March 24, 2026

Re: Santa Maria Community Services
Project No. 25109
Addendum No. 5

Sht. Item

Civil

C100 Curb ramp detail changed to match new sidewalk/ramp configuration.

C101 Added Handicap Parking Sign Detail and Private Fire Hydrant detail.

City of Cincinnati Dwg. #117, replaced with #116.

C300 Grading revised to accommodate reduced width driveway and sidewalk alignment.

Grading revised after front parking area removed and rear parking area expanded.

C400 Added (2) Private fire hydrants.

PIV and FDC moved from meter pit to northeast building corner.

Minor storm revisions to accommodate parking lot modifications.

C500 Driveway reduced to 25' wide.

DOTE: Dimensions added to ex. Considine R/W and sidewalk.

Curb ramp added on Considine.

Considine sidewalk design refined.

Hammerhead turnaround added to southeast corner for fire truck turnaround per meeting with Captain Rob Hart.

Sidewalk added for new egress door on west side of building.

Architectural

G001 Reissued.

G003 Updated Code information from Permit Review response.

A001 Added new exterior exit door (set into storefront window system), frost slab and sidewalk connection.

A101 Extensive revision to the architectural plan, with repositioned rooms and doors. A new exit door has also been added to Meeting #151.

A111 Revisions to the ceilings and lighting layouts of the same spaces.

A201 Updated the West Elevation to show the new exit door, detailed into the storefront glazing system.

ATA ARCHITECTS
1063 Central Ave, Cincinnati, OH 45202
513.241.4422 www.ata-arch.com

A401 Updates to a few room and door numbers. Added baby changing station per Permit Review response.

A421 Revisions to enlarged plans and related casework per floor plan changes.

A422 Revisions to enlarged plans and related casework per floor plan changes. Added sales counter plan and elevations.

A601 Revised Room Finish Schedule per floor plan changes.

A602 Revised Door Schedule per floor plan changes.

A603 Added new Window Type F3, to show the new exit door detailed into the storefront glazing system.

## Specifications

08 7100 Door Hardware Revisions to the hardware sets and door numbers.

## Mechanical

M101 Updated Zoning and reroute/resized ductwork to match floor plan changes.

M300 Updated VAV box sizes and upsized ERV outside air and exhaust air.

M301 Updated Ventilation schedule to reflect floor plan changes.

## Electrical

E101 Relocated various receptacles to accommodate floor plan changes.

Added freezer circuits in Donation Pantry #145.

Added key note #12 for future exterior coolers.

E201 Relocated various light fixtures to accommodate floor plan changes.

Updated light fixture layout in Donation Pantry and adjacent floor plan changes.

## Plumbing

P100 Revised sanitary drop at loading dock to coordinate with wall location.

Adjusted sanitary waste to revised sink location in Break #143.

Service sink and sanitary waste line added in Loading Dock #119.

Added floor drains and adjusted one floor drain in Donation Pantry #145.

Removed sanitary waste line from sink in Donation Pantry #145.

Updated lavatory location in Child ADA Unisex #154.

P101 Revised vent piping to coordinate with the revised sink location in the Break #143.

Added vent piping for the new service sink in the Loading Dock #119.

Revised vent location for new floor drain layout in Donation Pantry #145.

Revised storm piping to coordinate with provided chase locations.

P102 Revised storm piping to coordinate with provided chase locations.

Revised vent riser location due to revised lavatory location in Child ADA Unisex #154.

P201 Revised the Mechanical/Elec. #117 piping to coordinate with updated layout.

Added domestic cold and hot water supply to new service sink in Loading Dock #119.

Revised cold and hot supply to revised sink location in Break #143.

Removed the domestic supply from deleted sink in Donation Pantry #145.

P500 Revised isometric to reflect all changes.

If you have any questions regarding the responses above, please contact me at your convenience.

Respectfully submitted,

Thomas Schroeder, NCARB

ATA Architects

ATA ARCHITECTS
1063 Central Ave, Cincinnati, OH 45202
513.241.4422 www.ata-arch.com

## SECTION 08 7100 – DOOR HARDWARE

## PART 1 GENERAL

1.01 SUMMARY:

A. Section Includes:
   1. Hardware for wood and aluminum doors.
   2. Keying.
   3. Low voltage control wiring.

B. Related Requirements:
   1. Section 01 1117 – Owner-Supplied Products: Access control systems.
   2. Section 08 1213 – Hollow Metal Frames.
   3. Section 08 1400 – Wood Doors.
   4. Section 08 4113 – Aluminum Entrances and Storefronts.
   5. Section 10 1402 – Interior Signage.
   6. Section 12 3000 – Casework: Cabinet hardware.
   7. Division 26 – Electrical: Power supply to electric hardware devices; installation of low voltage wiring.

1.02 SUBMITTALS: In accordance with Section 01 3300.

A. Shop Drawings: Indicate locations and mounting dimensions of each type of hardware, schedules, and catalog cuts.
   1. Keying: Include minutes of keying meeting, keying schedule with Owner review comments incorporated, and number of keys.
   2. Wiring Diagrams: Provide for each opening containing electrically operated hardware. Indicate electrical characteristics and connection requirements; wire and conduit type, size, and location; point-to-point wiring requirements; power supplies and accessories. Identify interfaces to the work of other trades, and requirements affecting their work.

1.03 CLOSEOUT SUBMITTALS: In accordance with Section 01 7700.

A. Project Record Documents: Record actual locations of installed cylinders and their key code.

B. Fire Door Assembly Inspection Reports: In accordance with NFPA 80.

C. Maintenance Data: Include data on operating hardware, adjustment procedures, lubrication requirements, and inspection procedures related to preventative maintenance.

D. Maintenance Products: Provide special wrenches and tools applicable to each different or special hardware component. Provide maintenance tools and accessories supplied by hardware component manufacturer.

E. Keys: Deliver to Owner by security shipment direct from hardware supplier. Tag master keys with project name and geographical location. Tag change keys with door number and location in building. Include schematic drawing of keying and explanation of lock operating features, including method of rendering construction master keys inoperative.

1.04 QUALITY ASSURANCE:

A. Perform Work in accordance with applicable requirements of ADA, AWI, BHMA, DHI, NFPA, and UL.

B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

C. Hardware Supplier Qualifications: Company specializing in supplying commercial and institutional door hardware with minimum three years documented experience; approved by manufacturers.

D. Hardware Supplier Personnel: Employ a Door and Hardware Consultant (DHC) and Access Control System Consultant (ACSC) or personnel with similar qualifications to assist in the work of this section.

1.05 REGULATORY REQUIREMENTS:

A. Hardware for Fire Rated Openings: Conform to NFPA 80, UL 10B, and applicable building code. Provide closers, exit devices and all other hardware required for fire rating classification indicated, whether or not specifically scheduled.

1.06 DELIVERY, STORAGE AND PROTECTION: In accordance with Section 01 6000.

A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.07 PROJECT CONDITIONS: In accordance with Section 01 3100.

A. Furnish hardware of proper design and function for the door and frame conditions, dimensions, profile, swing, and performance requirements indicated.

