

# Church Building Renovation & Addition

4400 W. 19th Street, Panama City, FL

Trinity United Methodist Church

## ISSUED FOR BIDS

03/02/2026



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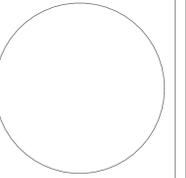
**Civil Engineer**  
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 Brittany Trumbull, PE  
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Church Building Renovation & Addition  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church

No.	Description	Date
1	Permit Set	3.11.25
2	ISSUED FOR BIDS	03.02.26

**Title Sheet**

Project number	24002
Date	03/02/2026
Drawn by	JPJ

**T1.0**

Scale



### Life Safety Plan Legend

- Existing Building, no renovation (2,194 SF)
- Existing Building, Renovation (3,858 SF)
- Addition (3,201 SF)

### Life Safety Symbol Legend

- Handicap Accessible Exit (# = clear width in inches)
- Exit (# = clear width in inches)
- Distance between Exits and Diagonal Distance
- Path of Travel
- 1-hr. Rated Wall
- 2-hr. Rated Wall
- Exterior Wall Pack w/ Emergency Battery Backup
- Ceiling-Mounted Exit Light
- Wall-Mounted Exit Light / Battery Pack Combo
- Wall-Mounted Emergency Unit Battery Pack
- Fire Extinguisher & Cabinet
- 5'-0" ADA Turning Circle

### Project Summary

Location: Panama City, Florida  
 Description: Addition and Renovation  
 Occupancy Classification(s): A-3  
 Construction Type: Type III-B  
 Fire Suppression: Non-Sprinklered  
 Fire Alarm: NFPA 72, audible & visual alarms, off-site monitoring  
 Gross Floor Area:  
 Existing Building: 6,052 SF (Area of Renovation: 3,858 SF)  
 Addition: 3,201 SF  
 Total Building: 9,253 SF  
 Single-Story  
 Risk Category: III Ultimate Design Wind Speed: 153 mph  
 Flood Zone: X Climate Zone: 2A  
 Exposure Category: C

### Code Review

**Applicable Codes:**  
 2023 Florida Building Codes, 8th Edition and companion codes  
 2023 Florida Fire Prevention Code (Incorporating 2023 Florida Version of NFPA 1 and NFPA 101)  
 2020 National Electric Code (NEC-NFPA 70)  
 ASCE 7-22 Minimum Design Loads for Buildings & Other Structures

**Ch. 3 - Use and Occupancy Classification:**  
 Occupancy Classification(s): A-3  
 Section 305.1 "Religious education rooms and religious auditoriums, which are accessory to places of religious worship in accordance with Section 303.1 and have occupant loads of less than 100, shall be classified as A-3 occupancies."  
 The educational spaces have an occupant load of less than 100. Therefore, the entire building is classified as a single occupancy: A-3.

**Ch. 5 - General Building Heights and Areas**  
 For A-3, Type III-B Construction, Non-Sprinklered:  
 Per Table 504.3, Allowable Building Height = 55 feet  
 Proposed Building Height = 22' - 8"  
 Per Table 504.4, Allowable # of Stories: 2  
 Proposed # of Stories: 1  
 Per Table 506.2, Allowable Area = 9,500 SF  
 Proposed Area, including Additions = 9,307 SF

**Ch. 6 - Types of Construction**  
 Per Table 601, fire-resistance rating requirements for building elements, for Type III-B Construction:  
 Primary Frame: 0 Non-bearing walls, Interior: 0  
 Bearing Walls, Exterior: 2 Floor construction: 0  
 Bearing Walls, Interior: 0 Roof construction: 0  
 Non-Bearing Walls, Exterior: 0

Per 602.3, "Type III construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code."

**Ch. 7 - Fire and Smoke Protection Features**  
 Per Table 705.5, fire-resistance rating requirements for (non-bearing) exterior walls with Fire Separation Distance > 30 feet = 0.

Per Section 706 - Fire Walls:  
**Each portion of a building separated by a Fire Wall shall be considered a separate building.** Fire Walls in Occupancy Group A shall have a fire-resistance rating of not less than **3 hours**.

Per Section 714, through-penetrations of Fire Walls shall be protected with an approved penetration firestop system. (Steel pipe penetrations < 6" may be protected with mortar.)

Per Table 716.5, openings in a 4-hour Fire Wall shall be protected with a 3-hour fire door. **Existing door, frame, and closer will be replaced with a 3-hour fire door with corresponding frame and closer.**

#### Chapter 9: Fire Protection Systems

**Section 903.2.1.3 - Automatic Sprinkler Systems for Group A-3**  
 "An automatic sprinkler system shall be provided for fire areas containing Group A-3 occupancies where the fire area has an occupant load of 300 or more."

**The proposed occupant load of the Renovation Area plus Addition (Building 1) is 283 occupants. Therefore, no automatic sprinkler system is proposed. The existing 4-hour Fire Wall separating the children/youth wing (Building 2) from the remainder of the building (Building 1) shall be maintained and the door replaced with a 3-hour fire-rated door.**

**Section 906: Portable Fire Extinguishers**  
 Portable Fire Extinguishers shall be installed in Group A occupancies and within 30 feet of commercial cooking equipment.

#### Section 907 - Fire Alarm & Detection

"A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies where the occupant load due to the assembly occupancy is 300 or more."

**Buildings 1 and 2 are separated by a 4-hour Fire Wall in accordance with Section 706. Neither Building has an occupant load of 300 or more. However, as requested by the Local Fire Chief, both Building 1 and Building 2 shall be protected by a Fire Alarm System per NFPA 72. Signal shall be initiated by the automatic fire detection system. Occupant notification shall be via audible and visual alarm and off-site continuous monitoring.**

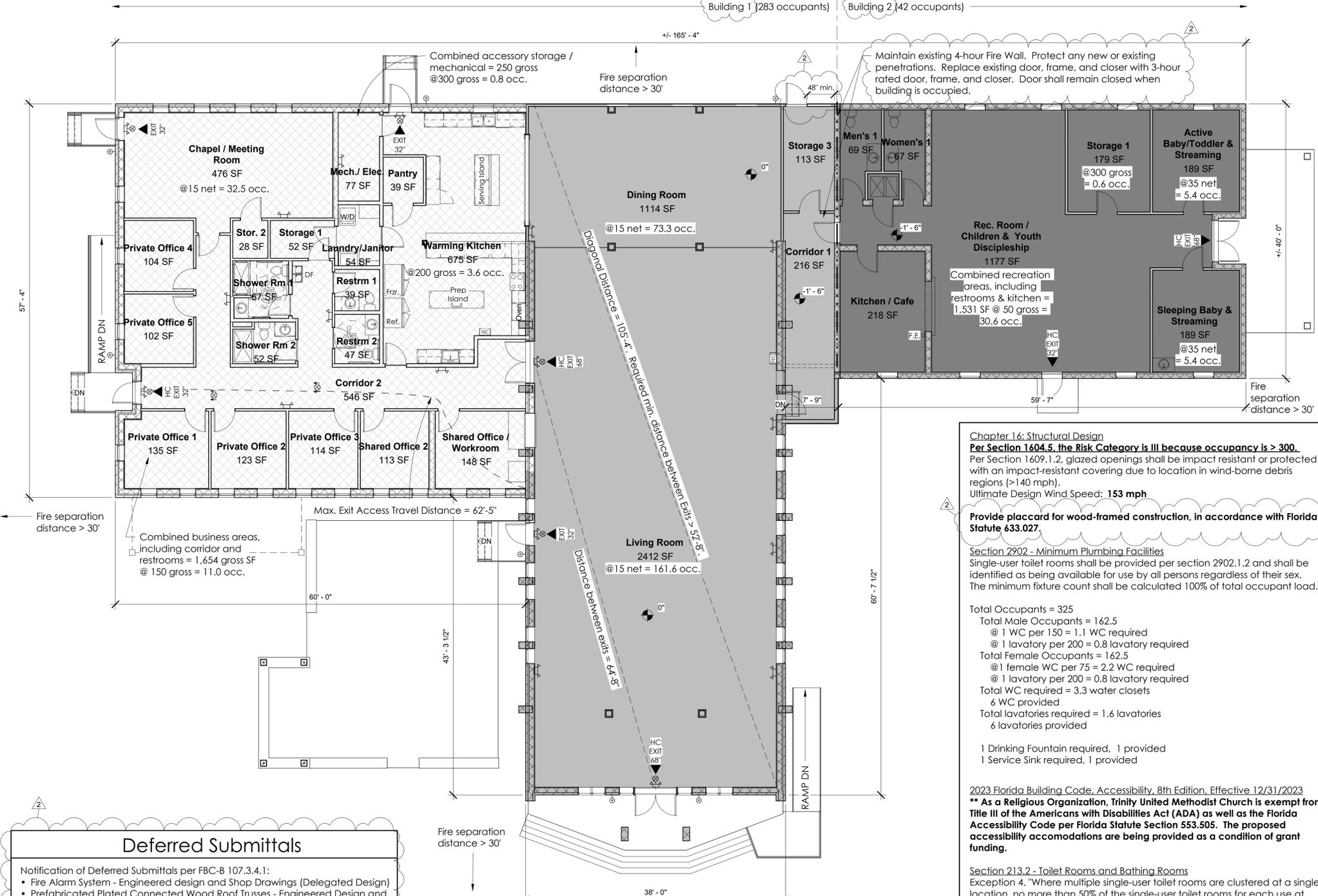
#### Section 1004 - Occupant Load

(See Plan for occupant counts per room.)  
 Fire Area 1: Occupant Load = 282.9 occupants  
 Fire Area 2: Occupant Load = 42 occupants  
 Total Occupant Load = 324.9

Per Section 1006.2.1, the Living/Dining Room space must have two exits because the occupant load is greater than 49.

Per Section 1007.1.1, the two exits required from the Living/Dining Room space shall be spaced a distance of not less than 1/2 the diagonal dimension of the space.

Per Section 1017.2, the Exit Access Travel Distance for A Occupancy shall not exceed 200 feet.



**Chapter 16: Structural Design**  
 Per Section 1604.5, the Risk Category is III because occupancy is > 300.  
 Per Section 1609.1.2, glazed openings shall be impact resistant or protected with an impact-resistant covering due to location in wind-borne debris regions (> 140 mph).  
 Ultimate Design Wind Speed: 153 mph  
**Provide placard for wood-framed construction, in accordance with Florida Statute 433.027.**

**Section 2902 - Minimum Plumbing Facilities**  
 Single-user toilet rooms shall be provided per section 2902.1.2 and shall be identified as being available for use by all persons regardless of their sex. The minimum fixture count shall be calculated 100% of total occupant load.

- Total Occupants = 325
- Total Male Occupants = 162.5
- @ 1 WC per 150 = 1.1 WC required
- @ 1 lavatory per 200 = 0.8 lavatory required
- Total Female Occupants = 162.5
- @ 1 female WC per 75 = 2.2 WC required
- @ 1 lavatory per 200 = 0.8 lavatory required
- Total WC required = 3.3 water closets
- 6 WC provided
- Total lavatories required = 1.6 lavatories
- 6 lavatories provided

- 1 Drinking Fountain required, 1 provided
- 1 Service Sink required, 1 provided

2023 Florida Building Code, Accessibility, 8th Edition, Effective 12/31/2023  
**\*\* As a Religious Organization, Trinity United Methodist Church is exempt from Title III of the Americans with Disabilities Act (ADA) as well as the Florida Accessibility Code per Florida Statute Section 553.505. The proposed accessibility accommodations are being provided as a condition of grant funding.**

**Section 213.2 - Toilet Rooms and Bathing Rooms**  
 Exception 4. "Where multiple single-user toilet rooms are clustered at a single location, no more than 50% of the single-user toilet rooms for each use at each cluster shall be required to comply with 603.

- Two Bathing Rooms are clustered in the Addition. Of these, one shall be Accessible.
- Two Toilet Rooms are clustered in the Addition. Of these, one shall be Accessible.

### Deferred Submittals

- Notification of Deferred Submittals per FBC-B 107.3.4.1:
- Fire Alarm System - Engineered design and Shop Drawings (Delegated Design)
- Prefabricated Plated Connected Wood Roof Trusses - Engineered Design and Shop Drawings (Delegated Design)

1 Life Safety Plan  
 1/8" = 1'-0"

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### Life Safety Plan

Project number 24002  
 Date 03/02/2026  
 Drawn by JPJ

**LS 1.0**

Scale 1/8" = 1'-0"

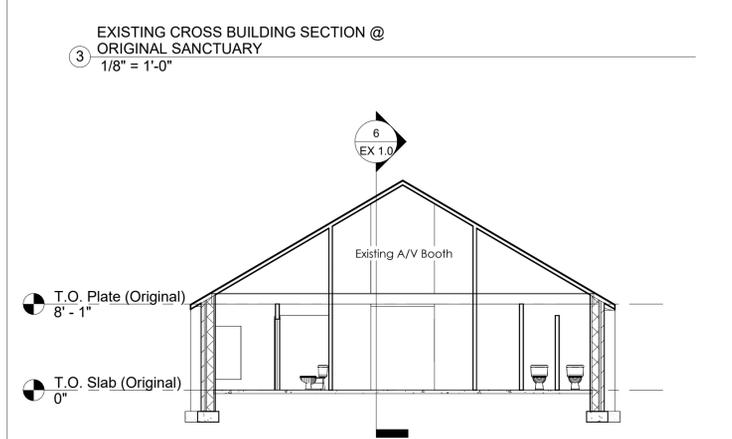
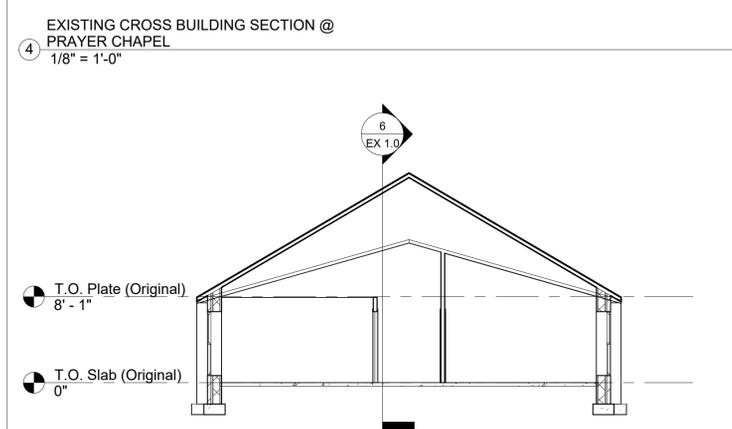
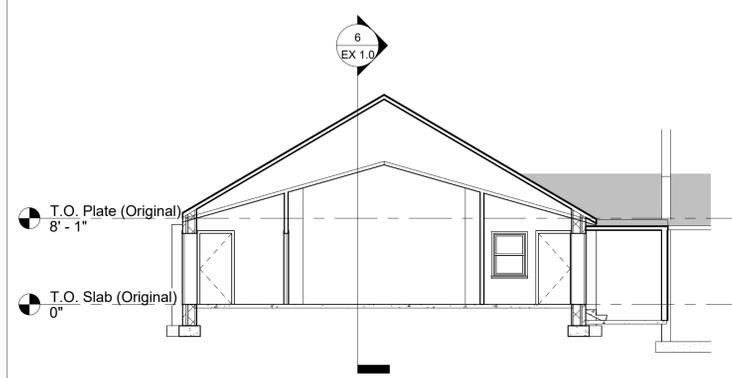
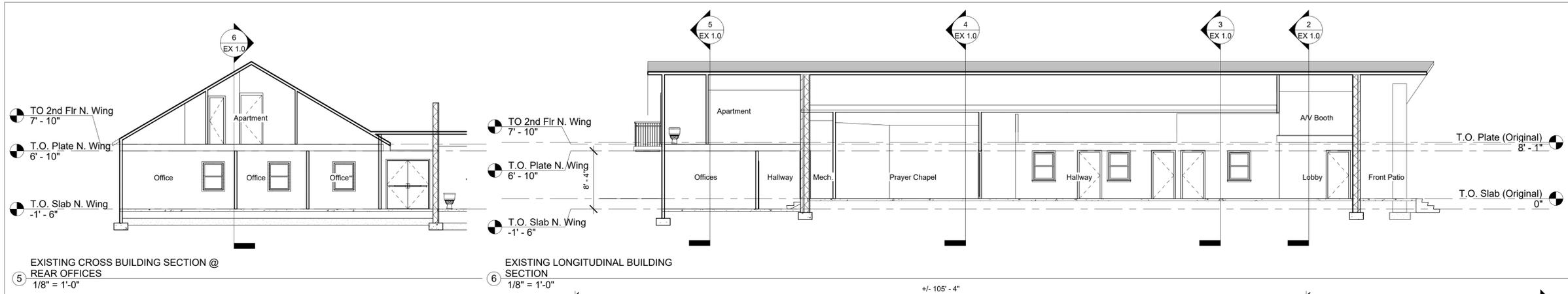
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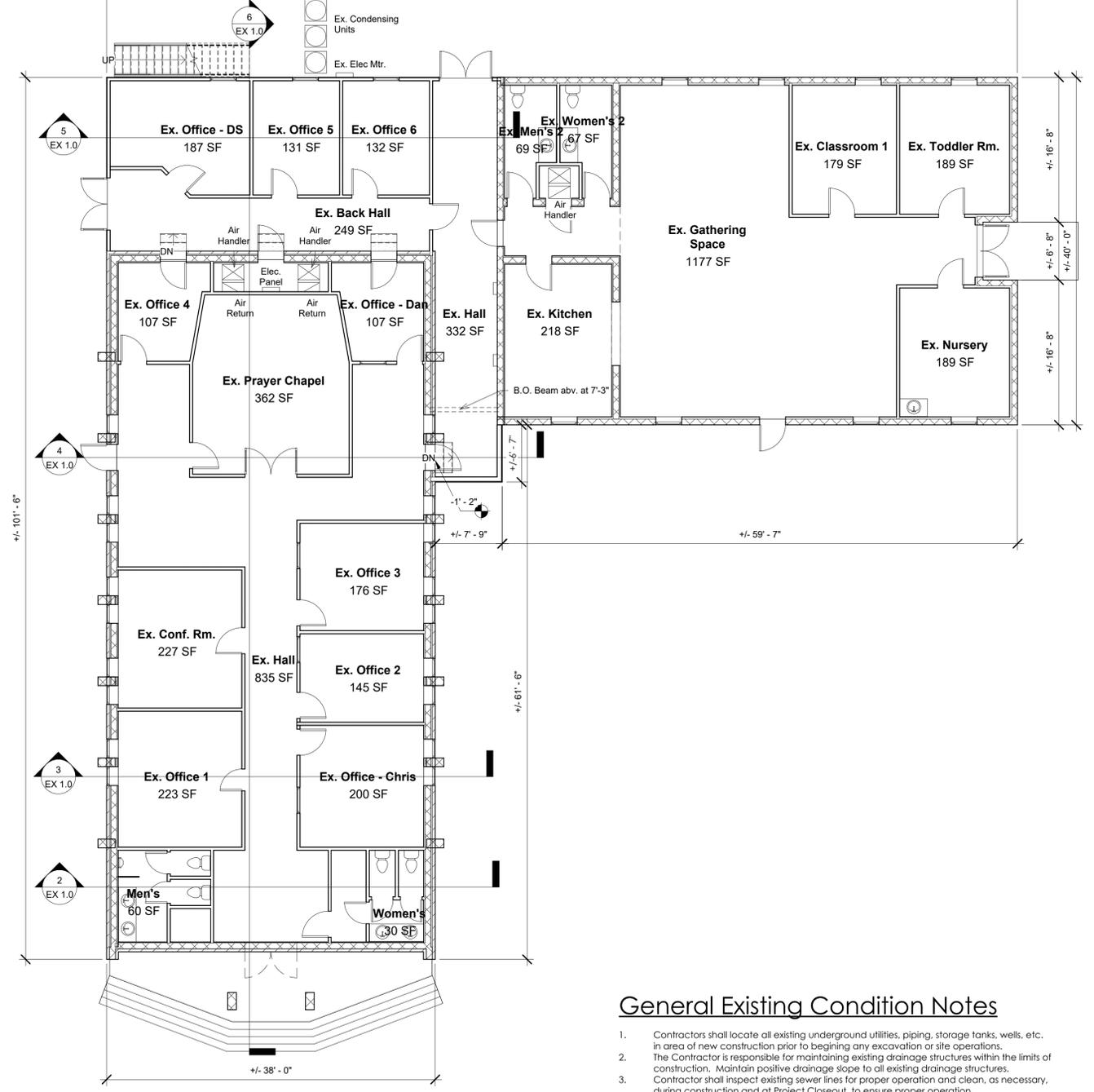
Existing Plans & Sections

Project number	24002
Date	03/02/2026
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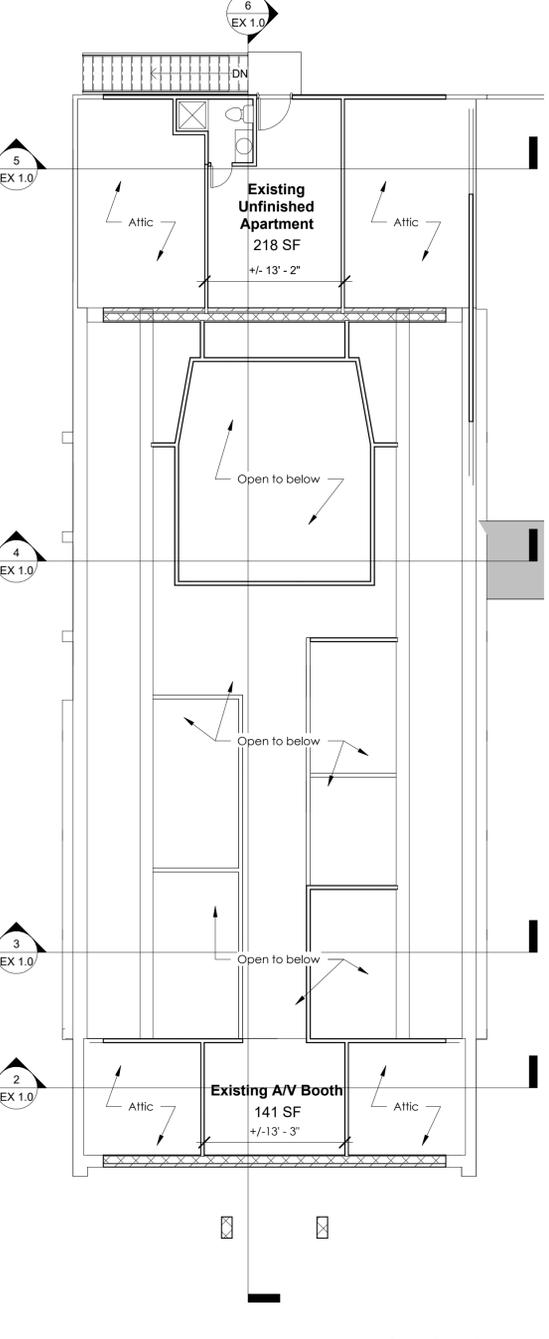
**EX 1.0**  
 Scale As indicated



EXISTING CROSS BLDG SECTION @ LOBBY  
 1/8" = 1'-0"



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



EXISTING SECOND FLOOR PLAN  
 1/8" = 1'-0"

General Existing Condition Notes

- Contractors shall locate all existing underground utilities, piping, storage tanks, wells, etc. in area of new construction prior to beginning any excavation or site operations.
- The Contractor is responsible for maintaining existing drainage structures within the limits of construction. Maintain positive drainage slope to all existing drainage structures.
- Contractor shall inspect existing sewer lines for proper operation and clean, as necessary, during construction and at Project Closeout, to ensure proper operation.



## General Demolition Notes

1. Prep all surfaces to receive new finishes.
2. The word "typical" indicates typical throughout the area of work whether noted or not.
3. Completely remove items as indicated on the demolition plan(s). Items shall be demolished to their intersection with existing walls or other surfaces indicated to remain, and these remaining walls shall be patched, cleaned, etc. as required and prepared to receive new finishes.
4. Contractor to patch and repair all surfaces where existing construction is removed or disturbed by work to match existing adjacent construction unless specifically indicated otherwise.
5. In areas where new flooring is specified, the Contractor shall remove the existing floor material down to the substrate unless otherwise indicated. Contractor shall prep the substrate to receive new floor material per the flooring manufacturer's recommendations. The Owner has first right of refusal on all removed and salvaged items.
6. Any existing architectural, mechanical, plumbing, or electrical device or component, whether indicated to be demolished or not, which conflicts with new work shall be demolished, capped, or relocated as directed by the Architect at no additional cost.
7. The Demolition Contractor shall review the demolition drawings in comparison to the new construction drawings.
8. The Contractor must take great care in dismantling and/or removing items that will be turned over to the Owner for re-use in other areas outside the scope of this Project.
9. In this plan only, dashed lines represent items to be removed.
- 10.

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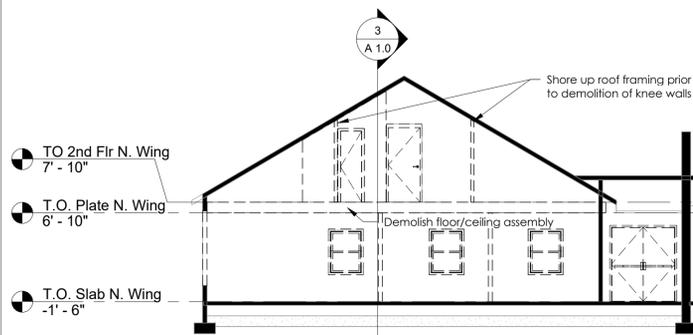
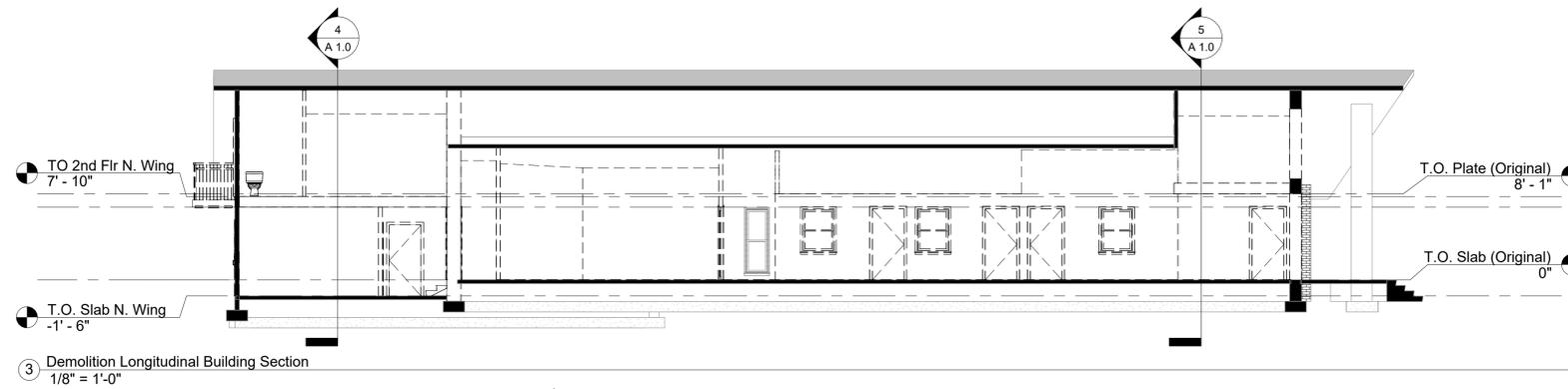
## Demolition Plans & Sections

Project number 24002  
Date 03/02/2026  
Drawn by JPJ

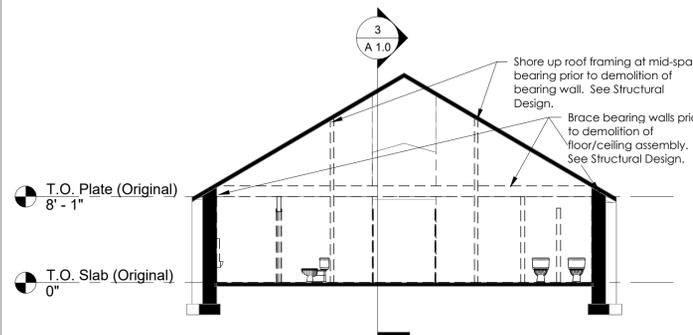
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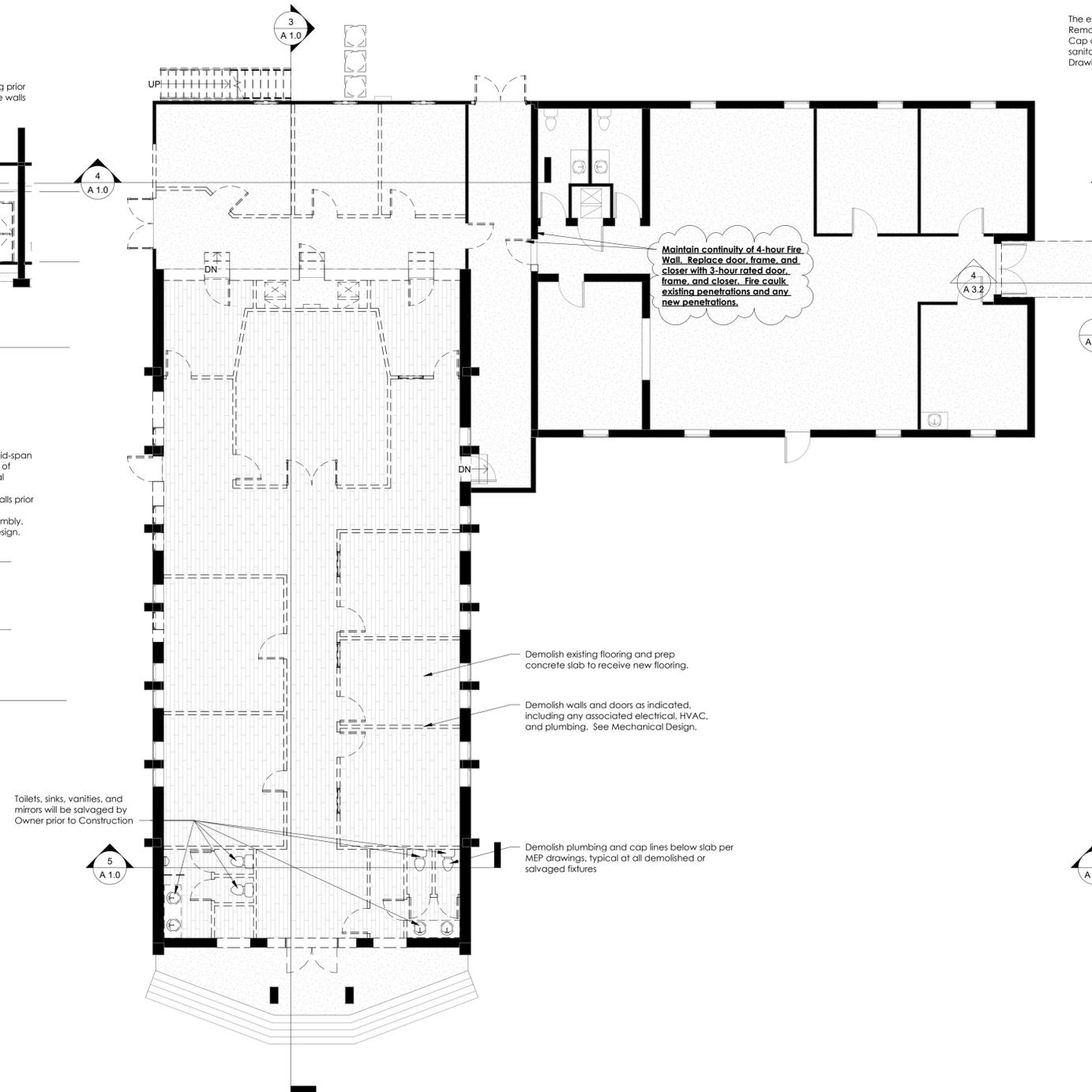
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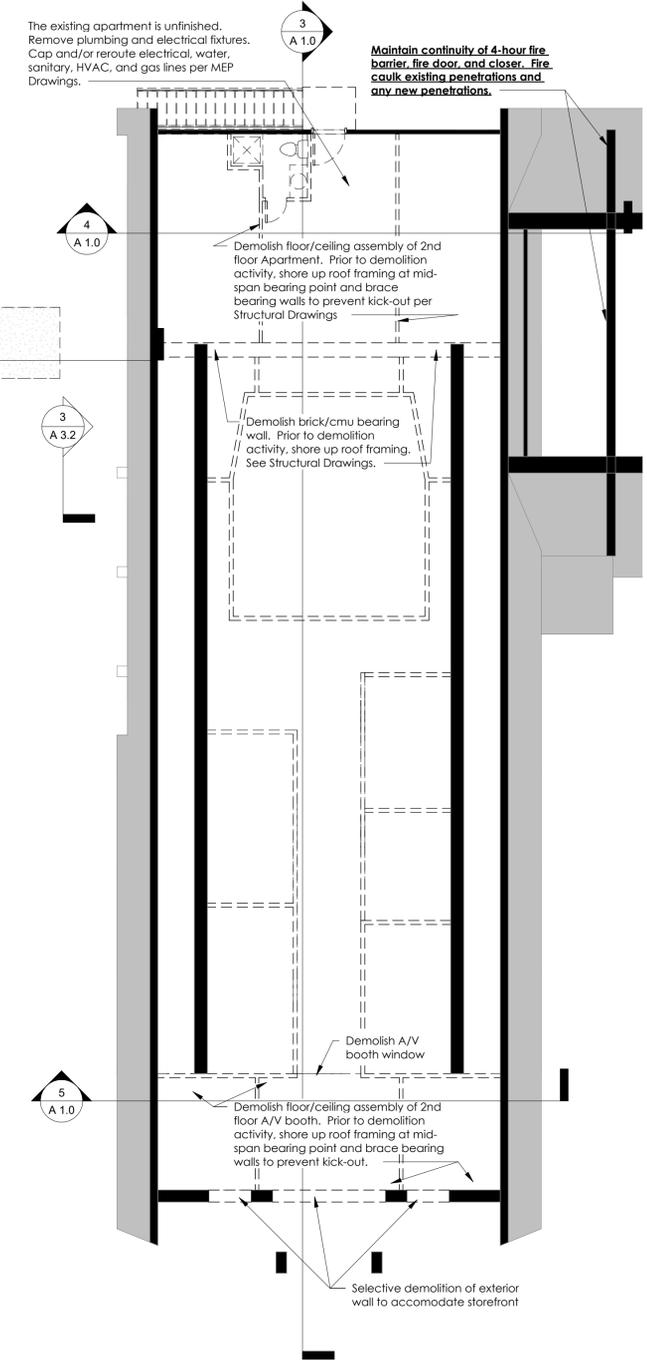
Demolition Cross Section @ Apartment  
1/8" = 1'-0"



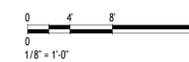
Demolition Cross Section @ A/V Booth  
1/8" = 1'-0"



Demolition Plans - First Floor  
1/8" = 1'-0"

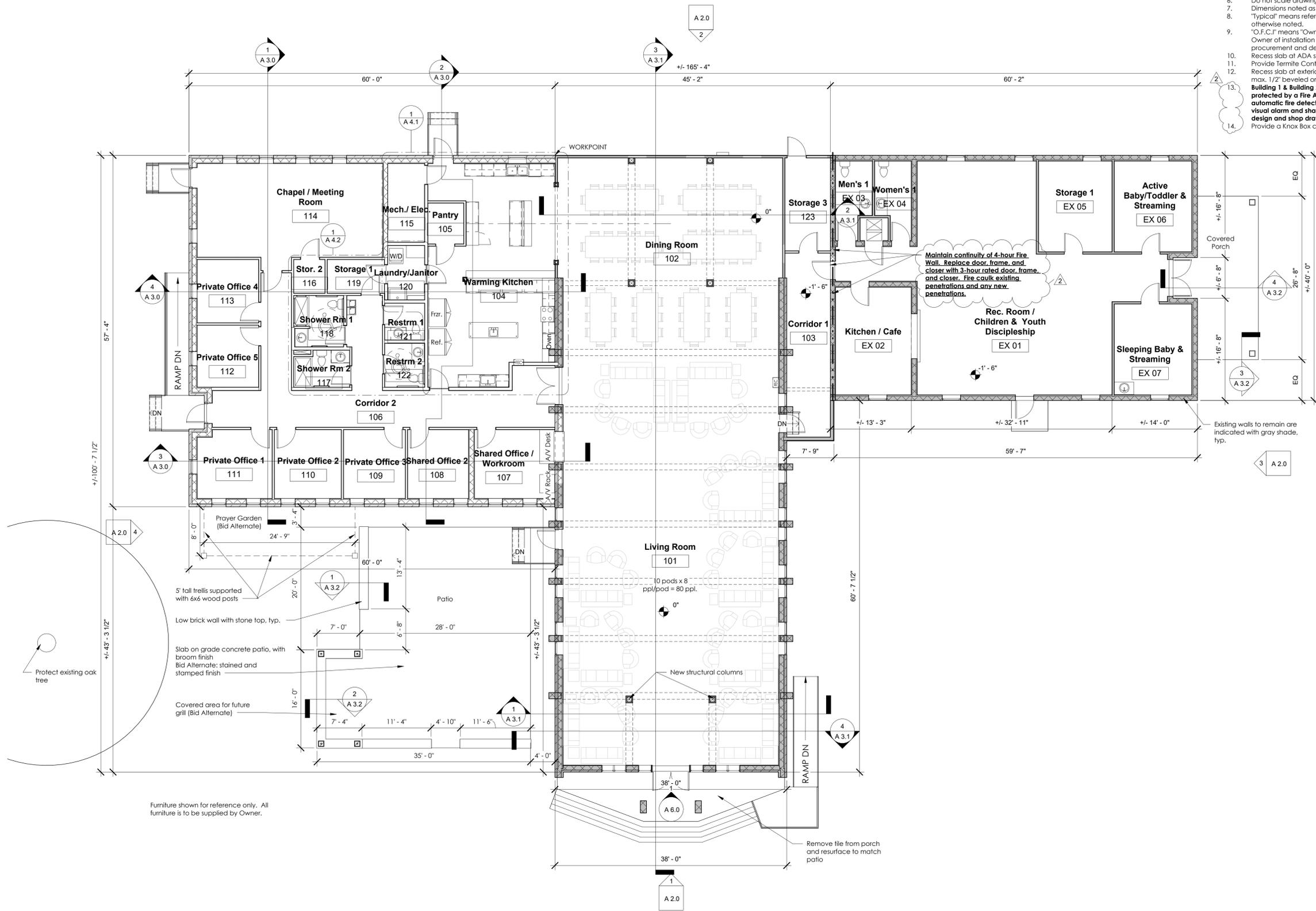


Demolition Plan - Second Floor  
1/8" = 1'-0"



### General Floor Plan Notes

- Dimensions to exterior walls are to outside face of exterior cladding.
- Dimensions to interior walls are to face of stud or face of CMU.
- Locate undimensioned doors and cased openings 4" from finished face of nearest adjacent wall.
- The Contractor shall provide blocking or reinforcement of partitions as necessary to support assemblies contained therein or attached thereto.
- Coordinate partition layout with Mechanical, Electrical, Fire Alarm, and Plumbing work. Notify Architect of any conflicts.
- Do not scale drawings. Dimensions govern.
- Dimensions noted as "Clear" shall be measured from finished face to finished face.
- "Typical" means referenced detail shall apply for all similar conditions, unless otherwise noted.
- "O.F.C.I" means "Owner Furnished, Contractor Installed." Notify Architect and Owner of installation schedule, and provide Owner sufficient time for procurement and delivery.
- Recess slab at ADA shower per shower base manufacturer's instructions.
- Provide Termite Control bait stations for entire building. See Specifications.
- Recess slab at exterior doors as needed to provide weather-tight threshold with max. 1/2" beveled or 1/4" vertical height change from finished floor.
- Building 1 & Building 2 (the buildings on each side of the Fire Wall) shall be protected by a Fire Alarm System per NFPA 72. Signal shall be initiated by the automatic fire detection system. Occupant notification shall be via audible and visual alarm and shall include off-site continuous monitoring. Submit engineered design and shop drawings for approval.**
- Provide a Knox Box complying with local fire department regulations.

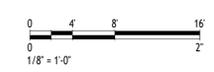


Maintain continuity of 4-hour Fire Wall. Replace door, frame, and closer with 3-hour rated door, frame, and closer. Fire caulk existing penetrations and any new penetrations.

Existing walls to remain are indicated with gray shade, typ.

Furniture shown for reference only. All furniture is to be supplied by Owner.

