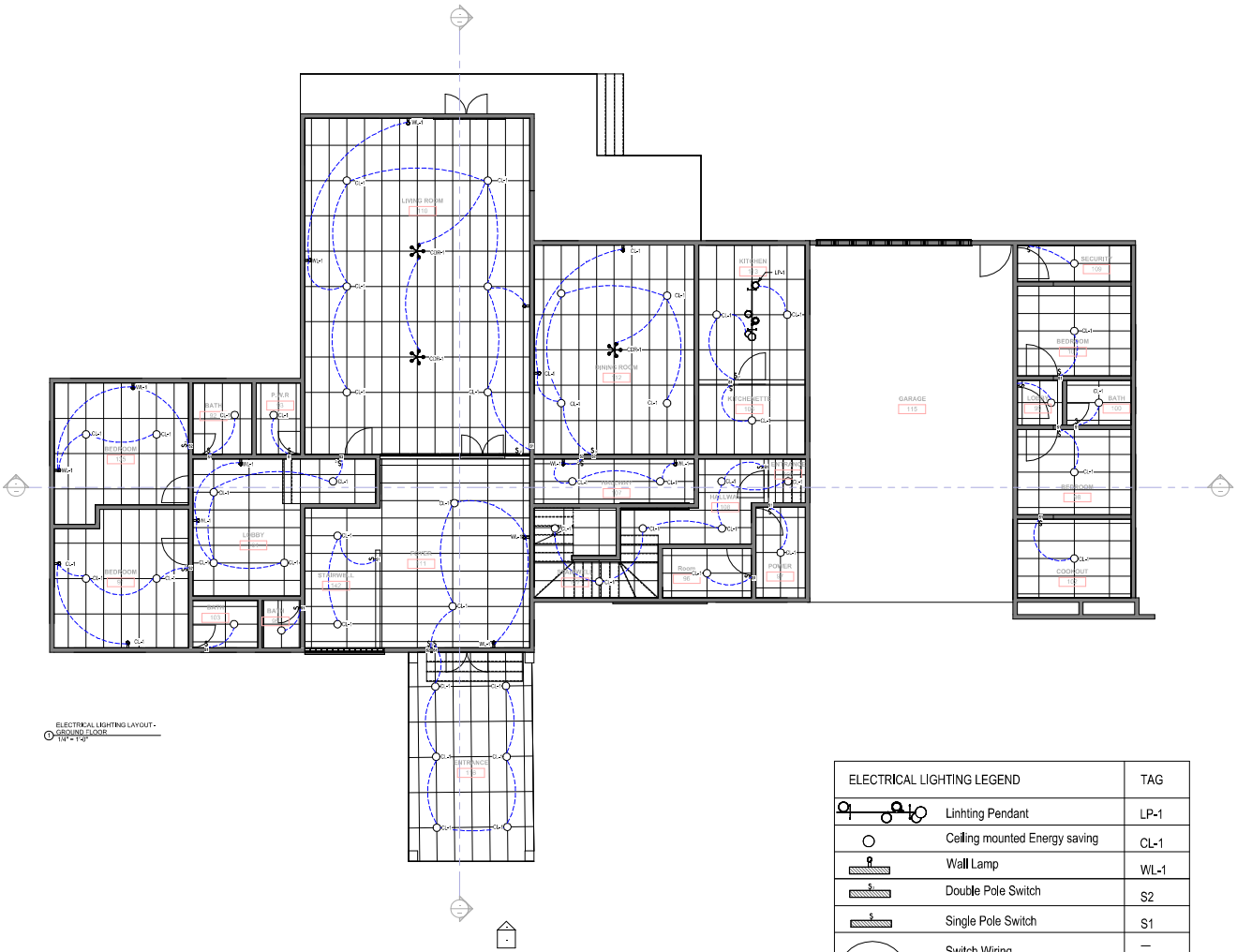
ELECTRICAL DWG. LIST	
Sheet Name	Sheet Number
ELECTRICAL COVER PAGE(NOTE & DWG LIST)	E - 001
ELECTRICAL LIGHTING LAYOUT - 1ST FLOOR	E - 101
ELECTRICAL LIGHTING LAYOUT - GROUND FLOOR	E - 102
ELECTRICAL LAYOUT	E-101