B. Coordinate the work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.

C. Sequence installation of surface applied hardware items with painting and finishing of the substrates involved.

D. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

## PART 2 PRODUCTS

2.01 COMPONENTS:

A. Butt Hinges: ANSI A156.1; 5 knuckle full mortise type; 4½ x 4½ inch.

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; Ives.
   b. Assa Abloy Architectural Door Accessories; McKinney.
   c. Bommer Industries, Inc.
   d. Hager Hinge Co.
   e. Stanley Security Solutions.
2. Interior Type: ANSI A8112; steel. (McKinney TA2714, Bommer BB5000, Hager BB1279, Ives 5BB1, Stanley FBB179)
3. Heavy Duty Interior Type: ANSI A8111; steel. (McKinney T4A3786, Bommer BB5004, Hager BB1168, Ives 5BB1 HW, Stanley FBB168)

B. Exit Devices: UL 305 panic hardware; ANSI A156.3, Grade 1; free egress from push side.

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; Von Duprin.
   b. Assa Abloy Electronic Security Hardware; Securitron.
   c. Dorma USA, Inc.
   d. Sargent Manufacturing Co.
   e. Stanley Security Solutions; Precision.
2. Lever Trim: Sargent ETL; Von Duprin 996L06; Dorma YR; Precision 4900A.
3. Rim Exit Devices:
   a. Passage Exit, Fire Rated Openings: ANSI 14 passage function with lever, UL listed. (Sargent 12-8815, Von Duprin 99L-BE-F, Dorma F9300-23, Precision FL2114)
   b. Locking Exit: ANSI 08 function with lever, interchangeable core cylinder, and interchangeable core dogging cylinder. (Sargent 16-8813, Von Duprin CD99L, Dorma 9300CD-08, Precision 2108CD)
   c. Locking Exit with Alarm: ANSI 08 function with lever; battery powered alarm in push rail, armed and disarmed by key; LED status indicators; automatic reset after 3 to 4 minutes; warning label. (Sargent AL-8813, Von Duprin SD99L-ALK-AR3, Dorma 9300CD-08-BPAR, Precision 2108ALK)
   d. Electrically Actuated Exit: Electric latch retraction and dogging, with latch monitor switch; with power supply, controller, and power transfer.
      (1) Exit Only: Interchangeable core dogging cylinder; exterior pull specified separately. (Sargent 16-55-56-8810, Von Duprin LX-SD-QEL99EO, Dorma 9300CD-MLR-LM, Precision ELR-LS2101CD)

(2) Power Supply: Voltage, amperage, and control circuits as required for application. (Sargent 3500 series, Von Duprin PS900 series, Dorma PS500 series, Precision ELR150 series, Securitron BPS series)

(3) Power Transfer: Raceway and wiring for concealed power from frame to door. (Von Duprin EPT-2, Dorma ES105, Securitron CEPT series, Precision EPT-12C, or concealed circuit hinge by hinge supplier)

4. Concealed Vertical Latch Exit Devices: Cables may be used in lieu of rods where available. Bottom latch may be omitted from interior doors unless required by UL listing.
   a. Exit Only: ANSI 01 function; exterior pull specified separately. (Sargent 8610, Von Duprin LD9947EO, Dorma LD9100-01, Precision 2801)
   b. Electrically Actuated Exit: Electric latch retraction and dogging, with latch monitor switch; with power supply, controller, and power transfer.
      (1) Exit Only: Interchangeable core dogging cylinder; exterior pull specified separately. (Sargent 16-55-56-8610, Von Duprin LX-SD-QEL9947EO, Dorma 9100CD-MLR-LM, Precision ELR-LS2801CD)
      (2) Dummy Lever Trim: Interchangeable core dogging cylinder; lever pull. (Sargent 16-55-56-8610, Von Duprin LX-SD-QEL9947L-DT, Dorma 9100CD-MLR-LM, Precision ELR-LS2802CD)
      (3) Power Supply: Voltage, amperage, and control circuits as required for application. (Sargent 3500 series, Von Duprin PS900 series, Dorma PS500 series, Precision ELR150 series, Securitron BPS series)
      (4) Power Transfer: Raceway and wiring for concealed power from frame to door. (Von Duprin EPT-2, Dorma ES105, Securitron CEPT series, Precision EPT-12C, or concealed circuit hinge by hinge supplier)
5. Coordinate exit device width with door size; housing shall extend full width of door.

C. Vertical Rod Locks: Concealed top rod, less bottom rod; free egress from pull side.
   1. Manufacturers: In accordance with Section 01 6000.
      a. Sargent Manufacturing Co.
   2. Lever Trim: Sargent ETL.
   3. Passage Type.
   4. Classroom Type: Push side locked and unlocked by key. (Sargent NB-WD701513)
   5. Storeroom Type: Push side unlocked by key; relocks when key is removed. (Sargent NB-AL701506)
   6. Electrically Unlocked Type: Push side lever electrically unlocked, fail secure; with power supply, controller, and power transfer. (Sargent NB-AL711574)
      a. Power Supply: Voltage, amperage, and control circuits as required for application. (Sargent 3500 series, Securitron BPS series)

b. Power Transfer: Raceway and wiring for concealed power from frame to door. (Securitron CEPT series, or concealed circuit hinge by hinge supplier)

D. Mortise Locks: ANSI A156.13, Series 1000, Grade 1.

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; Schlage.
   b. Assa Abloy Electronic Security Hardware; Securitron.
   c. Dorma USA, Inc.
   d. Sargent Manufacturing Co.
   e. Stanley Security Solutions; Best Access Systems.
2. Lever Trim: Sargent LNL; Schlage 06; Dorma LRA; Best 15H.
3. Passage Type: ANSI F01 function. (Sargent 8215, Schlage L9010, Dorma M9010, Best 45H-0N)
4. Office Type: ANSI F04 function. (Sargent 8205, Schlage L9050, Dorma M9050, Best 45H-7AB)
5. Classroom Type: ANSI F05 function. (Sargent 8237, Schlage L9070, Dorma M9070, Best 45H-7R)
6. Storeroom Type: ANSI F07 function. (Sargent 8204, Schlage L9080, Dorma M9080, Best 45H-7D)
7. Privacy Type: ANSI F19 function with emergency exterior release; color coded "occupied" indicator. (Sargent 49-8266, Schlage L9496, Best 45H-0L-VIN)
8. Electrically Unlocked Type: ANSI EU function; fail secure. (Sargent 8271, Schlage L9092EU, Dorma M9080EU, Best 45HW-7DEU)
   a. Power Supply: Voltage and amperage as required for application. (Sargent 3500 series, Schlage PS900 series, Dorma ES100, Precision PS160 series, Securitron BPS series)
   b. Power Transfer: Raceway and wiring for concealed power from frame to door. (Von Duprin EPT-10, Dorma ES105, Securitron CEPT series, Precision EPT-12C, or concealed circuit hinge by hinge supplier)
9. Padlocks: Interchangeable core type. (Sargent 758-HS; Schlage KS43D2300 with cylinder; Best 41B722T)

E. Closers: ANSI A156.4, Grade 1; rated for 10 million cycles.

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; LCN Closers.
   b. Dorma USA, Inc.
   c. Sargent Manufacturing Co.
   d. Stanley Security Solutions.
2. Standard Type: Pull side mounting. (Sargent 351-O, LCN 4011, Dorma 8916-AF89, Stanley D-4551)

3. Parallel Type: Push side mounting. (Sargent 351-P9, LCN 4111, Dorma 8916-AF89P, Stanley D-4550)
4. Parallel Stop Type: Push side mounting. (Sargent 351-CPS, LCN 4111-3077CNS, Dorma 8916-DS, Stanley D-4550S)
5. Increase sizes in accordance with manufacturer's requirements for door widths larger than 36 inches.

F. Overhead Stops and Holder/Stops: Extruded track, slide, arm, and frame bracket.

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; Glynn-Johnson.
   b. Dorma USA, Inc.
   c. Norton Rixson.
   d. Sargent Manufacturing Co.
2. Concealed Stop: Sargent 698S; Glynn-Johnson 104S; Rixson 1-336; Dorma 912S.
3. Concealed Stop/Holder: Sargent 698H; Glynn-Johnson 104H; Rixson 1-326; Dorma 912H.
4. Increase sizes in accordance with manufacturer's requirements for door widths larger than 36 inches.