Remove tile from porch and resurface to match patio



2 Floor Plan  
1/8" = 1'-0"

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### Floor Plan

Project number 24002  
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Drawn by JPJ

# A 1.1

Scale As indicated

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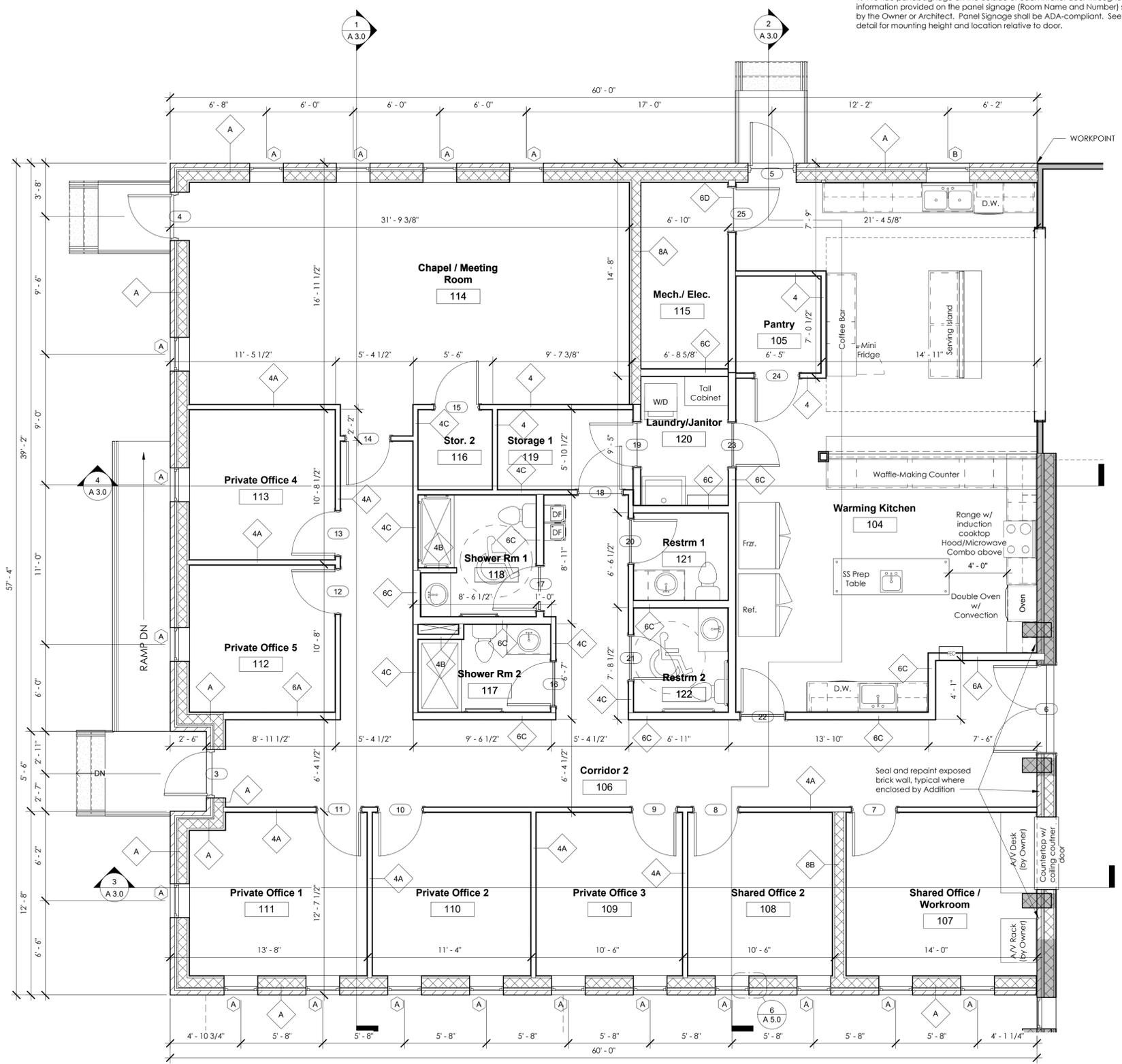
**Enlarged Plan @ Addition**

Project number 24002  
 Date 03/02/2026  
 Drawn by JJP

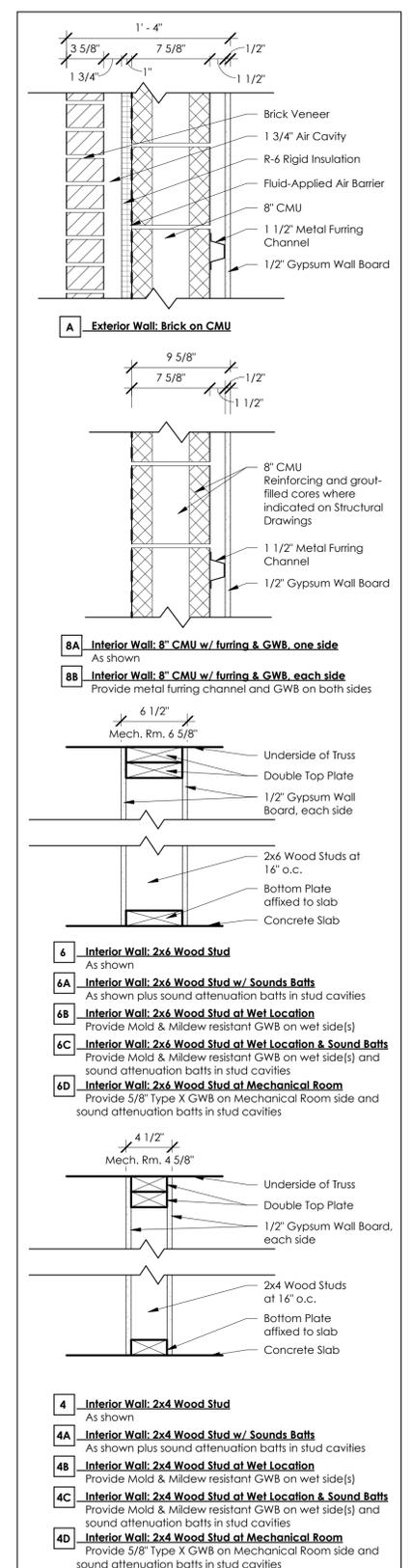
**A 1.2**

Scale As indicated

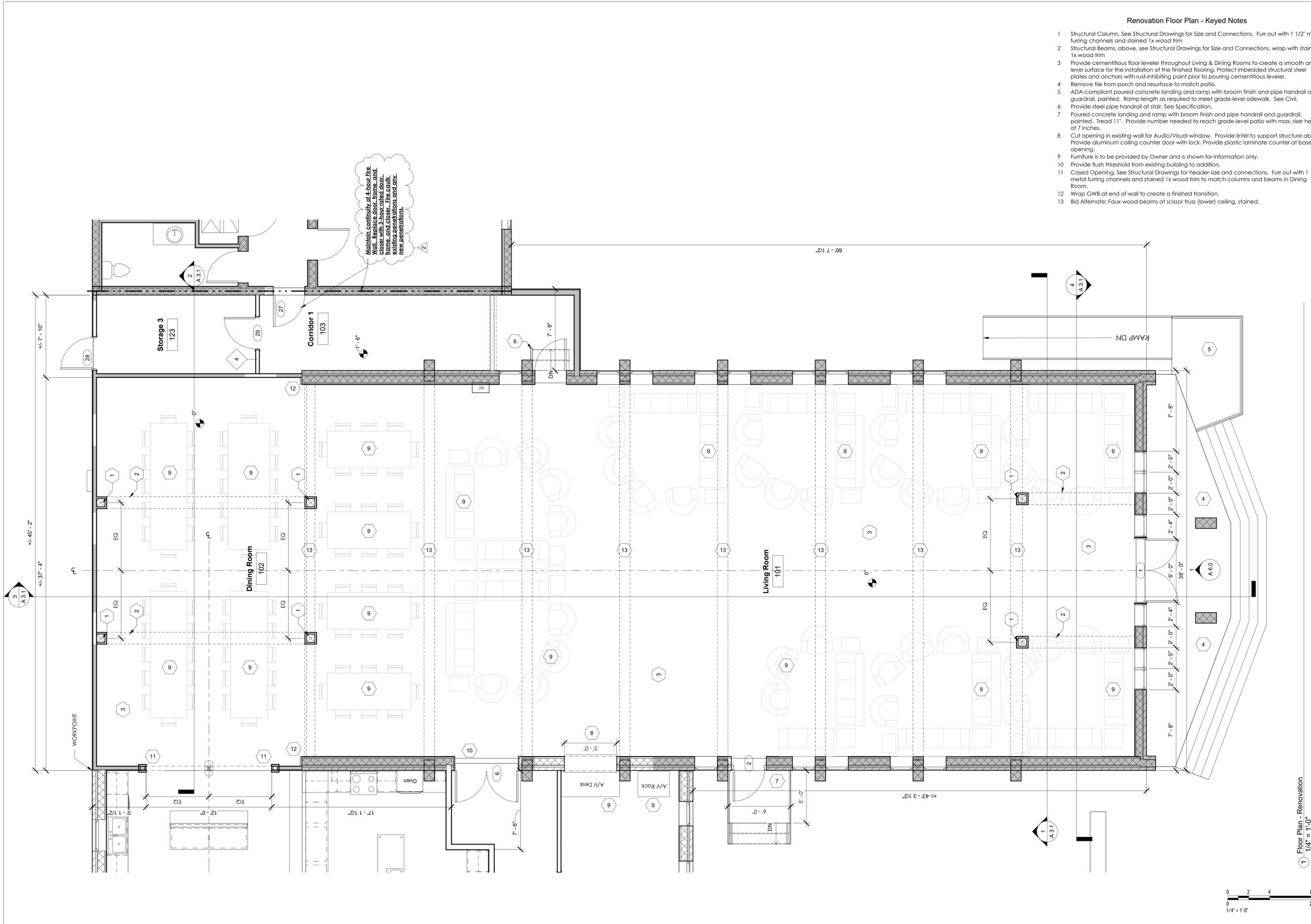
Notes - Enlarged Plan @ Addition  
 1. Provide panels signage on the outside of each interior door throughout the Addition. The information provided on the panel signage (Room Name and Number) shall be provided by the Owner or Architect. Panel Signage shall be ADA-compliant. See specifications. See detail for mounting height and location relative to door.



1 Enlarged Plan - Addition  
 1/4" = 1'-0"



2 Wall Types @ Addition  
 1 1/2" = 1'-0"

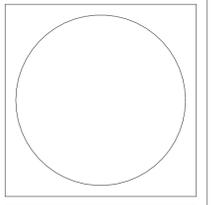


Maintain continuity of 4-hour fire wall. Where wall is interrupted, use 3-hour rated door, frame, and closer. Fire sculk, existing penetrations and any new penetrations.

- Renovation Floor Plan - Keyed Notes**
- 1 Structural Column, See Structural Drawings for Size and Connections. Furr out with 1 1/2" metal furring channels and stained 1x wood trim
  - 2 Structural Beams, above, see Structural Drawings for Size and Connections, wrap with stained 1x wood trim
  - 3 Provide cementitious floor leveler throughout Living & Dining Rooms to create a smooth and level surface for the installation of the finished flooring. Protect imbedded structural steel plates and anchors with rust-inhibiting paint prior to pouring cementitious leveler.
  - 4 Remove tile from porch and resurface to match patio.
  - 5 ADA-compliant poured concrete landing and ramp with broom finish and pipe handrail and guardrail, painted. Ramp length as required to meet grade-level sidewalk. See Civil.
  - 6 Provide steel pipe handrail at stair. See Specification.
  - 7 Poured concrete landing and ramp with broom finish and pipe handrail and guardrail, painted. Tread 11". Provide number needed to reach grade-level patio with max. riser height of 7 inches.
  - 8 Cut opening in existing wall for Audio/Visual window. Provide lintel to support structure above. Provide aluminum coiling counter door with lock. Provide plastic laminate counter at base of opening.
  - 9 Furniture is to be provided by Owner and is shown for information only.
  - 10 Provide flush threshold from existing building to addition.
  - 11 Cased Opening, See Structural Drawings for header size and connections. Furr out with 1 1/2" metal furring channels and stained 1x wood trim to match columns and beams in Dining Room.
  - 12 Wrap GWB at end of wall to create a finished transition.
  - 13 Bid Alternate: Faux wood beams of scissor truss (lower) ceiling, stained.

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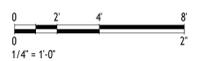
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**Enlarged Plan @ Renovation**

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**A 1.3**

Scale 1/4" = 1'-0"



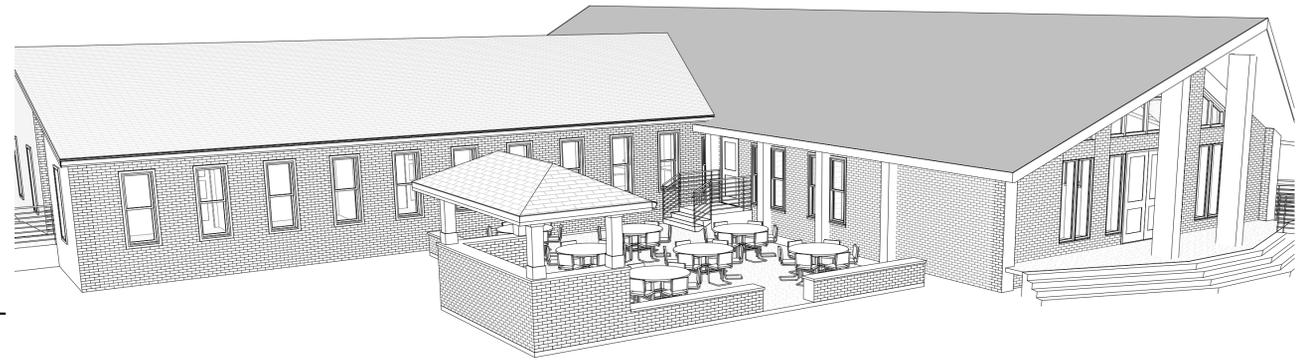
1 Floor Plan - Renovation  
 1/4" = 1'-0"







4 West Elevation  
1/8" = 1'-0"



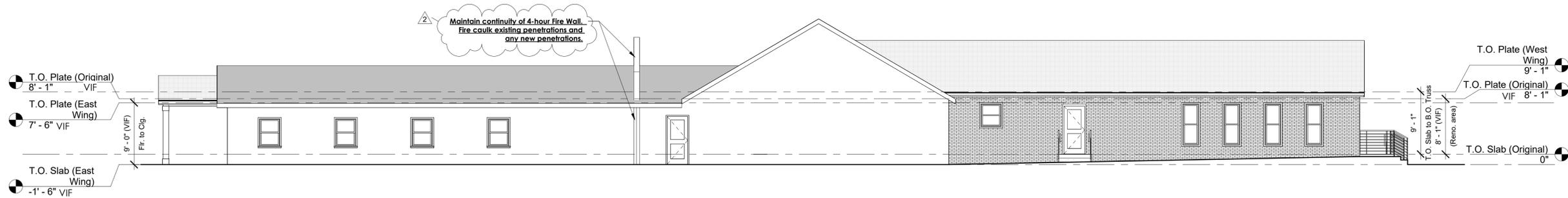
5 3D View @ Patio



3 East Elevation  
1/8" = 1'-0"



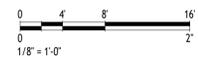
6 3D View @ Front Entry



2 North Elevation  
1/8" = 1'-0"



1 South Elevation  
1/8" = 1'-0"



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Exterior Elevations

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A 2.0

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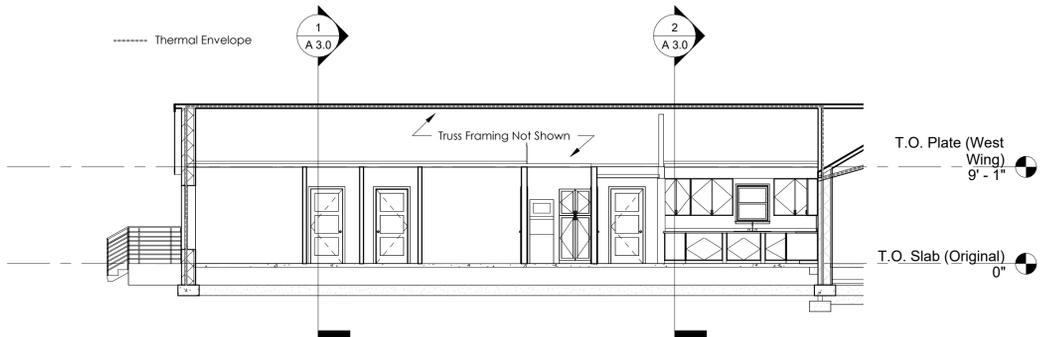
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Sections @  
 Addition

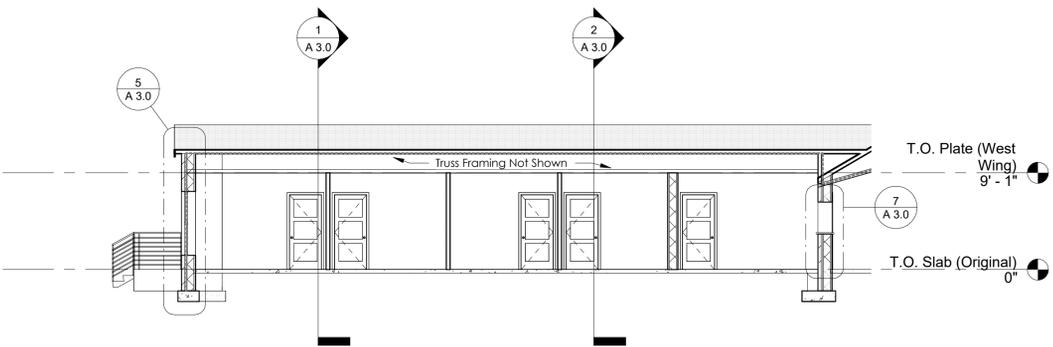
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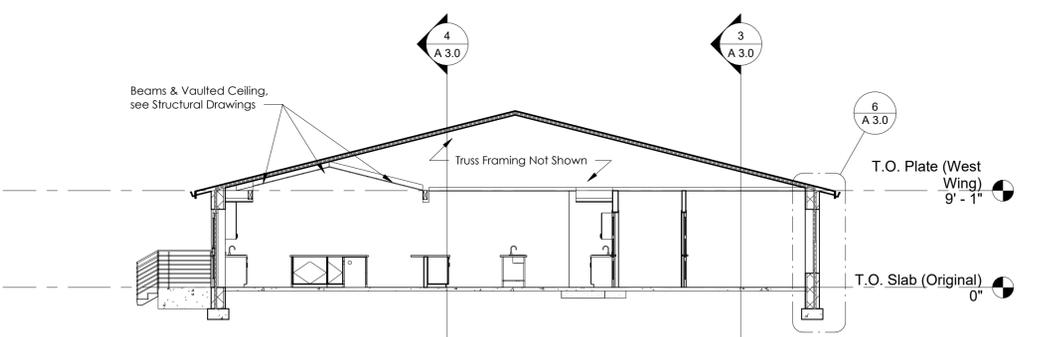
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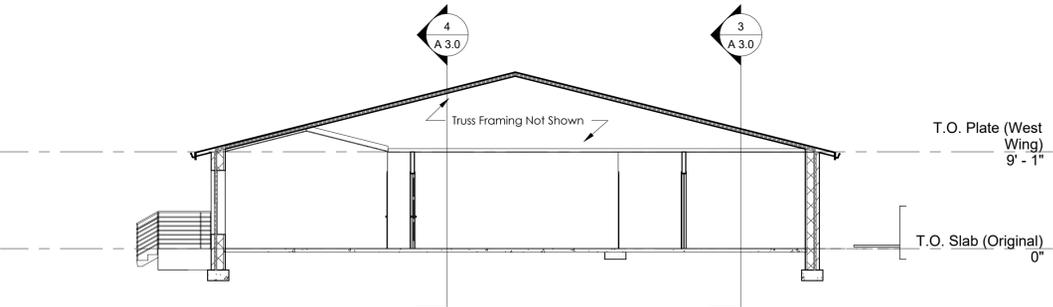
4 Addition Long Section @ Laundry/Kitchen  
 1/8" = 1'-0"



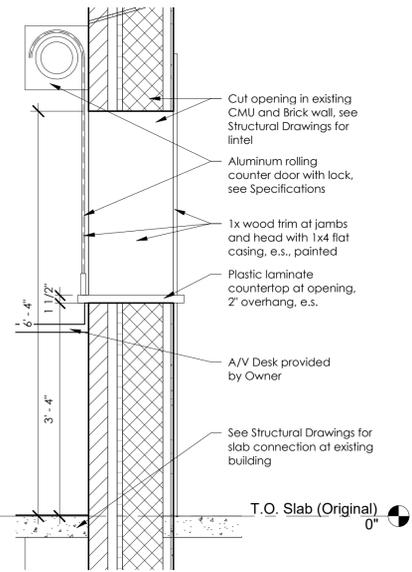
3 Addition Long Section @ Offices  
 1/8" = 1'-0"



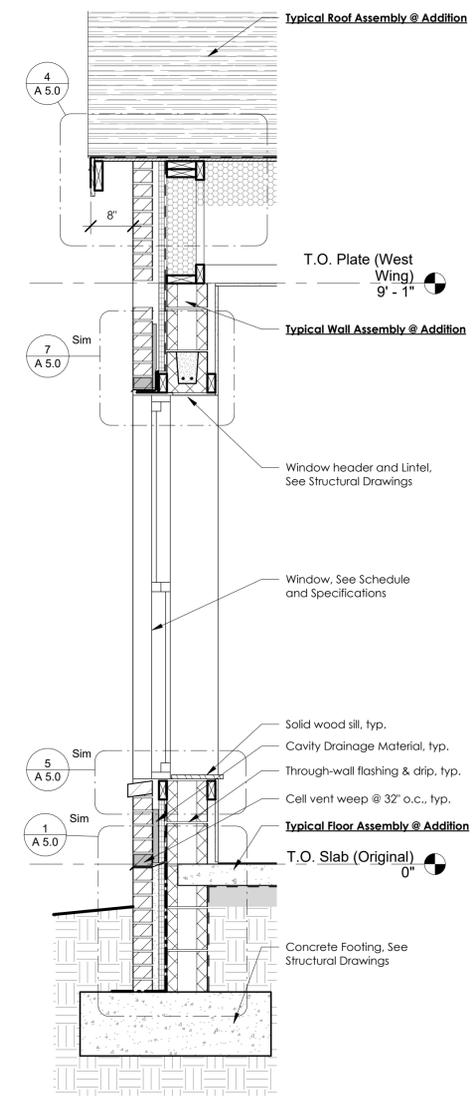
2 Addition Cross Section @ Kitchen  
 1/8" = 1'-0"



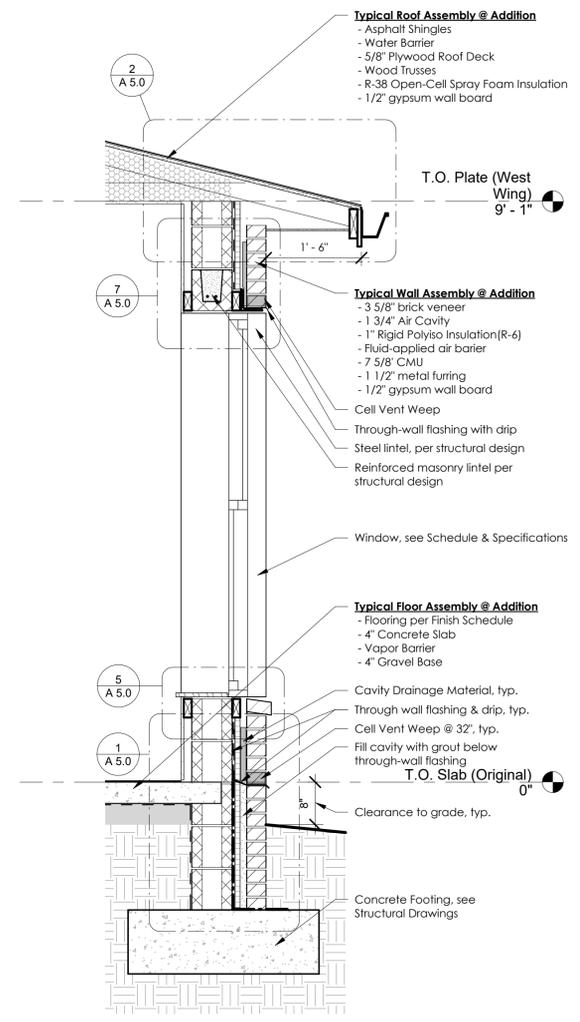
1 Addition Cross Section @ Chapel  
 1/8" = 1'-0"



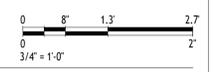
7 Section @ Audio/Video Opening  
 3/4" = 1'-0"



5 Typical Wall Section @ Addition - Rake  
 3/4" = 1'-0"



6 Typical Wall Section @ Addition - Eave  
 3/4" = 1'-0"



**Church Building Renovation & Addition**  
 4400 W. 19th Street, Panama City, FL

**Trinity United Methodist Church**

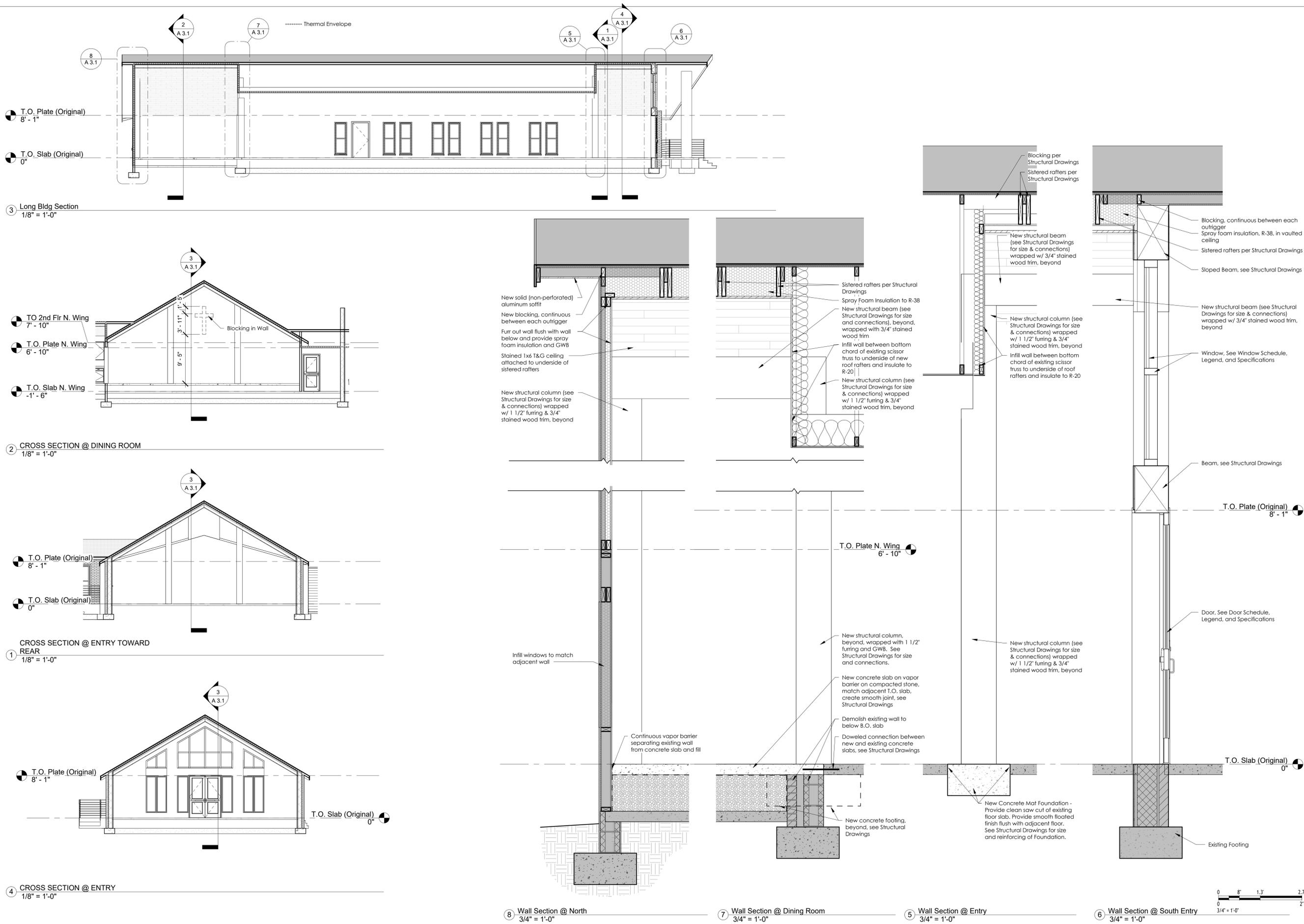
No.	Description	Date
1	Permit Set	3.11.25
2	ISSUED FOR BIDS	03.02.26

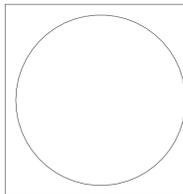
**Sections @ Renovation**

Project number	24002
Date	03/02/2026
Drawn by	JPJ

**A 3.1**

Scale As indicated





Church Building Renovation & Addition  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church

No.	Description	Date
1	Permit Set	3.11.25
2	ISSUED FOR BIDS	03.02.26

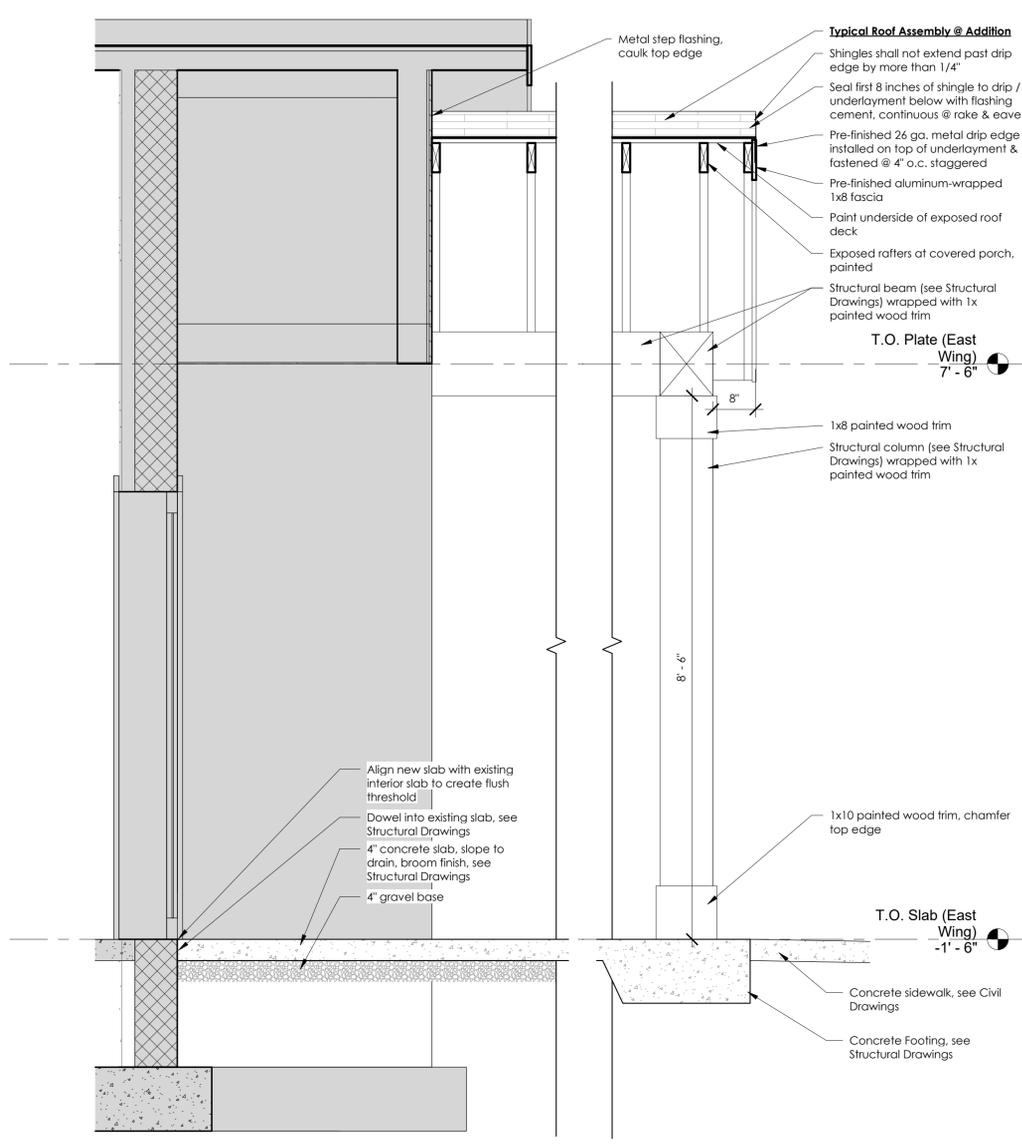
Sections @  
 Outdoor  
 Spaces

Project number	24002
Date	03/02/2026
Drawn by	JPJ

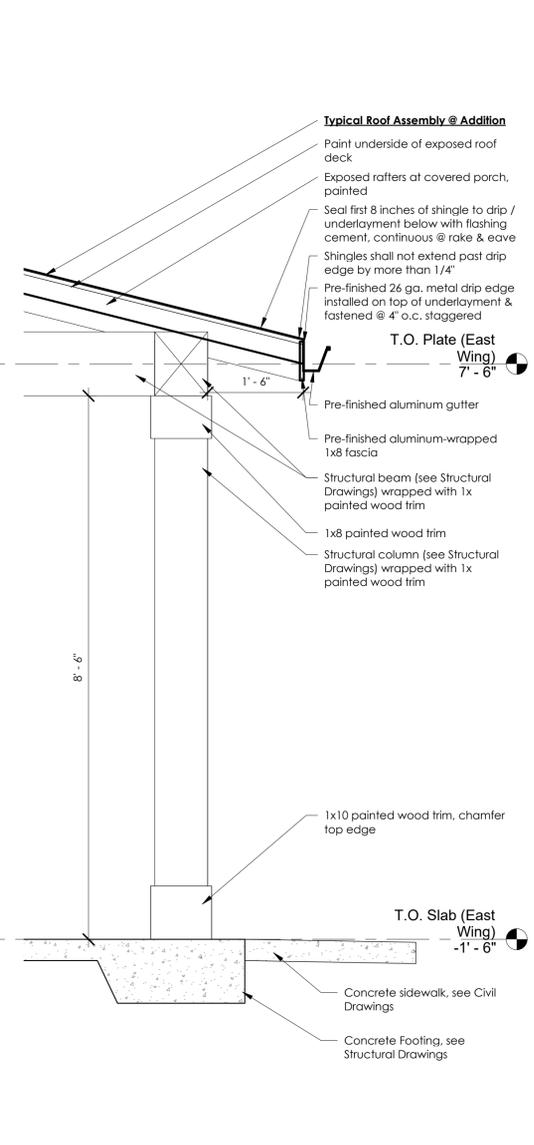
A 3.2

Scale 3/4" = 1'-0"

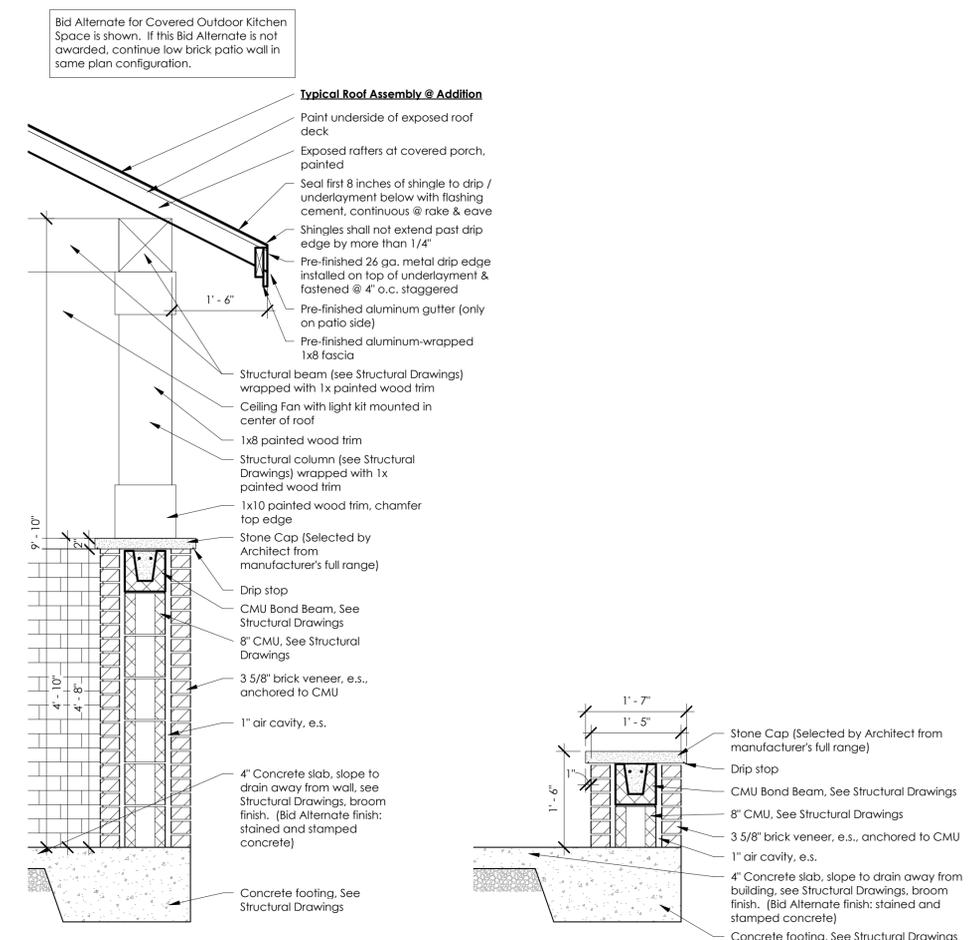
3/4/2026 12:59:40 PM



4 Cross Section @ Covered Patio, East Entry  
 3/4" = 1'-0"

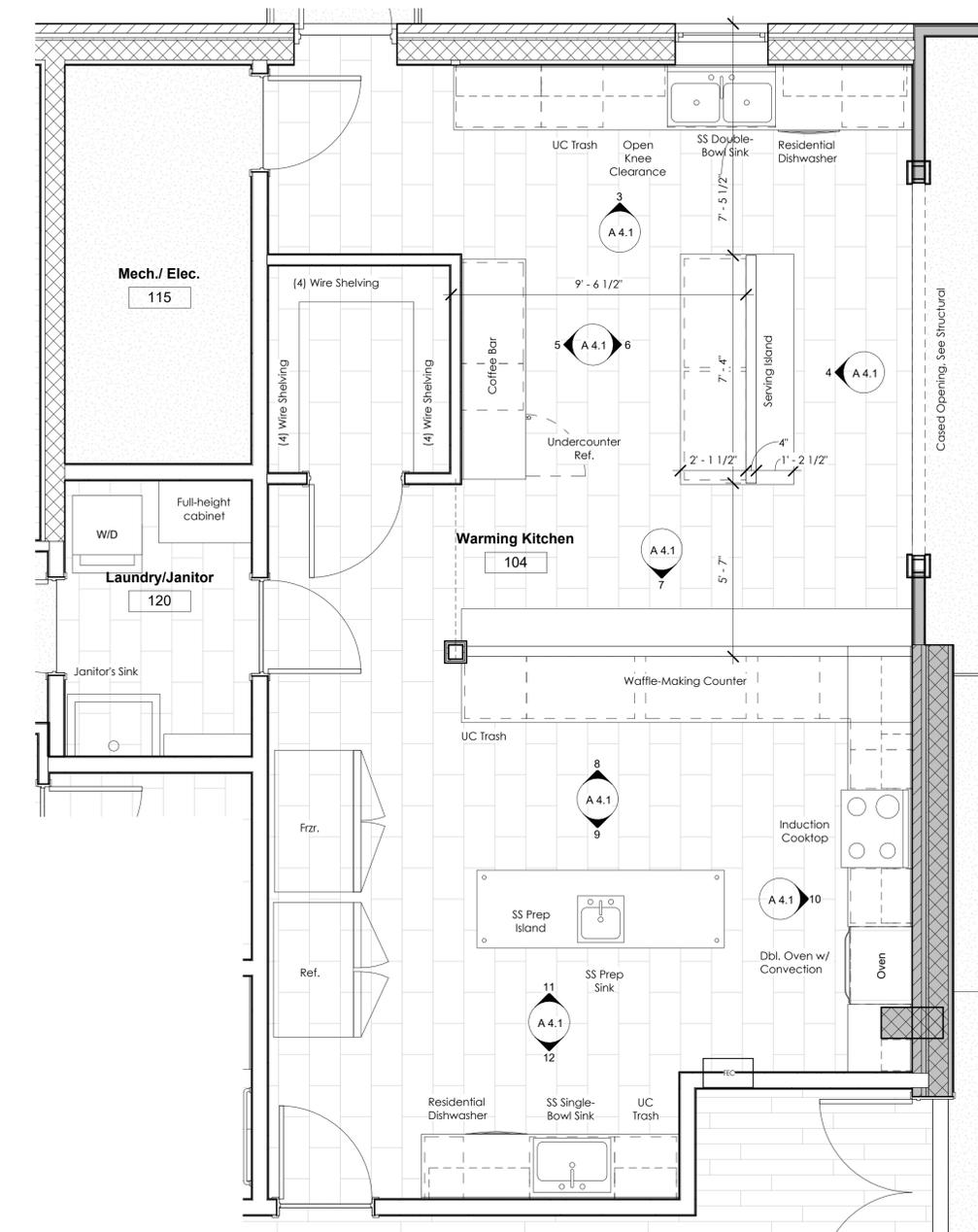


3 Section @ Covered Patio Eave, East Entry  
 3/4" = 1'-0"



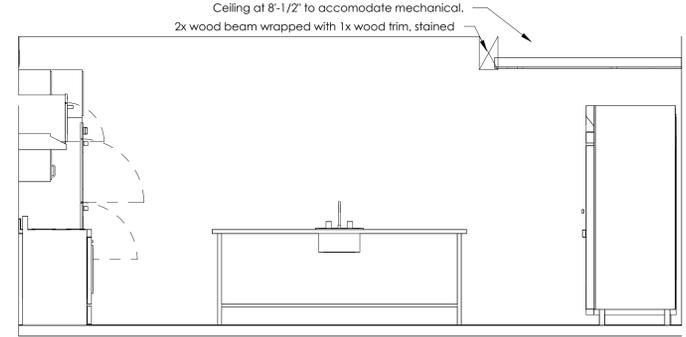
2 Section @ Covered Outdoor Kitchen Eave  
 (Bid Alternate)  
 3/4" = 1'-0"

1 Low Wall at Patio  
 3/4" = 1'-0"

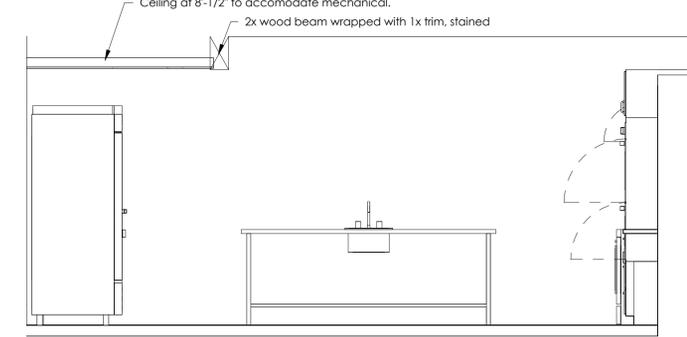


1 Enlarged Plan - Warming Kitchen  
3/8" = 1'-0"

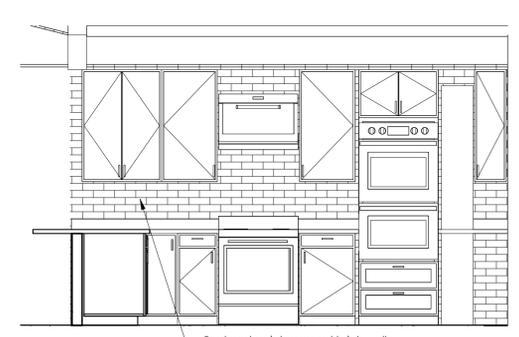
See Typical Mounting Heights Schedule for additional information, typical.