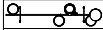


ELECTRICAL LIGHTING LAYOUT - 1ST FLOOR
SCALE = 1/2"

ELECTRICAL LIGHTING LEGEND		TAG
	Lighting Pendant	LP-1
	Ceiling mounted Energy saving Lamp	CL-1
	Wall Lamp	WL-1
	Double Pole Switch	S2
	Single Pole Switch	S1
	Switch Wiring	—
	Electrical Breaker switch	EDP
	Ceiling Fan	CF-1
	Chandelier	CDR-1

ELECTRICAL LEGEND
SCALE = 1/2"



ELECTRICAL LIGHTING LEGEND		TAG
	Lighting Pendant	LP-1
	Ceiling mounted Energy saving	CL-1
	Wall Lamp	WL-1
	Double Pole Switch	S2
	Single Pole Switch	S1
	Switch Wiring	—
	Electrical Breaker switch	EDP
	Chandelier	CDR-1

LEGEND
S1P = 1/16"

HVAC COVER PAGE

PROJECT STATUS: CONSTRUCTION WORKING
DRAWING DATE: 04/11/2026

1. Code Compliance

All HVAC works shall comply with applicable local building codes, mechanical standards, and safety regulations.

2. System Design

HVAC systems shall be designed to provide adequate thermal comfort, indoor air quality, and energy efficiency for all occupied spaces.

3. Load Calculations

Cooling and ventilation loads shall be calculated based on occupancy, equipment, lighting, and environmental conditions.

4. Equipment Installation

All HVAC equipment shall be installed according to manufacturer's instructions and approved shop drawings.

5. Ductwork

Ducts shall be fabricated from approved materials and properly sealed.

Insulation shall be provided to prevent heat gain/loss and condensation.

Flexible ducts shall be kept to a minimum length.

6. Air Distribution

Supply and return air systems shall be balanced to ensure uniform air distribution throughout the building.

7. Ventilation Requirements

Adequate fresh air shall be provided in all occupied spaces in accordance with ventilation standards.

8. Air Conditioning Units

Units shall be properly sized and located for efficiency and accessibility.

Outdoor units shall be placed in well-ventilated areas with proper clearance.

9. Condensate Drainage

Proper drainage systems shall be installed to safely remove condensate water from HVAC equipment.

10. Noise & Vibration Control

Equipment shall be installed with vibration isolators and noise control measures where required.

11. Fire & Smoke Protection

Fire dampers shall be installed at duct penetrations through fire-rated walls.

Smoke detectors shall be integrated with HVAC systems where required.

12. Controls & Thermostats

Thermostats and control systems shall be installed for proper temperature regulation and energy efficiency.

13. Energy Efficiency

All systems shall be designed to minimize energy consumption and comply with energy efficiency standards.

14. Access & Maintenance

Adequate access shall be provided for servicing and maintenance of all HVAC equipment and duct systems.

15. Testing & Commissioning

The HVAC system shall be tested, balanced, and commissioned to ensure proper operation before handover.

16. Insulation

All refrigerant pipes and ducts shall be insulated to prevent energy loss and condensation.

17. Electrical Connections

All electrical works related to HVAC systems shall comply with electrical safety standards.

18. Coordination

HVAC installations shall be coordinated with architectural, structural, and other services to avoid conflicts.