G. Plates and Trim:

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; Ives.
   b. Assa Abloy Architectural Door Accessories; Rockwood.
   c. Baldwin Hardware Manufacturing Corp.
   d. Hiawatha, Inc.
   e. Sargent Manufacturing Co.
2. Kickplates: Stainless steel, 0.050 inch thick, 10 inch height; 2 inches less than single door width; 1 inch less than leaf width for pairs without mullions. (Rockwood K1050, Ives 8400)
3. Push Bars for Aluminum Doors: 1 inch diameter, 2½ inch projection; door width less one stile width. (Rockwood 47, Ives 9100HD)
4. Pulls for Aluminum Doors: 1 inch diameter, 3½ inch projection, with 90 degree offset; minimum 9 inch mounting spacing. (Rockwood BF157A, Sargent 862, Ives 8190EZHD-0)
5. Wall Stops: Metal body with resilient bumper; 2½ inch diameter plate with concealed mounting; concave bumper; ¾ inch projection. (Rockwood 409, Ives WS406CCV)
6. Kick Down Holder: Cast iron with non-marring rubber shoes (Ives FS544)

H. Contact Switches: Low voltage SPDT switch.

1. Manufacturers: In accordance with Section 01 6000.
   a. Allegion PLC; Schlage.
   b. Assa Abloy Electronic Security Hardware; Securitron.
   c. Folger Adam Security, Inc.
   d. George Risk Industries, Inc.
   e. Sargent Manufacturing Co.
2. Swing Doors: Concealed mounting. (Sargent 3287, Schlage 679-05 series, Securitron DPS series)
3. Overhead Doors and Roof Hatches: Surface mounting. (Sargent 3285, Schlage 7766)
4. Conduit: In accordance with Division 26.

I. Control Wiring: Furnish low voltage wiring for electrically operated components; in accordance with manufacturer's recommendations.

2.02 KEYING:

A. Door Locks: Grand master keyed.

B. Include control keying with interchangeable core cylinders.
   1. Provide temporary construction cores, keyed alike, for all doors which must be locked during construction. Provide temporary plastic covers for locks not equipped with construction cores.

C. Keying Meeting: Convene after award of contract and before preparation of hardware submittals. Require attendance of Owner, Architect, Contractor, and Hardware Supplier. Review preliminary keying schedule and number of each key to be supplied; revise as necessary to meet Owner's requirements.

D. Keying System: Patented key control with side or bottom pins in addition to conventional pin tumbler keyway. (Sargent Signature Series, Schlage Primus XP, Best Cormax)
   1. Access Control Openings: Provide security cylinders with side or bottom pins.
   2. Openings Without Access Control: Provide conventional pin tumbler cylinders without side or bottom pins.

E. Supply keys in the following quantities:
   1. 4 grand master keys.
   2. Construction master keys as required by Contractor, plus 4 keys for Owner and Architect.
   3. 4 keys for each master key and change key, except as otherwise noted.
      a. Provide minimum 2 keys per keyed cylinder.
   4. 5 control keys and 10 extra cylinder cores.
   5. 100 spare key blanks.

F. Key dogging cylinders cylinders alike to other cylinders at each door, unless noted otherwise.

2.03 ACCESSORIES:

A. Security Key Box: Recessed mount with hinged door.
   1. Manufacturer: Knox Company; Knox-Box 3200 Series. Obtain order form from local fire department.
   2. Backbox: Steel mounting box for recessed installation in masonry.
   3. Case: ¼ inch thick steel; all welded construction; with mounting flange.
   4. Door: ½ inch thick steel with interior gasket seal.
   5. Lock: UL listed; double-action rotating tumblers and hardened steel pins accessed by biased cut key, keyed to fire department master key; stainless steel dust cover with mounting provisions for tamper seal.
   6. Finish: Zinc-phosphate pre-treatment; weather resistant interior and exterior polyester powder coat, aluminum color to match storefront.

B. Key Cabinet:
   1. Cabinet Construction: Sheet steel or aluminum; piano hinged door with lock masterkeyed to building system.
   2. Cabinet Size: Size for project keys plus 10 percent growth.
   3. Horizontal metal strips for key hook labeling with clear plastic strip cover over labels.
   4. Finish: Baked enamel or brushed aluminum.

2.04 FINISHES:

A. Geared Hinges: Finish to match storefront framing.

B. Butt Hinges, Exit Devices, Mortise Locks, Cylinders, and Pulls:
   1. Wood Doors: US 26D; BHMA 626.
   2. Aluminum Doors: Finish to match storefront framing.

C. Closers: Painted enamel finish.
   1. Wood Doors: Aluminum powder coat; BHMA 689.
   2. Aluminum Doors: Finish to match storefront framing.

D. Plates and Stops: US 32D; BHMA 630.

E. Thresholds: Clear anodized aluminum.

F. Weatherstrips and Sweeps:
   1. Wood Doors: Clear anodized aluminum.
   2. Aluminum Doors: Finish to match storefront framing.

**PART 3 EXECUTION**

3.01 EXAMINATION:

A. Verify existing conditions before starting work.

B. Verify that doors and frames are prepared to receive scheduled hardware and dimensions are as indicated on shop drawings and as instructed by manufacturer.

C. Verify that electric power is available to power operated devices and is of the correct characteristics.

3.02 INSTALLATION:

A. Install hardware in accordance with manufacturer's instructions.

B. Use templates provided by hardware item manufacturer.

C. Hardware Mounting Heights: In accordance with DHI.

D. Closers: Coordinate configuration of closers and arms to allow interior doors to swing 180 degrees or to nearest adjacent wall.

E. Kickplates: Mount on push side of door, flush with bottom of door, unless specifically indicated. Center between frame stops, or between frame stop and edge of door at pairs of doors without mullions.

F. Stops: Coordinate location and installation with levers, pulls, and other hardware for proper clearance and function. Provide shims, blocking, or other components as necessary; coordinate finishes with Architect where exposed.
   1. Provide wall stop, overhead stop, or closer with stop for all doors. At locations where type of stop scheduled does not suit field conditions, contact Architect for resolution. Upon request by Architect, change type of stop for up to 5 percent of openings without additional charge.

G. Contact Switches: Coordinate location and installation with security system installer. Maintain gap distance between switch and magnet as recommended by manufacturer for proper operation.

H. Security Key Box: Coordinate location and installation with local fire department and security system installer, approximately 6 feet above grade.

I. Low Voltage Control Wiring: Install in accordance with manufacturer's recommendations.

J. Coordinate with Section 28 1000 for access control system interconnection of electrified hardware. Wiring, final connections, programming, and accessories shall be by access control system installer.
   1. All doors shall have free egress at all times.

3.03 ADJUSTING:

A. Adjust hardware for smooth operation.

B. Adjust hardware to provide operating and door opening forces in accordance with ADA and NFPA, maximum 5 lbf for non-rated interior doors.

C. Adjust closers for proper closing speed and latching speed after HVAC balancing is complete.

3.04 PROTECTION OF FINISHED WORK:

A. Do not permit adjacent work to damage hardware or finish.

3.05 SCHEDULE:

A. Set No. 1: Door 100A.
   1. Exit Device (RHR Leaf): Electrically actuated concealed vertical latch type; exit only.
   2. Exit Device (LHR Leaf): Exit only concealed vertical latch type.
   3. Pulls (2).
   4. Contact switches (2).
   5. Security key box; locate as directed by fire department.
   6. Balance of hardware by aluminum door supplier, including threshold, sweeps, and closers with stops.
   7. Sequence of Operation: Proximity reader shall shunt door contact and retract exit device latch.

B. Set No. 2: Door S21B.
   1. Exit Device: Electrically actuated rim type; exit only.
   2. Pull.
   3. Contact switch.
   4. Balance of hardware by aluminum door supplier, including threshold, sweep, and closer with stop.
   5. Sequence of Operation: Proximity reader shall shunt door contact and retract exit device latch.

C. Set No. 3: Door 145A.
   1. Vertical Rod Lock (RH leaf): Inactive leaf.
   2. Vertical Rod Lock (LH leaf): Passage type.
   3. Kick Down Holder
   4. Closer: Parallel type
   5. Wall Stop
   6. Kick Plates: 30” x 2” LDW
   7. Sequence of Operation: Proximity reader shall shunt door contact and unlock lever.