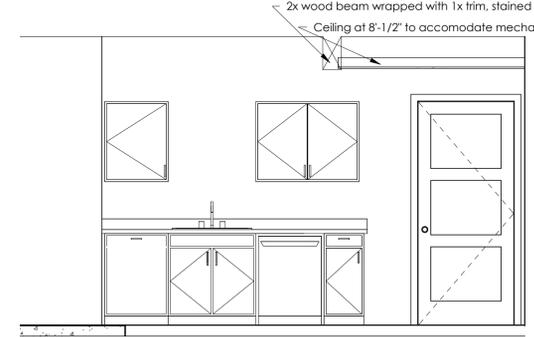
9 Kitchen - Prep Island - Front  
3/8" = 1'-0"



11 Kitchen - Prep Island - Back  
3/8" = 1'-0"

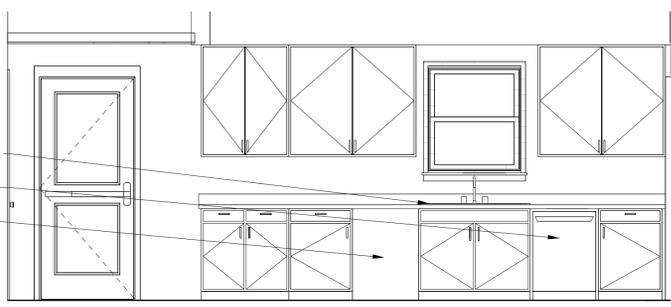


10 Kitchen - Oven & Stove  
3/8" = 1'-0"

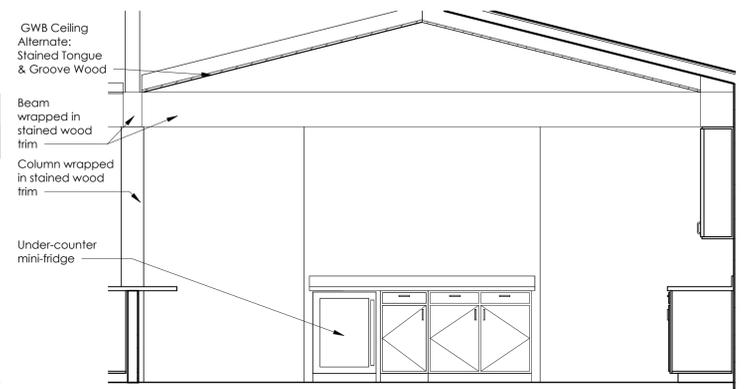


12 Kitchen - South Wall  
3/8" = 1'-0"

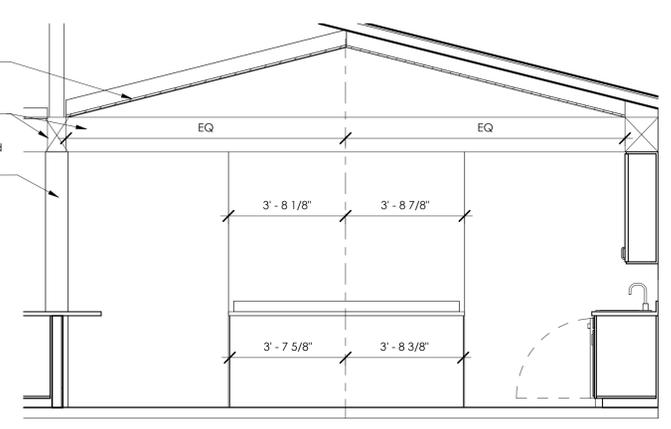
See Typical Mounting Heights Schedule for additional information, typical.



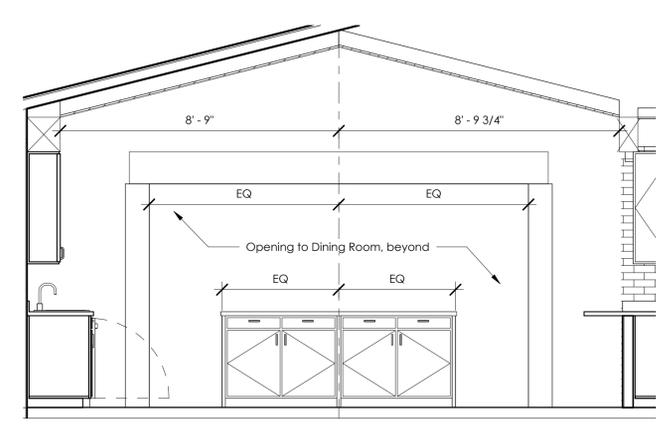
3 Kitchen North Wall  
3/8" = 1'-0"



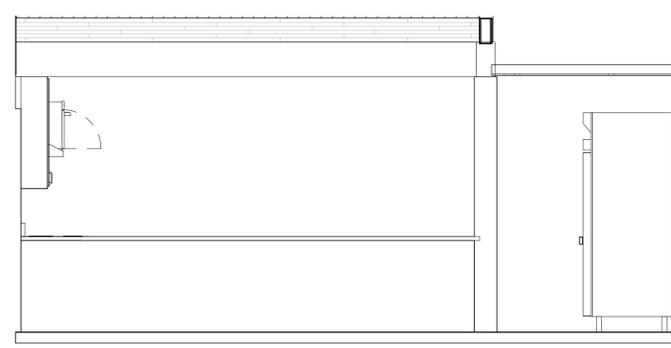
5 Kitchen - Coffee Bar  
3/8" = 1'-0"



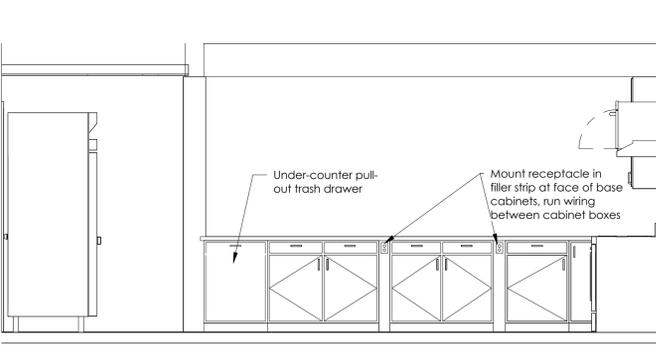
4 Kitchen - Serving Island - Front  
3/8" = 1'-0"



6 Kitchen - Serving Island - Back  
3/8" = 1'-0"



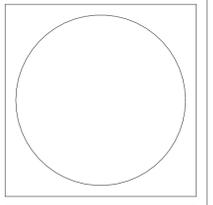
7 Kitchen - Waffle Counter - Front  
3/8" = 1'-0"



8 Kitchen - Waffle Counter - Back  
3/8" = 1'-0"

Jennifer P. Jones, Architect, LLC  
7901 4th St. N., Ste. 300  
St. Petersburg, FL 33702  
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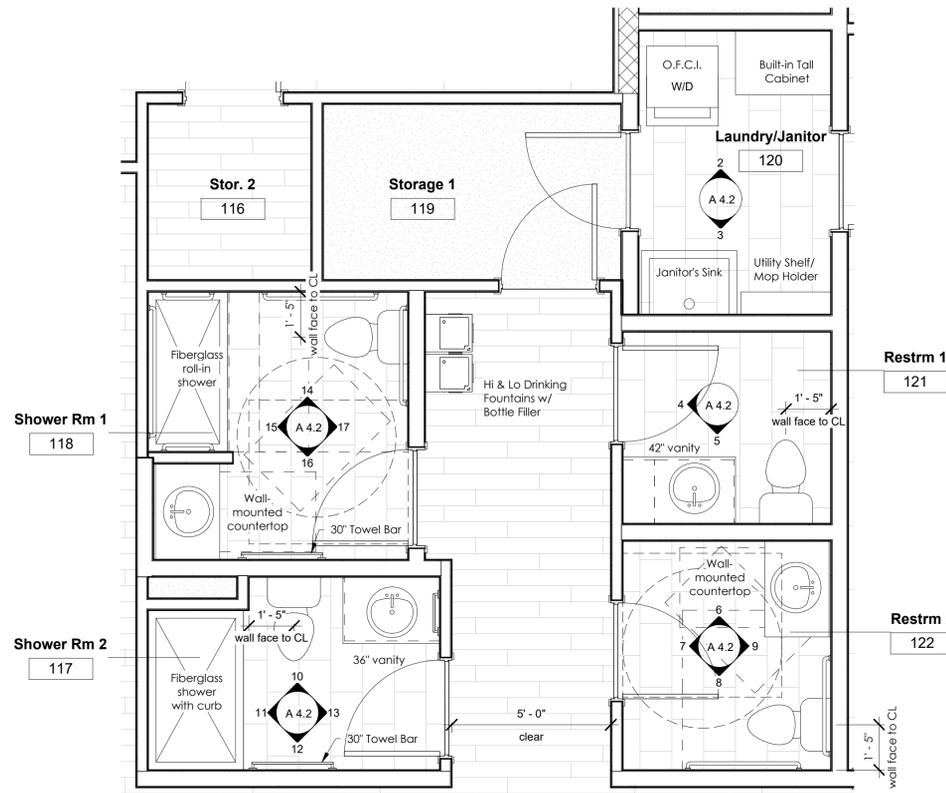
Church Building Renovation & Addition  
4400 W. 19th Street, Panama City, FL  
Trinity United Methodist Church

No.	Description	Date
1	Permit Set	3.11.25
2	ISSUED FOR BIDS	03.02.26

Interior Elevations - Kitchen

Project number 24002  
Date 03/02/2026  
Drawn by JJP

A 4.1  
Scale 3/8" = 1'-0"

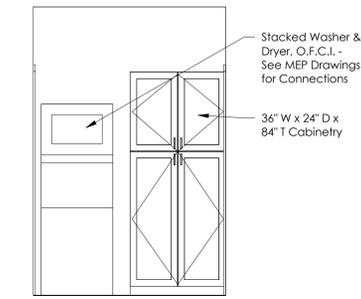


1 Enlarged Plan - Restrooms & Laundry  
3/8" = 1'-0"

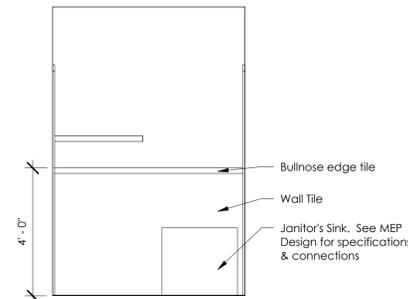
See Typical Mounting Heights Schedule for additional information, typical.

### General Interior Notes

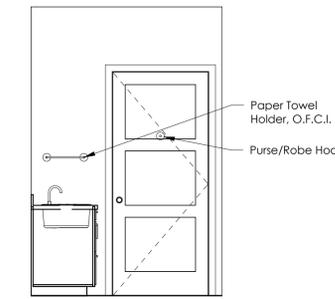
- Quantities (areas) shown on Finish Schedule are approximate and are provided as a convenience to the Contractor. Actual quantities may vary, and it is the responsibility of the Contractor to field-verify.
- Anything specified with a directional pattern (wood-grain laminate, T&G wood ceiling, etc.) shall be installed per the plans. Notify Architect of any conflicts.
- In areas where a floor drain is specified, the Contractor shall slope the concrete floor slab to create positive drainage.
- The contractor shall provide all necessary blocking in walls or ceilings for support of all equipment, shelving, accessories, grab bars, lighting, and other required elements.
- Provide pressure-treated wood where in contact with concrete or masonry.
- The Contractor shall coordinate in-wall piping locations with all recessed items or necessary blocking prior to rough-in.
- Contractors and subcontractors shall reference the Project Manual for detailed information prior to bid.
- Ease all edges on casework to prevent sharp corners.
- Furniture is shown for reference only and is not included in the Construction Contract.
- Use moisture-resistant gypsum wall board at all walls subject to moisture unless wall will be subject to standing water or frequent wetting (shower walls) in which case, cementitious backer shall be used.
- Provide thresholds where required. All thresholds shall be ADA compliant.
- All gypsum board shall have a Level 4 finish unless otherwise indicated.
- "O.F.C.I." means "Owner Furnished, Contractor Installed." Notify Architect and Owner of installation schedule, and provide Owner sufficient time for procurement and delivery.
- Provide marble thresholds at door transition between LVT and Ceramic Tile.



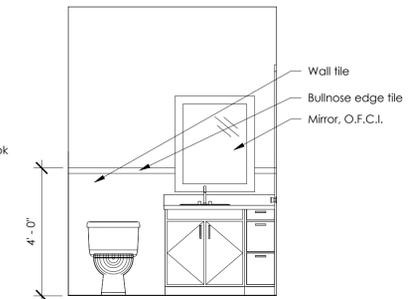
2 Laundry  
3/8" = 1'-0"



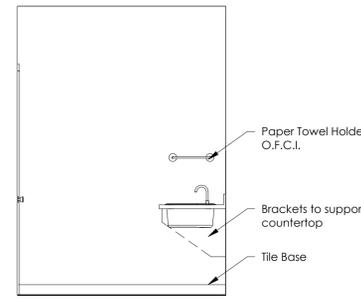
3 Janitor's Sink  
3/8" = 1'-0"



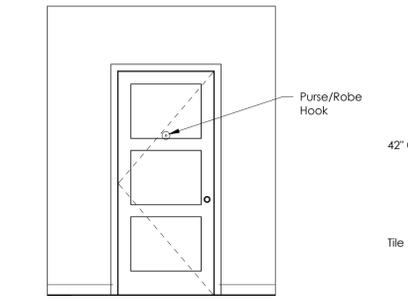
4 Restroom 1 - West  
3/8" = 1'-0"



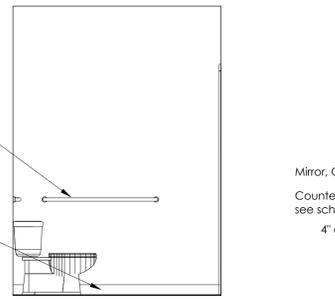
5 Restroom 1 - South  
3/8" = 1'-0"



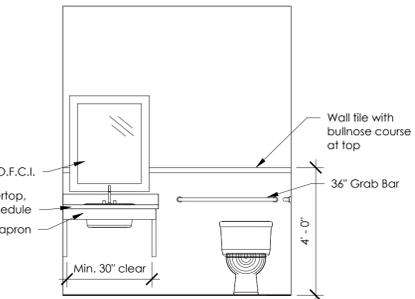
6 Restroom 2 - North  
3/8" = 1'-0"



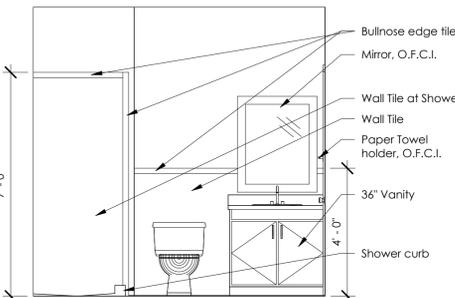
7 Restroom 2 - West  
3/8" = 1'-0"



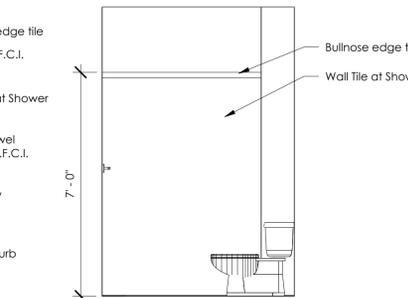
8 Restroom 2 - South  
3/8" = 1'-0"



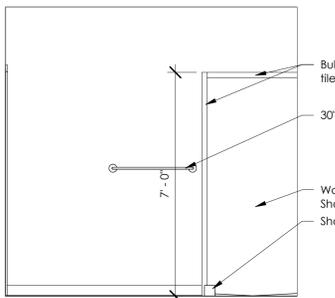
9 Restroom 2 - East  
3/8" = 1'-0"



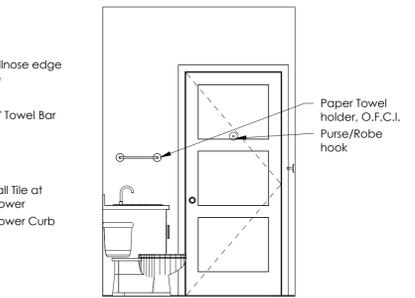
10 Shower Room 2 - North  
3/8" = 1'-0"



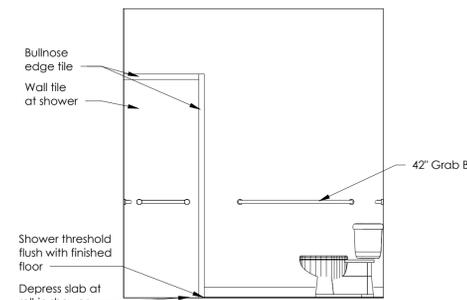
11 Shower Room 2 - West  
3/8" = 1'-0"



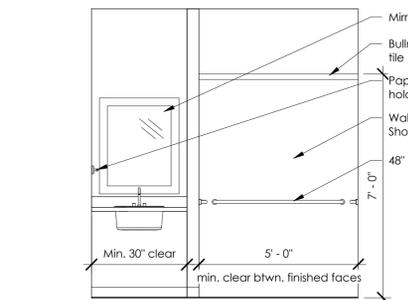
12 Shower Room 2 - South  
3/8" = 1'-0"



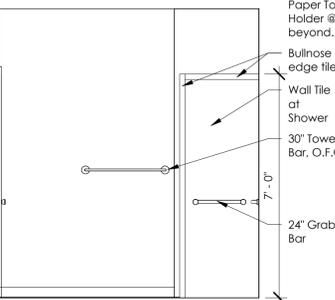
13 Shower Room 2 - East  
3/8" = 1'-0"



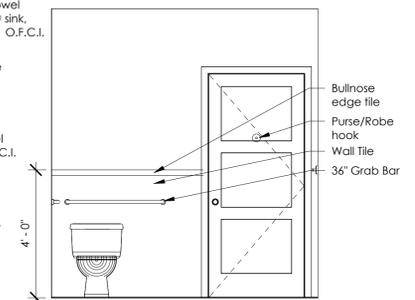
14 Shower Room 1 - North  
3/8" = 1'-0"



15 Shower Room 1 - West  
3/8" = 1'-0"



16 Shower Room 1 - South  
3/8" = 1'-0"



17 Shower Room 1 - East  
3/8" = 1'-0"

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## Church Building Renovation & Addition 4400 W. 19th Street, Panama City, FL Trinity United Methodist Church

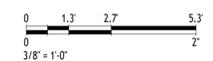
No.	Description	Date
1	Permit Set	3.11.25
2	ISSUED FOR BIDS	03.02.26

### Interior Elevations - Restrooms & Laundry

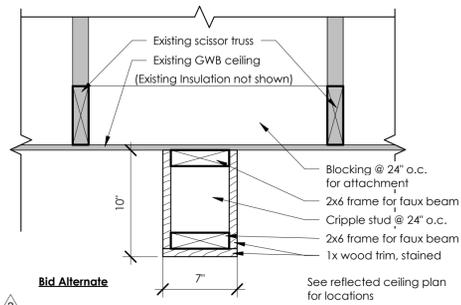
Project number 24002  
Date 03/02/2026  
Drawn by JJP

# A 4.2

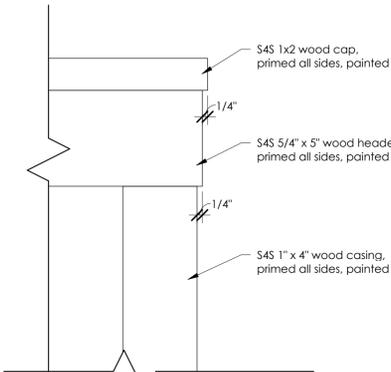
Scale As indicated



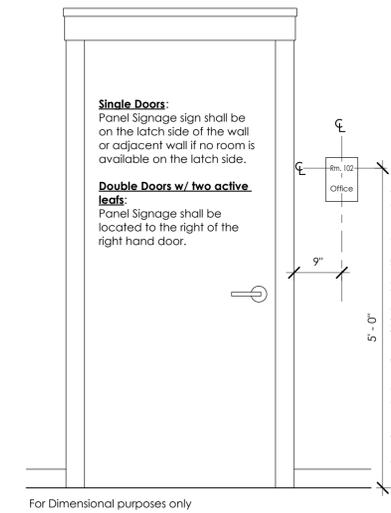
See Typical Mounting Heights Schedule for additional information, typical.



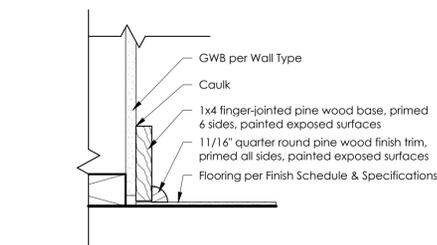
11 Faux Wood Beam @ Living Room  
1 1/2" = 1'-0"



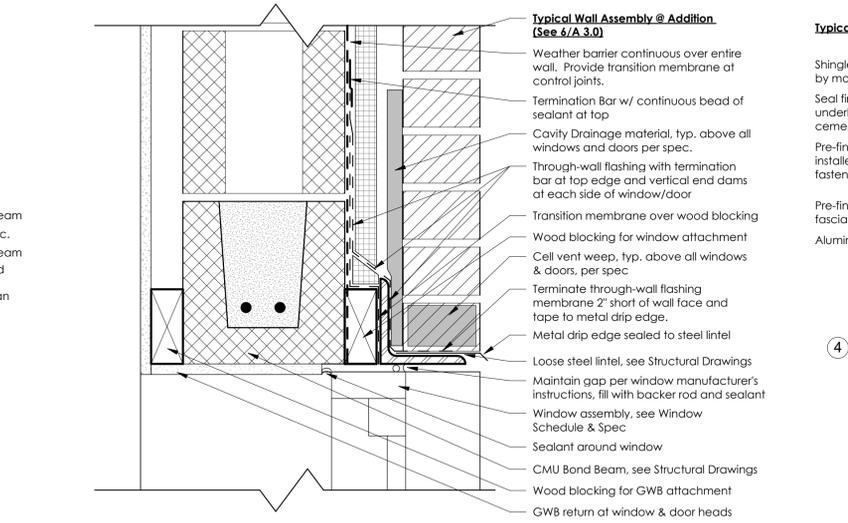
10 Interior Door Casing, Typ.  
3" = 1'-0"



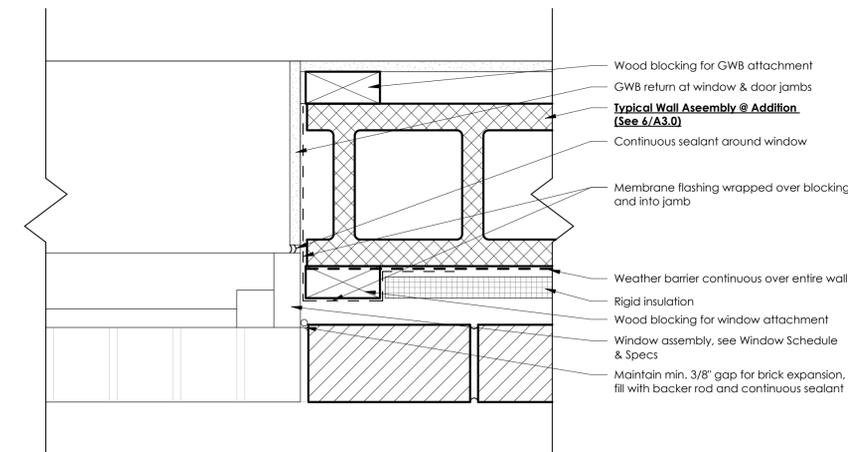
9 Panel Signage Mounting Location  
3/4" = 1'-0"



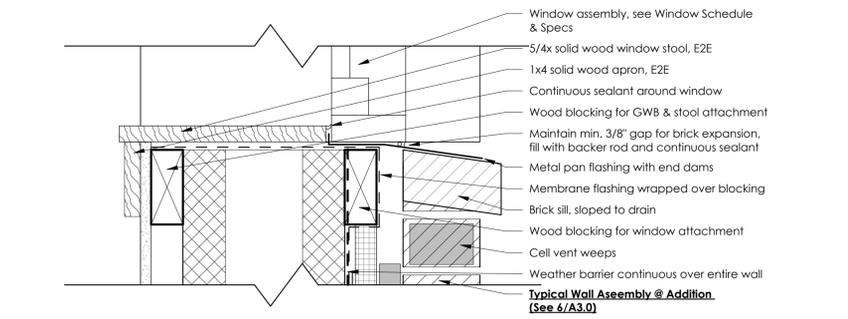
8 Baseboard Detail  
3" = 1'-0"



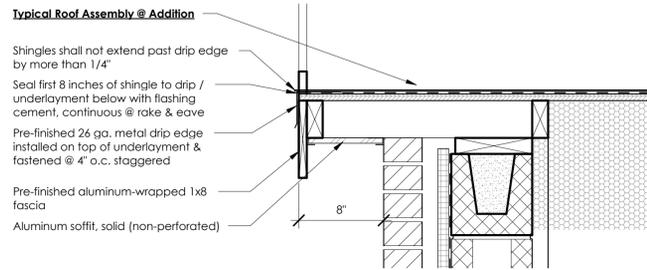
7 Detail @ Addition - Window/Door Head  
3" = 1'-0"



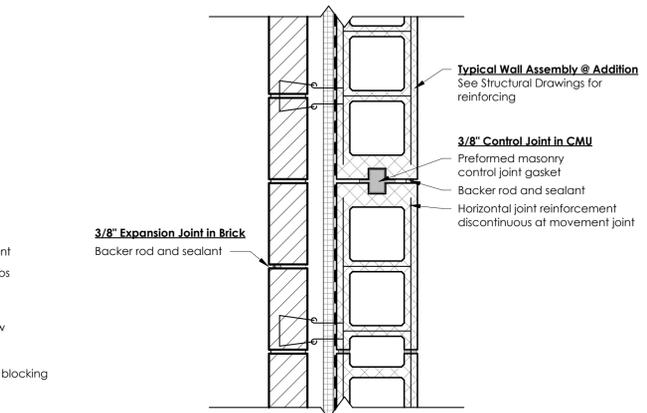
6 Detail @ Addition - Window/Door Jamb  
3" = 1'-0"



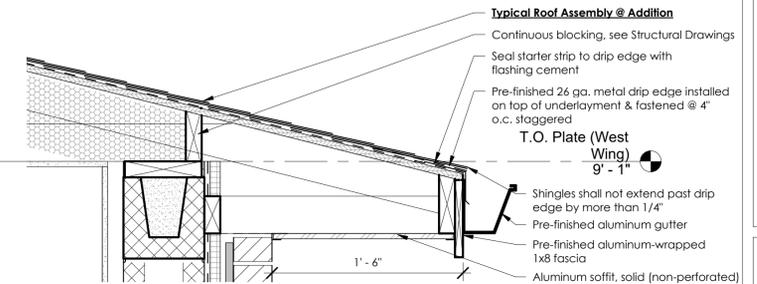
5 Detail @ Addition - Window Sill  
3" = 1'-0"



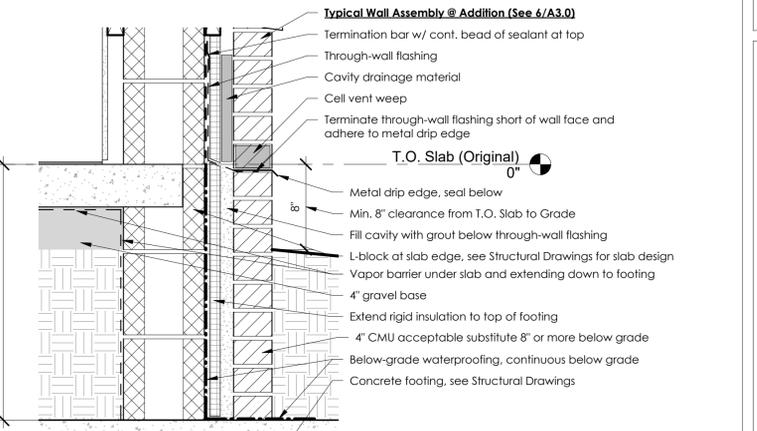
4 Detail @ Addition - Rake  
1 1/2" = 1'-0"



3 Detail @ Masonry Wall Movement Joint  
1 1/2" = 1'-0"



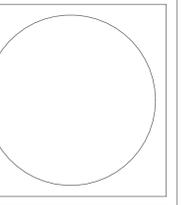
2 Detail @ Addition - Eave  
1 1/2" = 1'-0"



1 Detail @ Addition - Base of Wall  
1 1/2" = 1'-0"

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Church Building Renovation & Addition  
4400 W. 19th Street, Panama City, FL  
Trinity United Methodist Church

No.	Description	Date
1	Permit Set	3.11.25
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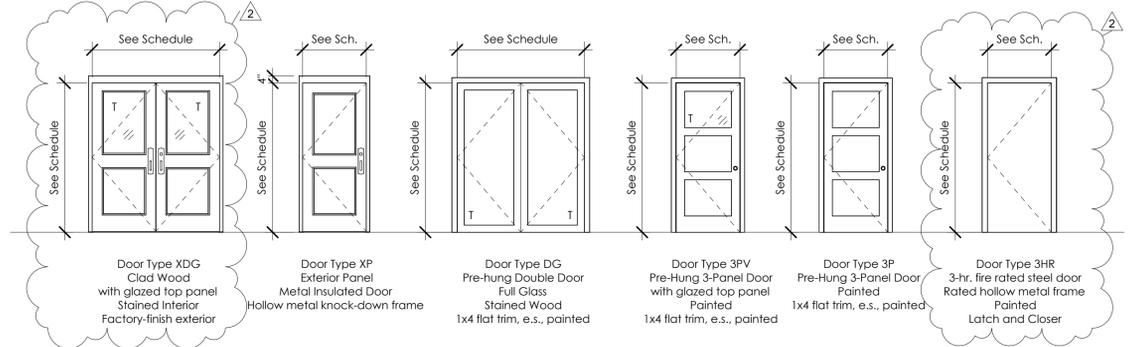
Details

Project number 24002  
Date 03/02/2026  
Drawn by JPJ

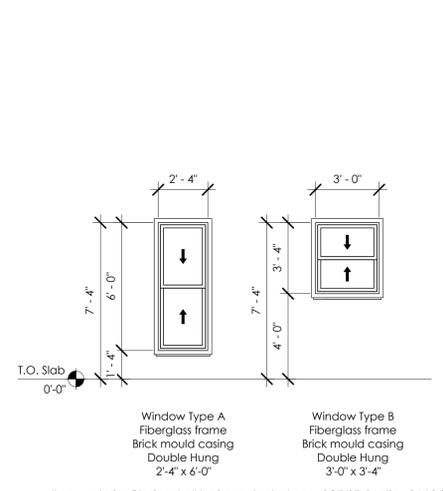
**A 5.0**

Scale As indicated

Door Schedule												
Door Number	Door Type	Door					Frame					Comments
		Width	Height	Thickness	Material	Finish	Hardware	Type	Material	Finish		
1	XDG	6'-0"	8'-0"	1 3/4"	Wood Clad	Stain Interior	1	Pre-Hung	Wood Clad	Stain Interior		
2	XP	3'-0"	7'-0"	1 3/4"	Metal Insulated	Paint	2	knock down	HM	Paint		
3	XP	3'-0"	7'-0"	1 3/4"	Metal Insulated	Paint	2	knock down	HM	Paint		
4	XP	3'-0"	7'-0"	1 3/4"	Metal Insulated	Paint	2	knock down	HM	Paint		
5	XP	3'-0"	7'-0"	1 3/4"	Metal Insulated	Paint	2	knock down	HM	Paint		
6	DG	6'-0"	7'-0"	1 3/4"	Wood	Paint	5	Pre-Hung	Wood	Paint		
7	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
8	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
9	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
10	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
11	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
12	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
13	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
14	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	3	Pre-Hung	Wood	Paint		
15	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	8	Pre-Hung	Wood	Paint		
16	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	4	Pre-Hung	Wood	Paint		
17	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	4	Pre-Hung	Wood	Paint		
18	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	6	Pre-Hung	Wood	Paint		
19	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	6	Pre-Hung	Wood	Paint		
20	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	4	Pre-Hung	Wood	Paint		
21	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	4	Pre-Hung	Wood	Paint		
22	3PV	3'-0"	7'-0"	1 3/4"	Wood	Paint	6	Pre-Hung	Wood	Paint		
23	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	6	Pre-Hung	Wood	Paint		
24	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	8	Pre-Hung	Wood	Paint		
25	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	7	Pre-Hung	Wood	Paint		
26	CO	0"	0"								Cased Opening	
27	3HR	3'-0"	7'-0"	2"	Metal Fire Rated	Paint	9	knock down	HM	Paint	Closer	
28	XP	3'-0"	7'-0"	1 3/4"	Metal Insulated	Paint	2	knock down	HM	Paint		
29	3P	3'-0"	7'-0"	1 3/4"	Wood	Paint	6	Pre-Hung	Wood	Paint		

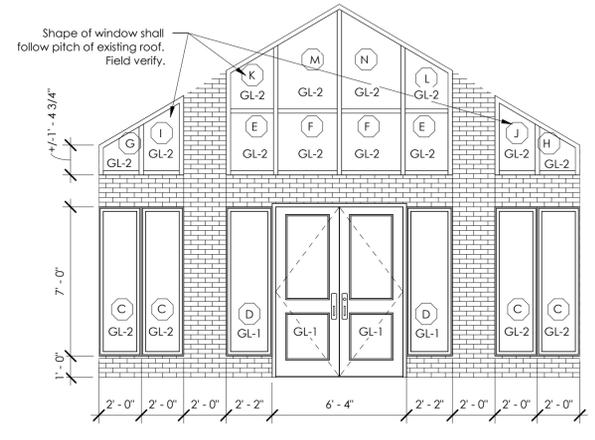


Door and Frame Legend  
1/4" = 1'-0"



All new exterior Glazing shall be impact rated per ASCE/SEI Section 26.12.3.

Window Legend  
1/4" = 1'-0"



Window Types C through N shall be fixed/picture fiberglass unit windows with brick mould casing at exterior and impact rated glazing per ASCE/SEI Section 26.12.3.  
GL-1: Insulated Glazing Unit, Impact-rated, Tinted, & Tempered  
GL-2: Insulated Glazing Unit, Impact-rated & Tinted

Windows @ Main Entrance  
1/4" = 1'-0"

Finish Schedule										
Number	Name	Area	Floor Finish	Base Finish	Wall Finish	Door Frame Finish	Window Stool Finish	Ceiling Finish	Countertop Material	Comments
101	Living Room	2412 SF	LVP-1	WD-1 / PT-2	PT-1	PT-2	PT-2	PT-3	PL-1	Base Bid is patch, re-texture, and repaint existing GWB at scissor truss (lower) ceiling. Bid Alternate at scissor truss (lower) ceiling for faux beams, stained.
102	Dining Room	1114 SF	LVP-1	WD-1 / PT-2	PT-1	PT-2	PT-2	T&G / ST-1		
103	Corridor 1	216 SF	LVP-1	WD-1 / PT-2	PT-1	PT-2	PT-2	PT-3		
104	Warming Kitchen	675 SF	CT -1	CT-1	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3	PL-1 and Qz-1	Bid Alternate: stained T&G ceiling at vaulted ceiling over Serving Island and Coffee Bar. Base Bid is Quartz countertops at Serving Island and Coffee Bar with all other Kitchen Countertops as Plastic Laminate. Bid Alternate: Quartz countertops throughout Kitchen in lieu of Plastic Laminate Countertops.
105	Pantry	39 SF	CT -1	CT-1	GWB / PT-1	PT-2		GWB / PT-3		
106	Corridor 2	546 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2		GWB / PT-3		
107	Shared Office / Workroom	148 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
108	Shared Office 2	113 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
109	Private Office 3	114 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
110	Private Office 2	123 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
111	Private Office 1	135 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
112	Private Office 5	102 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
113	Private Office 4	104 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		
114	Chapel / Meeting Room	476 SF	LVP-1	WD-1 / PT-2	GWB / PT-1	PT-2	WD-1 / PT-2	GWB / PT-3		Bid Alternate: stained T&G ceiling at vaulted ceiling.
115	Mech./ Elec.	77 SF	SC	RB-1	GWB / PT-1	PT-2		GWB / PT-3		
116	Stor. 2	28 SF	LVP-1	RB-1	GWB / PT-1	PT-2		GWB / PT-3		
117	Shower Rm 2	52 SF	CT -2	CT -3	GWB / PT-1 and CT-3	PT-2		GWB / PT-3	Qz-2	Wall Tile to 4' AFF on North Wall and to 7' at Shower.
118	Shower Rm 1	67 SF	CT -2	CT -3	GWB / PT-1 and CT-3	PT-2		GWB / PT-3	Qz-2	Wall Tile to 4' AFF on East wall and to 7' at shower.
119	Storage 1	52 SF	SC	RB-1	GWB / PT-1	PT-2		GWB / PT-3		
120	Laundry/Janitor	54 SF	CT -1	CT-1	GWB / PT-1 and CT-3	PT-2		GWB / PT-3		Wall Tile to 4' AFF on South wall.
121	Restrm 1	39 SF	CT -2	CT -3	GWB / PT-1 and CT-3	PT-2		GWB / PT-3	Qz-2	Wall Tile to 4' AFF on South wall.
122	Restrm 2	47 SF	CT -2	CT -3	GWB / PT-1 and CT-3	PT-2		GWB / PT-3	Qz-2	Wall Tile to 4' AFF on East wall.
123	Storage 3	113 SF	SC	RB-1	PT-1	PT-2		PT-3		

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Trinity United Methodist Church

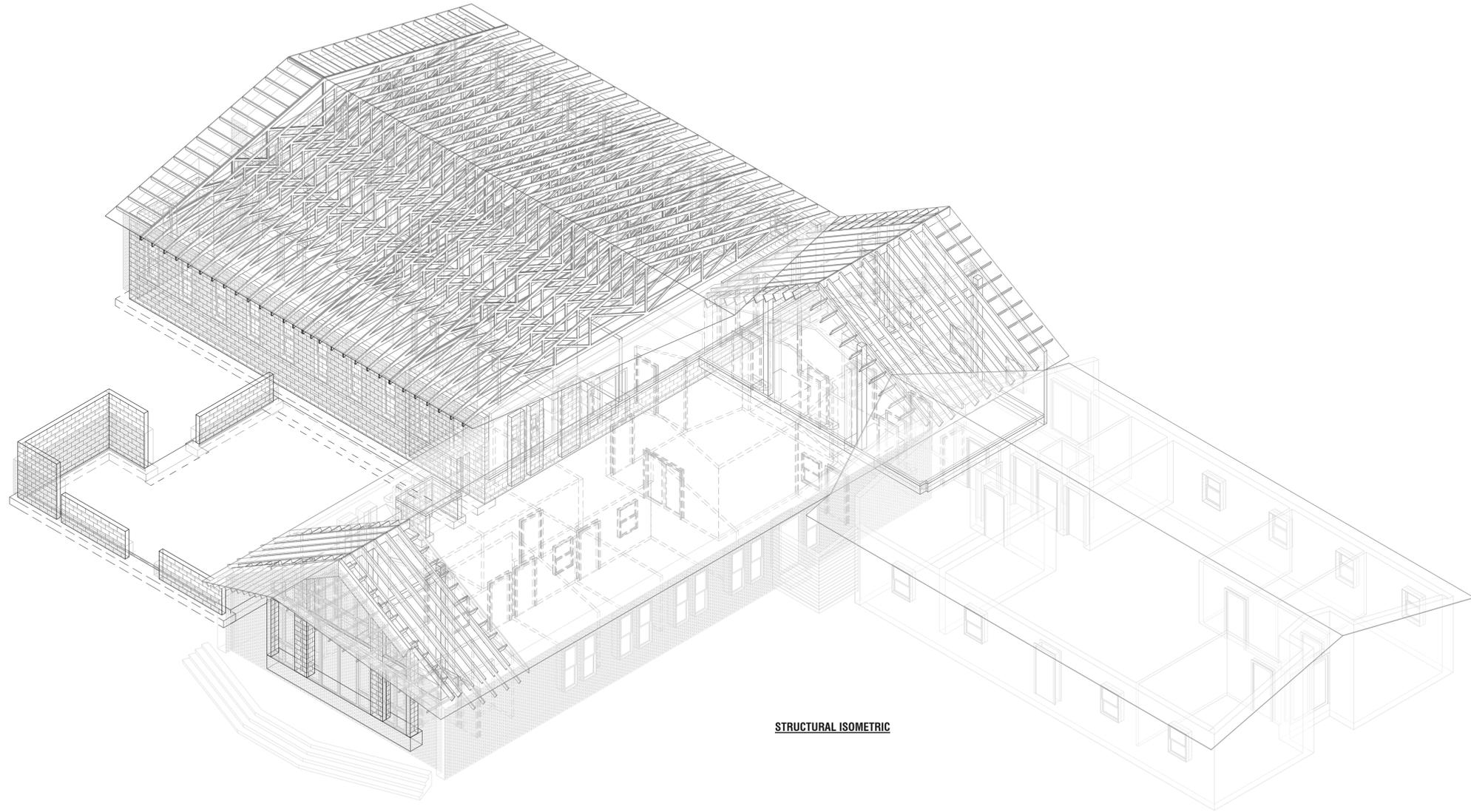
No.	Description	Date
1	Permit Set	3.11.25
2	ISSUED FOR BIDS	03.02.26

Schedules & Legends

Project number	24002
Date	03/02/2026
Drawn by	JPJ

A 6.0

Scale 1/4" = 1'-0"



**STRUCTURAL ISOMETRIC**

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**4400 W. 19th Street, Panama City, FL**  
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No.	Description	Date

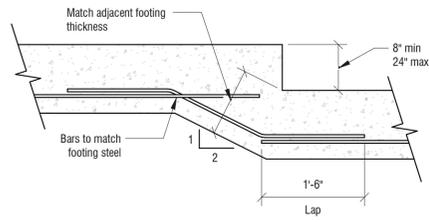
**Structural  
 Isometric**

Project number 24002  
 Date 03/10/25  
 Drawn by JD

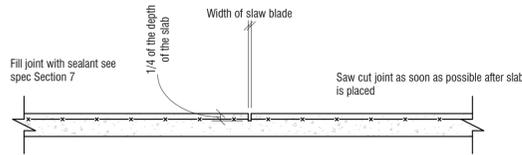
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Scale

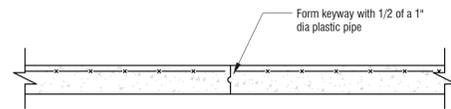




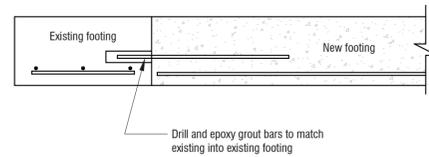
Single Footing Step



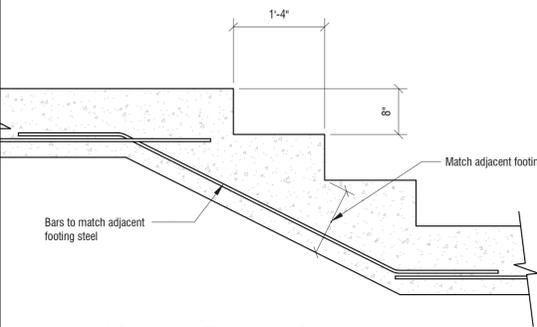
Typical Control Joint



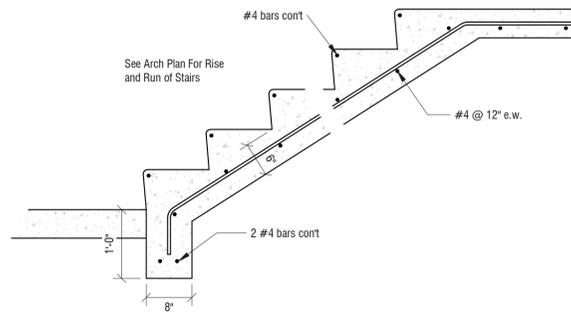
Typical Construction Joint



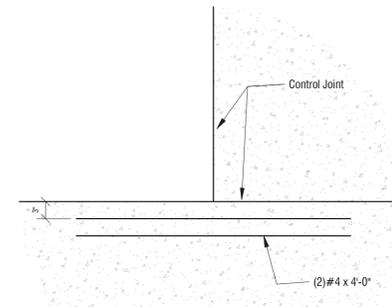
Typical New Footing to Existing Footing Details