HVAC DWG. LIST

Sheet Name	Sheet Number
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PLUMBING COVER PAGE

PROJECT STATUS: CONSTRUCTION WORKING
DRAWING DATE: 04/11/2026

PLUMBING SEWAGE NOTE:

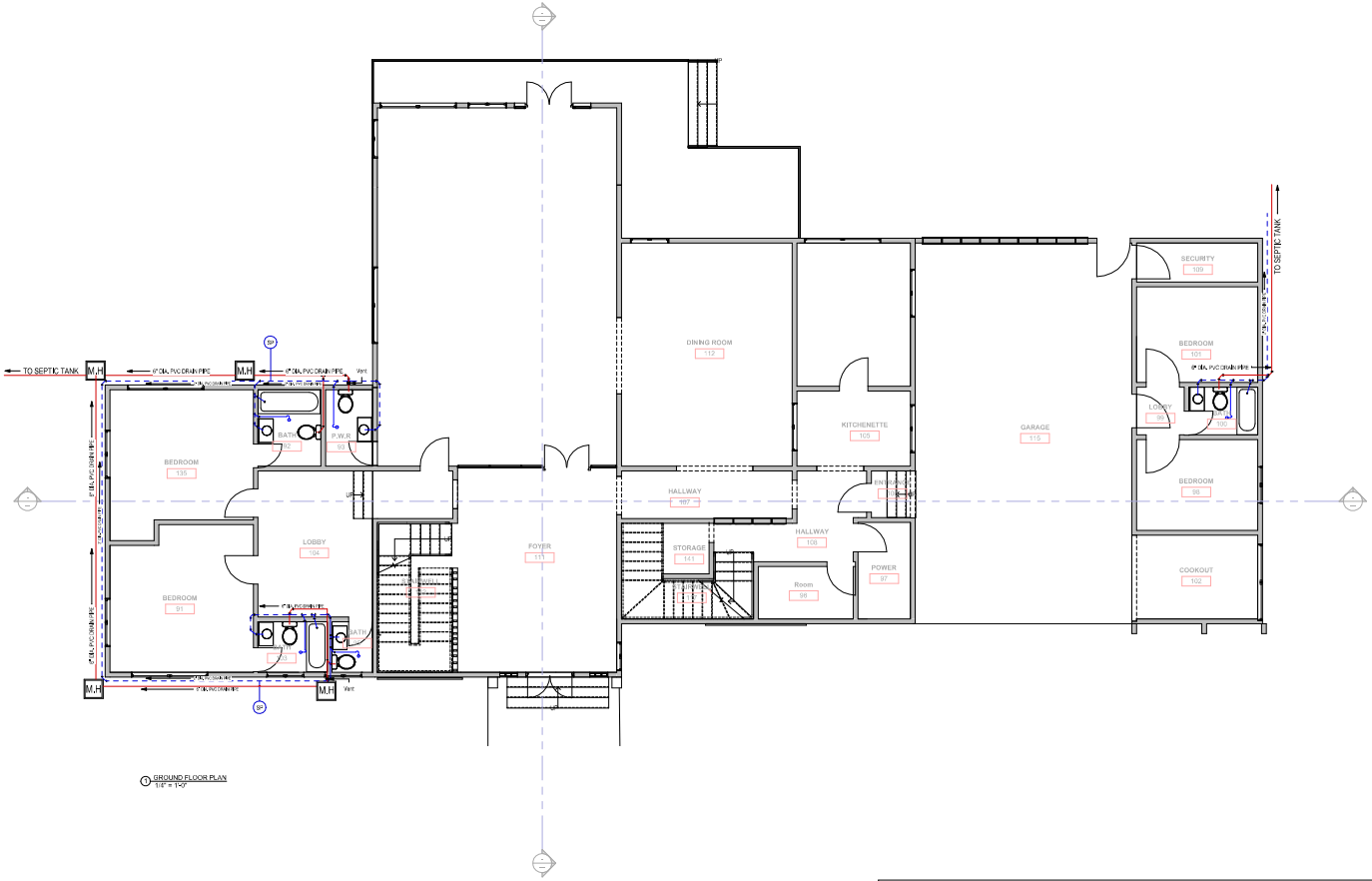
- All plumbing work shall conform to:
 - The latest edition of the International Plumbing Code (IPC) or Uniform Plumbing Code (UPC) (as adopted by local jurisdiction),
 - International Building Code (IBC),
 - International Energy Conservation Code (IECC),
 - National Standard Plumbing Code (NSPC),
 - Local amendments and ordinances.
- All materials and equipment shall be UL-listed, NSF-certified, and conform to applicable ANSI/ASTM standards.
- Obtain all required permits and inspections from local authorities prior to commencing work.
- Contractor shall verify all existing site conditions and dimensions prior to commencing work. Any discrepancies shall be reported to the engineer/architect.
- Plumbing fixtures shall be installed per manufacturer's specifications.
- All piping systems shall be tested and inspected per code requirements prior to concealment.
- Pipe materials:
 - Domestic Water: Type L Copper (above ground), PEX (where permitted), or CPVC.
 - Sanitary Drainage: PVC (Schedule 40) or Cast Iron.
 - Vent Piping: PVC or Cast Iron.
- Water supply system shall be designed for adequate pressure (minimum 40 psi) and flow at each fixture.
- Insulate all hot water piping and piping in unconditioned spaces per IECC requirements.
- Provide backflow preventers where required, including on all hose bibbs, irrigation systems, and equipment connections.
- All plumbing penetrations through fire-rated assemblies shall be firestopped per UL-listed systems and local fire codes.
- Install cleanouts at all code-required locations.
- Slope horizontal drainage piping at a minimum of 1/4" per foot (2%) for pipes $\leq 2.5"$ diameter.
- Seal all pipe penetrations at walls, floors, and ceilings to be air and watertight.
- Coordinate plumbing work with other trades to avoid conflicts.
- Provide seismic restraints for piping and equipment as required by local code and ASCE 7.
- Provide access panels for concealed valves, cleanouts, and equipment requiring maintenance.
- All plumbing systems shall be flushed, tested, and commissioned before final turnover.