D. Set No. 4: Doors 208A, 208B.
   1. Exit Device: Electrically actuated rim type; exit only.
   2. Pull
   3. Contact switch
   4. Wall stop.
   5. Balance of hardware by aluminum door supplier, including closer.
   6. Sequence of Operation: Proximity reader shall shunt door contact and retract exit device latch.

E. Set No. 5: Door 100B.
   1. Push bars (2).
   2. Pulls (2).
   3. Balance of hardware by aluminum door supplier, including closers with stops.

F. Set No. 6: Door 152.
   1. Butts (6): Heavy duty interior type.
   2. Exit Device (RHR Leaf): Electrically actuated concealed vertical latch type; dummy lever.
   3. Exit Device (LHR Leaf): Concealed vertical latch type; exit only.
   4. Closers (2): Parallel type.
   5. Wall stops (2).
   6. Kickplates (2).
   7. Contact switches (2).
   8. Sequence of Operation: Switch at reception desk shall unlock lever.

G. Set No. 7: Doors S21A, S22.
   1. Butts (3): Heavy duty interior type.
   2. Fire Exit Device: Passage type.
   3. Closer: Standard type.
   4. Wall stop.
   5. Kickplate.

H. Set No. 8: Not Used

I. Set No. 9: Doors 150, 151A, 151B.
   1. Butts (3): Heavy duty interior type.
   2. Exit Device: Locking type.
   3. Closer: Parallel type.
   4. Wall stop.

J. Set No. 10: Door 144.
   1. Butts (3): Heavy duty interior type.
   2. Exit Device: Locking type.
   3. Closer: Parallel type.
   4. Wall stop.
   5. Kickplate.

K. Set No. 11: Doors 111, 112, 113, 114, 115, 116, 220.
   1. Butts (3): Heavy duty interior type.
   2. Electrically unlocked mortise lock.
   3. Closer: Standard type.
   4. Wall stop.
   5. Contact switch.
   6. Sequence of Operation:
      a. Door 111:
         (1) Switch at reception desk shall unlock lever.

(2) Proximity reader shall unlock lever.

b. Doors 112, 113, 114, 115, 116, 220: Proximity reader shall unlock lever.

L. Set No. 12: Door 213.
1. Butts (3): Heavy duty interior type.
2. Electrically unlocked mortise lock.
3. Closer: Standard type.
4. Overhead stop.
5. Contact switch.
6. Sequence of Operation: Proximity reader shall unlock lever.

M. Set No. 13: Door 248.
1. Butts (3): Heavy duty interior type.
2. Electrically unlocked mortise lock.
3. Closer: Parallel stop type.
4. Contact switch.
5. Sequence of Operation: Proximity reader shall unlock lever.

N. Set No. 14: Door 149B.
1. Exit Device: Electronically actuated rim type; exit only.
2. Pull
3. Contact Switch
4. Automatic Door Hardware, with push pad, coordinated w/ exit device operation.
5. Balance of hardware by aluminum door supplier, including threshold, sweep and closer with stop.
6. Sequence of Operation: Proximity reader and/or automatic door hardware shall shunt door contact and retract exit device latch.

O. Set No. 15: Door 145B.
1. Butts (6): Heavy duty interior type.
2. Vertical Rod Locks (2): Classroom type.
3. Closers (2): Standard type.
4. Overhead stop/holders (2).
5. Kickplates (2).

P. Set No. 16: Doors 156 and 149A
1. Butts (3): Heavy duty interior type.
2. Mortise classroom lock.
3. Closer: Standard type.
4. Wall stop (156).

Q. Set No. 17: Doors 221, 222, 223, 258, 259.
1. Butts (3): Interior type.
2. Mortise classroom lock.
3. Wall stop.

R. Set No. 18: Doors 142 and 144.
1. Butts (3): Heavy duty interior type.

2. Mortise passage latch.
3. Closer: Standard type.
4. Wall stop.

S. Set No. 19: Doors 143, 261.
1. Butts (3): Heavy duty interior type.
2. Mortise passage latch.
3. Closer: Standard type.
4. Wall stop.

T. Set No. 20: Door 120.
1. Butts (3): Heavy duty interior type.
2. Mortise passage latch.
3. Closer: Standard type.
4. Overhead stop.

U. Set No. 21: Doors 102, 155.
1. Butts (3): Interior type.
2. Mortise passage latch.
3. Wall stop.

V. Set No. 22: Doors 127, 138, 146A, 146B, 224.
1. Butts (3): Heavy duty interior type.
2. Mortise storeroom lock.
3. Closer: Standard type.
4. Wall stop.
5. Kickplate @ 146A and 146B; 24” x 2” LDW.

W. Set No. 23: Door 153.
1. Butts (6): Heavy duty interior type.
2. Vertical Rod Locks (2): Storeroom type.
3. Closer: Standard type.
4. Wall stop.
5. Kick down holder
6. Kickplate.

X. Set No. 24: Doors 117 and 260.
1. Butts (3): Heavy duty interior type.
2. Mortise storeroom lock.
3. Closer: Parallel type.
4. Wall stop.

Y. Set No. 25: Doors 124 and 236.
1. Butts (3): Interior type.
2. Mortise storeroom lock.
3. Wall stop.

Z. Set No. 26: Door 136.
   1. Butts (3): Heavy duty interior type.
   2. Mortise office lock.
   3. Closer: Standard type.
   4. Wall stop.

AA. Set No. 27: Doors 104, 105, 106, 107, 108, 109, 110, 119A, 128, 129, 134, 140, 141, 203, 204, 205, 206, 207, 210, 211, 216, 217, 218, 219, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 240, 245, 246, 254, 255, 256.
   1. Butts (3): Interior type.
   2. Mortise office lock.
   3. Wall stop.

BB. Set No. 28: Doors 123, 124, 125, 130, 131, 132, 133, 137, 147, 148, 154, 237, 238, 239, 241, 242, 243.
   1. Butts (3): Heavy duty interior type.
   2. Mortise privacy lock.
   3. Closer: Standard type.
   4. Wall stop.

CC. Set No. 29: Doors 139, 247.
   1. Butts (3): Interior type.
   2. Mortise privacy lock.
   3. Wall stop.

DD. Exterior Overhead Doors:
   1. Contact switch.

EE. Roof Hatches:
   1. Contact switch.

END OF SECTION

# SANTA MARIA COMMUNITY SERVICES SITE DEVELOPMENT PLAN

## CITY OF CINCINNATI
## HAMILTON COUNTY, OHIO

### GENERAL CONSTRUCTION NOTES

**OVERALL:**
APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION, THE EXACT LOCATION OF UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH "CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION" & CITY OF CINCINNATI.

UNLESS OTHERWISE NOTED ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION" & CITY OF CINCINNATI.

THE ENGINEER/SURVEYOR DOES NOT ASSUME ANY LIABILITY FOR THE LOCATION OF UTILITIES, INCLUDING INDIVIDUAL SERVICE LINES & PRIVATE MAINS NOT SHOWN ON PUBLIC RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXACTLY LOCATING AND PROTECTING ALL UTILITIES, BOTH ABOVE AND BELOW GROUND, THAT EXIST IN THE WORK AREA AND WHICH MAY COME IN CONFLICT WITH HIS OPERATIONS. ANY DAMAGE TO UTILITIES WHICH HAVE BEEN ACCURATELY LOCATED, WHICH IS CAUSED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ASSISTANCE IN LOCATING UNDERGROUND UTILITIES CAN BE OBTAINED BY CONTACTING THE UTILITY COMPANIES AT THE LOCATIONS LISTED ON THIS PAGE. IF A DISCREPANCY IS FOUND TO EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

EACH INSTALLING CONTRACTOR IS RESPONSIBLE FOR THEIR OWN COORDINATION OF INSTALLATION OF THEIR SYSTEMS UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER, OR APPROPRIATE PARTY. ABERCROMBIE & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR CONTRACTOR MEANS & METHODS OF CONSTRUCTION ON DRAWINGS.