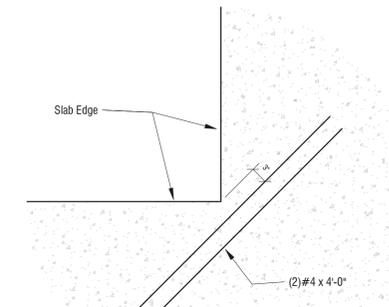
Multiple Footing Step



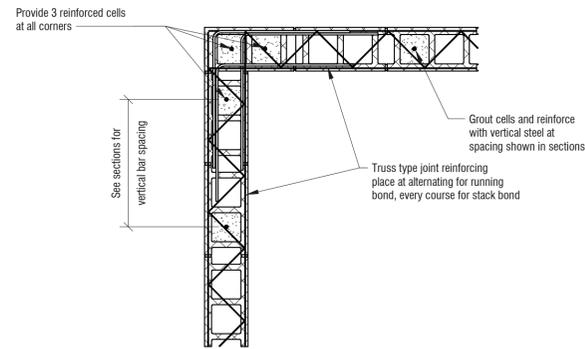
Stairs On Grade



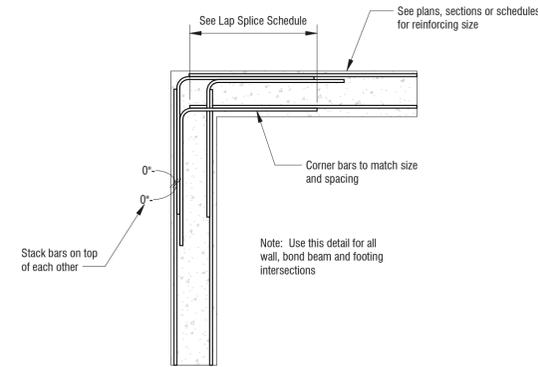
Discontinuous Control Joint



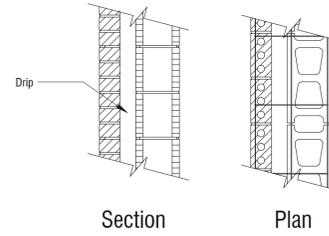
Re-entrant Corner



Typical Joint Reinforcing at Corner



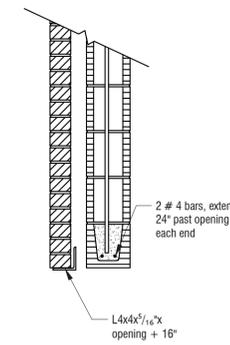
Typical Beam, Wall or Footing Reinforcing at Corners



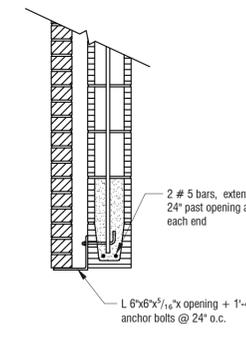
Exterior Masonry Wall Details

Note:  
Place joint reinforcing shown @ 16" o.c. vertical in running bond block walls.  
Place joint reinforcing @ 8" o.c. in stack bond walls

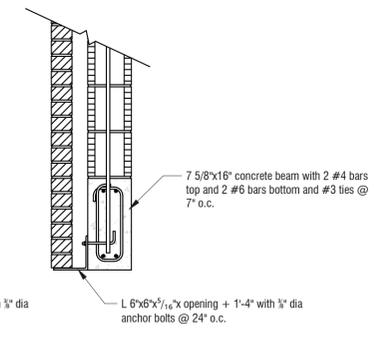
Typical Slab on Grade Supplemental Rebar Details



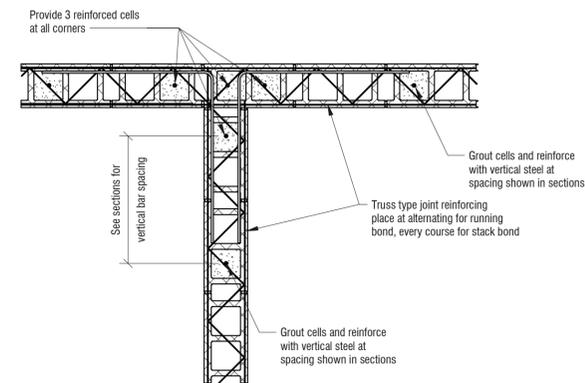
Less than 4'-0"



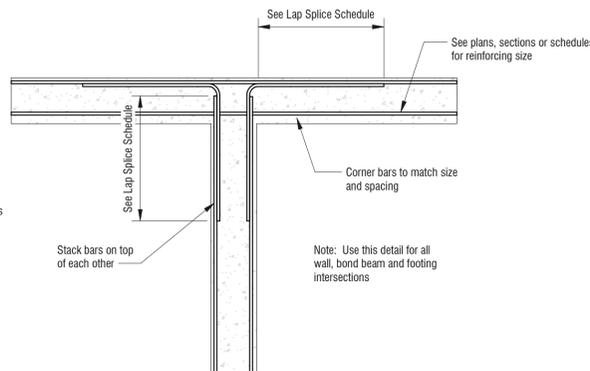
Less than 8'-0"



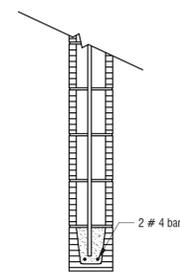
Less than 12'-0"



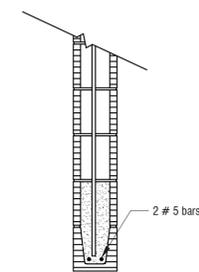
Typical Joint Reinforcing at Intersection



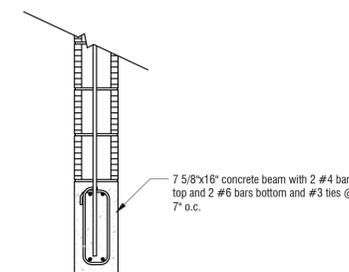
Typical Beam, Wall or Footing Reinforcing at Intersections



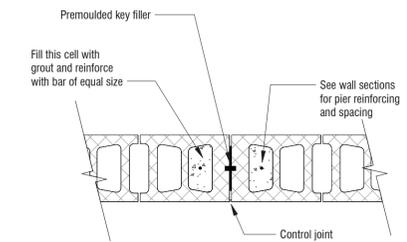
Less than 4'-0"



Less than 8'-0"



Less than 12'-0"



Note:  
1. See architectural plan for spacing. If spacing is not shown place joints at 3 times the wall height but not greater than 20'-0" o.c., and at 4'-0" from corners.  
2. Extend all horizontal reinforcing including bond beam steel thru control joints.

Typical Masonry Wall Control Joint

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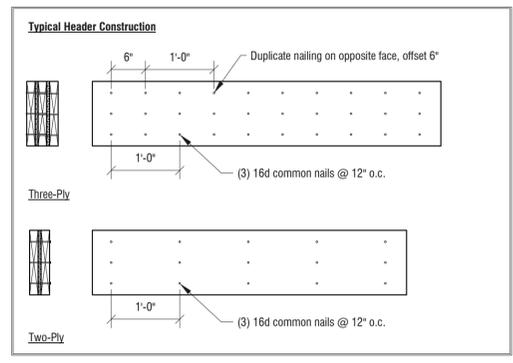
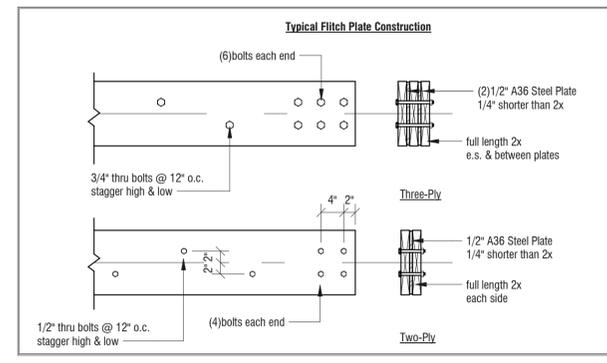
No.	Description	Date

Typical Details

Project number 24002  
Date 03/10/25  
Drawn by JD

**S0.2**

Scale 3/4" = 1'-0"



### Load Bearing Wood Header Schedule

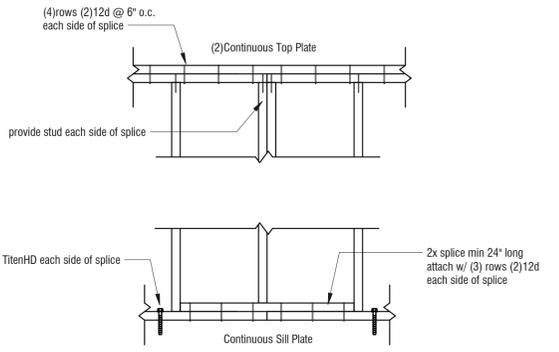
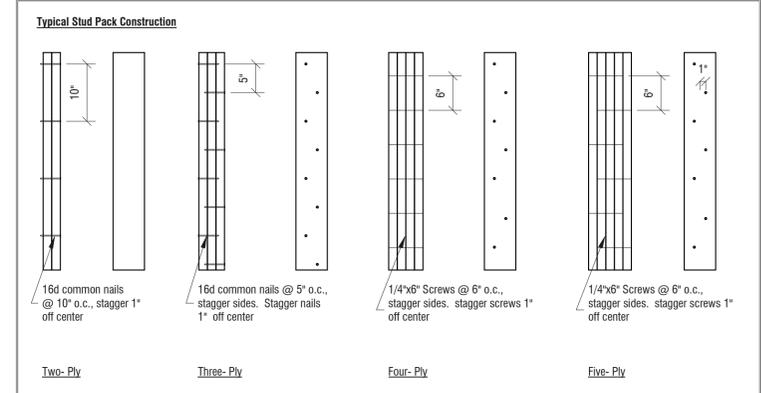
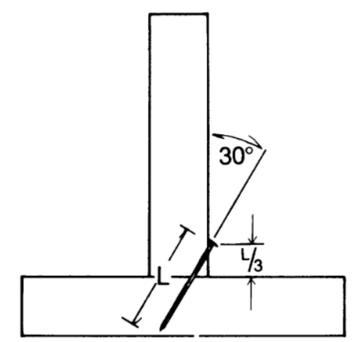
Span	Header Composition
< 4'-0"	(2) 2x8 - SYP #2 w/ cont 1/2" plywood gusset
< 6'-0"	(2) 2x10 - SYP #2 w/ cont 1/2" plywood gusset
< 8'-0"	(2) 1 3/4"x11 1/4" LVL

### Beam Bearing Stud Pack

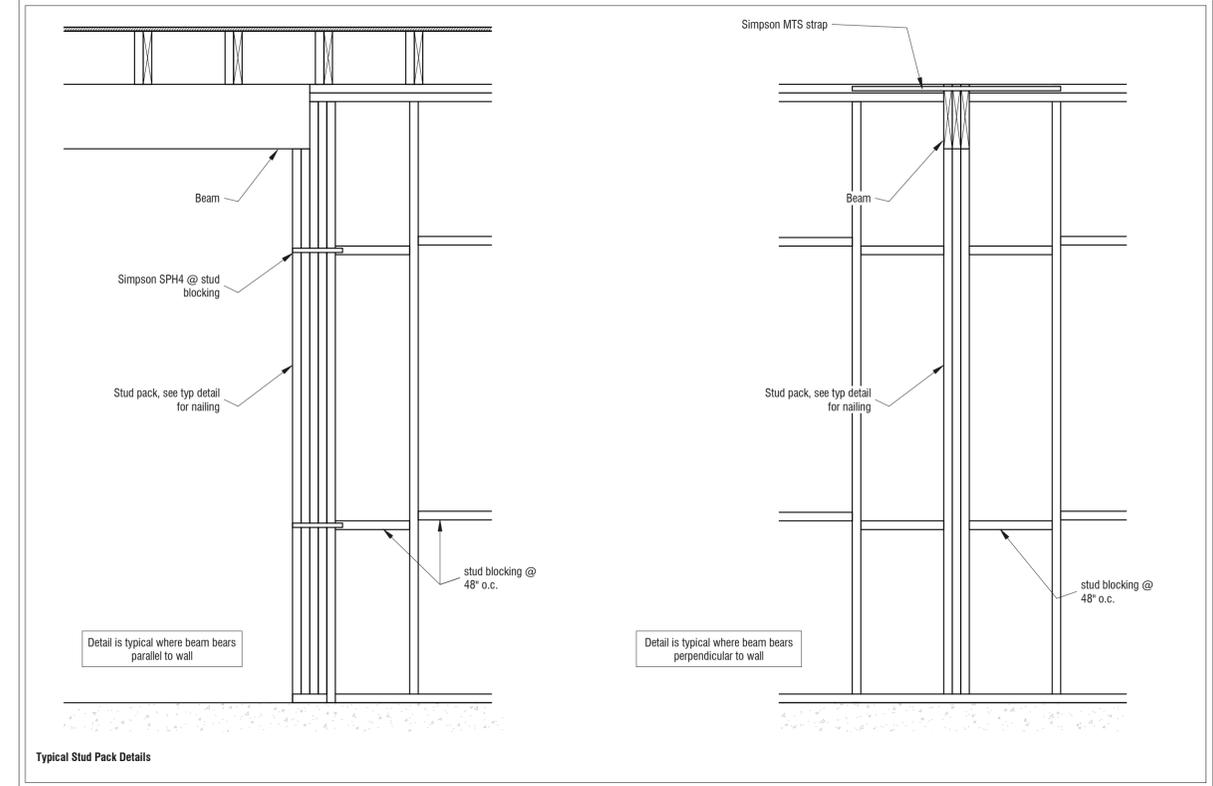
Total Load Unfactored	# Studs
< 1,000 lb	2
< 5,000 lb	4
< 10,000 lb	5
> 10,000 lb	HSS3 1/2x3 1/2x5/16"

Stud pack must be braced horizontally by blocking @ 4'-0" o.c. vert or with sheathing full height.

**Figure 12A Toe-Nail Connection**



**Typical Top & Sill plate Splice Detail**

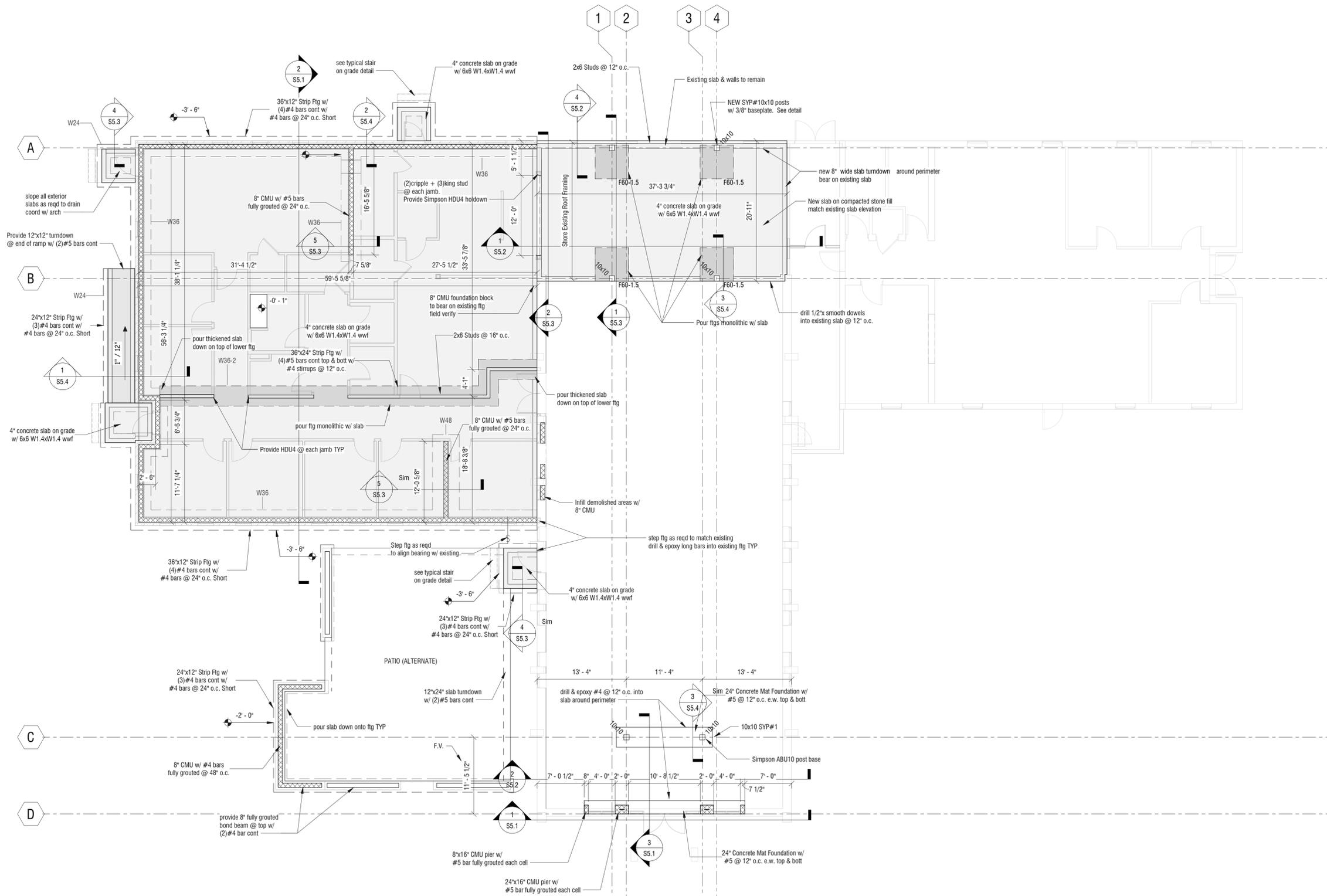


### Wood Nailing Schedule

Connection	Fasteners	Location/Type
Sole plate to joist or blocking (non-load-bearing partition)	16d	facenail
Sole plate to joist or blocking (load-bearing wall)	3-16d	facenail
Stud to sill plate	4-8d 2-16d	toenail end nail
Double studs	16d @ 16"	facenail
Built-up corner studs	16d	@ 16"
Top plate to stud	2-16d	end nail
Top plate to beam or girder	2-16d @ 16"	face nail
Double top plates	16d @ 16" 8-16d	facenail lap splice
Joist to sill or girder or top plate	3-8d	toenail
Blocking to joist	2-8d	toenail each end
Blocking between joists or rafters to top plate	3-8d	toenail
Rim joist to top plate	10d @ 6"	toenail
Ceiling joists to plate	3-8d	toenail
Ceiling joists, laps over partitions	3-16d	face nail
Ceiling joists to parallel rafters	3-16d	face nail
Collar tie to rafter	3-10d	facenail
Rafter to plate	hurricane clip	hurricane clip
Built-up headers (multiple header pieces w/ horiz 2x plate t&b)	See Detail	facenail header pieces together t&b horiz 2x to header pieces
1/2" Wall Sheathing - all panel edges blocked	8d @ 6" 8d @ 12"	panel edge studs & blocking panel interior studs
3/4" Floor Decking - panel edges unblocked	10d @ 6" 10d @ 12"	panel edge joists panel interior joists
5/8" Roof Decking - panel edges unblocked	8d @ 4"	panel edge joists

No.	Description	Date





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

- Sheet Notes:**
- See S0 Sheets for Typical Details & General Notes
  - Reference all elevations to FF EL (+) or FF (-)
  - Exterior Top of Footing EL (-) 12'-0" below FF Typ OR 1'-0" below adjacent grade, coord w/ Civil
  - Interior Top of Footing EL (-) 10'-8" below FF Typ
  - \$ indicates footing step locations.
  - Provide (2) #4 x 4'-0" at all re-entrant corners, space 6" off each corner.
  - Control Joint spacing 12'-0" max/ see typical detail, coord layout w/ arch/tenant

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**Church Building Renovation & Addition**  
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**Trinity United Methodist Church**

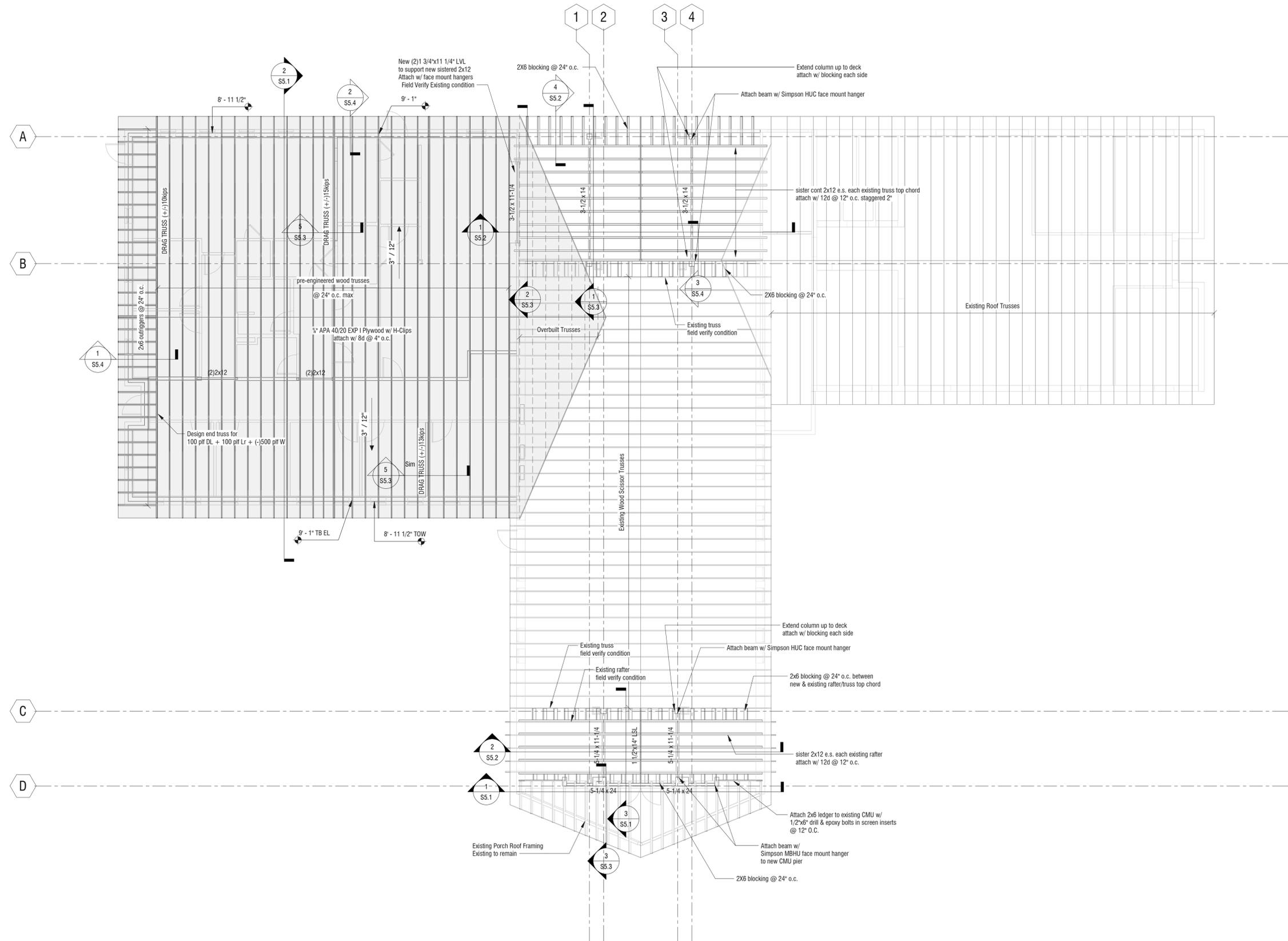
No.	Description	Date

**Foundation Plan**

Project number 24002  
Date 03/10/25  
Drawn by JD

**S1.1**

Scale As indicated



**ROOF FRAMING PLAN**  
1/8" = 1'-0"

- Sheet Notes:**
- See Sheet No S0.0 for typical details and general notes.
  - Reference all elevations to finish floor elevation (+) 0'-0"
  - New Truss Bearing Elevation (+) 9'-1"
  - Roof construction 5/8" plywood deck with H-clips. Attach with 8d nails @ 4" o.c.
  - Refer to architectural drawings for all dimensions, slopes, elevations, etc... not illustrated on this plan. Coordinate all final dimensions and elevations with architectural.
  - Truss loading: Top Chord Live Load = 20psf for 4/12 slope, Top Chord Dead Load = 10 psf, Bottom Chord Dead Load = 10 psf.
  - Truss requirements: (note that all of these requirements must be included in the truss submittal prior to receiving approval)
    - Furnish design calculations sealed by a Professional Engineer licensed in the state of Florida for all truss members.
    - Truss manufacturer shall specify and provide all truss to truss and truss bearing connections, and not contain mention of "by others" in relation to design.
    - Truss manufacturer shall be responsible for providing and illustrating all temporary and permanent bracing required.
    - Truss manufacturer shall provide SYP #2, 2x6 studs minimum for top and bottom chords of trusses.

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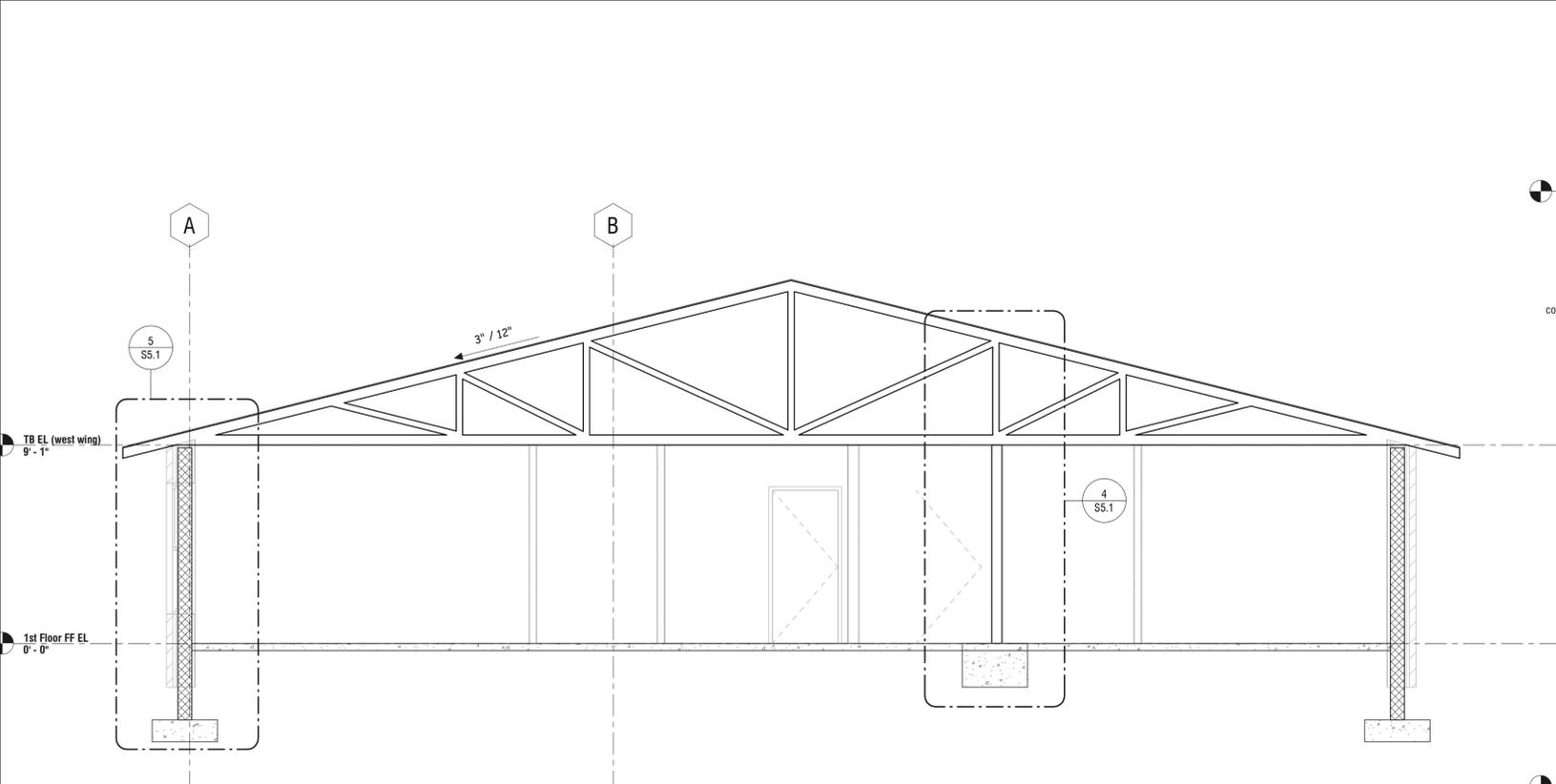
No.	Description	Date

**Roof Framing Plan**

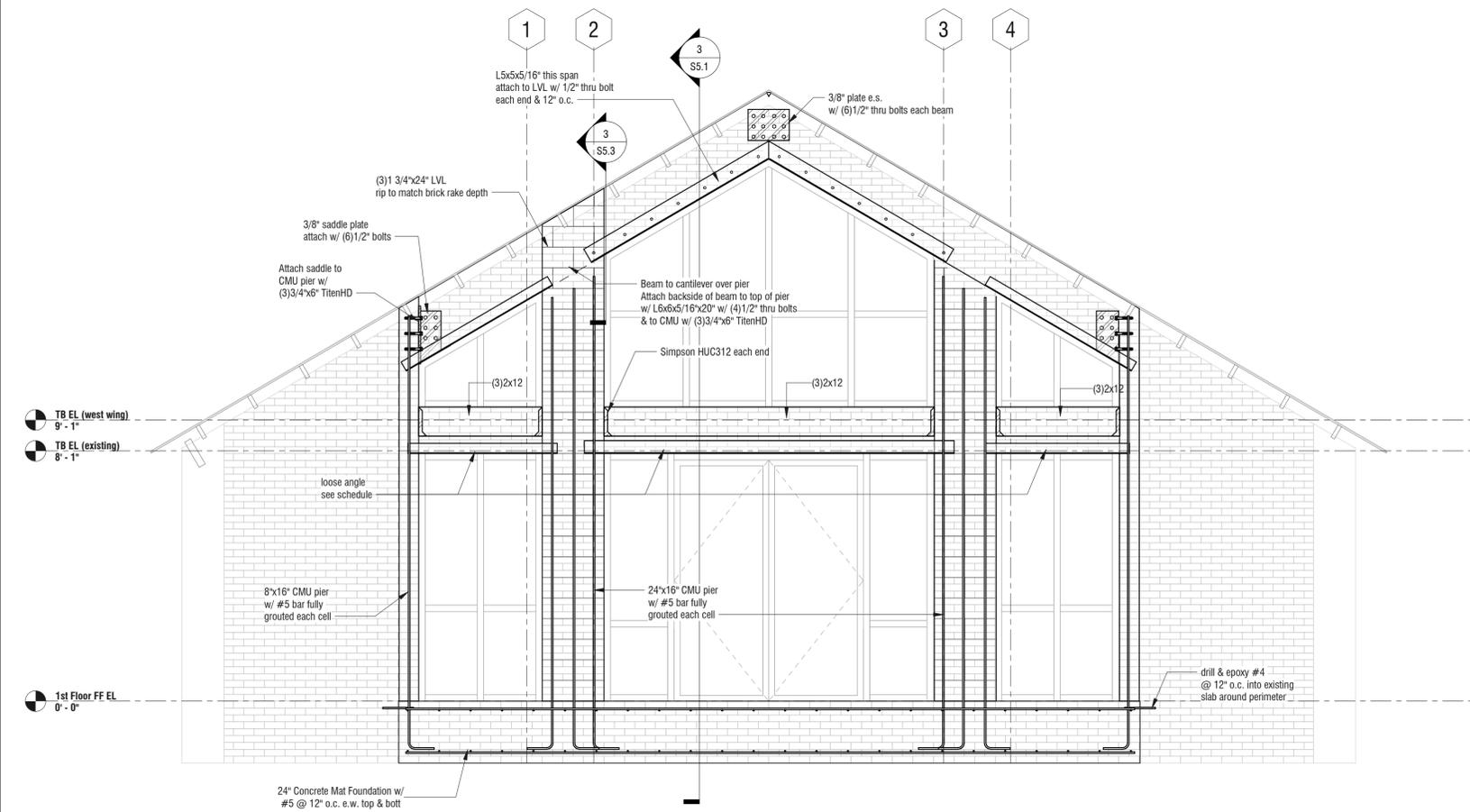
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Date 03/10/25  
Drawn by JD

**S3.1**

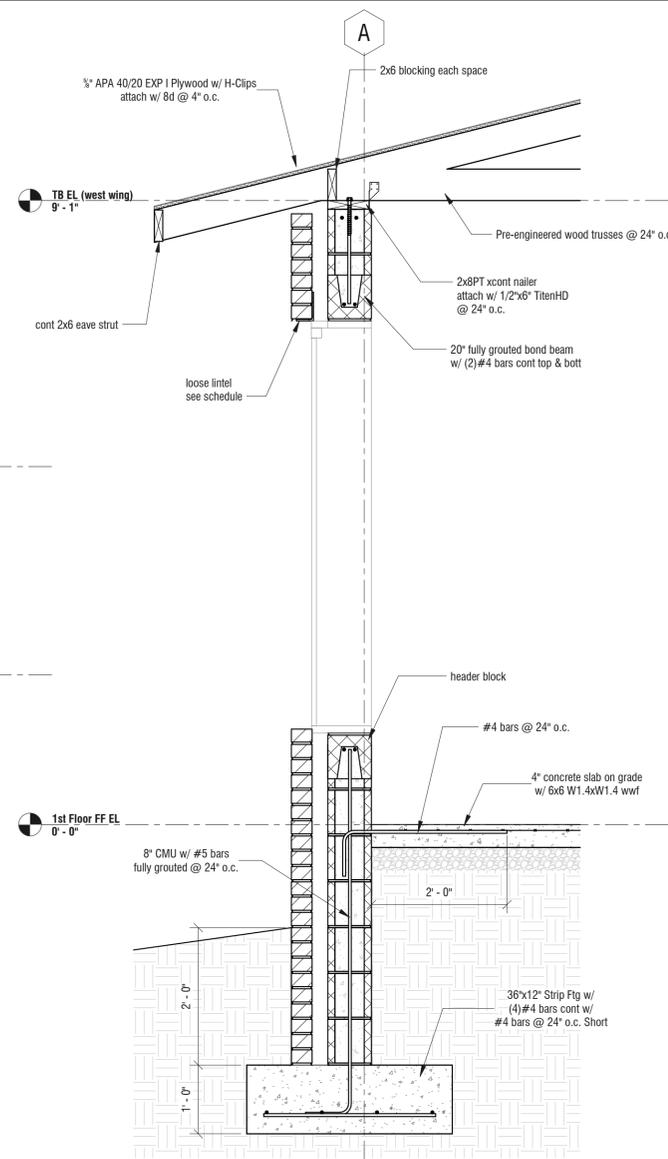
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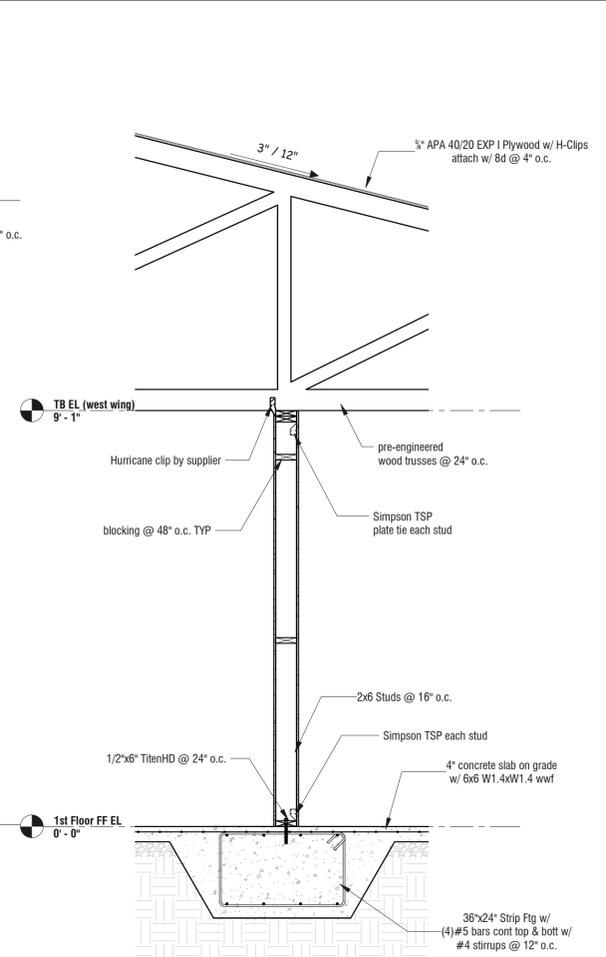
**Section 2**  
1/4" = 1'-0"



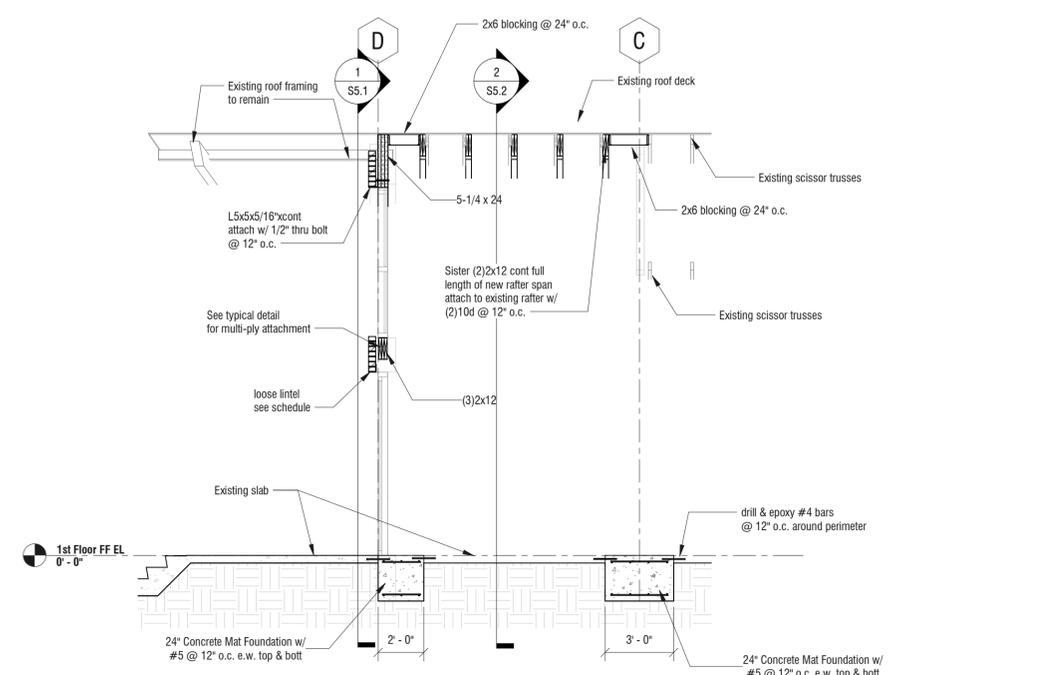
**Section 1**  
3/8" = 1'-0"