PLUMBING WATER NOTE:

- All domestic water supply systems shall comply with:
 - The latest edition of the International Plumbing Code (IPC) or Uniform Plumbing Code (UPC),
 - International Building Code (IBC),
 - International Energy Conservation Code (IECC),
 - Local codes and ordinances.
- All materials used in the potable water system shall be lead-free and comply with NSF 61 and NSF 372 standards.
- Pipe materials for water supply shall be as follows:
 - Above Ground (Hot & Cold): Type L Copper, PEX (ASTM F876/F877), or CPVC (ASTM D2846).
 - Underground: Type K Copper or approved polyethylene (PE) tubing.
- Minimum water pressure at each fixture outlet shall not be less than 15 psi; typical system pressure to be maintained between 40–80 psi.
- Backflow prevention devices shall be installed on all cross-connections in accordance with code and local authority requirements.
- Water hammer arrestors shall be installed at all quick-closing valves per code (e.g., dishwashers, washing machines, etc.).
- Pressure-reducing valves (PRVs) shall be installed if incoming water pressure exceeds 80 psi.
- Hot water piping shall be insulated per IECC with minimum R-value as required by code.
- [1/14, 10:25 AM] Architect Dada: 9. Provide shutoff valves:
 - At all plumbing fixtures (accessible),
 - At water heater inlet/outlet,
 - At each branch and riser as needed for isolation.
- Install hose bibbs with vacuum breakers (anti-siphon type) at exterior and garage locations.
- System shall be flushed, disinfected, and tested per AWWA Standard C651 and local health authority requirements.
- Hot water circulation systems shall include check valves, balancing valves, and thermostatic controls for energy efficiency.
- All domestic water piping shall be pressure tested at 1.5 times the operating pressure (minimum 100 psi) for a period of not less than 2 hours.
- Contractor shall verify the location of water meter and service entry point with the utility provider before installation.
- Provide drain valves at all low points in the system for seasonal drainage and maintenance.
- All piping to be supported per code using approved pipe hangers and supports, and protected from physical damage.
- All equipment and piping exposed to freezing temperatures shall be protected by insulation and/or heat tracing.