THE CONTRACTOR SHALL OBTAIN OR VERIFY THAT ALL PERMITS ARE OBTAINED.

THE CONTRACTOR SHALL VERIFY EXISTING SITE INFORMATION AND REQUIRED EARTHWORK.

A GEOTECHNICAL INSPECTION IS RECOMMENDED AND ALL RECOMMENDATIONS IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED.

ALL PROPOSED SPOT ELEVATIONS ARE TO FINISHED GRADE.

**UTILITY SPECIFICATION:**
ALL STORM SEWER TO BE PRIVATE, MAINTAINED BY THE OWNER AND BE CORRUGATED POLYETHYLENE SMOOTH LINED PIPE, CONFORMING TO ODOT ITEM 707.33 OR PVC CORRUGATED SMOOTH INTERIOR PIPE, CONFORMING TO ODOT ITEM 707.42 AND INSTALLED PER ODOT ITEM 603.

STEPS SHALL BE REQUIRED IN ALL CATCH BASINS WHERE THE DEPTH EXCEEDS FOUR (4) FEET AND SHALL MEET THE REQUIREMENTS OF THE STATE OF OHIO STANDARD CONSTRUCTION DRAWING MH-1.

UTILITY TRENCH BACKFILL SHALL BE PER THE DETAILS SHOWN ON THE PLANS.

**EROSION CONTROL:**
ALL EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY STRIPPING OF VEGETATION OR EXCAVATION.

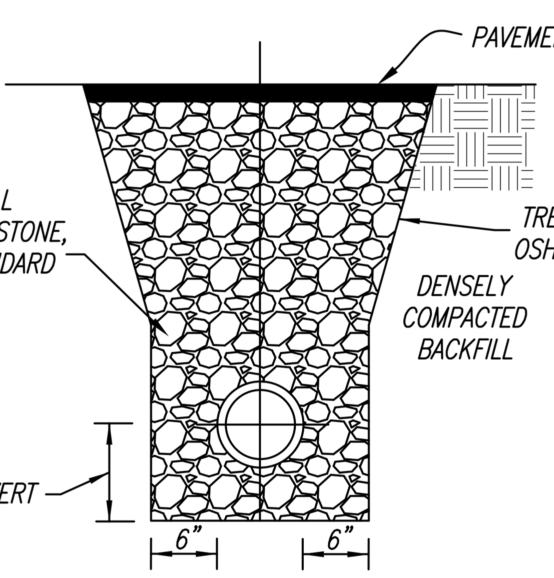
EROSION CONTROL WILL BE ACCOMPLISHED BY STRATEGICALLY PLACING ROCK CHECK DAMS, MULCH, BERMS AND/OR SILT FENCES IN SWALES AND RUNOFF AREAS, SUCH ITEMS TO BE REPLACED AND EXPANDED AS NECESSARY TO AFFORD NECESSARY CONTROL.

SILT FENCES USED FOR EROSION AND SEDIMENT CONTROL ARE TO BE ENTRENCHED AT LEAST 6" INCHES BELOW GRADE, AND FOLDED ACCORDING TO THE DETAIL AS SHOWN.

ALL EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT PRODUCING GREATER THAN 1/2 INCH OF RAIN IN A 24 HOUR PERIOD. ALL EROSION CONTROLS MUST BE MAINTAINED DURING CONSTRUCTION BY REMOVING COMPACTED SILT AND SEDIMENT, AND REDISTRIBUTING IT AS IS APPROPRIATE. SEEDING AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH OHIO RAINWATER AND LAND DEVELOPMENT MANUAL TO ALL DISTURBED AREAS WITHIN 7 DAYS IF THE AREA IS AT FINAL GRADE OR IS TO REMAIN DORMANT FOR MORE THAN 14 DAYS.

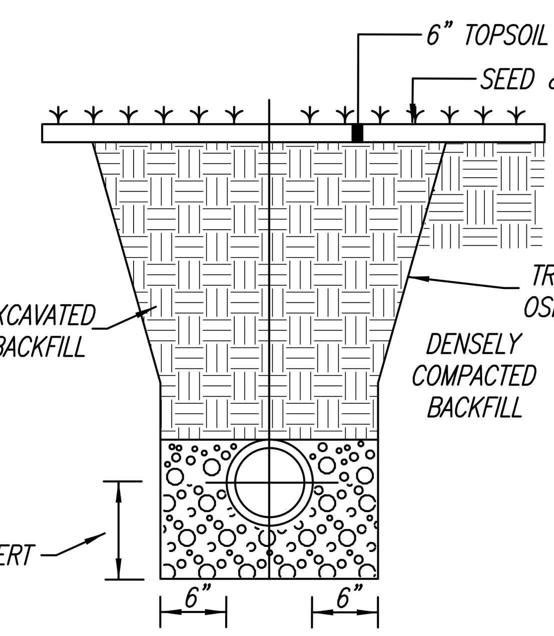
ALL CATCH BASINS SHALL HAVE SEDIMENT INLET PROTECTION METHODS INSTALLED DURING CONSTRUCTION, USING THE DETAILS SHOWN ON THE PLAN.

### STANDARD UTILITY TRENCH FOR PIPES UNDER PAVEMENT

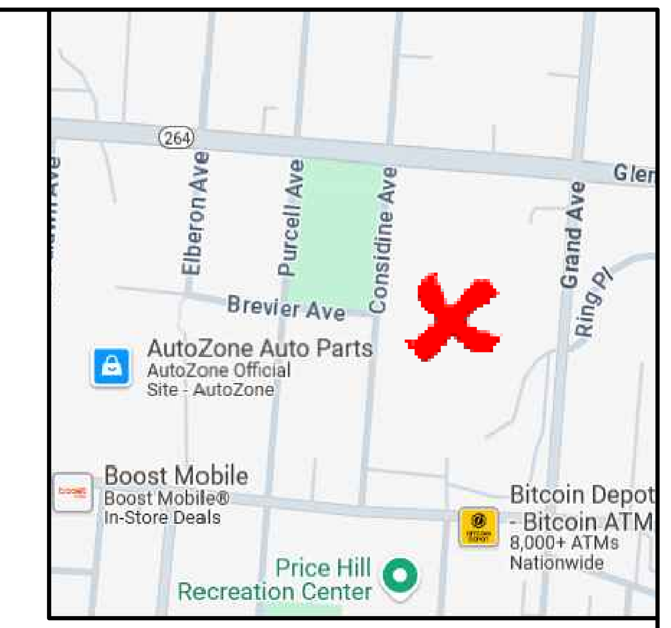



REFER TO O.D.O.T ITEM 603.04 FOR ADDITIONAL BEDDING INFORMATION
REFER TO O.D.O.T ITEM 603.08 FOR ADDITIONAL BACKFILLING INFORMATION