**Section 5**  
3/4" = 1'-0"



**Section 4**  
1/2" = 1'-0"



**Section 3**  
1/4" = 1'-0"

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No.	Description	Date

**Sections and Details**

Project number 24002  
Date 03/10/25  
Drawn by JD

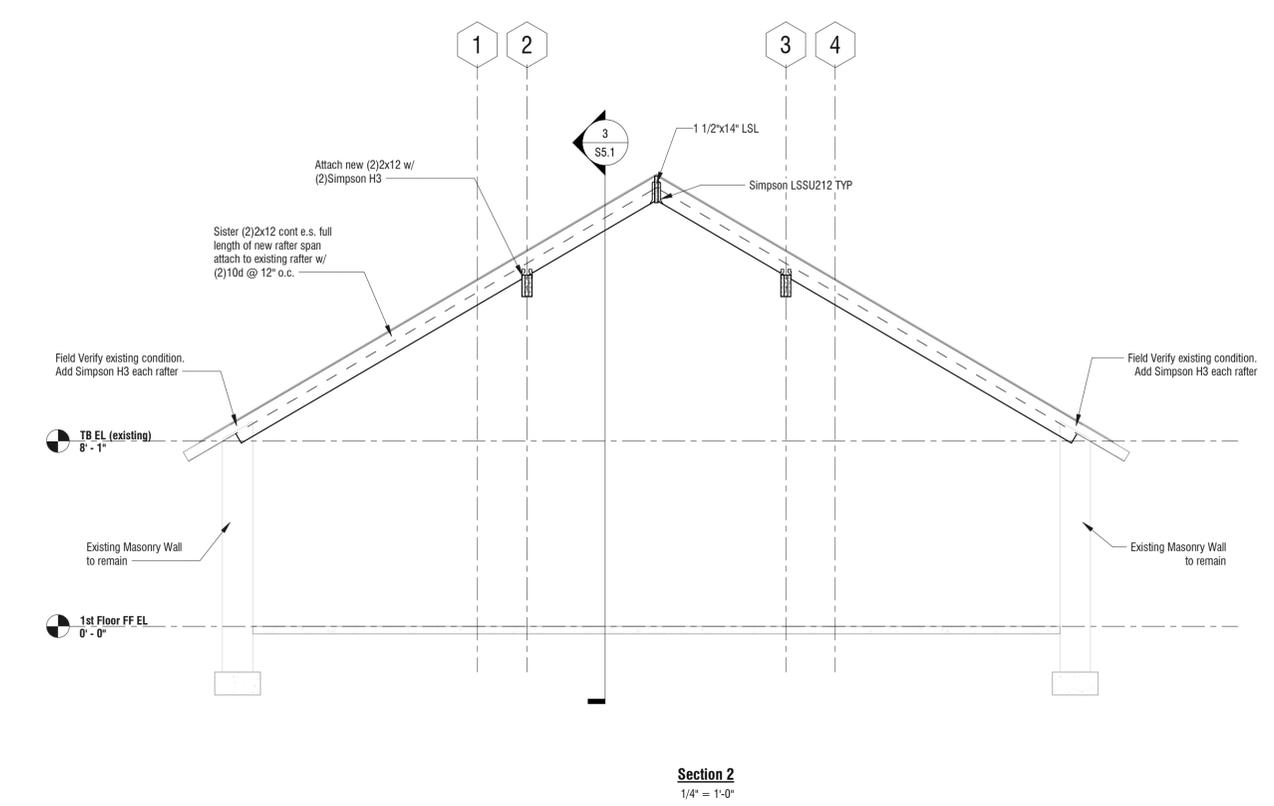
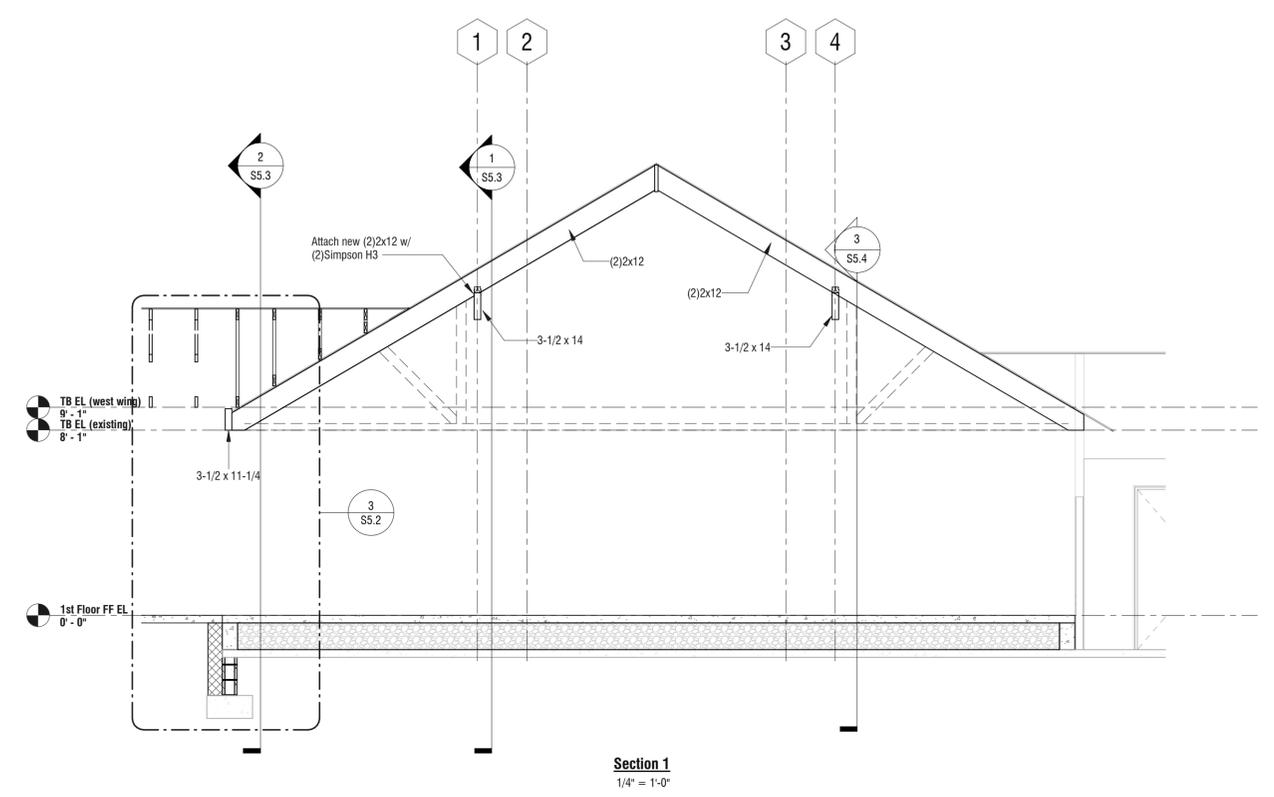
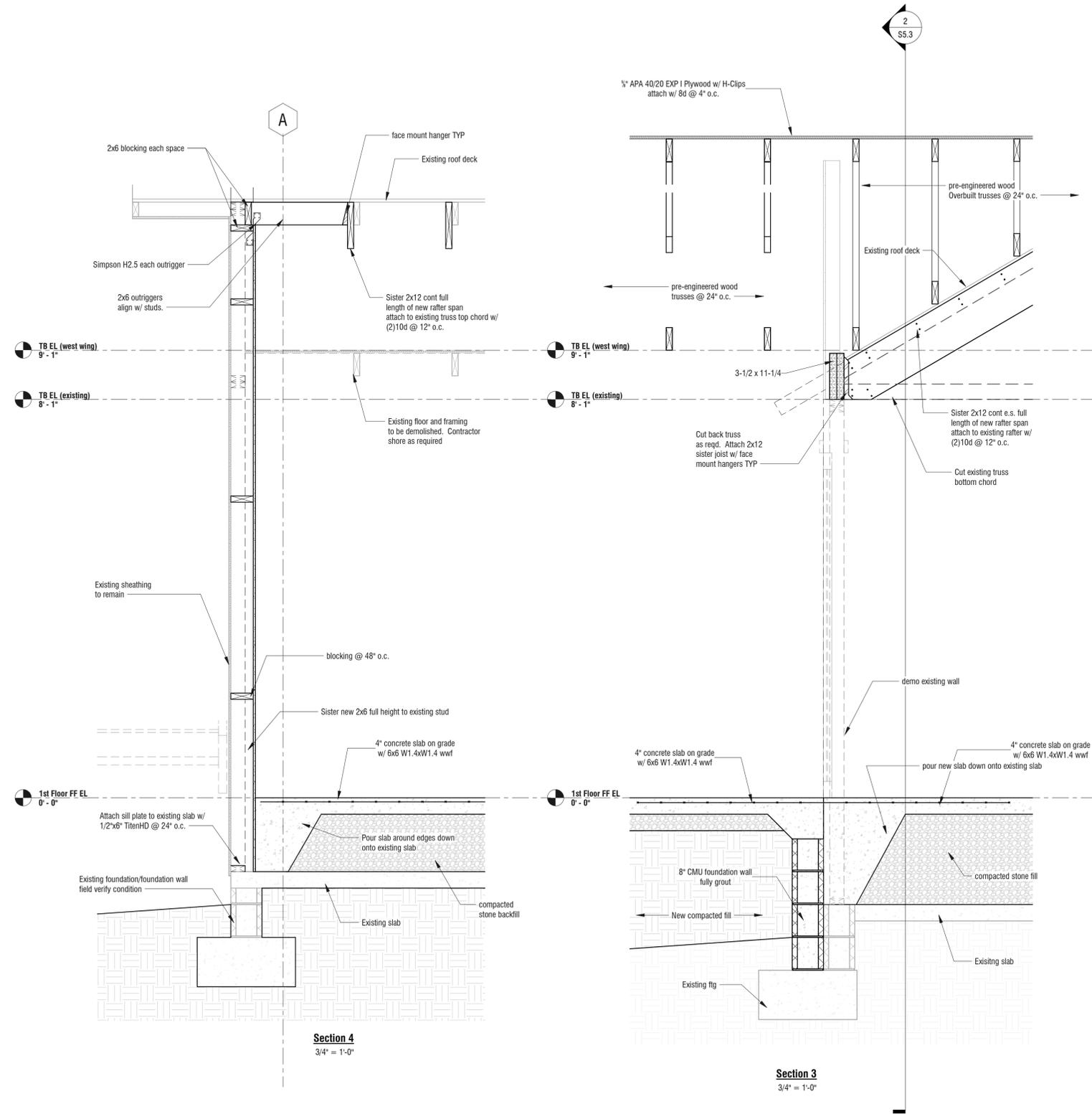
**S5.1**

Scale As indicated



**Church Building Renovation & Addition**  
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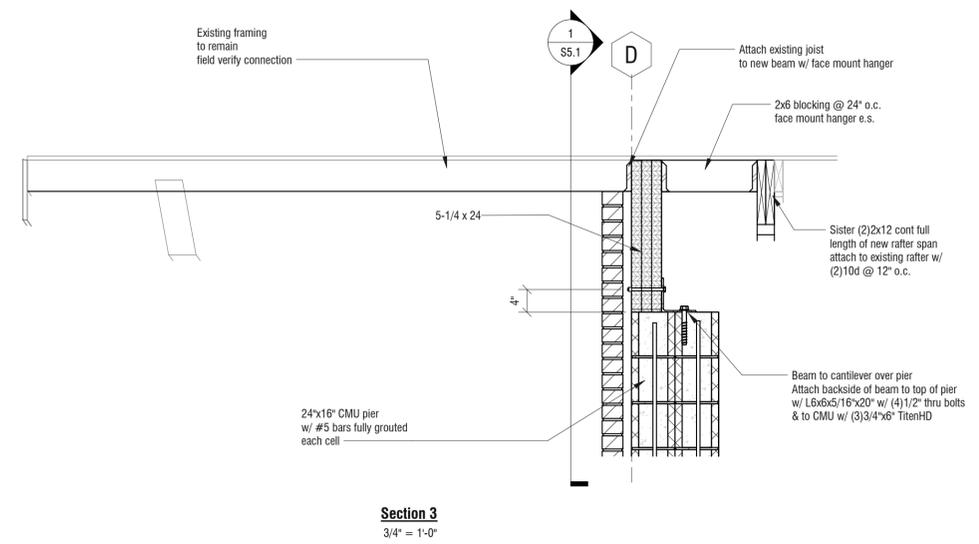
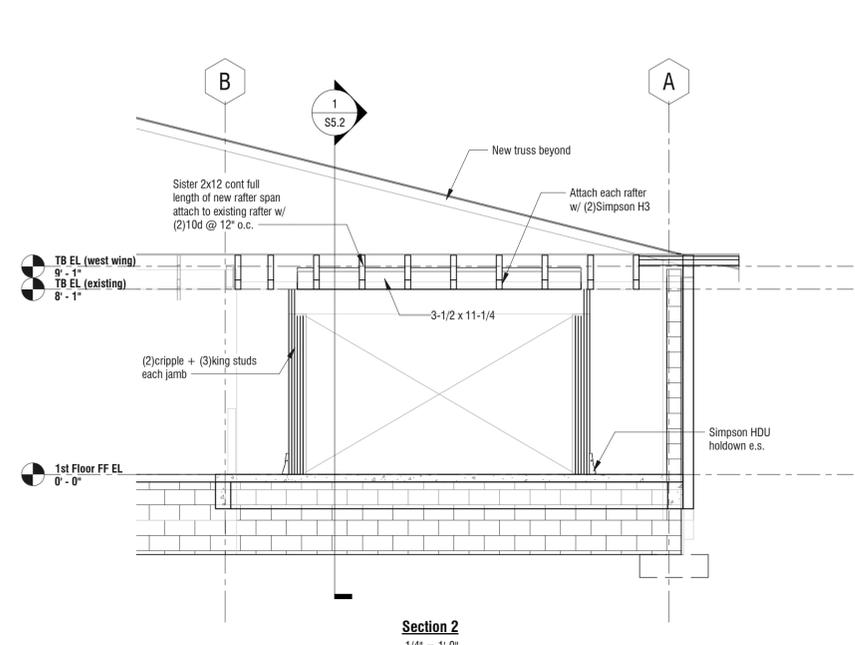
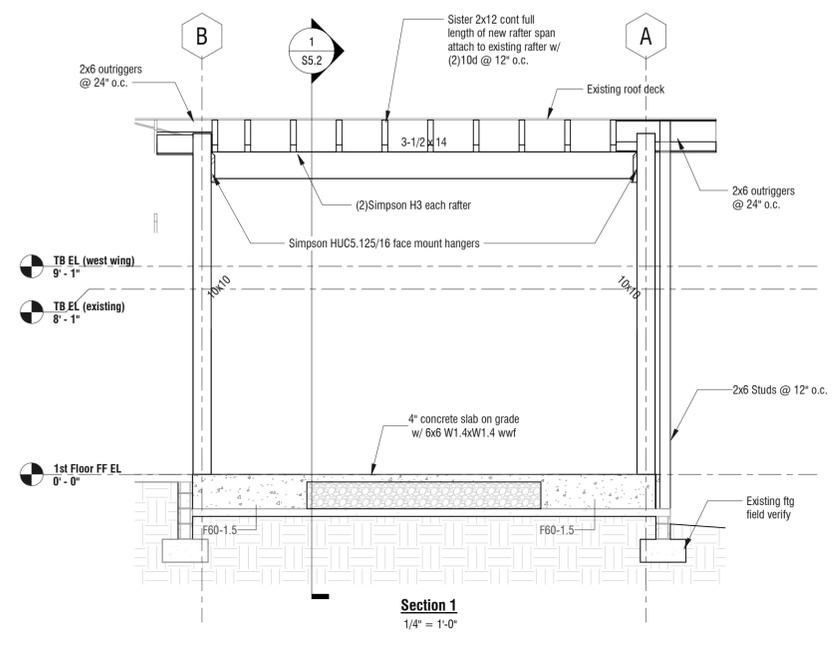
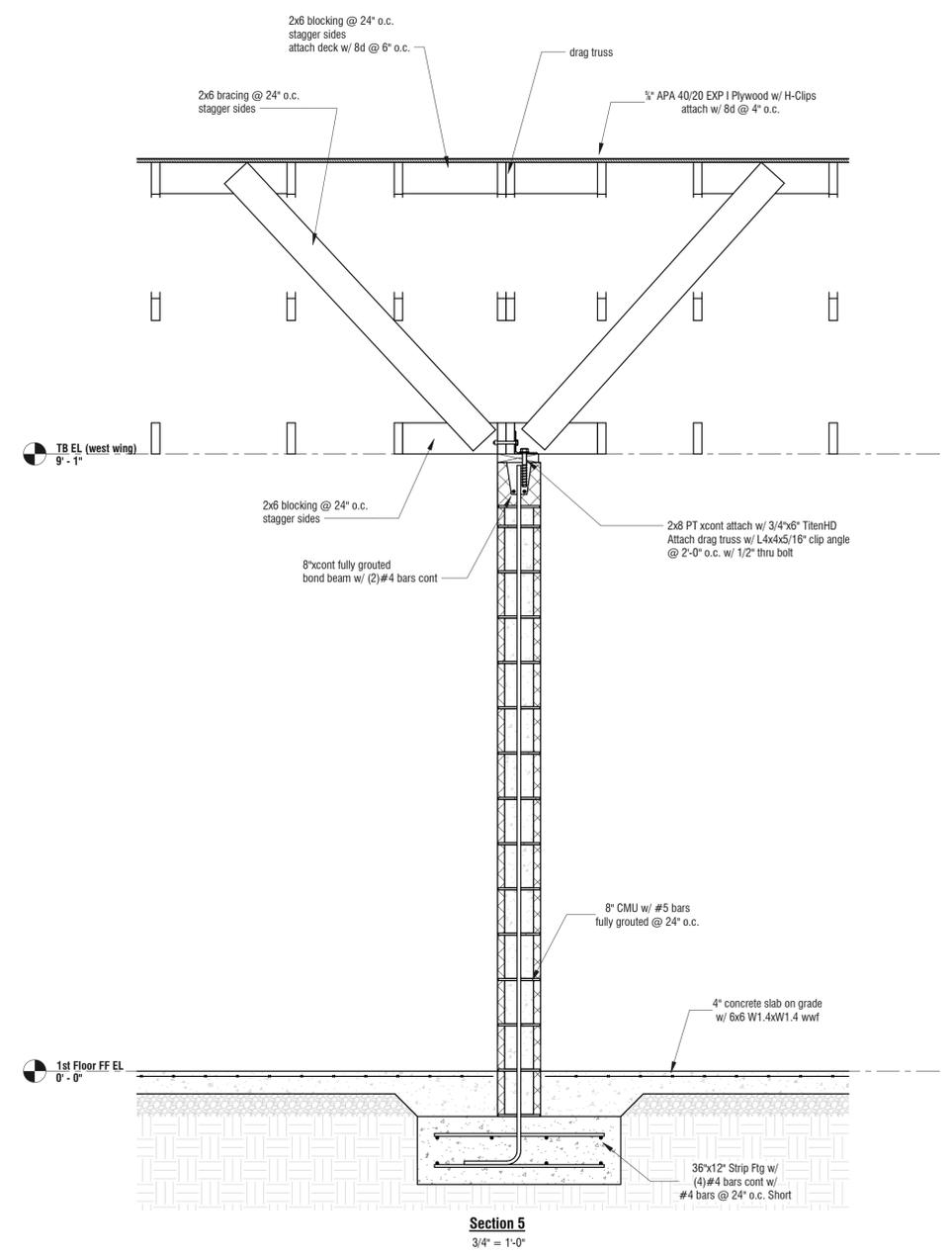
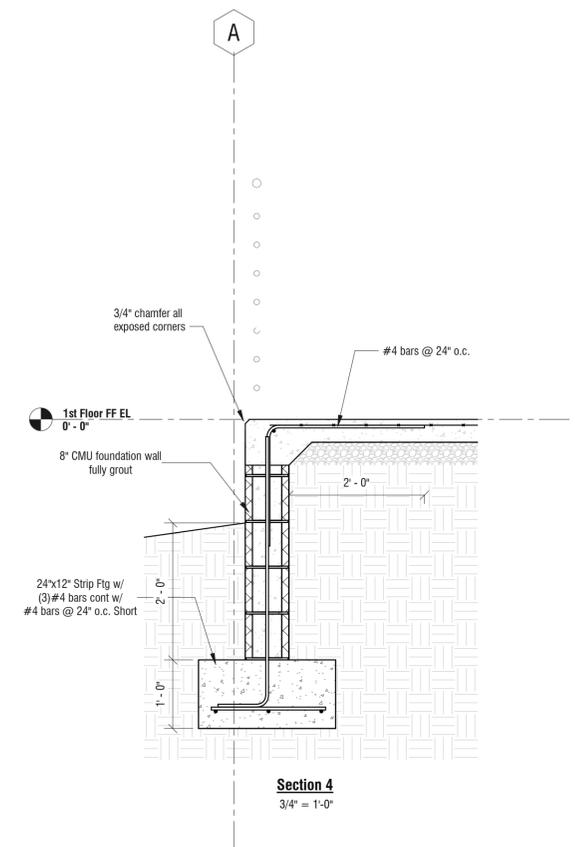
**Trinity United Methodist Church**



No.	Description	Date



**Church Building Renovation & Addition**  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church



No.	Description	Date

**Sections and  
 Details**

Project number 24002  
 Date 03/10/25  
 Drawn by JD

**S5.3**

Scale As indicated



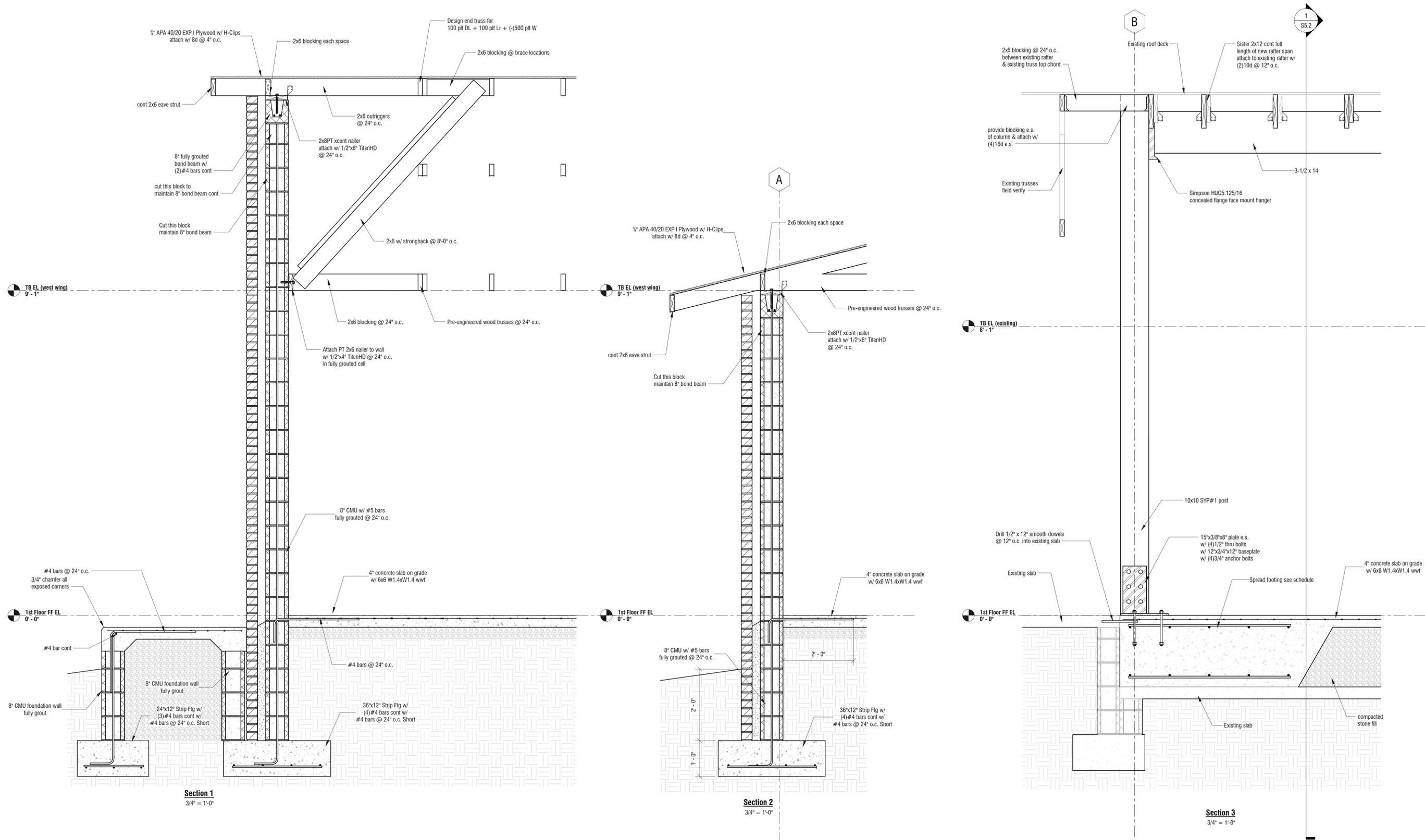
**Church Building Renovation & Addition**  
 4400 W. 19th Street, Panama City, FL  
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No.	Description	Date

**Sections and Details**

Project number 24002  
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**S5.4**



## LEGEND

	EQUIPMENT TAG	SR-1 TOO	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM
	DETAIL TAG (*1* INDICATES IDENTIFICATION NUMBER; *M3* INDICATES THE SHEET NUMBER DRAWN ON)	(2)SR-1 TOO	AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES
	SHEET NOTE	TYP	TYPICAL
	SUPPLY DUCT SECTION POSITIVE PRESSURE	TEMP	TEMPERATURE
	RETURN OR EXHAUST DUCT NEGATIVE PRESSURE	SA	SUPPLY AIR
	RECTANGULAR DUCT SIZE (*A* INDICATES SIDE SHOWN; *B* INDICATES SIDE NOT SHOWN)	RA	RETURN AIR
	INDICATES RISE IN ELEVATION OF DUCT.	EA	EXHAUST AIR
	EXTERNALLY INSULATED DUCTWORK	MA	MIXED AIR
	INTERNALLY LINED DUCTWORK	OA	OUTDOOR AIR
	EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK	TA	TRANSFER AIR
	DUCT ELBOW WITH TURNING VANES	EF	EXHAUST FAN
	RADIUSED DUCT ELBOW	CD	CEILING DIFFUSER
	FLEXIBLE DUCT CONNECTION	RC	RETURN GRILLE
	MANUAL VOLUME BALANCING DAMPER	EC	EXHAUST GRILLE
	MOTORIZED DAMPER	ER	EXHAUST REGISTER
	FIRE DAMPER WITH ACCESS DOORS	CREF	CEILING ROOF EXHAUST FAN
	BACKDRAFT DAMPER	AHU	INDOOR AIR HANDLING UNIT
	TEE WITH TURNING VANES	CU	OUTDOOR CONDENSING UNIT
	TRANSITION	①	TEMPERATURE AND HUMIDITY SENSOR WITH SET POINT ADJUSTMENT. *1* INDICATES UNIT CONTROLLED
	FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE	Ⓢ	DUCT MOUNTED SMOKE DETECTOR
	BRANCH DUCT TAKEOFF WITH MVD	⊕	FLOOR DRAIN
		UC	UNDERCUT DOOR 3/4"
		DC	18"x18" DOOR GRILLE WITH AUXILIARY MOUNTING FRAME. TITUS MODEL CT-700L
		AFF	ABOVE FINISHED FLOOR
		⊠	FIRE DAMPER AT CEILING DIFFUSER OR GRILLE.
		XFR	TRANSFER AIR
		DDC	DIRECT DIGITAL CONTROLS
		IRH	INFRARED RADIANT HEATER
		ⓐ	TIME CLOCK
		SWG	SIDE WALL GRILLE WITH OPPOSED BLADE BALANCING DAMPER
		Ⓢ	EQUIPMENT SWITCH
		CF	CEILING FAN

## SEQUENCE OF OPERATION

**AHU/HP**  
GENERAL - PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH UNIT. THERMOSTAT SHALL BE CAPABLE OF PERFORMING THE SEQUENCE OUTLINED BELOW. THERMOSTAT SHALL ACCEPT AN EXTERNAL OCCUPIED SCHEDULE FROM THE ELECTRONIC MECHANICAL EQUIPMENT TIME CLOCK.

**OCCUPIED MODE:** THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL OPERATE A 2ND STAGE OF HEAT ONLY WHEN OUTDOOR TEMPERATURE IS BELOW 40°F. THE SETPOINT FOR COOLING SHALL BE 75° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70° F ADJUSTABLE.

**UNOCCUPIED MODE:** THE INDOOR FAN AND HP SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 85° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60°F ADJUSTABLE.

**VERRIDE MODE:** THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE FOR 1 HOUR.

## DUCTWORK NOTES

- ALL ROUND FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8M ACOUSTICAL FLEX OR ENGINEER APPROVED EQUAL. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT RUNOUT SHALL BE 5'-0". WHERE LENGTH REQUIRED EXCEEDS 5'-0", INSTALL EXTERNALLY INSULATED ROUND SNAPLOCK DUCT FOR BALANCE OF DISTANCE TO SPIN-IN TAP AT MAIN DUCT TRUNK.
- SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
- ALL SUPPLY AIR DUCTWORK FROM AHU'S (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL RETURN AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- ALL OUTSIDE AIR INTAKE DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, EXTERNALLY INSULATED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
- STANDARD EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1/2" W.G., SEAL CLASS A.
- WHEN ROUTING DUCTWORK OVER LIGHTS, PROVIDE A MINIMUM 6" CLEARANCE BETWEEN DUCT AND LIGHTS.

## GENERAL NOTES

- ALL DUCT DIMENSIONS ARE NET INSIDE.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
- PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
- ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
- ALL AHU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
- PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF ALL EQUIPMENT AND UTILITIES.
- ROUTE REFRIGERANT LINES AND CONDENSATE ALONG WALLS OF MECHANICAL ROOMS. LINES SHALL NOT CROSS WALKING PATH TO INDOOR EQUIPMENT.
- ALL LOW VOLTAGE CONTROLS SHALL BE ROUTED IN CONDUIT.
- ALL WORK SHALL COMPLY WITH 8TH EDITION (2023) FLORIDA BUILDING CODE.

## AIR PURIFICATION EQUIPMENT SCHEDULE

ZONE	SUPPLY CFM	OA CFM	PRESS. IN. W.C.	BASIS OF DESIGN	MODEL	QUANTITY	ELECTRICAL VOLTS/PHASE	WATTS	NOTES
4	1750	175	<0.01	GPS	DM2	1	24	14	1,2,3,4
5	630	65	<0.01	GPS	DM2	1	24	14	1,2,3,4

- GPS = GLOBAL PLASMA SOLUTIONS.
- PROVIDE BASIS OF DESIGN OR EQUAL LISTED IN SPECIFICATIONS.
- BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
- MANUFACTURER MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL

## FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H2O)	MAX. MOTOR POWER	SONES (MAX.)	BASIS OF DESIGN	MODEL	CONTROL	ELECTRICAL VOLTS/PHASE	NOTES
EF-1	INLINE	290	1425	0.55	102W	4.0	COOK	CN-542	INTERLOCK WITH AHU-4 OA DAMPER	115/1	1,2,3,4,5

- PROVIDE DISCONNECT
- PROVIDE SOLID STATE SPEED CONTROLLER.
- PROVIDE BACK DRAFT DAMPER
- PROVIDE THERMAL OVERLOAD
- PROVIDE DIRECT DRIVE FAN

## SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HP	BASIS OF DESIGN	MODEL (AHU/HP)	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING		HEATING				SUPPL. HEAT (KW)	AHU ELECTRICAL			HP ELECTRICAL			NOTES			
							MAT° (DB/WB)	OAT° (DB/WB)	TOTAL (BTUH)	SENSIBLE (BTUH)	EER2	MAT° (DB)		OAT° (DB)	TOTAL (BTUH)	HSPF2	MCA	MOP	MCA		MOP		
4	TRANE	5TEM6D06AV41/51WR4060A1	1750	175	0.60	3/4	74.0/63.1	95/78	44400	35100	11.7	65.7	25	26100	7.5	3.84	230/1	29	30	230/1	33	50	1,2,3,4,5,6,7,8,9
5	TRANE	5TEM6B03AV21/51WR5018A1	630	65	0.35	1/2	74.2/62.5	95/78	17200	13900	12.0	65.6	25	6000	7.5	3.84	230/1	25	25	230/1	20	20	1,2,3,4,5,6,7,8,9

- PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
- EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
- ESP DOES NOT INCLUDE FILTER, CASING, ETC.
- PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
- PROVIDE THERMAL EXPANSION VALVES.
- DIRECT DRIVE AHU FAN.
- COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
- PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.
- PROVIDE UNIT WITH EPA APPROVED REFRIGERANT AND FACTORY INSTALLED REFRIGERANT MONITORING SYSTEM.

## EXISTING SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HP	BASIS OF DESIGN	MODEL (AHU/HP)	SA (CFM)	OA (CFM)	ESP (IN.H2O)	FAN (HP)	COOLING		HEATING				AHU ELECTRICAL		HP ELECTRICAL	NOTES	
							MAT° (DB/WB)	OAT° (DB/WB)	TOTAL (BTUH)	SENSIBLE (BTUH)	SEER	MAT° (DB)	OAT° (DB)	TOTAL (BTUH)	VOLTS/PHASE		VOLTS/PHASE
1(E)	BAKER	FXM4X6000A108E	2040	205	0.50	3/4	74.0/63.1	95/78	47800	33600	14	64.7	25	22900	230/1	230/1	1,2,3,4
2(E)	BAKER	FXM4X6000A108E	2040	205	0.50	3/4	74.0/63.1	95/78	47800	33600	14	64.7	25	22900	230/1	230/1	1,2,3,4

- PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
- EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
- ESP DOES NOT INCLUDE FILTER, CASING, ETC.
- COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.

## VENTILATION SCHEDULE

SPACE TYPE	VENTILATION CFM/S.F.	VENTILATION CFM/PERSON
CORRIDOR	0.06	0
DINING AREA	0.06	5
OFFICE	0.06	5
LOBBY	0.06	5
RESTROOM	0	50/FIXTURE
STORAGE	0.06	0
LOUNGE	0.06	5

NOTE:  
VENTILATION RATES HAVE BEEN REDUCED IN ACCORDANCE WITH ASHRAE STANDARD 62.1-2019, INDOOR AIR QUALITY PROCEDURE.

Church Building Renovation & Addition  
4400 W. 19th Street, Panama City, FL  
Trinity United Methodist Church

No.	Description	Date

HVAC Legend,  
Schedules,  
and Notes

Project number 24002  
Date 2/28/2025  
Drawn by IVB

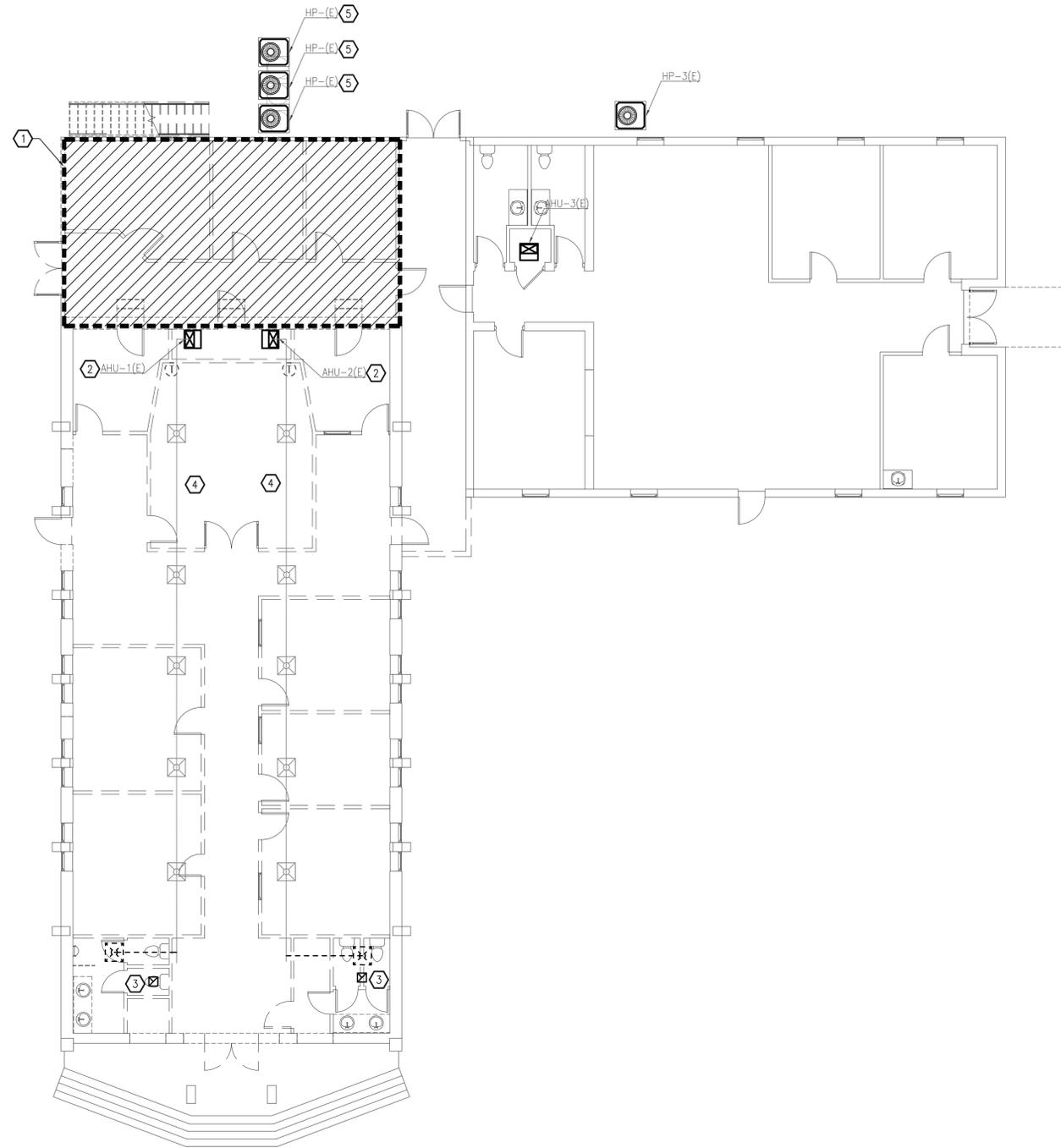
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Scale 1/8" = 1'-0"

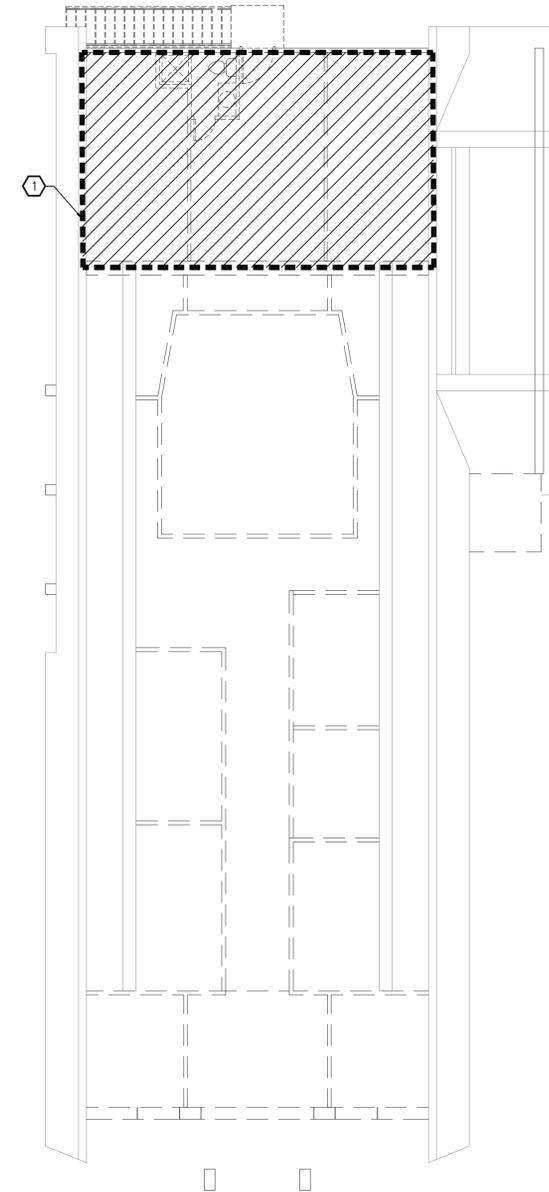


**SHEET NOTES**

- ① ALL EXISTING DUCTWORK, AIR DEVICES, AND THERMOSTATS IN HATCHED AREA TO BE DEMOLISHED. DEMOLISH AIR HANDLER AND ASSOCIATED HEAT PUMP.
- ② AIR HANDLER TO BE RELOCATED. DEMOLISH ASSOCIATED REFRIGERANT PIPING, CONDENSATE PIPING, THERMOSTAT, AND RETURN DUCTWORK.
- ③ BATHROOM EXHAUST FAN(S) TO BE DEMOLISHED. DEMOLISH ASSOCIATED DUCTWORK AND BLANK OFF EXHAUST LOUVER(S).
- ④ DUCT RUN AND AIR DEVICES TO BE RELOCATED INTO NEW CEILING.
- ⑤ HEAT PUMP TO BE RELOCATED. FIELD VERIFY HEAT PUMP ASSOCIATED WITH AIR HANDLER REFERENCED IN SHEET NOTE 1 AND DEMOLISH.



**1 HVAC FIRST FLOOR DEMOLITION PLAN**  
 M1.1 SCALE: 1/8" = 1'-0"



**2 HVAC SECOND FLOOR DEMOLITION PLAN**  
 M1.1 SCALE: 1/8" = 1'-0"

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 St. Petersburg, FL 33702  
 251-210-2386

Jennifer P. Jones, Registered Architect  
 Florida License No.: RA103362

**Church Building Renovation & Addition**  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church

No.	Description	Date

**HVAC Demolition Plan**

Project number 24002  
 Date 2/28/2025  
 Drawn by IVB

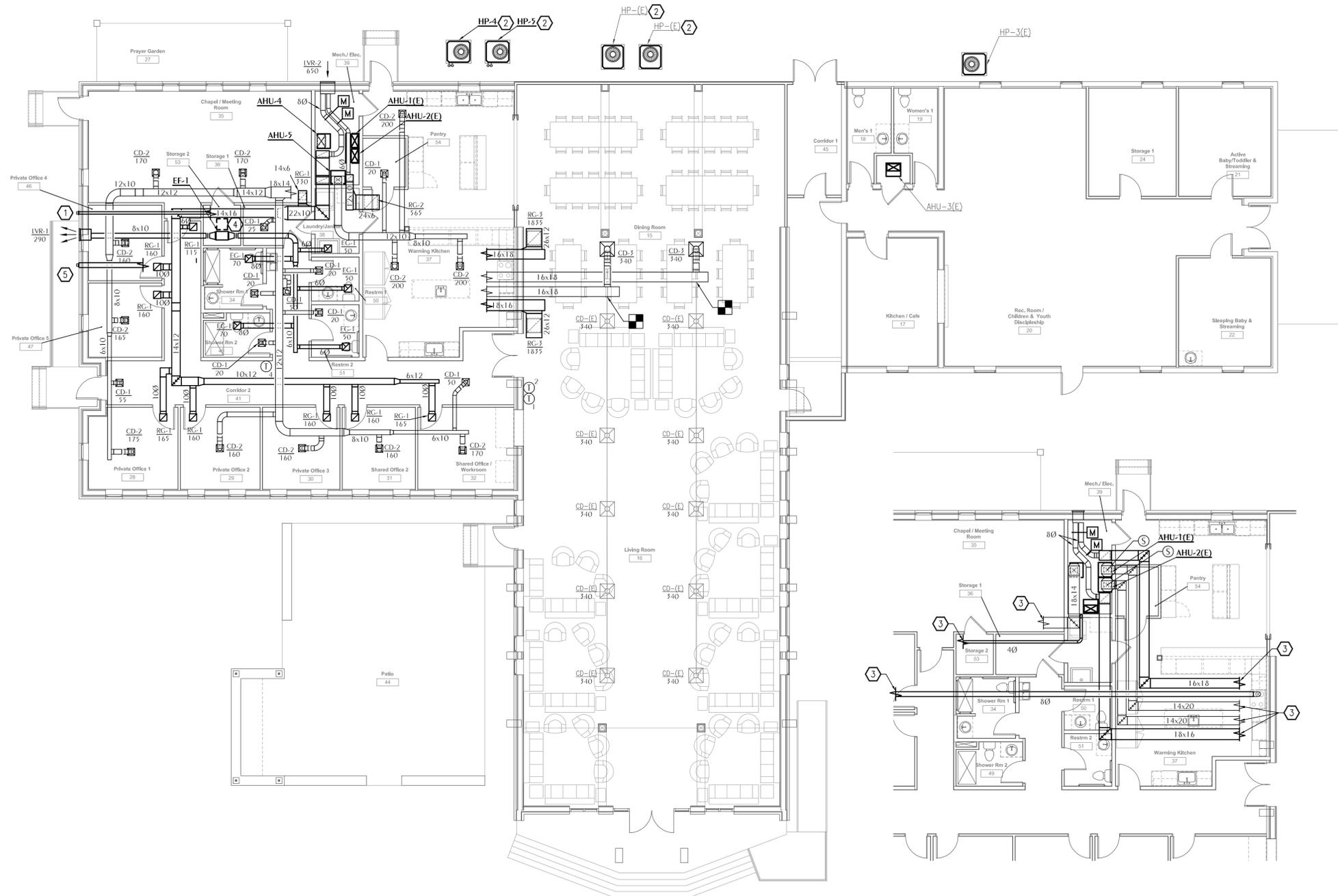
**M 1.1**

Scale 1/8" = 1'-0"

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 88457  
 850.528.5447  
 Project Number: 2024-075  
 Checked By: KAJ  
 Drawn By: IVB  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Rd. Suite 100 Auburn, AL 36830

### SHEET NOTES

- 1 PROVIDE SEIHO MODEL SFZC VENT CAP WITH BACKDRAFT DAMPER FOR DRYER EXHAUST.
- 2 ROUTE REFRIGERANT TO MECH 39 TO ASSOCIATED AIR HANDLER.
- 3 CONTINUATION ON M1.2.
- 4 PROVIDE 18X18 ACCESS PANEL. ACCESS PANEL SHALL BE LOCKABLE WITH WHITE POWDER COAT, MILCOR M OR APPROVED EQUAL.
- 5 PROVIDE WALL CAP.