PLUMBING DWG. LIST

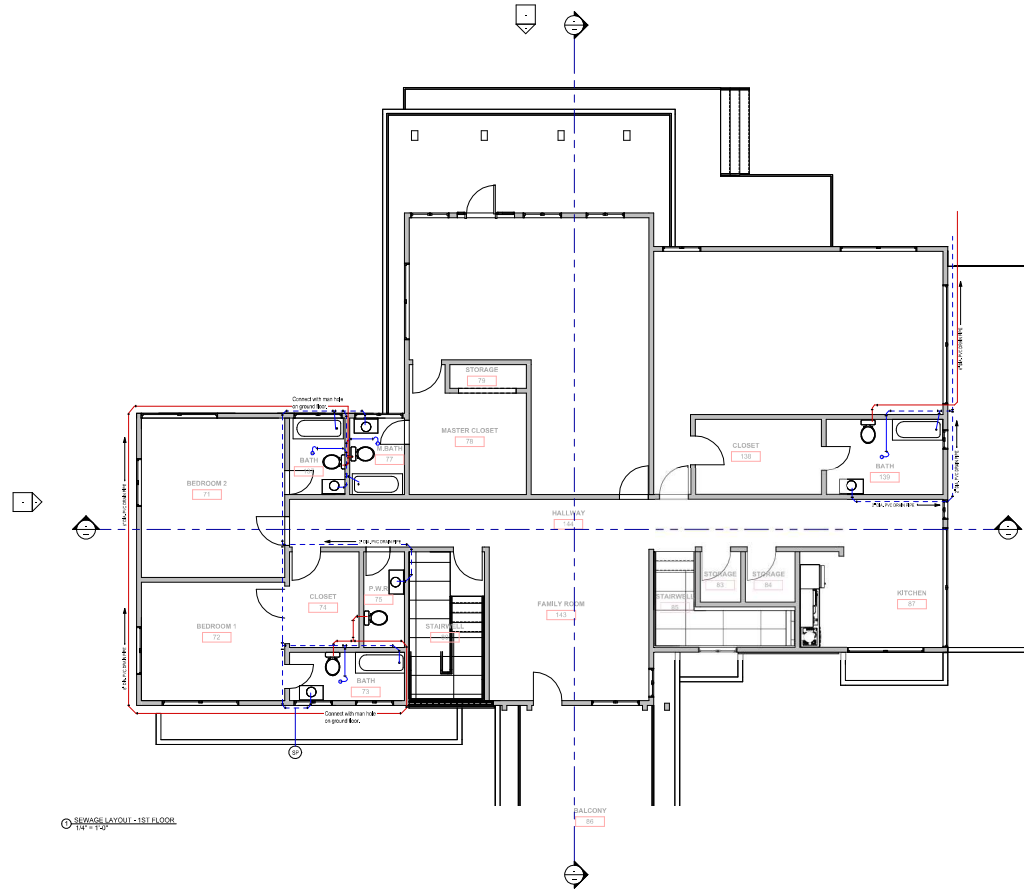
Sheet Name	Sheet Number
PLUMBING COVER PAGE(NOTE & DWG LIST)	P - 001
GROUND FLOOR PLAN	PS - 101
SEWAGE LAYOUT - 1ST FLOOR	PS - 101A
GRADE SLAB LAYOUT	PS-102



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

SEWAGE DISPOSAL LEGEND		
ELBOW 45	WATER CLOSET	TEE
ELBOW 90	2" Ø PIPE	FLOOR DRAIN
LAVATORY	6" Ø PIPE	BATH TUB
SOCK - AWAY PIT	M.H. MAN HOLE	VENT

SEWAGE DISPOSAL LEGEND
1/8" = 1'-0"



SEWAGE LAYOUT - 1ST FLOOR
1/4" = 1'-0"

SEWAGE DISPOSAL SYMBOLS			
	6" Ø PIPE		FLOOR DRAIN
	ELBOW 45		LAVATORY
	ELBOW 90		WATER CLOSET
	BATH TUB		2" Ø PIPE
	TEE		ELBOW 45

Sewage Legend
1/2" = 1'-0"