### STANDARD UTILITY TRENCH FOR PIPES NOT UNDER PAVEMENT

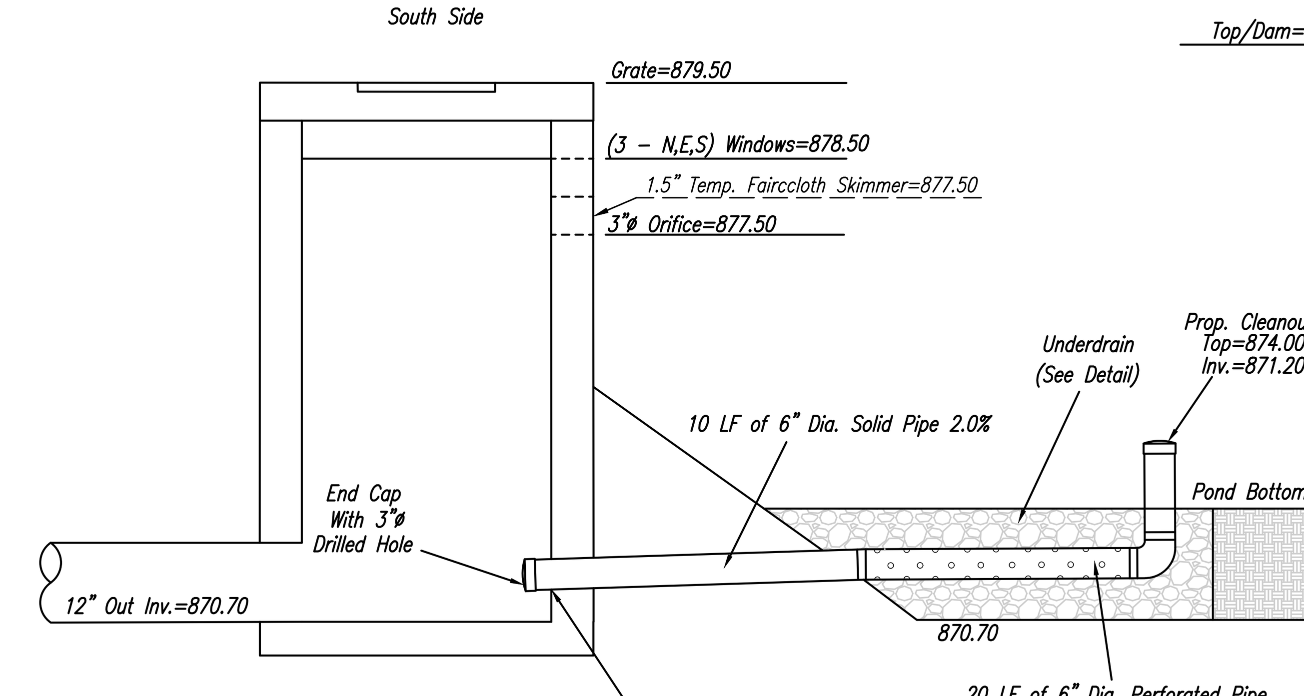


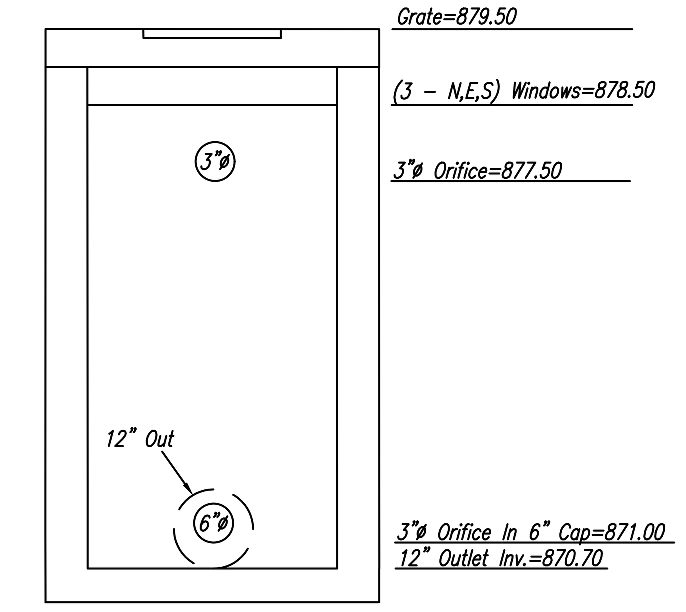

REFER TO O.D.O.T ITEM 603.04 FOR ADDITIONAL BEDDING INFORMATION
REFER TO O.D.O.T ITEM 603.08 FOR ADDITIONAL BACKFILLING INFORMATION




VICINITY MAP

### OUTLET STRUCTURE #300 DETAIL MODIFIED ODOT CB 2-3

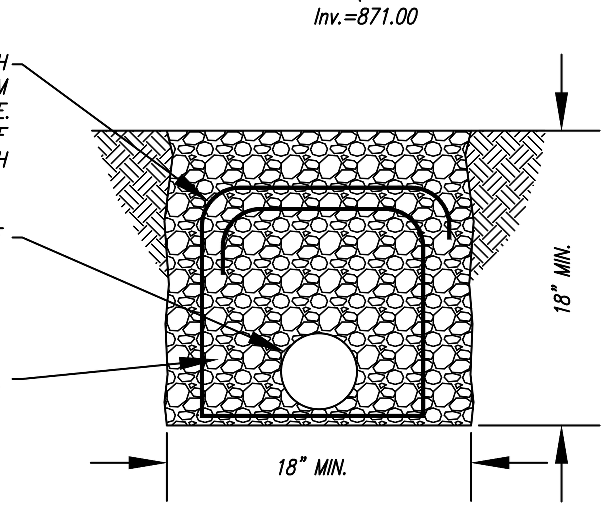


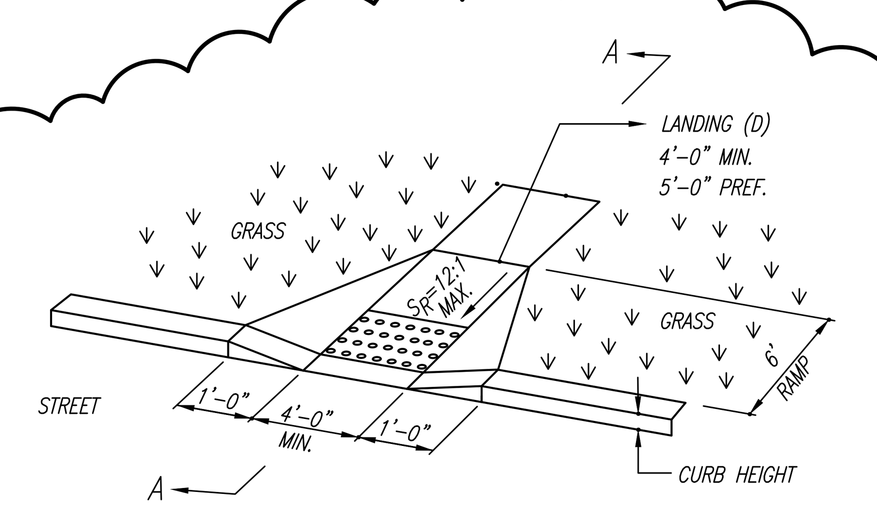

NOTE:
Upper 3" Orifice To Be Used To Install Temp. Skimmer. After Site Is Stabilized The Skimmer Should Be Removed, Upper 3" Orifice Restored, Basin Mucked Out, And Underdrain Installed Per Plan.

STORM WATER DETENTION FACILITY TABLE

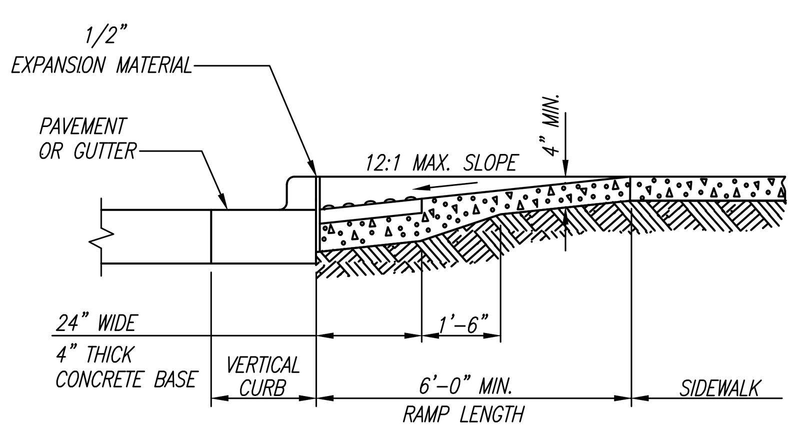
| DESIGNATION | HIGHWATER ELEVATION (FT. ABOVE M.S.L.) | PRE-DEV Q1 (CFS) | POST-DEV Q2 (CFS) | REQUIRED STORAGE VOLUME (C.F.) |
|---|---|---|---|---|
| DRY POND | 878.00 | 0.78 | 0.76 | 17,628 |