**1 HVAC NEW WORK PLAN**  
M1.2 SCALE: 1/8" = 1'-0"

**2 HVAC ADDITIONAL DUCTWORK**  
M1.2 SCALE: 1/8" = 1'-0"

**Church Building Renovation & Addition**  
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**Jennifer P. Jones, Architect, LLC**  
 7901 4th St. N. Ste. 300  
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 251-210-2386  
**Jennifer P. Jones, Registered Architect**  
 Florida License No.: RA10362

No.	Description	Date

### HVAC New Work Plan

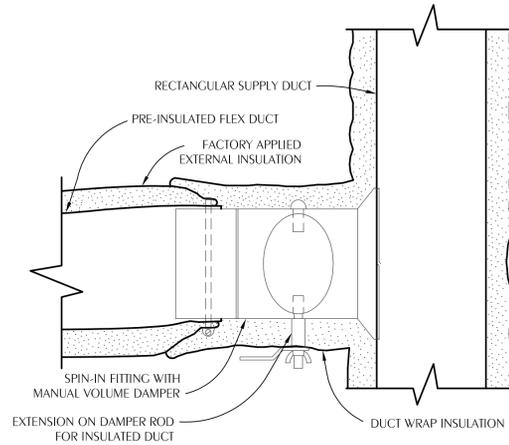
Project number: 24002  
 Date: 2/28/2025  
 Drawn by: IVB

M 1.2

Scale: 1/8" = 1'-0"

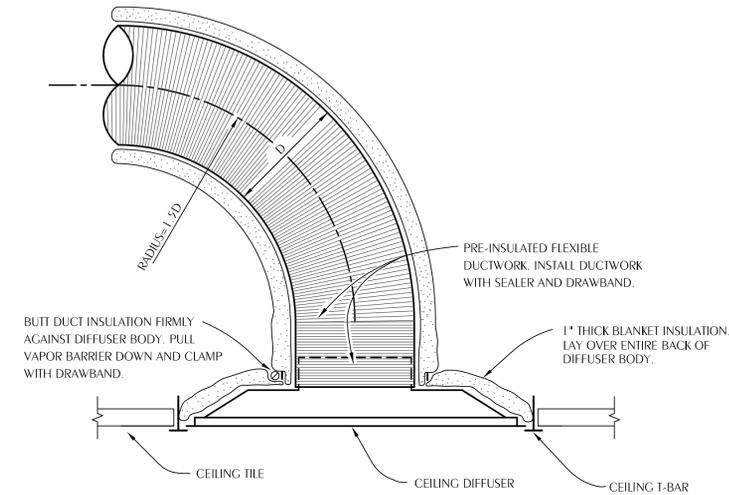
Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 86457  
 850.528.5447  
 Project Number: 2024-075  
 Checked By: KAJ  
 Drawn By: IVB  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Rd. Suite 100 Auburn, AL 36830





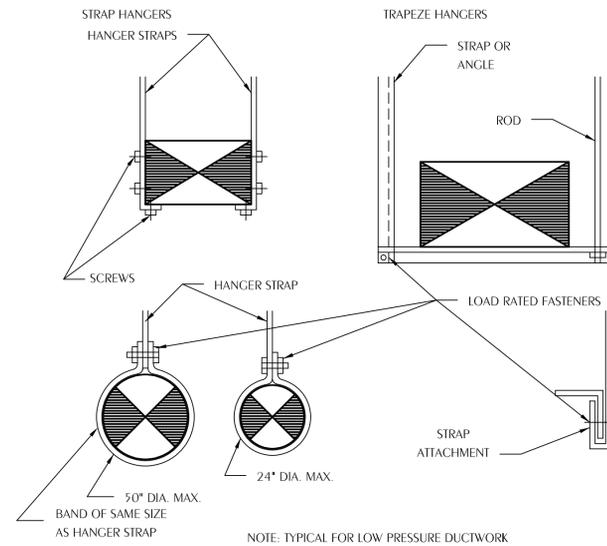
NOTES:  
 CONNECT FLEXIBLE DUCT TO FITTING WITH DRAWBAND AND SEALER.  
 ROUND HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.  
 PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKE OFFS LOCATED ABOVE HARD CEILINGS.

**1 TYPICAL FLEX DUCT TAKEOFF DETAIL**  
 M-2.2 SCALE: NONE

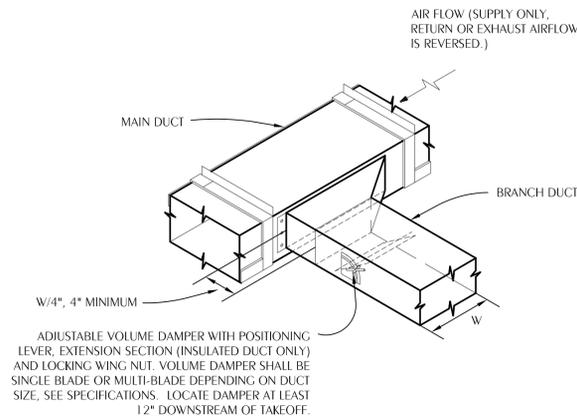


NOTES:  
 FLEX DUCT SHALL BE NO LONGER THAN 5'-0".  
 PROVIDE 24x24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.  
 PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

**2 TYPICAL CEILING DIFFUSER DETAIL**  
 M-2.2 SCALE: NONE



**3 DUCT HANGER DETAILS**  
 M-2.2 SCALE: NONE

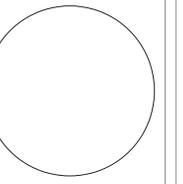


NOTES:  
 PROVIDE CABLE ACTIVATED DAMPER WITH ADJUSTMENT IN FACE OF CEILING DIFFUSER FOR INACCESSIBLE TAKEOFFS LOCATED ABOVE HARD CEILINGS.

**4 TYPICAL BRANCH DUCT TAKEOFF**  
 M-2.2 SCALE: NONE

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 Florida License No.: RA103562



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Project number 24002  
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**M 2.2**

Scale 1/8" = 1'-0"

**WATFORD ENGINEERING**  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Rd., Suite 100 Auburn, AL 36830

Florida CA Number: 27625  
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 850.528.3447  
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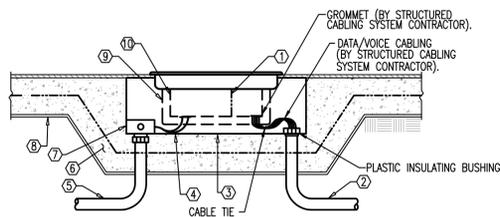
## ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO ANY DRAWINGS FOR REQUIRED RACEWAYS, EXACT SIZE, AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR AUDIO-VISUAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL 'AV' EQUIPMENT LOCATIONS TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC., SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE AUDIO-VISUAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- FURNISH ALL EQUIPMENT AND LABOR. PERFORM ALL LABOR WITH SUPERVISION. BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE, 2020 NATIONAL ELECTRIC CODE, AND 2023 FBC 8TH EDITION. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- OBTAIN ARCHITECT'S/ENGINEER'S APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC., PRIOR TO PURCHASING.
- TERMINATIONS FOR ALL EQUIPMENT SHOWN TO HAVE TEMPERATURE RATING OF 75-deg C PER NEC 2020 ART. 110.14 & TABLE 310.15(B)16).
- WHERE USED, PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE CIRCUIT BREAKERS SERVING MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH NEC 210.4(B).

EQUALS TO BE SUBMITTED TO ARCHITECT/ENGINEER 10 DAYS PRIOR TO SUBMITTING BID FOR APPROVAL.

## LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
BP	CHLORIDE CLU2NW	2	1.5 W LED	WALL @ 7'-6" AFF	120V
BPO	ISOLITE #ELED-EM (FINISH BY OWNER)-MB	1	1 LED	WALL @ 7'-6" AFF	120V, FINISH BY OWNER
BPX BPA XXX XCXA	CHLORIDE CLCNRW	2	1.5 W LED	WALL @ 7'-6" AFF	BATTERY PACK/EXIT SIGN COMBO, SELF-DIAGNOSTICS, 120V. USE PUNCH-OUTS TO SHOW DIRECTIONAL ARROWS AS NOTED ON DRAWING.
CH	TO BE SELECTED BY OWNER/ARCHITECT. ASSUME \$1000 PER FIXTURE FOR BID.	1	1.5 W LED	CEILING/WALL MOUNT	CEILING/WALL MOUNT
LD4	H.E. WILLIAMS 4DR-TL110-835-DIM-UNV-OW-OF-CS-MWT-N-F1	14W	3500K LED	CEILING RECESSED	4" RECESSED DOWNLIGHT, STD 0-10V DIMMING, 120V
LDA	H.E. WILLIAMS 6DR-TL110-835-DIM-UNV-OW-OF-CS-MWT-N-F1	9W	3500K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, STD 0-10V DIMMING, 120V
LDB	H.E. WILLIAMS 6DR-TL115-835-DIM-UNV-OW-OF-CS-MWT-N-F1	14W	3500K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, STD 0-10V DIMMING, 120V
LDC	H.E. WILLIAMS 6DR-TL120-835-DIM-UNV-OW-OF-CS-MWT-N-F1	19W	3500K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, STD 0-10V DIMMING, 120V
LDCS	H.E. WILLIAMS 6DR-TL120-835-SCA(15 DEGREES)-DIM-UNV-OW-OF-CS-MWT-N-F1	19W	3500K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, SLOPED CEILING ADAPTER, STD 0-10V DIMMING, 120V
LDS	PEACHTREE 6BLRT-20 (DIMMING)-30K-80-SH-RW-(OPTIONS)-(VOLTAGE)	22W	3000K LED	CEILING RECESSED	6" RECESSED DOWNLIGHT, SLOPED CEILING, STD 0-10V DIMMING, 120V
LDW	H.E. WILLIAMS 4DR-TL120-835-DIM-UNV-SW-OF-CS-WET-CC	19W	3500K LED	CEILING RECESSED	4" RECESSED DOWNLIGHT, STD 0-10V DIMMING, WET LOCATION LISTED, 120V
LSA	H.E. WILLIAMS 75-4-130-835-7511-DIM-UNV	20W	3500K LED	SURFACE MOUNTED	4" HIGH OUTPUT LED STRIP, 3500K, UNV
LSB	H.E. WILLIAMS 75-4-150-835-7511-DIM-UNV	33W	3500K LED	SURFACE MOUNTED	4" HIGH OUTPUT LED STRIP, 3500K, UNV
PD	TO BE SELECTED BY OWNER/ARCHITECT. ASSUME \$300 PER FIXTURE FOR BID.	50W	3500K LED	PENDANT MOUNTED	DECORATIVE PENDANT LIGHT
SC	N/A	N/A	N/A	WALL MOUNT	EXISTING DECORATIVE SCONCE, PROVIDED BY OWNER
VL	TO BE SELECTED BY OWNER/ARCHITECT. ASSUME \$400 PER FIXTURE FOR BID.	30W	3500K LED	WALL MOUNT	DECORATIVE VANITY LIGHT
WB36	H.E. WILLIAMS #WVPH-130-740-T3-SDCL-DIM-UNV	36W	4000K LED	WALL MOUNT	EXTERIOR WALLPACK, FINISH BY ARCH, 120V
WB36E	H.E. WILLIAMS #WVPH-130-740-T3-SDCL-EM/10WC-DIM-UNV	36W	4000K LED	WALL MOUNT	EXTERIOR WALLPACK, FINISH BY ARCH. EMERGENCY DRIVER, 120V



## FLOOR BOX INSTALLATION DETAIL

NOT TO SCALE

## DEMOLITION NOTES

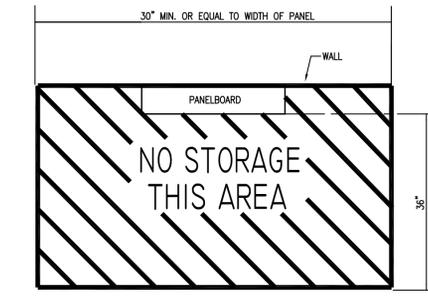
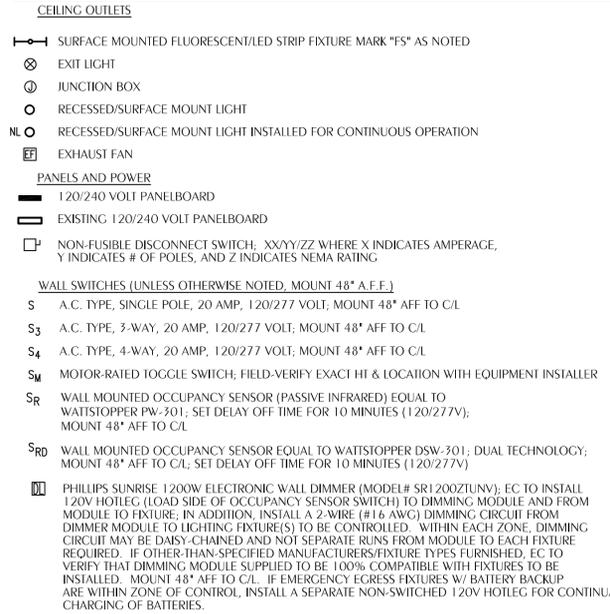
- ALL EXISTING SYSTEMS AND CONDITIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXISTING ELECTRICAL CIRCUITS OF POWER, RECEPTACLES, LIGHTING, ETC. BEING REMOVED MAY NOT BE SHOWN ON THESE DOCUMENTS, BUT ARE TO BE REMOVED AS REQUIRED TO BUILD THIS PROJECT AND TO PERMIT NEW FINISHES, WALLS, ETC. THE CONTRACTOR SHALL FIELD-VERIFY ALL CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM ANY ADDITIONAL WORK NECESSARY TO PERFORM THE WORK AS SHOWN AND SPECIFIED.
- IF A DEVICE IS BEING REMOVED AND THE CIRCUIT FEEDS OTHER LOADS FROM THE DEVICE, THEN THE WIRING SHALL BE MADE CONTINUOUS TO THE REMAINING LOADS. NO CIRCUIT CONTINUITY SHALL BE LOST.
- IF A DEVICE IS BEING REMOVED AND NOT PART OF A DEMO WALL, THAT LOCATION SHALL BE RESTORED TO MATCH ADJACENT SURFACE.
- REMOVE ALL DISCONNECTS, WIRING, AND CONDUITS SERVING MECHANICAL EQUIPMENT BEING REMOVED OR RELOCATED.
- CONTRACTOR TO REMOVE ALL CONDUITS, AND ASSOCIATED WIRING FROM DEVICES BEING REMOVED BACK TO PANEL UNLESS NOTED OTHERWISE. WHEN ALL LOADS ON EXISTING BREAKERS ARE REMOVED, RELABEL BREAKER AS 'SPARE'.

## FIRESTOPPING NOTES

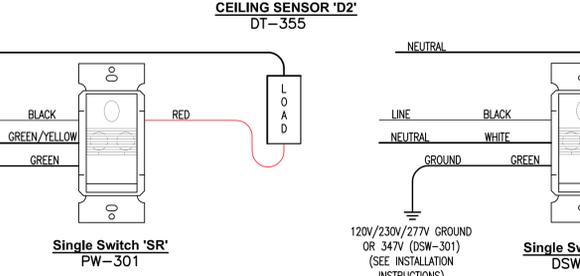
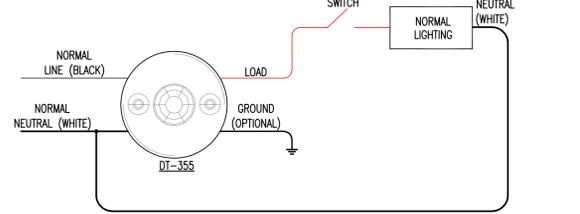
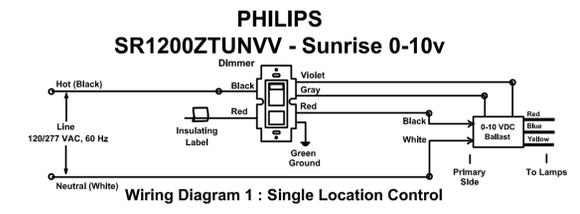
USE ONLY FIRESTOP PRODUCTS THAT HAVE BEEN UL 1479, ASTM E-814, OR UL 2079 TESTED FOR SPECIFIC FIRE RATED CONSTRUCTION CONDITIONS. THE CONDITIONS AND MATERIALS ARE SPECIFIED AS FOLLOWS:

- FOR PENETRATIONS BY NON COMBUSTIBLE ITEMS USE 3M FIRE STOP SEALANT 2000 OR 3M FIRE BARRIER MOLDABLE PUDDY PADS MPP+.
- FOR FIRE RATED CONSTRUCTION JOINTS AND OTHER GAPS USE 3M FIRESTOP SEALANT 2000.
- FOR PENETRATIONS BY COMBUSTIBLE ITEMS USE 3M FIRE BARRIER CP25 WB OR 3M FIRE BARRIER FS 195 WRAP/STRIP.
- FOR PENETRATIONS BY COMBUSTIBLE PLASTIC PIPE (OPEN PIPING SYSTEMS) USE 3M FIRE BARRIER PPO PLASTIC PIPE DEVICE.
- FOR LARGE SIZE/COMPLEX PENETRATIONS USE 3M FIRESTOP FOAM 2001 OR 3M FIRE BARRIER CS 195 COMPOSITE SHEET.
- FOR OPENINGS BETWEEN STRUCTURALLY SEPARATE SECTIONS OF WALL AND FLOORS USE 3M FIRE BARRIER CP 25 WB.

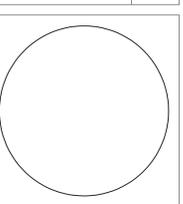
## ELECTRICAL LEGEND



TYPICAL CLEARANCE AT ELECTRICAL PANELS  
NOT TO SCALE



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Church Building Renovation & Addition  
4400 W. 19th Street, Panama City, FL  
Trinity United Methodist Church

No.	Description	Date
1	ISSUED FOR BIDS	03.02.26

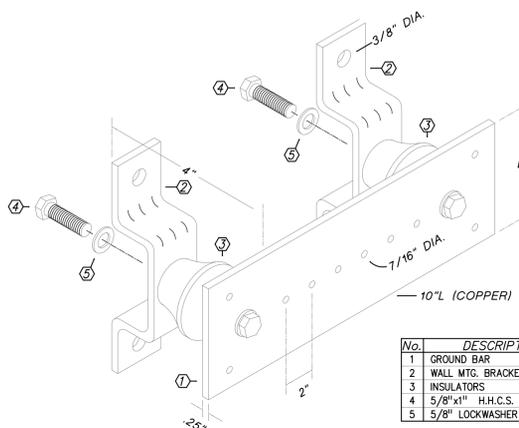
General Notes, Legend, & Schedules

Project number 24002  
Date 2/28/2025  
Drawn by CRD

E 0.1  
Scale 1/8" = 1'-0"

Florida CA Number: 27625  
Anthony L. Davis, P.E.  
Florida License Number: 57419  
655.525.3447  
Project Number: 2024-075  
Checked By: ALD  
Drawn By: CRD

WATFORD ENGINEERING  
4452 Clinton Street Marianna, Florida 32446  
2449 Moore Mill Rd. Suite 100 Auburn, AL 36830



- GROUND BAR NOTES:**
1. INSTALL ONE BAR AT EACH COMMUNICATIONS BACKBOARD.
  2. ROUTE 1#1 BARE CU IN 1" C. TO ELECTRICAL SERVICE GND FROM BAR ON MAIN COMM. BACKBOARD.
  3. CONNECT BARS WITH 1#6 BARE CU IN 1" C.

No.	DESCRIPTION
1	GROUND BAR
2	WALL MTC. BRACKET
3	INSULATORS
4	5/8"x1" H.H.C.S. BOLT
5	5/8" LOCKWASHER

**1 'CBB INSULATED GROUNDING BUSBAR DETAIL**  
SCALE: N.T.S.

**CIRCUIT BREAKER PANEL SCHEDULE**  
**PANEL 'MP'**

120/240 VOLT 1Ø 3W  
400 AMP MAIN MAIN BREAKER  
SERVICE-RATED

SURFACE MOUNTED  
NEMA 3R ENCLOSURE

CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	POLE	AMP	POLE	AMP		
1	HP-1	2	50	6.14	0.96	15	1	NH-1(2)	2
3	↓					20	1	LTS-EXTERIOR	4
5	HP-2	2	50	6.14	7.68	40	2	RANGE	6
7	↓							DOUBLE OVEN	8
9	HP-4	2	50	6.34	9.00	40	2	↓	10
11	↓							AHU-1	12
13	HP-5	2	20	2.30	11.52	60	2	↓	14
15	↓							AHU-2	16
17	SPACE							↓	18
19	↓							SPARE	20
21	↓							SPARE	22
23	↓							SPARE	24
25	↓							SPARE	26
27	↓							GEN BATT CHARGER	28
29	↓							GEN BLOCK HEATER	30
31	↓							SPACE	32
33	↓							SPACE	34
35	↓							SPACE	36
37	↓							SPACE	38
39	PANEL LP	2	200	43.2453		30	2	↓	40
41	↓							SPACE	42

\*TOTAL DEMAND LOAD: 94.04 KVA  
TOTAL CONNECTED LOAD: 107.58 KVA  
MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

① HACR RATED BREAKER, VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

\*RECEPTACLE AND KITCHEN LOADS DIVERSIFIED IN ACCORDANCE WITH NEC 220.44 AND 220.56  
\*PANEL 'MP' TO BE FURNISHED WITH ABILITY TO ACCOMMODATE INSTALLATION OF BREAKER FOR SUBPANEL 'LP'

**CIRCUIT BREAKER PANEL SCHEDULE**  
**PANEL 'LP'**

120/240 VOLT 1Ø 3W  
225 AMP MAIN LUG ONLY

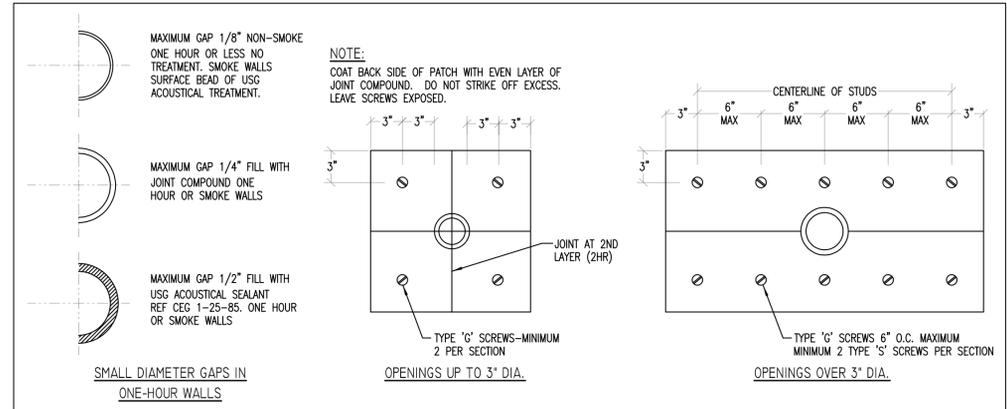
SURFACE MOUNTED  
NEMA 1 ENCLOSURE  
(FURNISH W/ ISOLATED GROUND BUSBAR)

CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA		BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	POLE	AMP	POLE	AMP		
1	REC-DININGROOM102	1	20	0.72	0.90	20	1	REC-CHAPEL114/MECH115	2
3	REC-DININGROOM102	1	20	0.72	0.76	20	1	REC-KITCHEN104	4
5	REC-DININGROOM102	1	20	0.18	0.18	20	1	REC-KITCHEN104	6
7	REC-DININGROOM102	1	20	0.18		20	1	SPARE	8
9	REC-CEILING102	1	20	0.76	0.18	20	1	REC-KITCHEN104	10
11	REC-LIVINGROOM101	1	20	0.74	0.18	20	1	REC-KITCHEN104	12
13	SPARE	1	20	--	0.18	20	1	REC-KITCHEN104	14
15	REC-LIVINGROOM101	1	20	0.54	0.18	20	1	REC-KITCHEN104	16
17	REC-LIVINGROOM101	1	20	0.54	0.18	20	1	REC-KITCHEN104	18
19	REC-LIVINGROOM101	1	20	0.54	0.18	20	1	REC-KITCHEN104	20
21	REC-LIVINGROOM101	1	20	0.54		20	1	SPARE	22
23	REC-LIVINGROOM101	1	20	0.72	0.18	20	1	REC-KITCHEN104	24
25	REC-PRIVATEOFFICE111	1	20	0.72	0.18	20	1	REC-KITCHEN104	26
27	REC-PRIVATEOFFICE110	1	20	0.72	0.18	20	1	REC-KITCHEN104	28
29	REC-PRIVATEOFFICE109	1	20	0.54	0.76	20	1	REC-KITCHEN104	30
31	REC-SHAREDOFFICE108	1	20	0.72	0.54	20	1	REC-KITCHEN104	32
33	REC-SHAREDOFFICE107	1	20	0.72	0.60	20	1	ICE MAKER	34
35	REC-CAVDESK107	1	20	0.18	0.72	20	1	REC-PATIO	36
37	REC-ANDRESK107	1	20	0.18	0.54	20	1	REC-PRIVATEOFFICE113	38
39	REC-AVRACK107	1	20	0.18	0.72	20	1	REC-PRIVATEOFFICE112	40
41	REC-AVRACK107	1	20	0.18	0.54	20	1	REC-RESTROOM121/122	42
43	REC-SHAREDOFFICE107	1	20	0.18	0.37	20	1	WATERCOOLER	44
45	REC-SHOWER117/118/STO119	1	20	0.72	0.80	20	1	DISHWASHER	46
47	REC-CHAPEL114	1	20	0.72	0.80	20	1	DISHWASHER	48
49	SPARE	1	20	0.10		20	1	MINIFRIDGE	50
51	REC-CHAPEL114	1	20	0.72	0.63	20	1	FREEZER	52
53	CBB	1	20	0.36	0.39	20	1	REFRIGERATOR	54
55	SPARE	1	20	1.70		20	1	MICROWAVE/HOOD	56
57	LTS-NW	1	20	0.82	1.60	20	1	COFFEE MAKER	58
59	LTS-SW	1	20	0.42	5.37	30	2	AHU-4	60
61	LTS-DININGROOM102	1	20	1.05				↓	62
63	LTS-LIVINGROOM101	1	20	0.68	4.80	20	2	↓	64
65	EF-1	1	15	0.14				AHU-5	66
67	CIRC PUMP	1	15	0.04	0.72	20	1	↓	68
69	WASHER/DRYER	2	30	5.76	--	20	1	SPARE	70
71	↓							↓	72
73	SPACE							↓	74
75	↓							↓	76
77	↓							↓	78
79	↓							↓	80
81	↓							↓	82
83	↓							↓	84

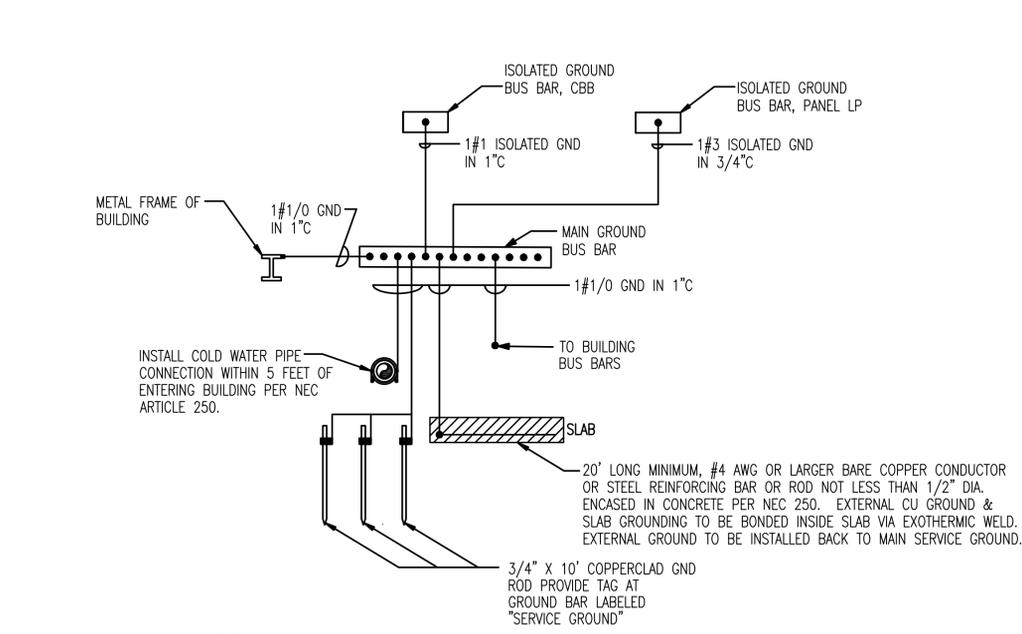
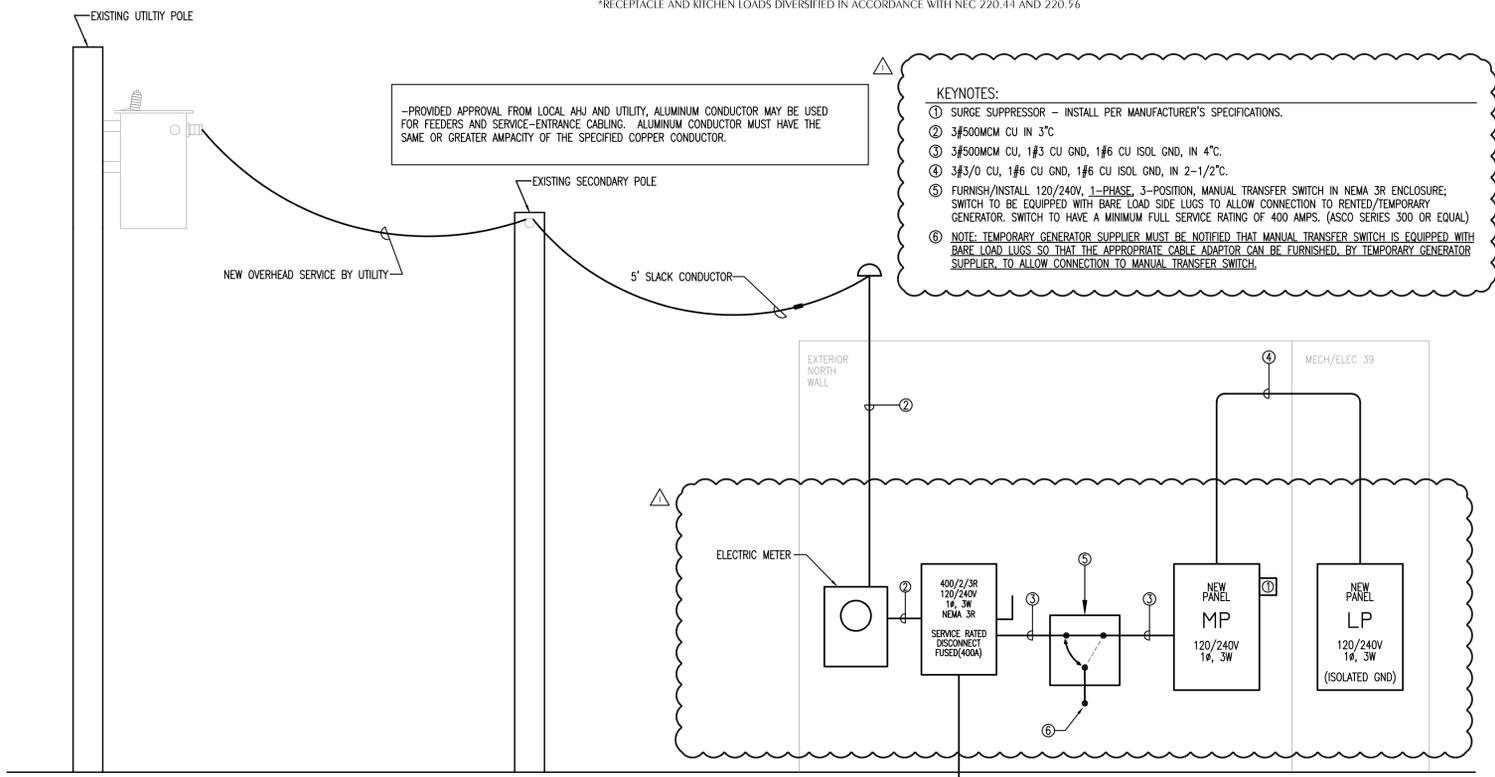
\*TOTAL DEMAND LOAD: 37.6 KVA  
TOTAL CONNECTED LOAD: 45.27 KVA  
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

① HACR RATED BREAKER, VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED  
② FURNISH GFCI BREAKER

\*RECEPTACLE AND KITCHEN LOADS DIVERSIFIED IN ACCORDANCE WITH NEC 220.44 AND 220.56



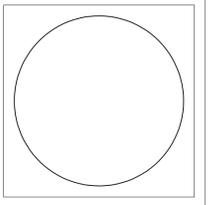
**2 FIRE WALL PENETRATIONS**  
SCALE: N.T.S.



**3 GROUNDING SYSTEM RISER DIAGRAM**  
SCALE: N.T.S.

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St. Petersburg, FL 33702  
251-210-1366

Jennifer P. Jones, Registered Architect  
Florida License No.: RA10392



Church Building Renovation & Addition  
4400 W. 19th Street, Panama City, FL  
Trinity United Methodist Church

No.	Description	Date
1	Permit Set	3.11.25
1	ISSUED FOR BIDS	03.02.26

**Panel Schedules & Riser Diagram**

Project number: 24002  
Date: 2/28/2025  
Drawn by: CRD

**E 0.2**  
Scale: 1/8" = 1'-0"

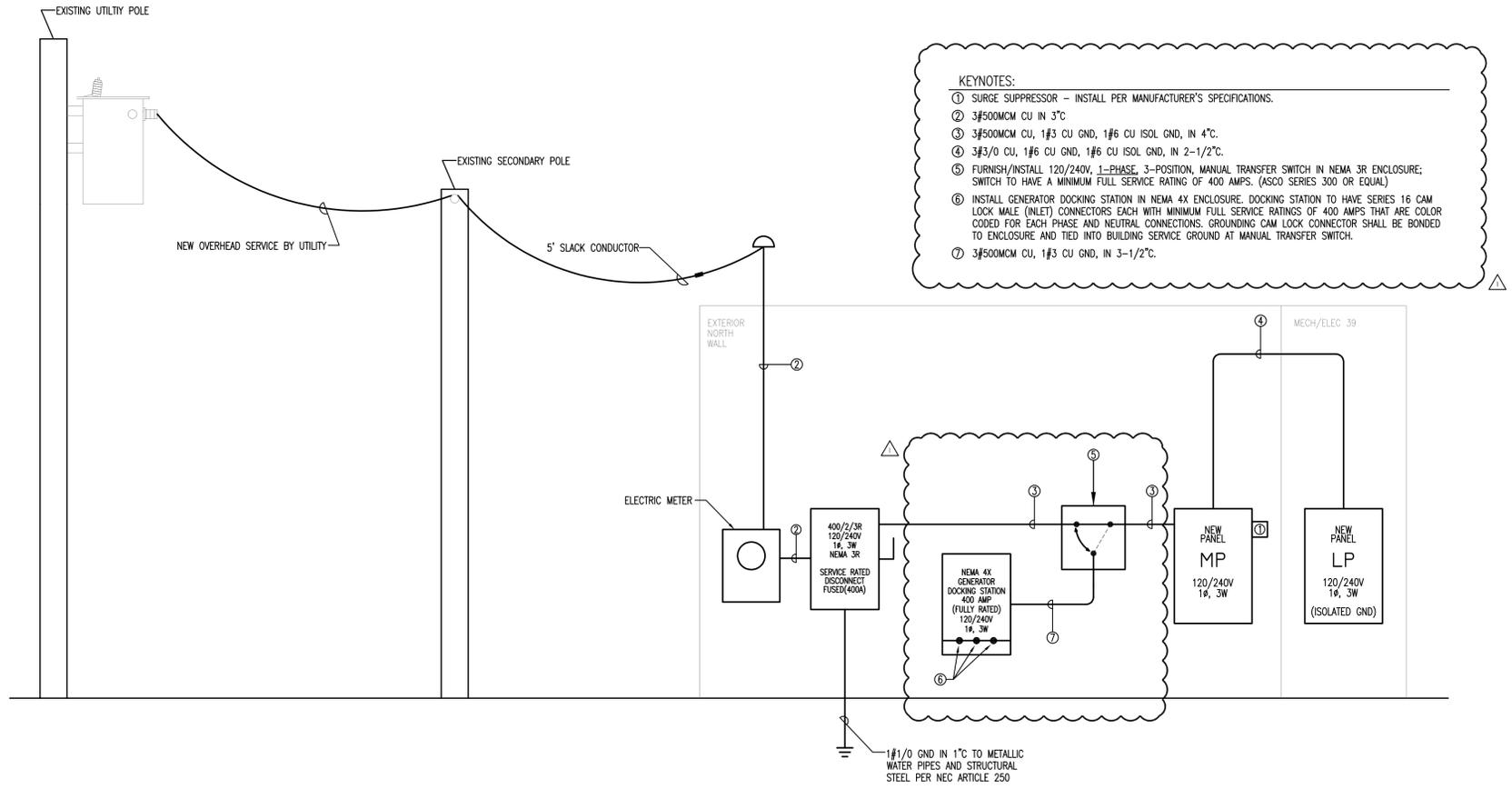


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 St. Petersburg, FL 33702  
 251-210-1362

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**THIS SHEET IS FOR BID ALTERNATE #8 ONLY**  
 THIS SHEET CONTAINS AN ALTERNATE POWER RISER DIAGRAM, MANUAL TRANSFER SWITCH, AND CAM-LOCK GENERATOR DOCKING STATION.

—PROVIDED APPROVAL FROM LOCAL AHJ AND UTILITY, ALUMINUM CONDUCTOR MAY BE USED FOR FEEDERS AND SERVICE-ENTRANCE CABLING. ALUMINUM CONDUCTOR MUST HAVE THE SAME OR GREATER AMPACITY OF THE SPECIFIED COPPER CONDUCTOR.



**KEYNOTES:**

- ① SURGE SUPPRESSOR — INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- ② 3#500MCM CU IN 3" C
- ③ 3#500MCM CU, 1#3 CU GND, 1#6 CU ISOL GND, IN 4" C.
- ④ 3#3/0 CU, 1#6 CU GND, 1#6 CU ISOL GND, IN 2-1/2" C.
- ⑤ FURNISH/INSTALL 120/240V, 1-PHASE, 3-POSITION, MANUAL TRANSFER SWITCH IN NEMA 3R ENCLOSURE; SWITCH TO HAVE A MINIMUM FULL SERVICE RATING OF 400 AMPS. (ASCO SERIES 300 OR EQUAL)
- ⑥ INSTALL GENERATOR DOCKING STATION IN NEMA 4X ENCLOSURE. DOCKING STATION TO HAVE SERIES 16 CAM LOCK MALE (INLET) CONNECTORS EACH WITH MINIMUM FULL SERVICE RATINGS OF 400 AMPS THAT ARE COLOR CODED FOR EACH PHASE AND NEUTRAL CONNECTIONS. GROUNDING CAM LOCK CONNECTOR SHALL BE BONDED TO ENCLOSURE AND TIED INTO BUILDING SERVICE GROUND AT MANUAL TRANSFER SWITCH.
- ⑦ 3#500MCM CU, 1#3 CU GND, IN 3-1/2" C.

Church Building Renovation & Addition  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church

No.	Description	Date
1	Permit Set	3.11.25
1	ISSUED FOR BIDS	03.02.26

**Bid Alternate #8 Power Riser Diagram**

Project number: 24002  
 Date: 2/28/2025  
 Drawn by: SBH

**E 0.3**  
 Scale: 1/8" = 1'-0"

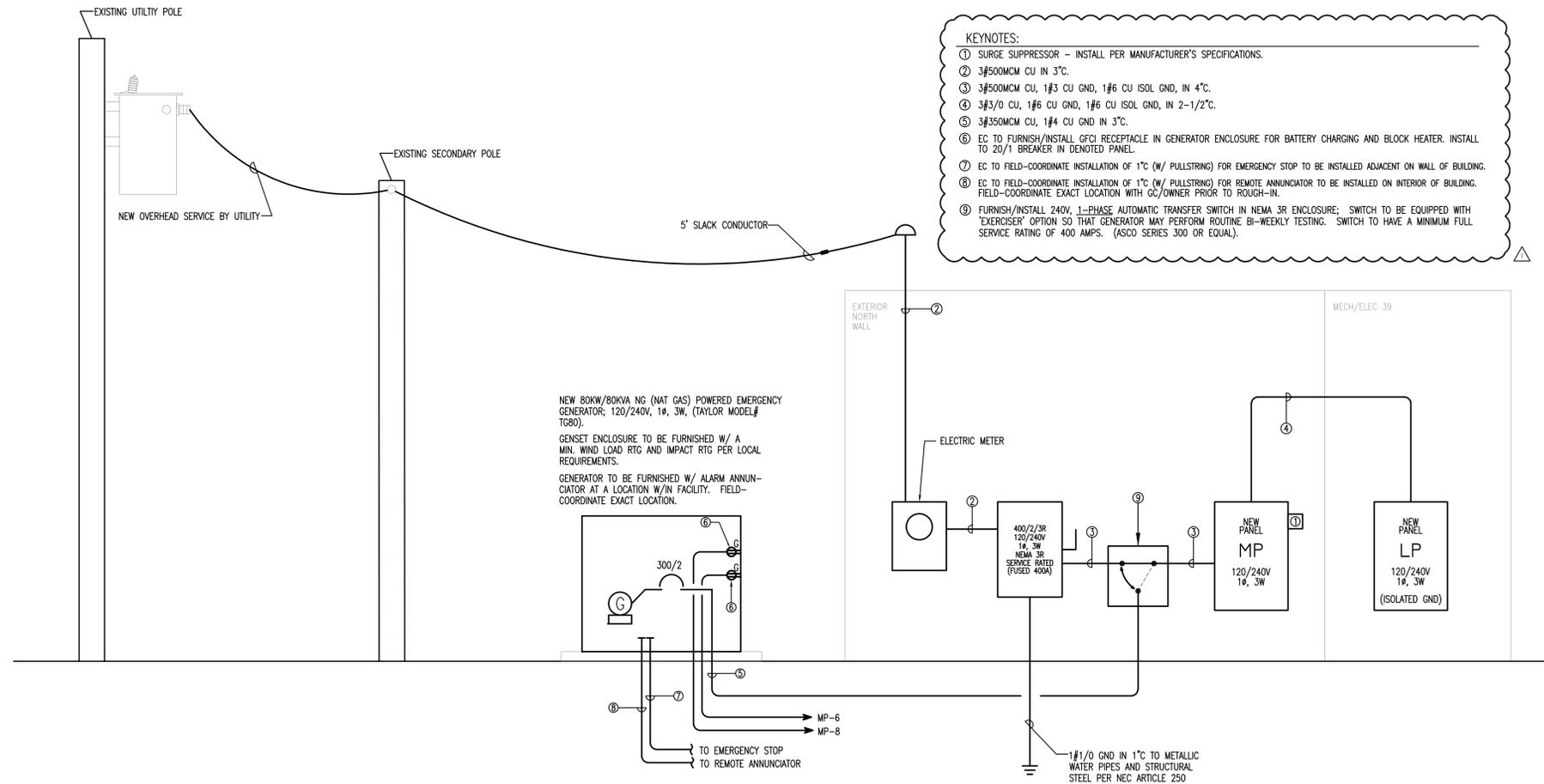
**1 BID ALTERNATE #8 POWER RISER DIAGRAM**  
 E 0.3 SCALE: N.T.S.