### UNDERDRAIN DETAIL
NTS




### PERPENDICULAR CURB RAMP DETAIL
(Perpendicular With 1' Flared Sides)

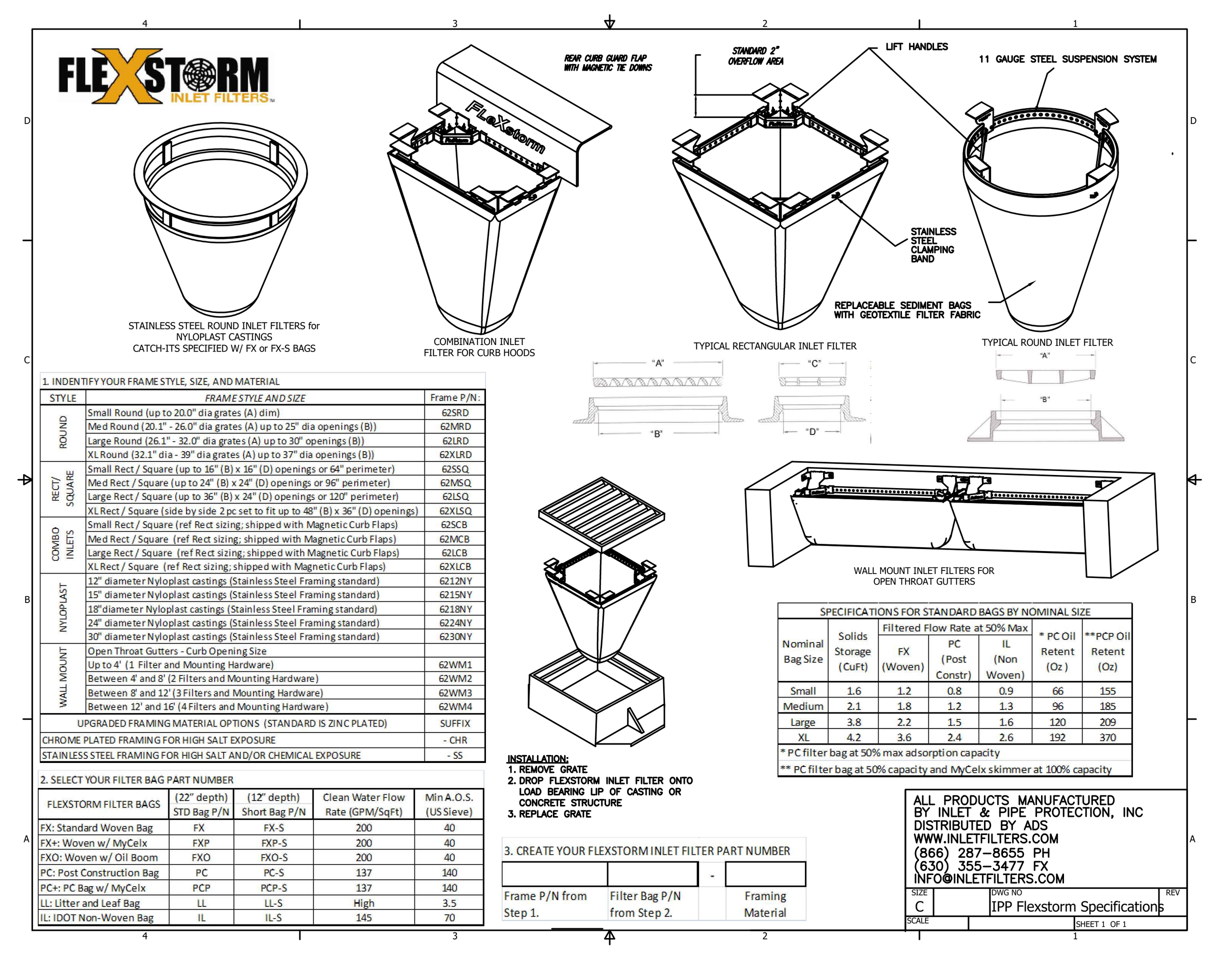



### SECTION A-A NORMAL DETAIL

### LEGEND
The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.

Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.

Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.




1. INDENTIFY YOUR FRAME STYLE, SIZE, AND MATERIAL

| STYLE | FRAME STYLE AND SIZE | Frame P/N: |
|---|---|---|
| ROUND | Small Round (up to 20.0" dia grates (A) dim) | 62SRD |
| | Med Round (20.1" - 26.0" dia grates (A) up to 25" dia openings (B)) | 62MRD |
| | Large Round (26.1" - 32.0" dia grates (A) up to 30" openings (B)) | 62LRD |
| | XL Round (32.1" dia - 39" dia grates (A) up to 37" dia openings (B)) | 62XLRD |
| RECT/SQUARE | Small Rect / Square (up to 16" (B) x 16" (D) openings or 64" perimeter) | 62SSQ |
| | Med Rect / Square (up to 24" (B) x 24" (D) openings or 96" perimeter) | 62MSQ |
| | Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter) | 62LSQ |
| | XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 36" (D) openings) | 62XLSQ |
| COMBO INLETS | Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps) | 62SCB |
| | Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps) | 62MCB |
| | Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps) | 62LCB |
| | XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps) | 62XLCB |
| NYLOPLAST | 12" diameter Nyloplast castings (Stainless Steel Framing standard) | 6212NY |
| | 15" diameter Nyloplast castings (Stainless Steel Framing standard) | 6215NY |
| | 18" diameter Nyloplast castings (Stainless Steel Framing standard) | 6218NY |
| | 24" diameter Nyloplast castings (Stainless Steel Framing standard) | 6224NY |
| | 30" diameter Nyloplast castings (Stainless Steel Framing standard) | 6230NY |
| WALL MOUNT | Open Throat Gutters - Curb Opening Size | |
| | Up to 4' (1 Filter and Mounting Hardware) | 62WM1 |
| | Between 4' and 8' (2 Filters and Mounting Hardware) | 62WM2 |
| | Between 8' and 12' (3 Filters and Mounting Hardware) | 62WM3 |
| | Between 12' and 16' (4 Filters and Mounting Hardware) | 62WM4 |
| | UPGRADED FRAMING MATERIAL OPTIONS (STANDARD IS ZINC PLATED) | SUFFIX |
| | CHROME PLATED FRAMING FOR HIGH SALT EXPOSURE | - CHR |
| | STAINLESS STEEL FRAMING FOR HIGH SALT AND/OR CHEMICAL EXPOSURE | - SS |

2. SELECT YOUR FILTER BAG PART NUMBER

| FLEXSTORM FILTER BAGS | (22" depth) STD Bag P/N | (12" depth) Short Bag P/N | Clean Water Flow Rate (GPM/SqFt) | Min A.O.S. (US Sieve) |
|---|---|---|---|---|
| FX: Standard Woven Bag | FX | FX-S | 200 | 40 |
| FX+: Woven w/ MyCelx | FXP | FXP-S | 200 | 40 |
| FXO: Woven w/ Oil Boom | FXO | FXO-S | 200 | 40 |
| PC: Post Construction Bag | PC | PC-S | 137 | 140 |
| PC+: PC Bag w/ MyCelx | PCP | PCP-S | 137 | 140 |
| LL: Litter and Leaf Bag | LL | LL-S | High | 3.5 |
| IL: IDOT Non-Woven Bag | IL | IL-S | 145 | 70 |

INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER

| Frame P/N from Step 1. | Filter Bag P/N from Step 2. | - | Framing Material |
|---|---|---|---|