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Anthony L. Davis, P.E.  
 Florida License Number: 57419  
 850.526.3447  
 Project Number: 2024-075  
 Checked By: ALD  
 Drawn By: SBH

# THIS SHEET IS FOR BID ALTERNATE #9 ONLY

THIS SHEET CONTAINS AN ALTERNATE POWER RISER DIAGRAM, BACKUP GENERATOR, AND AUTOMATIC TRANSFER SWITCH.

-PROVIDED APPROVAL FROM LOCAL AHJ AND UTILITY, ALUMINUM CONDUCTOR MAY BE USED FOR FEEDERS AND SERVICE-ENTRANCE CABLING. ALUMINUM CONDUCTOR MUST HAVE THE SAME OR GREATER AMPACITY OF THE SPECIFIED COPPER CONDUCTOR.



### KEYNOTES:

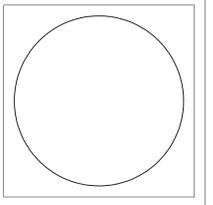
- ① SURGE SUPPRESSOR - INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- ② 3#500MCM CU IN 3"Ø.
- ③ 3#500MCM CU, 1#3 CU GND, 1#6 CU ISOL GND, IN 4"Ø.
- ④ 3#3/0 CU, 1#6 CU GND, 1#6 CU ISOL GND, IN 2-1/2"Ø.
- ⑤ 3#350MCM CU, 1#4 CU GND IN 3"Ø.
- ⑥ EC TO FURNISH/INSTALL GFCI RECEPTACLE IN GENERATOR ENCLOSURE FOR BATTERY CHARGING AND BLOCK HEATER. INSTALL TO 20/1 BREAKER IN DENOTED PANEL.
- ⑦ EC TO FIELD-COORDINATE INSTALLATION OF 1"Ø (W/ PULLSTRING) FOR EMERGENCY STOP TO BE INSTALLED ADJACENT ON WALL OF BUILDING.
- ⑧ EC TO FIELD-COORDINATE INSTALLATION OF 1"Ø (W/ PULLSTRING) FOR REMOTE ANNUNCIATOR TO BE INSTALLED ON INTERIOR OF BUILDING. FIELD-COORDINATE EXACT LOCATION WITH GC/OWNER PRIOR TO ROUGH-IN.
- ⑨ FURNISH/INSTALL 240V, 1-PHASE AUTOMATIC TRANSFER SWITCH IN NEMA 3R ENCLOSURE; SWITCH TO BE EQUIPPED WITH 'EXERCISER' OPTION SO THAT GENERATOR MAY PERFORM ROUTINE BI-WEEKLY TESTING. SWITCH TO HAVE A MINIMUM FULL SERVICE RATING OF 400 AMPS. (ASCO SERIES 300 OR EQUAL).

## BID ALTERNATE #9 POWER RISER DIAGRAM

E 0.4 SCALE: N.T.S.

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 St. Petersburg, FL 33702  
 251-210-1362

Jennifer P. Jones, Registered Architect  
 Florida License No.: RA103362



Church Building Renovation & Addition  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church

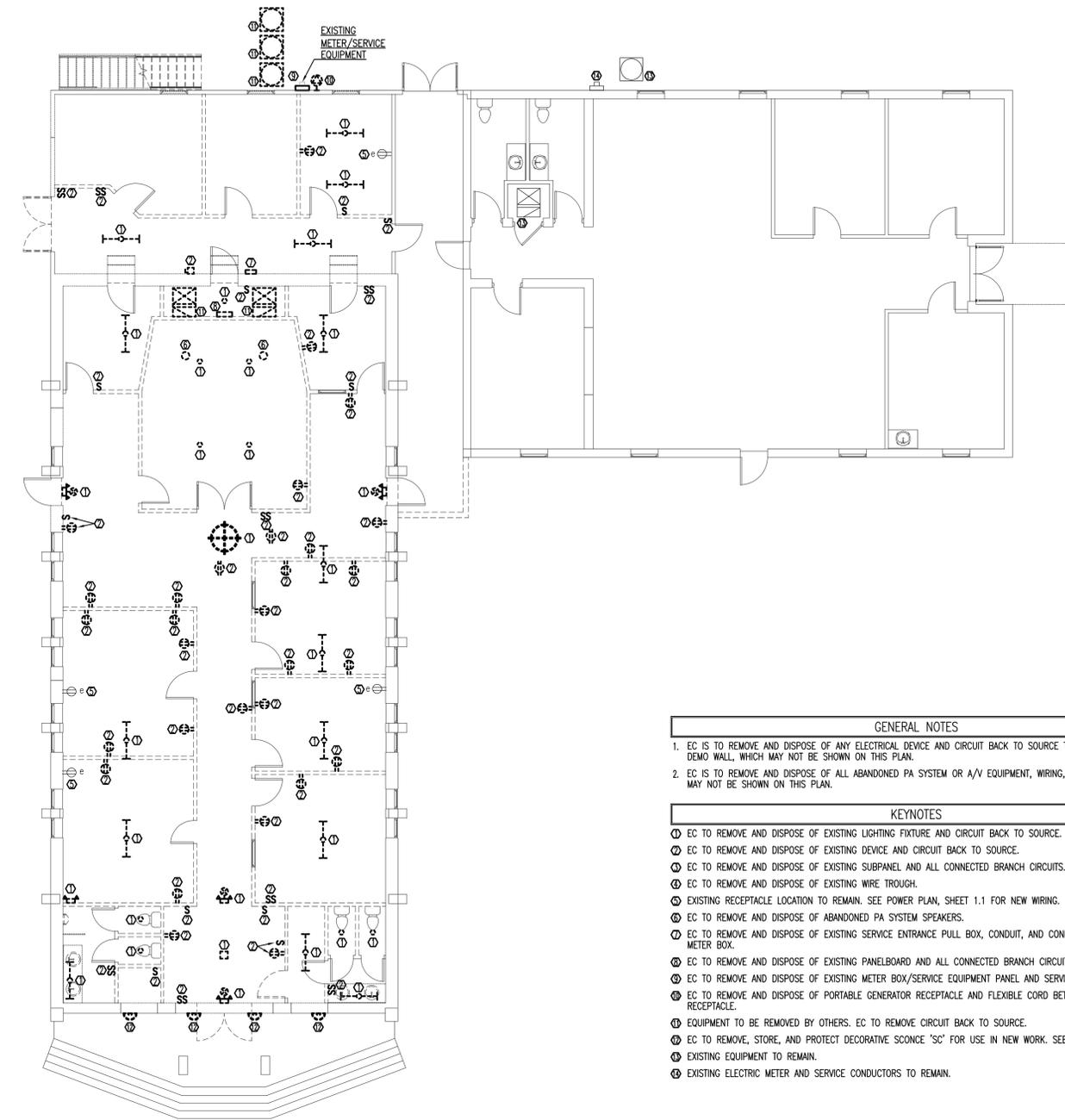
No.	Description	Date
1	ISSUED FOR BIDS	03.02.26

**Bid Alternate #9 Power Riser Diagram**

Project number 24002  
 Date 2/28/2025  
 Drawn by SBH

**E 0.4**  
 Scale 1/8" = 1'-0"





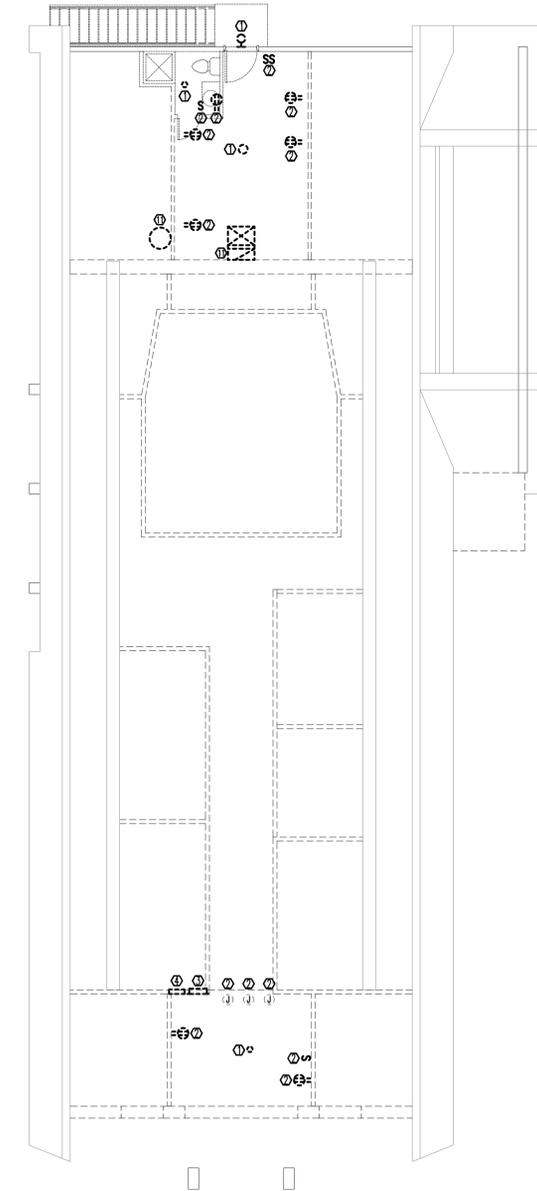
**1 1ST FLOOR ELECTRICAL DEMOLITION PLAN**  
 E1.0 SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

1. EC IS TO REMOVE AND DISPOSE OF ANY ELECTRICAL DEVICE AND CIRCUIT BACK TO SOURCE THAT RESIDES IN A DEMO WALL, WHICH MAY NOT BE SHOWN ON THIS PLAN.
2. EC IS TO REMOVE AND DISPOSE OF ALL ABANDONED PA SYSTEM OR A/V EQUIPMENT, WIRING, CONDUIT, ETC. WHICH MAY NOT BE SHOWN ON THIS PLAN.

**KEYNOTES**

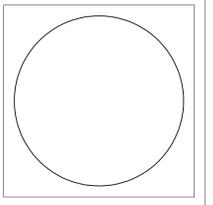
1. EC TO REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURE AND CIRCUIT BACK TO SOURCE.
2. EC TO REMOVE AND DISPOSE OF EXISTING DEVICE AND CIRCUIT BACK TO SOURCE.
3. EC TO REMOVE AND DISPOSE OF EXISTING SUBPANEL AND ALL CONNECTED BRANCH CIRCUITS.
4. EC TO REMOVE AND DISPOSE OF EXISTING WIRE TROUGH.
5. EXISTING RECEPTACLE LOCATION TO REMAIN. SEE POWER PLAN, SHEET 1.1 FOR NEW WIRING.
6. EC TO REMOVE AND DISPOSE OF ABANDONED PA SYSTEM SPEAKERS.
7. EC TO REMOVE AND DISPOSE OF EXISTING SERVICE ENTRANCE PULL BOX, CONDUIT, AND CONDUCTORS BACK TO METER BOX.
8. EC TO REMOVE AND DISPOSE OF EXISTING PANELBOARD AND ALL CONNECTED BRANCH CIRCUITS AND FEEDERS.
9. EC TO REMOVE AND DISPOSE OF EXISTING METER BOX/SERVICE EQUIPMENT PANEL AND SERVICE CONDUCTORS.
10. EC TO REMOVE AND DISPOSE OF PORTABLE GENERATOR RECEPTACLE AND FLEXIBLE CORD BETWEEN MAIN PANEL AND RECEPTACLE.
11. EQUIPMENT TO BE REMOVED BY OTHERS. EC TO REMOVE CIRCUIT BACK TO SOURCE.
12. EC TO REMOVE, STORE, AND PROTECT DECORATIVE SCONCE "SC" FOR USE IN NEW WORK. SEE SHEET E1.2.
13. EXISTING EQUIPMENT TO REMAIN.
14. EXISTING ELECTRIC METER AND SERVICE CONDUCTORS TO REMAIN.



**2 2ND FLOOR ELECTRICAL DEMOLITION PLAN**  
 E1.0 SCALE: 1/8" = 1'-0"

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**Church Building Renovation & Addition**  
**4400 W. 19th Street, Panama City, FL**  
**Trinity United Methodist Church**

No.	Description	Date
	Permit Set	3.11.25
1	ISSUED FOR BIDS	03.02.26

**Electrical Demolition Plan**

Project number 24002  
 Date 2/28/2025  
 Drawn by CRD

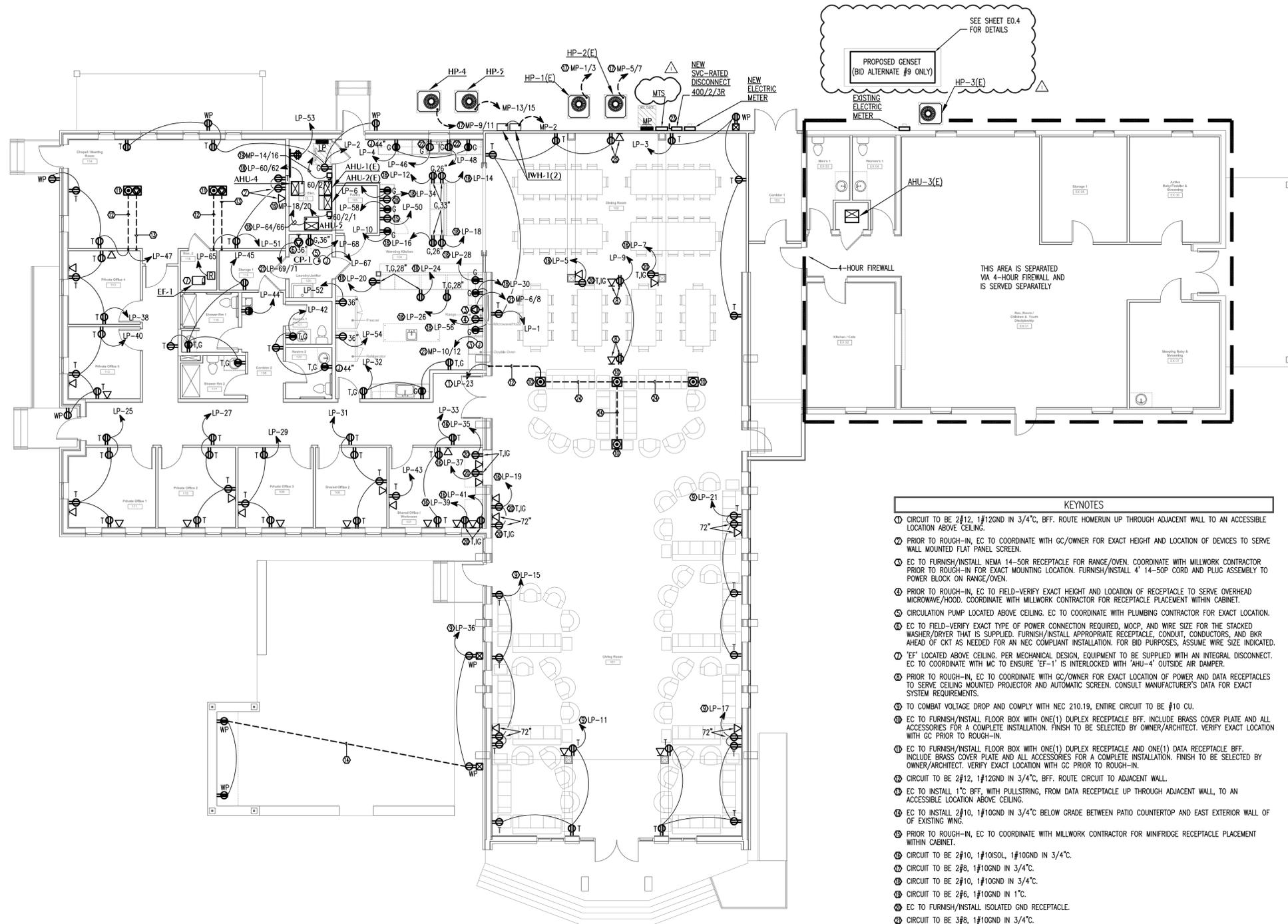
**E 1.0**

Scale 1/8" = 1'-0"

**WATFORD ENGINEERING**

Florida CA Number: 27625  
 Anthony L. Davis, PE  
 Florida License Number: 57419  
 850.526.3447  
 Project Number: 2024-075  
 Checked By: ALD  
 Drawn By: CRD

4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Rd. Suite 100 Auburn, AL 36830



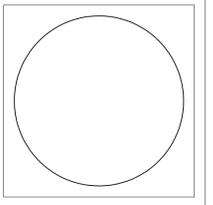
**NEW WORK POWER PLAN**  
 E1.1 SCALE: 1/8" = 1'-0"

**KEYNOTES**

1. CIRCUIT TO BE 2#12, 1#12GND IN 3/4" C. BFF. ROUTE HOMERUN UP THROUGH ADJACENT WALL TO AN ACCESSIBLE LOCATION ABOVE CEILING.
2. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH GC/OWNER FOR EXACT HEIGHT AND LOCATION OF DEVICES TO SERVE WALL MOUNTED FLAT PANEL SCREEN.
3. EC TO FURNISH/INSTALL NEMA 14-50R RECEPTACLE FOR RANGE/OVEN. COORDINATE WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN FOR EXACT MOUNTING LOCATION. FURNISH/INSTALL 4' 14-50P CORD AND PLUG ASSEMBLY TO POWER BLOCK ON RANGE/OVEN.
4. PRIOR TO ROUGH-IN, EC TO FIELD-VERIFY EXACT HEIGHT AND LOCATION OF RECEPTACLE TO SERVE OVERHEAD MICROWAVE/HOOD. COORDINATE WITH MILLWORK CONTRACTOR FOR RECEPTACLE PLACEMENT WITHIN CABINET.
5. CIRCULATION PUMP LOCATED ABOVE CEILING. EC TO COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.
6. EC TO FIELD-VERIFY EXACT TYPE OF POWER CONNECTION REQUIRED, MOCP, AND WIRE SIZE FOR THE STACKED WASHER/DRYER THAT IS SUPPLIED. FURNISH/INSTALL APPROPRIATE RECEPTACLE, CONDUIT, CONDUCTORS, AND BKR AHEAD OF CKT AS NEEDED FOR AN NEC COMPLIANT INSTALLATION. FOR BID PURPOSES, ASSUME WIRE SIZE INDICATED.
7. "EF" LOCATED ABOVE CEILING. PER MECHANICAL DESIGN, EQUIPMENT TO BE SUPPLIED WITH AN INTEGRAL DISCONNECT. EC TO COORDINATE WITH MC TO ENSURE "EF-1" IS INTERLOCKED WITH "AHU-4" OUTSIDE AIR DAMPER.
8. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH GC/OWNER FOR EXACT LOCATION OF POWER AND DATA RECEPTACLES TO SERVE CEILING MOUNTED PROJECTOR AND AUTOMATIC SCREEN. CONSULT MANUFACTURER'S DATA FOR EXACT SYSTEM REQUIREMENTS.
9. TO COMBAT VOLTAGE DROP AND COMPLY WITH NEC 210.19, ENTIRE CIRCUIT TO BE #10 CU.
10. EC TO FURNISH/INSTALL FLOOR BOX WITH ONE(1) DUPLEX RECEPTACLE BFF. INCLUDE BRASS COVER PLATE AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION. FINISH TO BE SELECTED BY OWNER/ARCHITECT. VERIFY EXACT LOCATION WITH GC PRIOR TO ROUGH-IN.
11. EC TO FURNISH/INSTALL FLOOR BOX WITH ONE(1) DUPLEX RECEPTACLE AND ONE(1) DATA RECEPTACLE BFF. INCLUDE BRASS COVER PLATE AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION. FINISH TO BE SELECTED BY OWNER/ARCHITECT. VERIFY EXACT LOCATION WITH GC PRIOR TO ROUGH-IN.
12. CIRCUIT TO BE 2#12, 1#12GND IN 3/4" C. BFF. ROUTE CIRCUIT TO ADJACENT WALL.
13. EC TO INSTALL 1" C BFF, WITH PULLSTRING, FROM DATA RECEPTACLE UP THROUGH ADJACENT WALL, TO AN ACCESSIBLE LOCATION ABOVE CEILING.
14. EC TO INSTALL 2#10, 1#10GND IN 3/4" C. BELOW GRADE BETWEEN PATIO COUNTERTOP AND EAST EXTERIOR WALL OF EXISTING WING.
15. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH MILLWORK CONTRACTOR FOR MINIFRIDGE RECEPTACLE PLACEMENT WITHIN CABINET.
16. CIRCUIT TO BE 2#10, 1#10SOL, 1#10GND IN 3/4" C.
17. CIRCUIT TO BE 2#8, 1#10GND IN 3/4" C.
18. CIRCUIT TO BE 2#10, 1#10GND IN 3/4" C.
19. CIRCUIT TO BE 2#6, 1#10GND IN 1" C.
20. EC TO FURNISH/INSTALL ISOLATED GND RECEPTACLE.
21. CIRCUIT TO BE 3#8, 1#10GND IN 3/4" C.
22. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH MILLWORK CONTRACTOR FOR DISHWASHER RECEPTACLE PLACEMENT WITHIN CABINET.
23. FOR BASE BID ONLY, EC TO FURNISH/INSTALL DOUBLE-POLE, DOUBLE-THROW SERVICE DISCONNECT. THIS IS TO ALLOW FOR THE ATTACHMENT OF A FUTURE PORTABLE BACKUP GENERATOR, NOT IN THIS CONTRACT.
24. INSTALL 2#12, 1#12GND IN 3/4" C. BFF.
25. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH OWNER/GC FOR EXACT HEIGHT OF RECEPTACLE TO SERVE LIGHTED CROSS FEATURE.
26. PRIOR TO ROUGH-IN, EC TO COORDINATE WITH MILLWORK CONTRACTOR FOR PLACEMENT OF RECEPTACLE TO SERVE UNDER COUNTER ICE MAKER.

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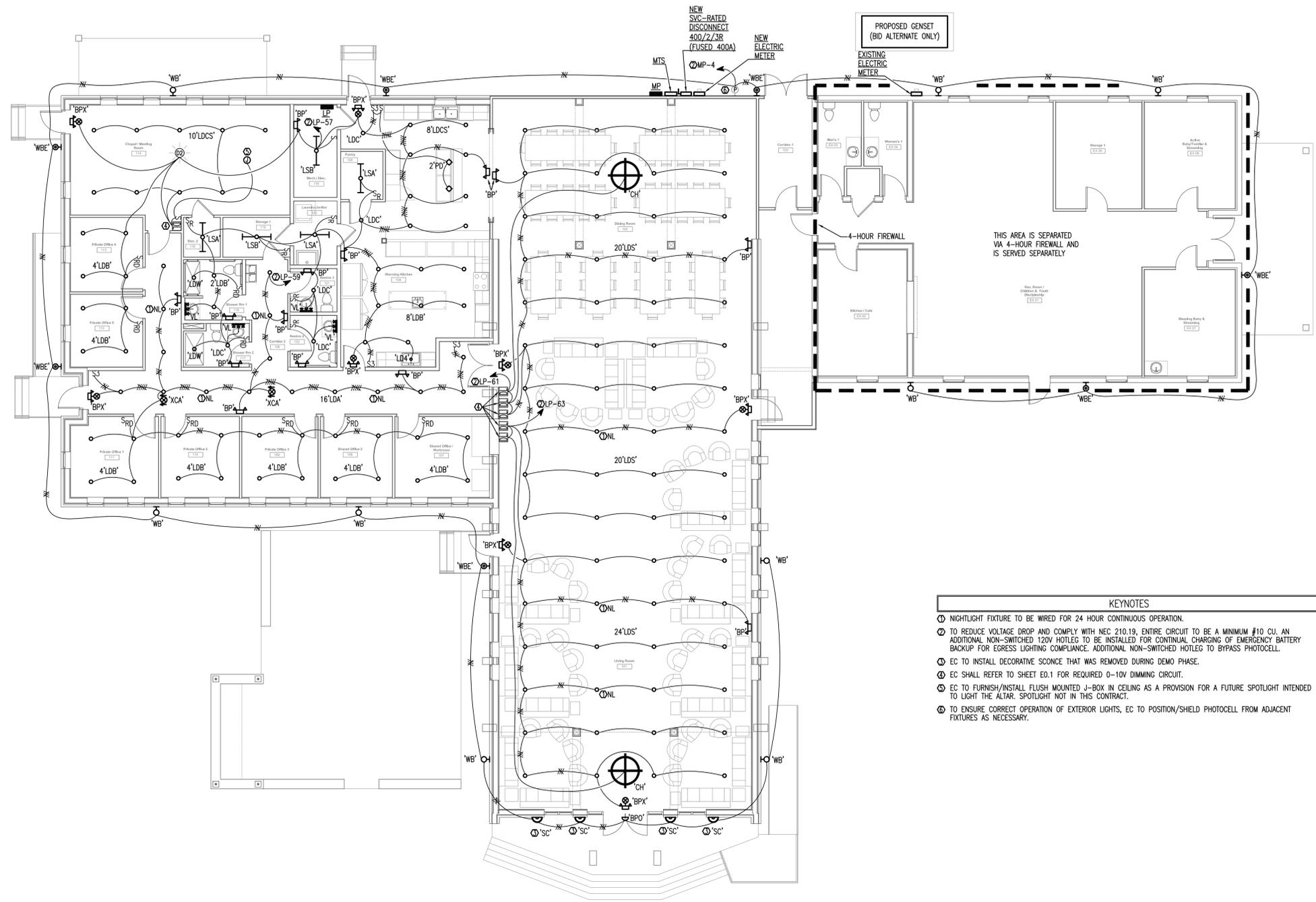
**New Work Power Plan**

Project number 24002  
 Date 2/28/2025  
 Drawn by CRD

**E 1.1**  
 Scale 1/8" = 1'-0"

**WATFORD ENGINEERING**  
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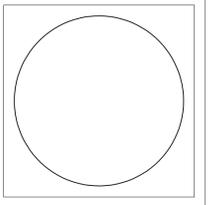


**1 LIGHTING REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"

- KEYNOTES**
- ① NIGHTLIGHT FIXTURE TO BE WIRED FOR 24 HOUR CONTINUOUS OPERATION.
  - ② TO REDUCE VOLTAGE DROP AND COMPLY WITH NEC 210.19, ENTIRE CIRCUIT TO BE A MINIMUM #10 CU. AN ADDITIONAL NON-SWITCHED 120V HOTLEG TO BE INSTALLED FOR CONTINUAL CHARGING OF EMERGENCY BATTERY BACKUP FOR EGRESS LIGHTING COMPLIANCE. ADDITIONAL NON-SWITCHED HOTLEG TO BYPASS PHOTOCELL.
  - ③ EC TO INSTALL DECORATIVE SCONCE THAT WAS REMOVED DURING DEMO PHASE.
  - ④ EC SHALL REFER TO SHEET E0.1 FOR REQUIRED 0-10V DIMMING CIRCUIT.
  - ⑤ EC TO FURNISH/INSTALL FLUSH MOUNTED J-BOX IN CEILING AS A PROVISION FOR A FUTURE SPOTLIGHT INTENDED TO LIGHT THE ALTAR. SPOTLIGHT NOT IN THIS CONTRACT.
  - ⑥ TO ENSURE CORRECT OPERATION OF EXTERIOR LIGHTS, EC TO POSITION/SHIELD PHOTOCELL FROM ADJACENT FIXTURES AS NECESSARY.

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**Church Building Renovation & Addition**  
**4400 W. 19th Street, Panama City, FL**  
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No.	Description	Date
1	ISSUED FOR BIDS	03.02.26

**New Work**  
**Lighting Plan**

Project number: 24002  
 Date: 2/28/2025  
 Drawn by: CRD

**E 1.2**  
 Scale: 1/8" = 1'-0"

**WATFORD ENGINEERING**  
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## LEGEND

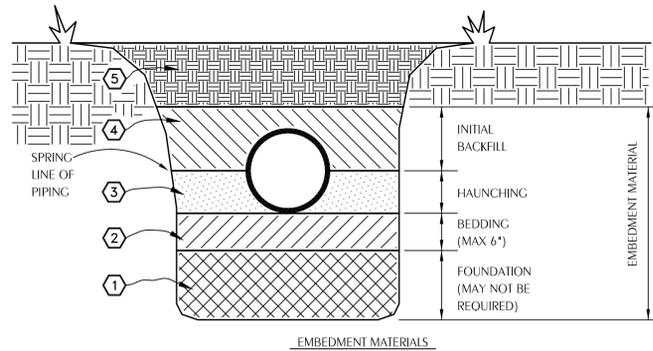
	S or W	SOIL OR WASTE PIPING
	V	VENT PIPING
	OW	OIL WASTE PIPING
	OIL	OIL SUPPLY PIPING
	CW	COLD WATER SUPPLY PIPING
	HW	HOT WATER SUPPLY PIPING
	TW	TEMPERED WATER SUPPLY PIPING
	HWR	HOT WATER RETURN PIPING
	TWR	TEMPERED WATER RETURN PIPING
	A	COMPRESSED AIR
	G	GAS
	CV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB	HOSE BIBB
	WH	WALL HYDRANT
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	COTG	CLEANOUT TO GRADE
	COAC	CLEANOUT ABOVE CEILING
	UNION	UNION
	VIR	VENT THRU ROOF
	1	SHEET NOTE
		POINT OF CONNECTION TO EXISTING
	FS	FLOOR SINK
	SH	SHOWER
	MR	MOP RECEPTOR
	UR	URINAL
	WC	WATER CLOSET
	UB	WALL MOUNTED UTILITY BOX
	IWH	INSTANTANEOUS ELECTRIC WATER HEATER
	EWC	ELECTRIC WATER COOLER
	L	LAVATORY
	SK	SINK
	SS	SERVICE SINK
	KW	KILOWATT
	EW	EYE/FACE & SHOWER WASH
	TP	AUTOMATIC TRAP PRIMER
	WHA	TYPE "A" WATER HAMMER ARRESTER
	WHB	TYPE "B" WATER HAMMER ARRESTER
	WHC	TYPE "C" WATER HAMMER ARRESTER
	HR	HOSE REEL
	TD	TRENCH DRAIN
	MV	MIXING VALVE
	AC	AIR COMPRESSOR
	CP	CIRCULATORY PUMP(INLINE)
	TCV	TEMPERATURE CONTROL VALVE
	OI	OIL INTERCEPTOR
	RTC	RUNNING TRAP CLEANOUT
	UH-1(M)	EQUIPMENT TAG; (M) INDICATES MECHANICAL EQUIPMENT. REFER TO M SHEETS

## PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	PIPE SIZES-INCHES			
		CW	HW	W	G
WC-1	WATER CLOSET (HANDICAP, TANK TYPE)	1/2	-	4	-
L-1	LAVATORY (20X17)(CI MOUNTED)	3/8	3/8	1-1/4	-
SK-1	SINGLE COMPARTMENT SINK	1/2	1/2	1-1/2*	-
SK-2	SINGLE COMPARTMENT SINK	1/2	1/2	1-1/2*	-
SK-3	TWO COMPARTMENT SINK	1/2	1/2	2@1-1/2*	-
SH-1	SHOWER (HANDICAP)	1/2	1/2	2	-
SH-2	SHOWER (STANDARD)	1/2	1/2	2	-
UB-1	RECESSED UTILITY WALL BOX (WASHER HOOK-UP)	1/2	1/2	2	-
UB-2	RECESSED UTILITY WALL BOX (ICE-MAKER HOOK-UP)	1/4	-	-	-
FD	FLOOR DRAIN	1/2	-	3	-
MV-1	WATER MIXING VALVE	3/4	3/4	-	-
EWC-1	ELECTRIC WATER COOLER (DUAL LEVEL)	1/2	-	1-1/2	-
IWH-1	INSTANTANEOUS GAS WATER HEATER	3/4	3/4	-	3/4
CP-1	CIRCULATOR PUMP	-	3/4	-	-
TCV	TEMPERATURE CONTROL VALVE	-	1/2	-	-
TP	TRAP PRIMER	1/2	-	-	-
WH	WALL HYDRANT	-	3/4	-	-
SS-1	SERVICE SINK	1/2	1/2	2	-

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.
4. SK-2 SINGLE COMPARTMENT SINK - ROUTE 1-1/2" INDIRECT DRAIN TO FLOOR SINK.

1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
  2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE HAND PLACED IN 4'-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
  3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
  4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
  5. FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL-LOADED.
- NOTE:**  
ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING CODE SECTION 306.



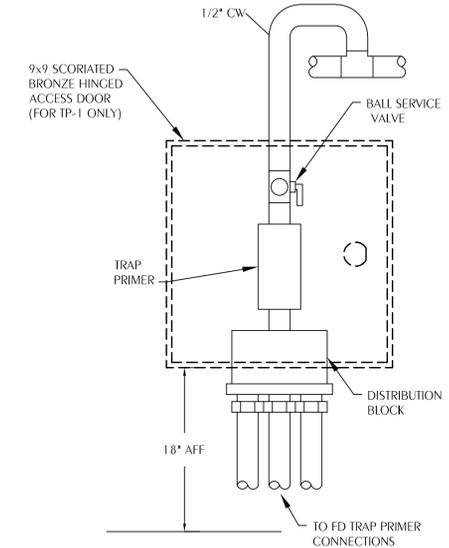
- EMBEDMENT MATERIALS**
- CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAC, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.
  - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES CW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.
  - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.
  - CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.
  - CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

## 2 EXCAVATION AND BACKFILL DETAIL

PO. 1 SCALE: NONE

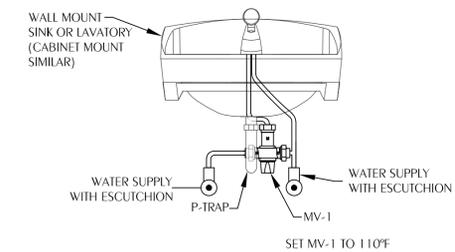
## PLUMBING GENERAL NOTES

1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
4. ALL PIPING PASSING THROUGH WALLS SHALL HAVE A SLEEVE PER SPECIFICATIONS.
5. ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS.
6. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
7. SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
8. COORDINATE LOCATION OF ALL FLOOR DRAINS SERVING HVAC EQUIPMENT WITH HVAC EQUIPMENT SHOP DRAWINGS.
9. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
10. PRIOR TO SUBSTANTIAL COMPLETION OF NEW WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
11. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
12. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
13. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
14. ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS AND THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE (8TH EDITION).
15. CONTRACTOR SHALL DEVELOP COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.



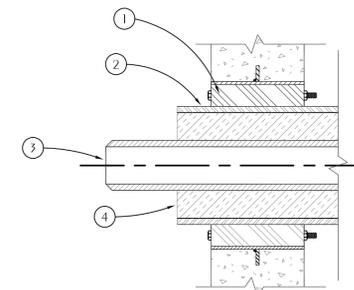
## 1 TRAP PRIMER DETAIL

PO. 1 SCALE: NONE



## 3 LAV/SINK MIXING VALVE DETAIL

PO. 1 SCALE: NONE  
NOTE: MIXING VALVE WILL BE TYPICAL FOR L-1, L-2, SK-1



1. WALL SEAL APPURTENANCES PER SPECIFICATIONS
2. PIPE SLEEVE PER SPECIFICATIONS
3. PIPING
4. INSULATION

## 4 TYPICAL PIPE PENETRATION OF WALL

PO. 1 SCALE: NONE

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No.	Description	Date

**LEGEND, SCHEDULE, NOTES, DETAILS**

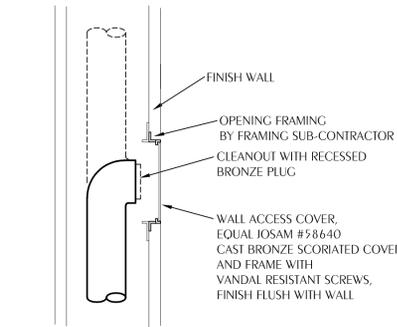
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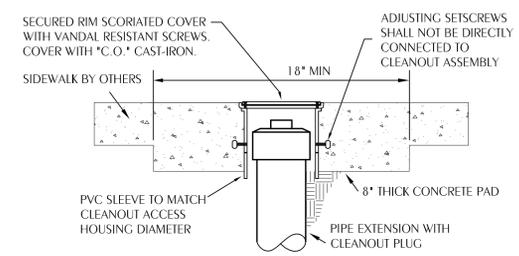
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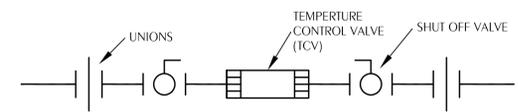
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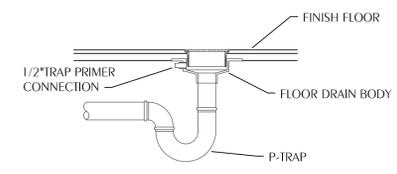
**1 CLEANOUT TO WALL**  
 PO.2 SCALE: NONE



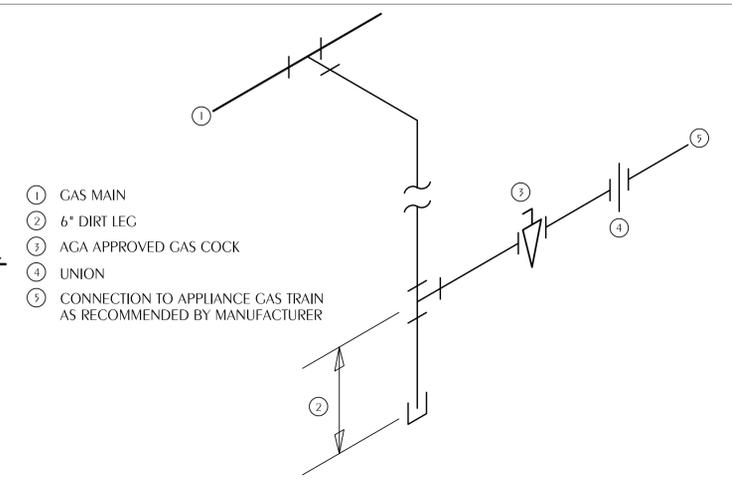
**2 CLEANOUT TO SIDEWALK**  
 PO.2 SCALE: NONE



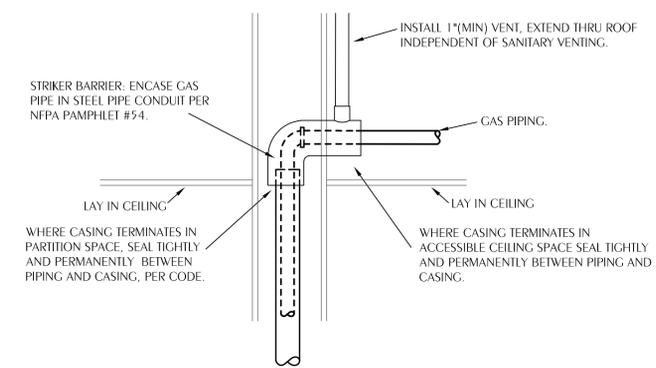
**3 THERMOSTATIC TEMPERATURE CONTROL VALVE DETAIL**  
 PO.2 SCALE: NONE



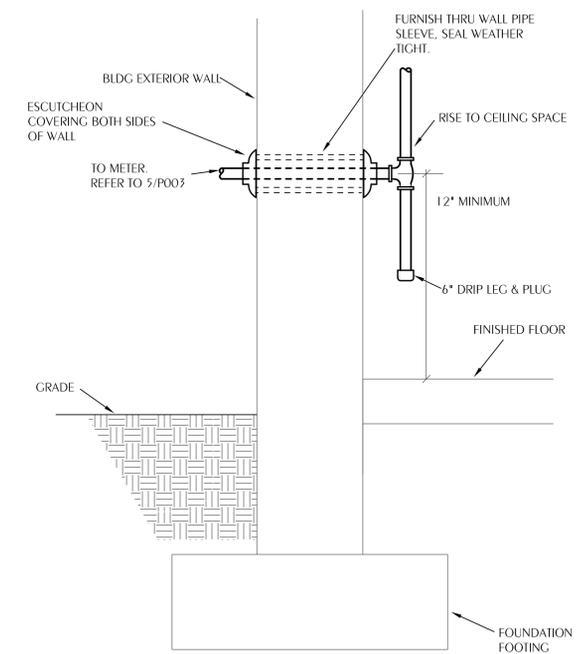
**4 FLOOR DRAIN WITH TRAP PRIMER DETAIL**  
 PO.2 SCALE: NONE



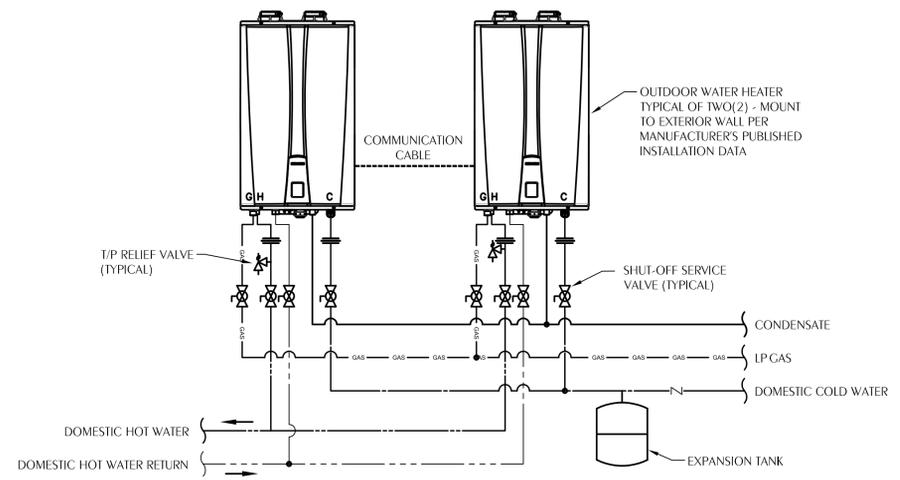
**5 TYPICAL GAS PIPING CONNECTION DETAIL**  
 PO.2 SCALE: NONE



**6 TYPICAL INTERIOR PARTITION GAS PIPING AT CEILING DETAIL**  
 PO.2 SCALE: NONE

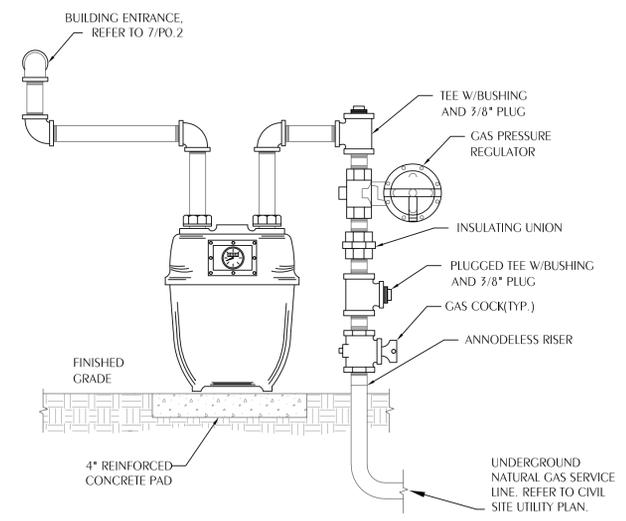


**7 TYPICAL GAS SERVICE ENTRANCE AT BLDG. EXTERIOR**  
 PO.2 SCALE: NONE

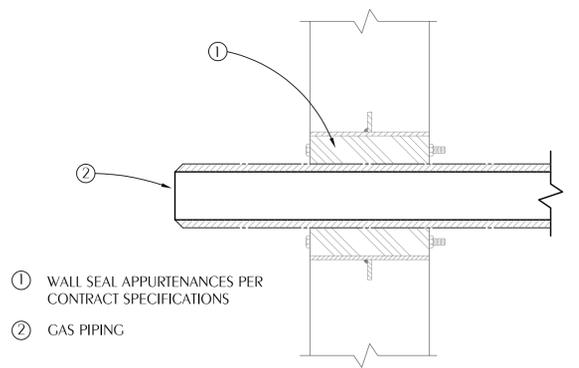


**NOTES**  
 1. PROVIDE ELECTRONIC MANIFOLD CONTROLLER, CONVERSION CABLES, AND ALL REQUIRED ACCESSORIES FOR OPERATION AS A SINGLE MANIFOLDED UNIT.

**8 INSTANTANEOUS WATER HEATER DETAIL - IWH-1**  
 PO.2 SCALE: NONE

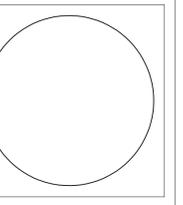


**9 TYPICAL GAS METER DETAIL**  
 PO.2 SCALE: NONE



**10 TYPICAL GAS PIPE WALL PENETRATION DETAIL**  
 PO.2 SCALE: NONE

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 251-710-1386



Church Building Renovation & Addition  
 4400 W. 19th Street, Panama City, FL  
 Trinity United Methodist Church

No.	Description	Date

**PLUMBING DETAILS**

Project number 24002  
 Date 2/28/2025  
 Drawn by MMI

**P 0.2**  
 Scale 1/8" = 1'-0"

**WATFORD ENGINEERING**  
 Florida CA Number: 27825  
 Keith A. Johnson, PE  
 Florida License Number: 88457  
 850.528.5447  
 Project Number: 2024-075  
 Checked By: KAJ  
 4452 Clinton Street Marianna, Florida 32446  
 2449 Moores Mill Rd, Suite 100 Auburn, AL 36830

**SPECIFICATIONS**

- Notes:
- 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
  - Unit weight - w/ cast iron covers: 376 lbs. (For wet weight add 2,310 lbs.)
  - Maximum operating temperature: 150° F continuous
  - Capacities - Liquid: 277 gal.; Grease: 1,895 lbs. (260 gal.) @100GPM; Grease: 1,196 lbs. (164 gal.) @200GPM; Solids: 69 gal.
  - This unit does not require flow control for 100 GPM applications. Built-in flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary.
  - For gravity drainage applications only.
  - Do not use for pressure applications.
  - Cover placement allows full access to tank for proper maintenance.
  - Vent not required unless per local code.
  - Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
  - Integral air relief / Anti-siphon / Sampling access.
  - Adjustable cover adapters provide up to 4" of additional height.
  - Designed for below-grade, above-grade, indoor or outdoor installations.
  - Safety Star® access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

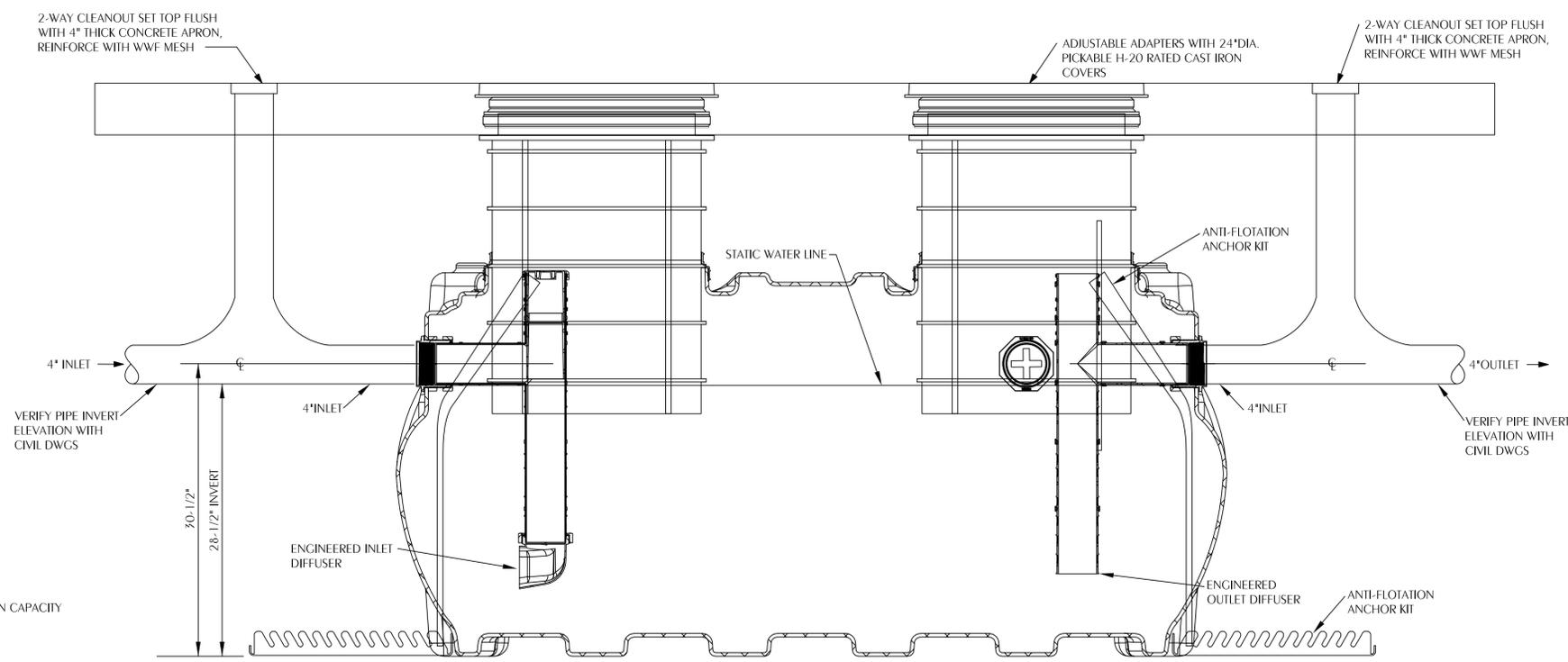
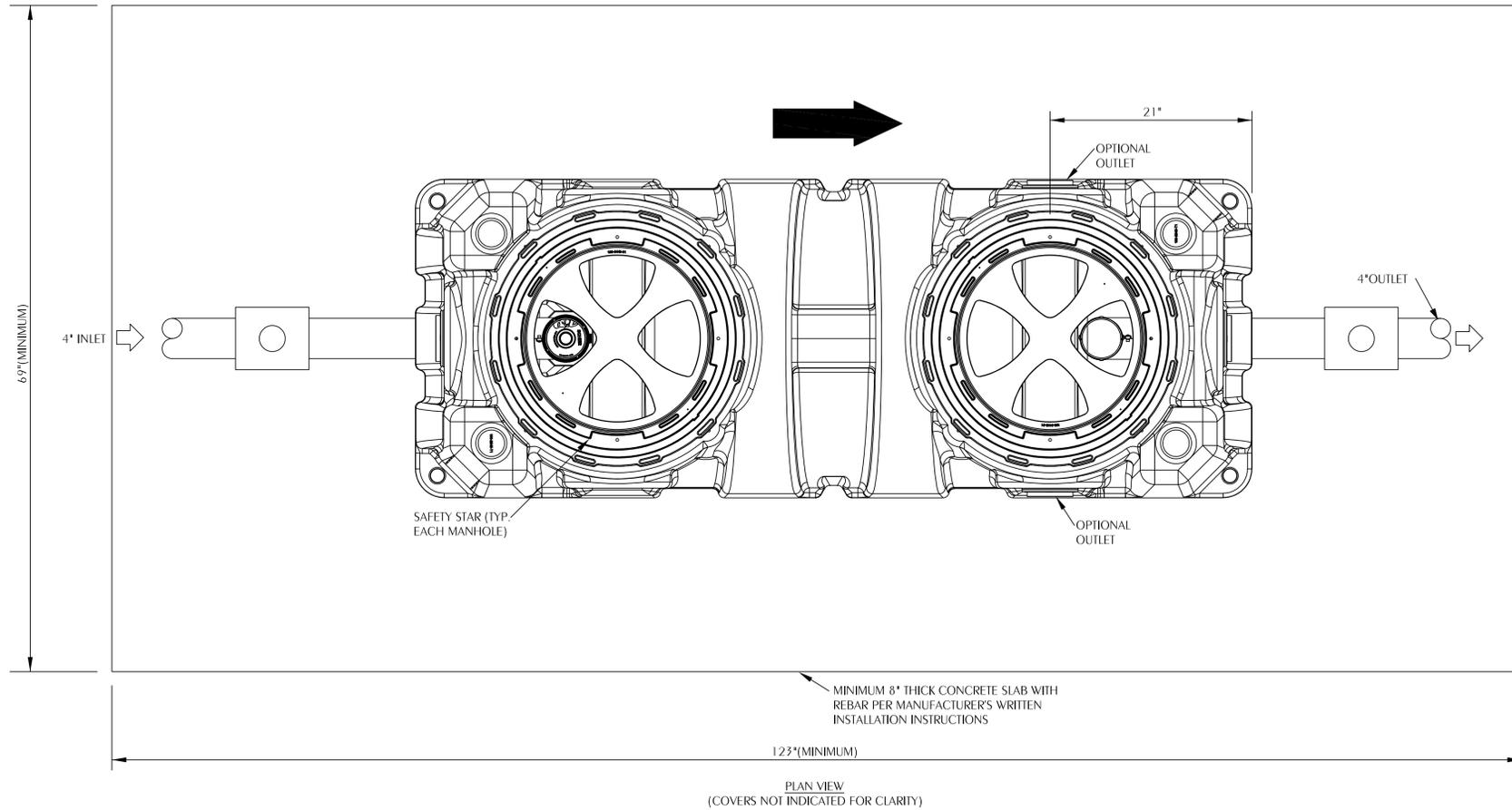
**ENGINEER SPECIFICATION GUIDE**

Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapters, Safety Star® access restrictor built into each cover adapter, built-in flow control (for 200 GPM only) and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D for 100 GPM, type C for 200 GPM) and CSA B481.1. Interceptor flow rate shall be 100 GPM or 200 GPM. Interceptor grease capacity shall be 1,895 lbs. @ 100 GPM or 1,196 lbs. @ 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

**CERTIFIED PERFORMANCE**

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control



**CALCULATION:**

NOTE: DRAWING IS DIAGRAMMATIC IN NATURE. SEE FLOOR PLAN SHEET FOR INLET AND OUTLET LOCATIONS AND GREASE TRAP CONFIGURATION.

**GREASE INTERCEPTOR NOTES (PRELIMINARY SIZING)**

- NUMBER OF MEALS x GALLONS OF WASTE PER MEAL (GM) x LOADING FACTOR (1.0 WITH DISHWASHER) = INTERCEPTOR GALLON CAPACITY
- NUMBER OF MEALS PER DAY = 392
  - GALLONS WASTE PER MEAL = 5
  - LOADING FACTOR = 1
  - 1 GALLON OF GREASE PER 8 GALLONS OF WATER
  - 1 GALLON OF GREASE WEIGHS 7.5 POUNDS

CALCULATION:  
 $392 \times 5 \times 1 \times 7.5/8 = 1837.5$  POUNDS GREASE MINIMUM  
 SELECTION: SCHIER GB-250, 1895 LBS GREASE CAPACITY @ 100 GPM.

NOMINAL CAPACITY 277 GAL./1,895 LBS @ 100 GPM

SCALE: NONE (ONE HYDROMECHANICAL TANK REQUIRED WITH 1,895 LBS GREASE CAPACITY @ 100 GPM)

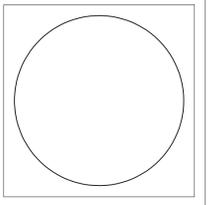
**1 GREASE TRAP DETAIL**  
 P0.3 SCALE: NONE

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 4452 Clinton Street Marianna, Florida 32446  
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**P 0.3**

Scale 1/8" = 1'-0"

# PLUMBING FIXTURE SPECIFICATIONS

NOTE: WATER CLOSET, LAVATORY, SINKS, SERVICE SINK, AND SHOWER FIXTURES ARE BASIS OF DESIGN ONLY. FINAL FIXTURE SELECTIONS SHALL BE APPROVED BY OWNER AND ARCHITECT.

**WC-1 WATER CLOSET, FLOOR-MOUNT (HANDICAP, TANK TYPE):**

VITREOUS CHINA LOW CONSUMPTION 1.28 GPF, ELONGATED, 16 3/4" TO RIM, SIPHON JET ACTION, CLOSED COUPLED TANK, COMPLETE WITH FLOAT VALVE, VALVE AND CHROME PLATED TRIP LEVER, BOLT CAPS, COLOR "WHITE", CHROME PLATED SOLID BRASS ANGLE STOP WITH FLEXIBLE CHROME PLATED COPPER RISER, HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES.

WATER CLOSET ZURN Z5555-K-HET  
 SUPPLY W/STOP ZURN Z8802CRLK-PC  
 SEAT ZURN Z5955SS-EL-S1S  
 CLOSET BOLT/WAX RING KIT Z5972-COMB

**L-1 LAVATORY, COUNTERTOP:**

VITREOUS CHINA DROP-IN LAVATORY 20" x 17", COLOR "WHITE", FRONT OVERFLOW, 4" CENTERS, PROVIDE. CHROME PLATED ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS BODY TRAP PRIMER P-TRAP WITH CLEAN-OUT AND TUBE WASTE TO WALL, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL, POLISHED CHROME PLATED CAST BRASS SINGLE LEVER FAUCET, AERATOR OUTLET AND SINGLE LEVER HANDLE. MV-1: UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F. DUAL CHECK VALVES, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS. MV-1: UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRONZE BODY, LIMITS HOT WATER BETWEEN 80 DEGREES F AND 120 DEGREES F. DUAL CHECK VALVES, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS. SET MV TO 105 DEGREES F. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH A WHITE FORM FITTING EVA FOAM TUBULAR SINK TRAP COVER FOR THE P-TRAP, SUPPLY STOPS, AND RISERS. COVER SHALL BE SECURED WITH SECURE HOOK AND LOOP (VELCRO).

LAVATORY ZURN Z5114  
 FAUCET ZURN Z-81000-XL  
 SUPPLY W/STOP ZURN Z-8802LRLK-PC  
 P-TRAP ZURN Z-8746PC  
 STRAINER/TAIPIECE ZURN Z-8743-PC  
 MIXING VALVE WATTS LFUSC-B  
 INSULATION KIT OATEY DEARBORN ADA100

**SH-1 SHOWER (HANDICAP):**

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON. MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. PACKING WITH BRASS ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. TWO WAY CHROME DIVERTER VALVE. BRASS SHOWER HEAD WITH ARM AND FLANGE. WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING. CUSTOM SIZED SOLID SURFACE "ROLL-IN" SHOWER RECEPTOR WITH ADA THRESHOLD. REAR TRENCH LOCATION WITH 12 GAUGE STAINLESS STEEL GRATE WITH STAINLESS STEEL FASTENERS AND INTEGRAL WATER BARRIER WITH FLANGE. REFER TO ARCHITECTURAL PLANS FOR SIZES. CONFIRM DRAIN TYPE AND LOCATION, AND SHOWER HEAD AND CONTROL LOCATIONS, PRIOR TO ORDERING.

SHOWER ZURN Z-7301-SS-MT-DV-2P-HW  
 DRAIN INPRO PRISM  
 RECEPTOR INPRO PRISM

**SH-2 SHOWER (STANDARD):**

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. DOUBLE SEAL PACKING WITH ADJUSTABLE BRASS PACKING NUT. BRASS ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. LARGE BRASS HEAD WITH ARM AND FLANGE. PROVIDE NON-SKID CUSTOM SIZED SOLID SURFACE SHOWER RECEPTOR WITH FULL CURB THRESHOLD (4"x4-1/2" HIGH). REAR TRENCH WITH 12 GAUGE STAINLESS STEEL GRATE WITH STAINLESS STEEL FASTENERS AND INTEGRAL WATER BARRIER WITH FLANGE. REFER TO ARCHITECTURAL PLANS FOR SIZES. CONFIRM DRAIN TYPE AND LOCATION, AND SHOWER HEAD AND CONTROL LOCATIONS, PRIOR TO ORDERING.

SHOWER ZURN Z-7301-SS-MT  
 DRAIN INPRO PRISM  
 RECEPTOR INPRO PRISM

**SS-1 SERVICE SINK (WALL MOUNT):**

22" X 18" X 12-3/4" ENAMELED CAST IRON SERVICE SINK WITH 8" ON CENTER, BACK, STAINLESS STEEL RIM GUARD AND WALL HANGER. ROUGH CHROME PLATED FAUCET WITH TOP BRACE, BUCKET HOOK, VACUUM BREAKER, STOPS AND HOSE END, 2" TRAP WITH CLEANOUT TO WALL INSIDE WITH FOOT SUPPORT. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES.

SINK ZURN Z5888  
 FAUCET ZURN Z843 M1 RC  
 DRAIN ASSEMBLY ZURN TS 2900-IP2  
 HOSE&BRACKET/MOP HANGER -HH, -MH  
 SUPPLY ZURN Z-8800-LRLK

**MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):**

UNDER SINK MIXING VALVE, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F. DOUBLE THROTTLING, DUAL CHECK VALVES, INTEGRAL STRAINER WITH 40 MESH SCREEN, TAMPER RESISTANT LOCKING NUT. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE WATTS LFUSC-B

**IWH-1 INSTANTANEOUS WATER HEATER (2 WATER HEATERS):**

NATURAL GAS, OUTDOOR WALL MOUNTED TANKLESS WATER HEATER SYSTEM, 2 RINNAI CONDENSING TANKLESS WATER HEATERS WITH BUILT IN CONTROL PANEL. THE HEATER SHALL HAVE A UEF ENERGY FACTOR OF 0.98. PROVIDE 1-1/2" SCHEDULE 40 GAS SUPPLY PIPE WITH A 3' LONG 3/4" CSST FLEXIBLE GAS LINES TO EACH HEATER WITH ISOLATION VALVES AND 150 PSI PRESSURE RELIEF VALVES FOR EACH HEATER. THE HEATER SHALL HAVE 3/4" WATER AND GAS CONNECTION AND BE FURNISHED WITH ACCESSORY OUTDOOR VENT KIT. NATURAL GAS INLET SUPPLY PRESSURE SHALL BE 3.5 IN. W.C. TO 10.5 IN. W.C. AND HAVE A MAXIMUM COMBINED BTU/H OF 798,000. HEATER SHALL USE A STAINLESS STEEL PRIMARY HEAT EXCHANGER AND SECONDARY HEAT EXCHANGER, AND SHALL INCORPORATE AN INTEGRATED TEMPERATURE CONTROLLER. REQUIRED ACCESSORIES SHALL BE CONDENSATE NEUTRALIZER KIT, ISOLATION VALVE KIT WITH PRESSURE RELIEF VALVE, OUTDOOR VENT KIT, AND COMMERCIAL PIPE COVER WITH PIPE COVER BOTTOM PLATE. PROVIDE HOT & COLD DRAIN VALVE AND THERMAL

EXPANSION TANK. PROVIDE 8 YEAR LIMITED WARRANTY ON HEAT EXCHANGER, 5 YEAR LIMITED WARRANTY ON TANKLESS PARTS.

WATER HEATER RINNAI CX199i  
 RELIEF VALVE ZURN WILKINS P-1000A  
 CONTROLLER RINNAI  
 NEUTRALIZER RINNAI  
 OUTDOOR VENT CAP RINNAI

**CP-1 CIRCULATOR PUMP (INLINE TYPE):**

INFINITELY VARIABLE CIRCULATOR MADE OF COMPOSITE CASING, HOUSING, IMPELLER, CERAMIC SHAFT, AND CARBON BEARINGS. A 44 WATT ECM PERMANENT MAGNET MOTOR AND ELECTRICAL CHARACTERISTICS ARE 120V/1 PHASE, 60 HZ, WITH 1" CONNECTIONS, MAXIMUM OPERATING PRESSURE OF 150 PSI, UL STANDARD 778 AND NSF CERTIFIED. DIGITAL TIMER WITH CIRCULATOR PROGRAMMING, TEMPERATURE ADJUST, MAINTAINS WATER TEMPERATURE BETWEEN 95 DEGREES AND 115 DEGREES F. CIRCUIT SETTER CALIBRATED BALANCING VALVE, LEAD-FREE BRASS, WITH 1/4" NTP TAPPED DRAIN PORT, MEMORY STOP FEATURE, SET AT 4 GPM. PROVIDE CIRCUIT SOLVER SELF-ACTING RECIRCULATION VALVE SET AT 110 DEGREES.

CIRCULATOR TACO 006E3  
 TIMER TACO 265-3  
 AQUASTAT TACO 563-2  
 CIRCUIT SETTER XYLEM CB-3/4S-LF  
 RECIRCULATION VALVE (TCV) CIRCUIT SOLVER CS-1/2-110

**WH RECESSED HOSE BIB & WALL HYDRANT:**

ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING STAINLESS STEEL WALL BOX, NARROW INSTALLATION, 3/4 INCH HOSE THREAD, BRONZE BODY WITH CHROME FINISH POLYCARBONATE WHEEL HANDLE, STOP VALVES, LOOSE KEY FAUCET OPERATOR.

WALL FAUCET ZURN Z1350

**FD FLOOR DRAIN:**

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION. TYPE B POLISHED NICKEL BRONZE STRAINER, MEMBRANE CLAMP & ADJUSTABLE COLLAR WITH SLOTS.

FLOOR DRAIN ZURN Z-415B-P

**UB-1 RECESSED UTILITY BOX (CLOTHES WASHER SPACE):**

FACTORY FABRICATED 16 GAUGE STEEL WITH EPOXY FINISH WASHING MACHINE WALL BOX WITH HOT AND COLD WATER SUPPLY AND 2" DRAIN. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS. MAKE FINAL CONNECTIONS THIS CONTRACT.

WALL BOX CUY GRAY B200

**UB-2 ICE MAKER HOOK-UP (REFRIGERATOR SPACE):**

RECESSED METAL WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS, COMPLETE WITH FACTORY INSTALLED SHANK VALVE WITH 1/4" O.D. COPPER OUTLET TESTED @ 100 P.S.I. PROVIDE APPROXIMATELY 5'-0" OF 1/4" O.D. SOFT COPPER TUBING WITH COMPRESSION FITTING IN TIGHT COIL ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX CUY GRAY BIM 875

**EWC-1 ELECTRIC WATER COOLER (DUAL LEVEL WITH BOTTLE FILL):**

WALL MOUNT, DUAL PURPOSE UNIT, SELF-CONTAINED ELECTRIC WATER COOLER WITH BOTTLE FILLER, FLEXI-GUARD SAFETY BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, AND VISUAL FILTER MONITOR. FURNISH FLOOR MOUNTED CARRIER WITH BEARING PLATE, HANGAR PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES. SECURE TO FLOOR WITH 1/2" BOLTS AND ANCHORS. UNIT TO BE COMPLETE WITH HERMETIC AIR COOLED REFRIGERATION SYSTEM, COOLER PRE-COOLER, THERMOSTAT, SAFETY CONTROLS, CONDENSER FAN MOTOR, SILVER ION ANTIMICROBIAL PROTECTION ON KEY PLASTIC COMPONENTS, FLEXI-GUARD SAFETY BUBBLER, QUIET OPERATION. COOLER CAPACITY SHALL BE 8.0 GPH. LAMINAR FLOW, COOLING 80-DEGREE F WATER TO 50 DEGREE F. PROVIDE ONE-YEAR WARRANTY ON ENTIRE COOLER. PROVIDE CHROME PLATED STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE 1-1/4" CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE COLD WATER SUPPLY. 115V/60HZ, SINGLE PHASE, 5 FULL LOAD AMPS, 370 RATED WATTS, HERMETICALLY-SEALED RECIPROCATING COMPRESSOR. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. FINISH TO BE SELECTED BY ARCHITECT. CERTIFIED TO NSF/ANSI 61, & 372. UL 399 REQUIREMENTS.

EDF ELKAY LZSTL8WSSP  
 TRAP ZURN Z-8700-PC  
 SUPPLIES ZURN Z-8800LK  
 CARRIER ZURN Z1225

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Jennifer P. Jones, Registered Architect  
 Florida License No.: RA103302

Church Building Renovation & Addition  
 4400 W. 19th Street, Panama City, FL

Trinity United Methodist Church

No.	Description	Date

PLUMBING  
FIXTURE  
SPECS

---

Project number **24002**  
 Date **2/28/2025**  
 Drawn by **MMI**

P 0.4

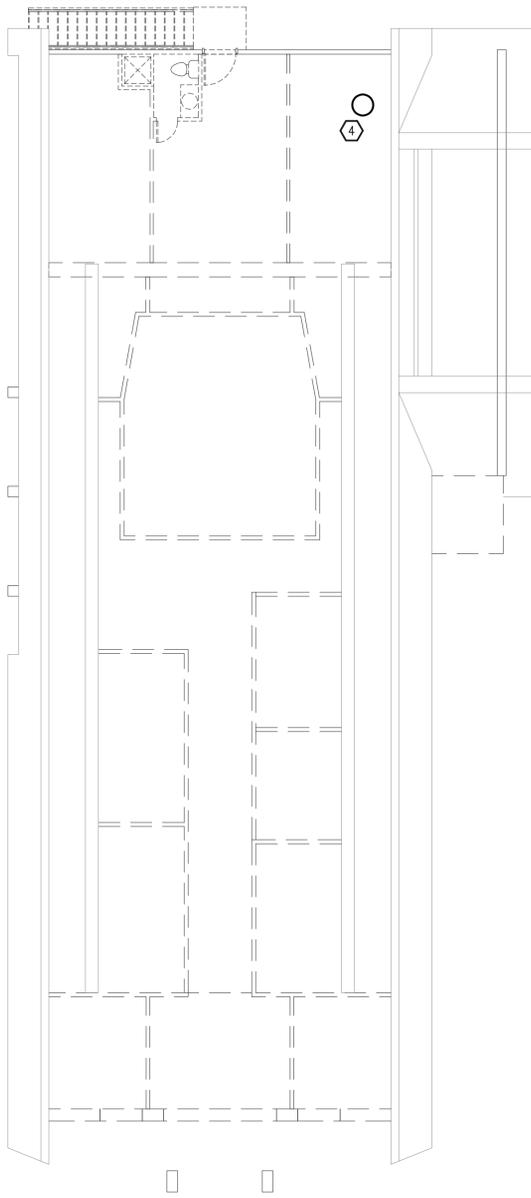
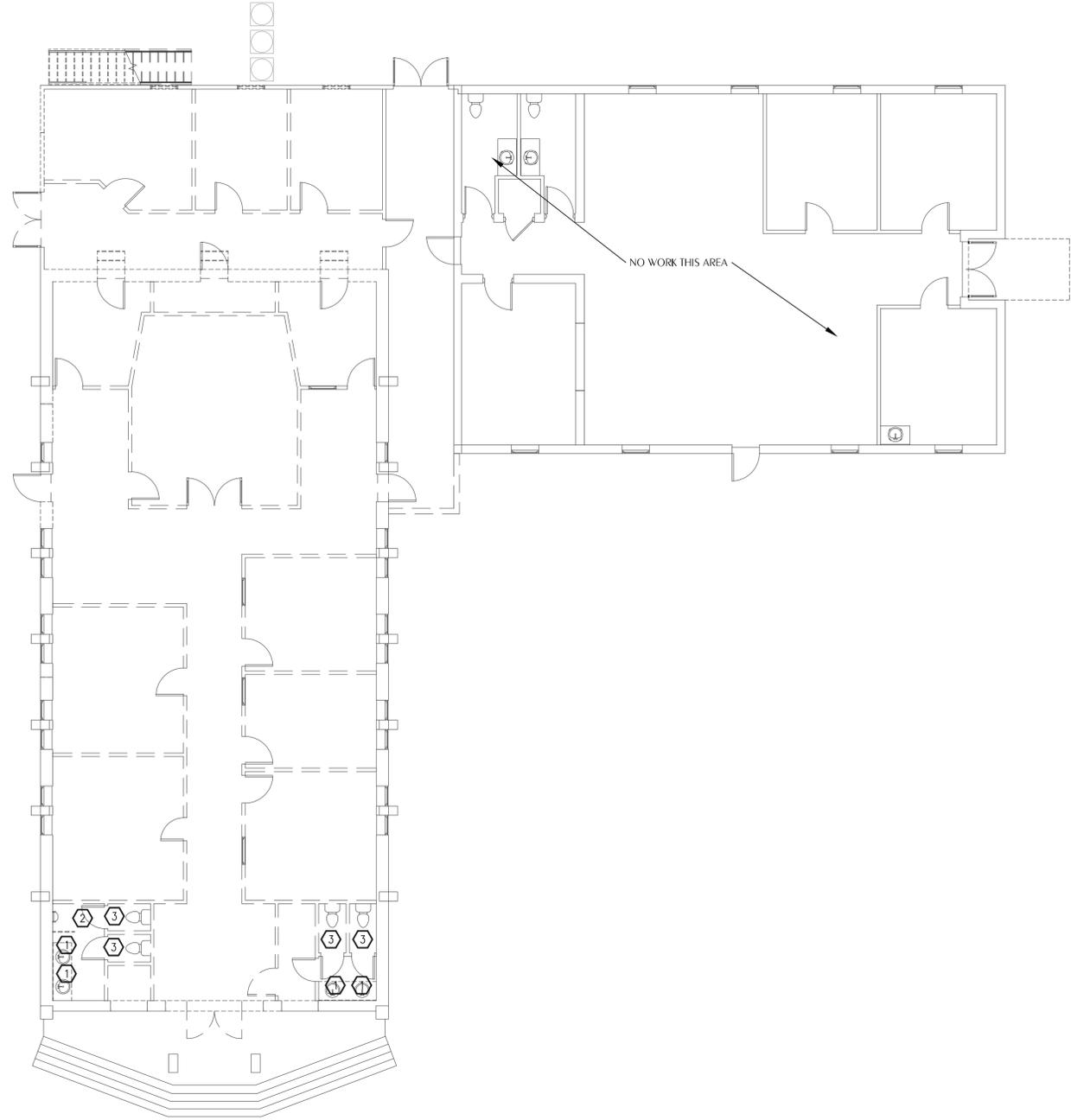
Scale **1/8" = 1'-0"**

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 Project Number: 2024-075  
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**SHEET NOTES**

- ① REMOVE EXISTING LAVATORY AND TRIM. CAP EXISTING PIPING IN WALL.
- ② REMOVE EXISTING URINAL AND TRIM. CAP EXISTING PIPING IN WALL.
- ③ REMOVE EXISTING WATER CLOSET AND TRIM. CAP EXISTING PIPING IN WALL OR BELOW SLAB.
- ④ REMOVE EXISTING WATER HEATER. CAP EXISTING WATER PIPING IN WALL. COORDINATE WITH DEMOLITION. NOTIFY ARCHITECT OF ANY CONFLICT.

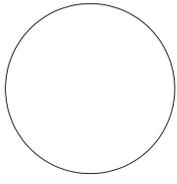


**1 PLUMBING DEMOLITION PLAN FIRST FLOOR**  
 SCALE: 1/8" = 1'-0"

**2 PLUMBING DEMOLITION PLAN SECOND FLOOR**  
 SCALE: 1/8" = 1'-0"

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**Trinity United Methodist Church**

No.	Description	Date

**PLUMBING DEMOLITION PLANS**

Project number 24002  
 Date 2/28/2025  
 Drawn by MMI

**P 1.0**

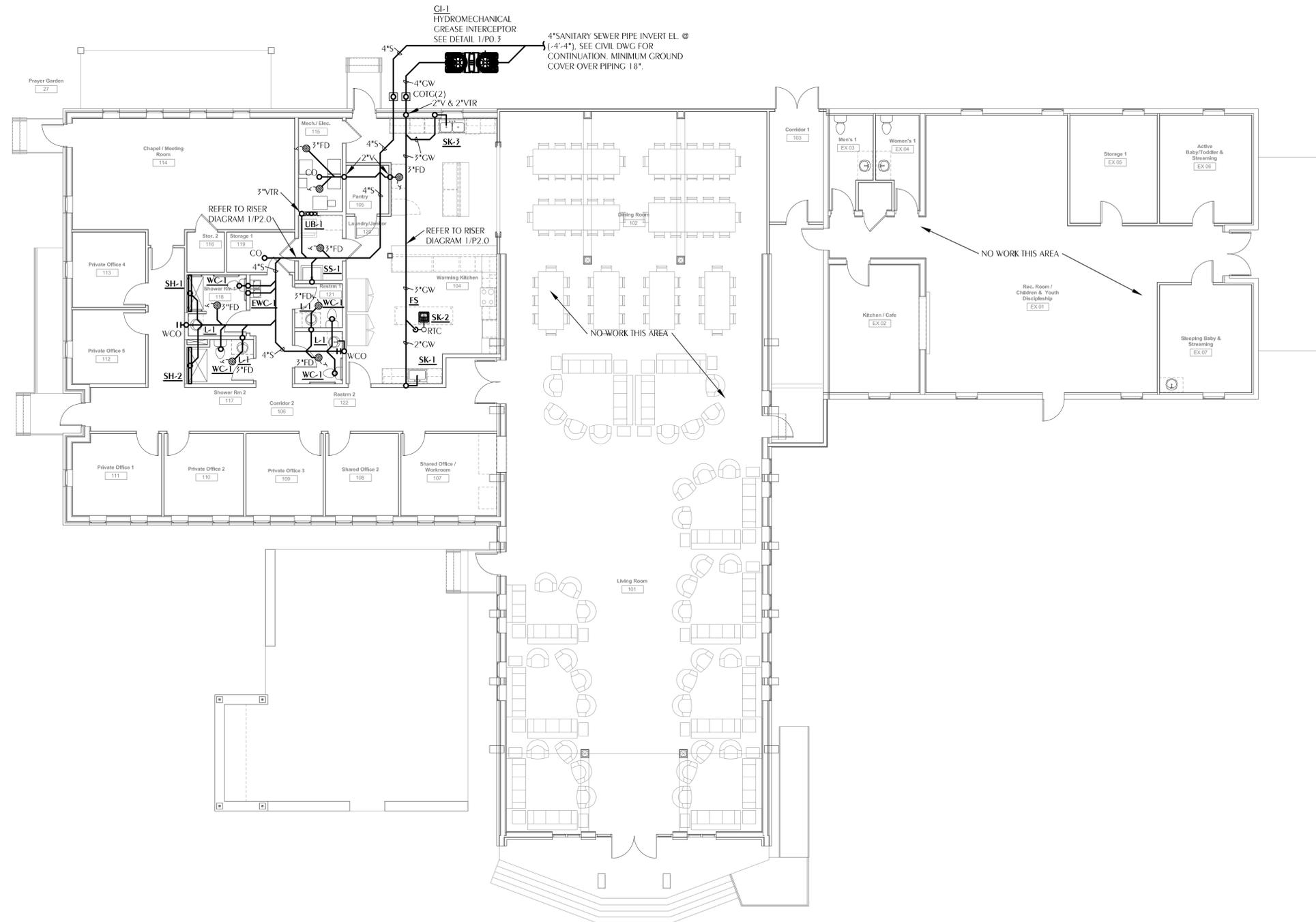
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## GENERAL NOTES

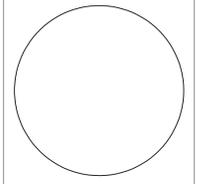
- VENT PIPING NOT INDICATED FOR CLARITY. REFER TO RISER DIAGRAM 1/P2.0 FOR VENT PIPING. ALL VENTS SHALL BE ROUTED TO A VENT THROUGH THE ROOF. MECHANICAL VENTING DEVICES ARE NOT ACCEPTABLE.



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**Trinity United Methodist Church**

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 251-210-1362

Jennifer P. Jones, Registered Architect  
 Florida License No.: RA103362



## PLUMBING SANITARY NEW WORK FLOOR PLAN

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

REFERENCE:  
 FINISHED FLOOR ELEVATION = 0'-0"

**WATFORD ENGINEERING**

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 Keith A. Johnson, PE  
 Florida License Number: 88457  
 850.528.3447  
 Project Number: 2024-075  
 Checked By: KAJ

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No.	Description	Date

**PLUMBING NEW WORK FLOOR PLAN**

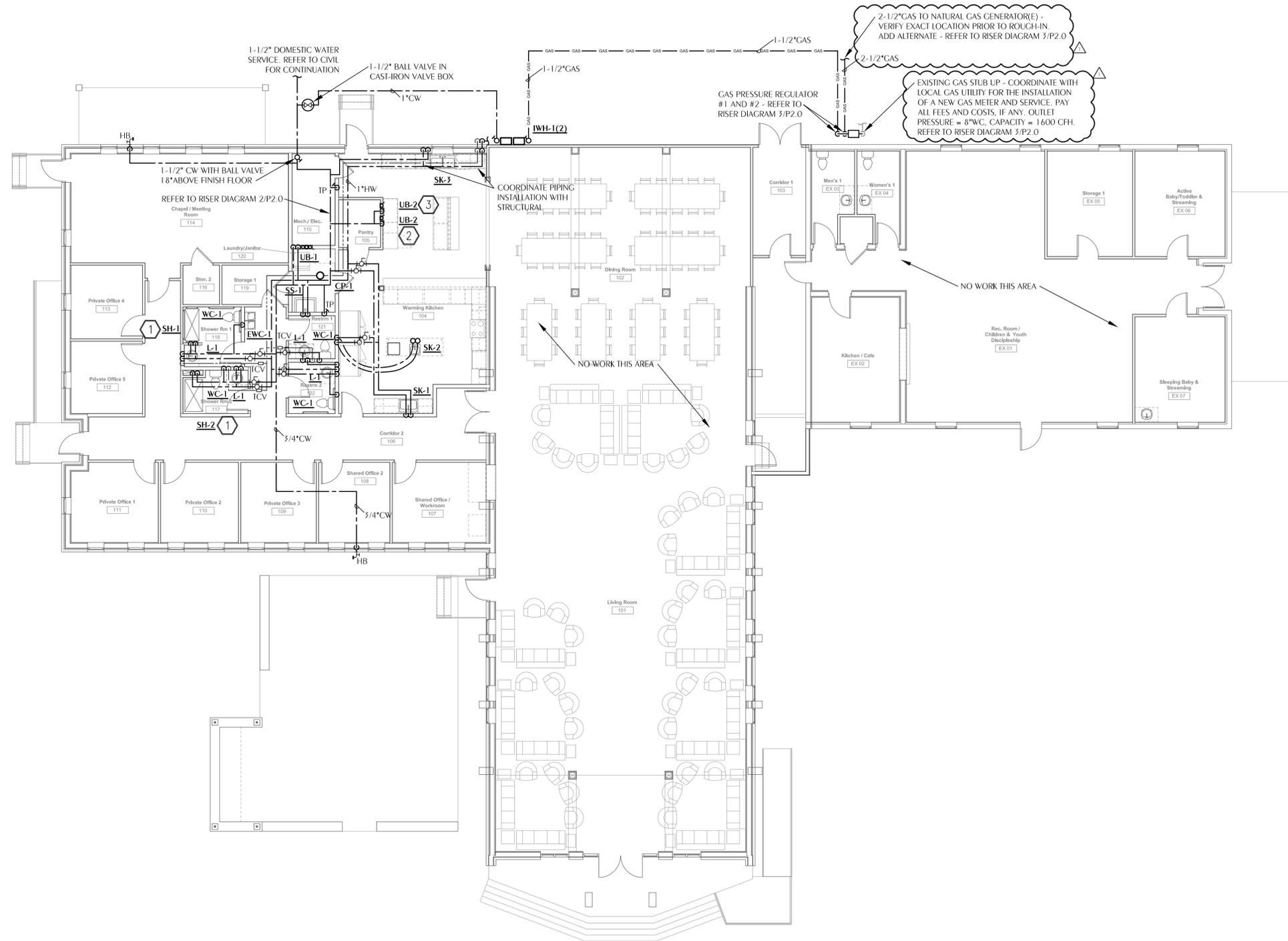
Project number: 24002  
 Date: 2/28/2025  
 Drawn by: MMI

P 1.1

Scale: 1/8" = 1'-0"

## SHEET NOTES

- 1 VERIFY CONTROL AND SHOWER HEAD LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
- 2 UB-2 FOR COFFEE MAKER. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 3 UB-2 FOR FUTURE BELOW COUNTER ICE MAKER. COORDINATE WITH ARCHITECT AND CASEWORK MANUFACTURER.



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 251-210-2386

**Jennifer P. Jones, Registered Architect**  
 Florida License No.: RA10362

No.	Description	Date
	Permit Set	3.11.25
1	ISSUED FOR BIDS	03.02.26

**PLUMBING**  
**NEW WORK**  
**FLOOR PLAN**

Project number: 24002  
 Date: 2/28/2025  
 Drawn by: MMI

P 1.2

Scale: 1/8" = 1'-0"

**PLUMBING DOMESTIC WATER NEW WORK FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

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