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE

| Nominal Bag Size | Solids Storage (CuFt) | Filtered Flow Rate at 50% Max: FX (Woven) | PC (Post Constr) | IL (Non Woven) | * PC Oil Retent (Oz) | **PCP Oil Retent (Oz) |
|---|---|---|---|---|---|---|
| Small | 1.6 | 1.2 | 0.8 | 0.9 | 66 | 155 |
| Medium | 2.1 | 1.8 | 1.2 | 1.3 | 96 | 185 |
| Large | 3.8 | 2.2 | 1.5 | 1.6 | 120 | 209 |
| XL | 4.2 | 3.6 | 2.4 | 2.6 | 192 | 370 |

* PC filter bag at 50% max adsorption capacity
** PC filter bag at 50% capacity and MyCelx skimmer at 100% capacity

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC
DISTRIBUTED BY ADS
WWW.INLETFILTERS.COM
(866) 287-8655 PH
(630) 355-3477 FX
INFO@INLETFILTERS.COM

SIZE C | DWG NO IPP Flexstorm Specifications | REV | SCALE | SHEET 1 OF 1

**PERMIT NOTE:**
THIS PROJECT WAS PREVIOUSLY REVIEWED BY OTTO BAUER-NILSEN, APPLICATION NUMBER 2024 P10403. THIS SUBMISSION REPRESENTS A NEW PERMIT APPLICATION FOR THE PROJECT COVERING THE SAME SCOPE OF WORK. THE PREVIOUS SUBMISSION WILL BE WITHDRAWN.

| PHASE | SCOPE OF WORK | SUBMISSION DATE |
|---|---|---|
| MASS GRADING/STORM DETENTION | Clearing/Demolition, Mass Grading, & Stormwater Detention System | 10/29/2025 |
| SITE CONSTRUCTION/UTILITIES | Final Grading, Pavement, Utilities, & Storm Sewers | 1/30/2026 |
| FOUNDATION & FOOTINGS | Structural Foundations & Footings | 1/30/2026 |
| BUILDING | Architectural, Structural, Mechanical, Electrical, Plumbing & Landscaping | 1/30/2026 |

**OWNER:**
SANTA MARIA COMMUNITY SERVICES
617 STEINER AVENUE
CINCINNATI, OHIO 45204

**DEVELOPER:**
MODEL GROUP
1826 RACE STREET
CINCINNATI, OHIO 45202

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
811 Know what's below. Call before you dig.

THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.

STATE OF OHIO ★ BENJAMIN POOLE 88431 REGISTERED PROFESSIONAL ENGINEER ★ 3/26/26

| Date | Drawn By | Checked By | Scale |
|---|---|---|---|
| 12-5-25 | B.P. | C.A. | N/A |

REVISIONS
1-9-26, 80% PROGRESS SET
1-30-26, PERMIT ISSUE
3-24-26, ADDENDUM NO. 5

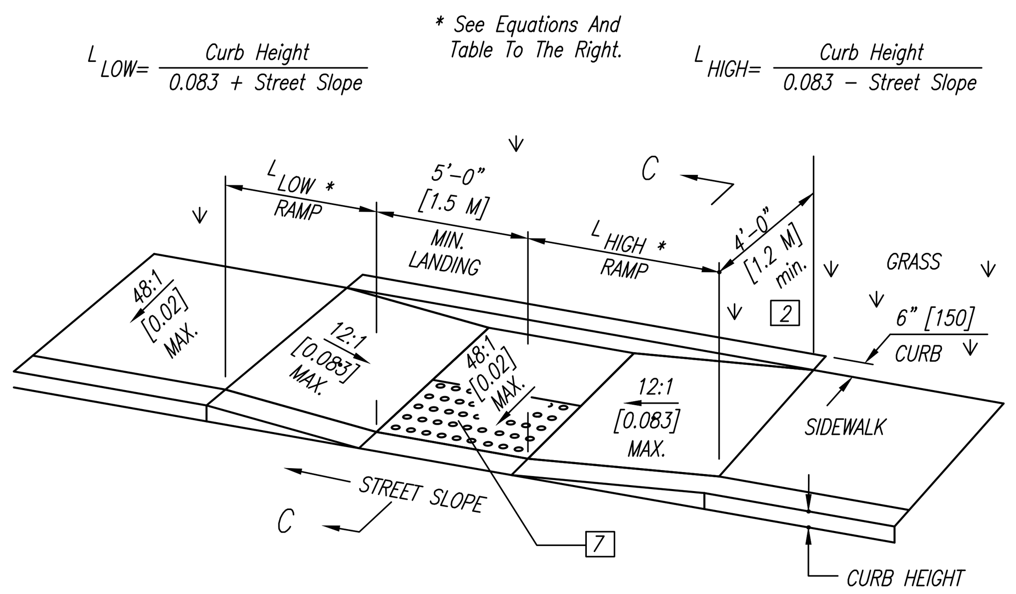
DWG: \BPoole\AppData\Local\Temp\AcPublish_26116\B-STPL-PH2

Sheet Title: TITLE SHEET

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25-0131
Page C 100



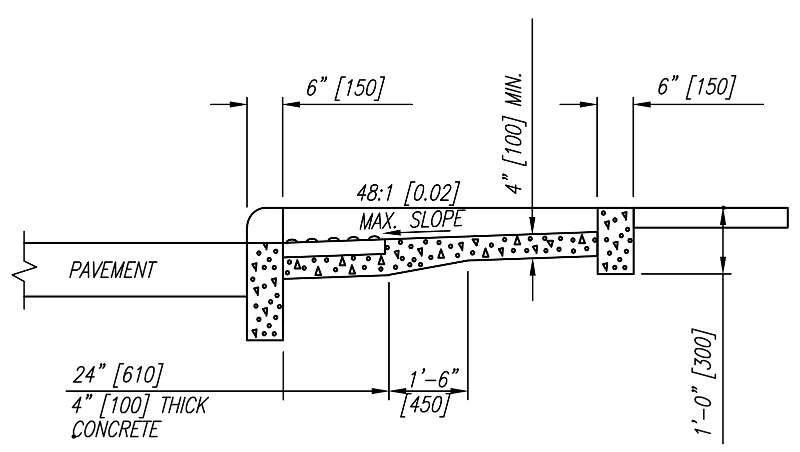

# PARALLEL CURB RAMP DETAIL

TYPE B2 (Double Sided Parallel)

## LEGEND

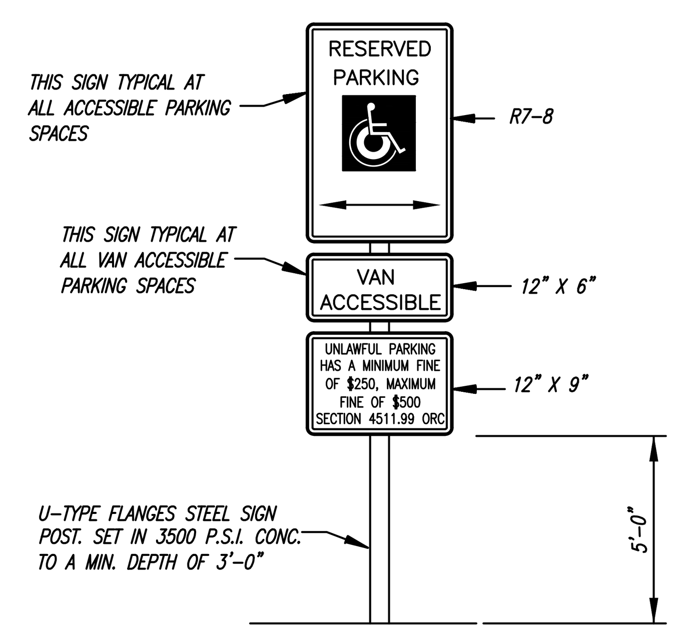
1. May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
2. May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
3. Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

   Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.
5. The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
6. Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
7. Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.



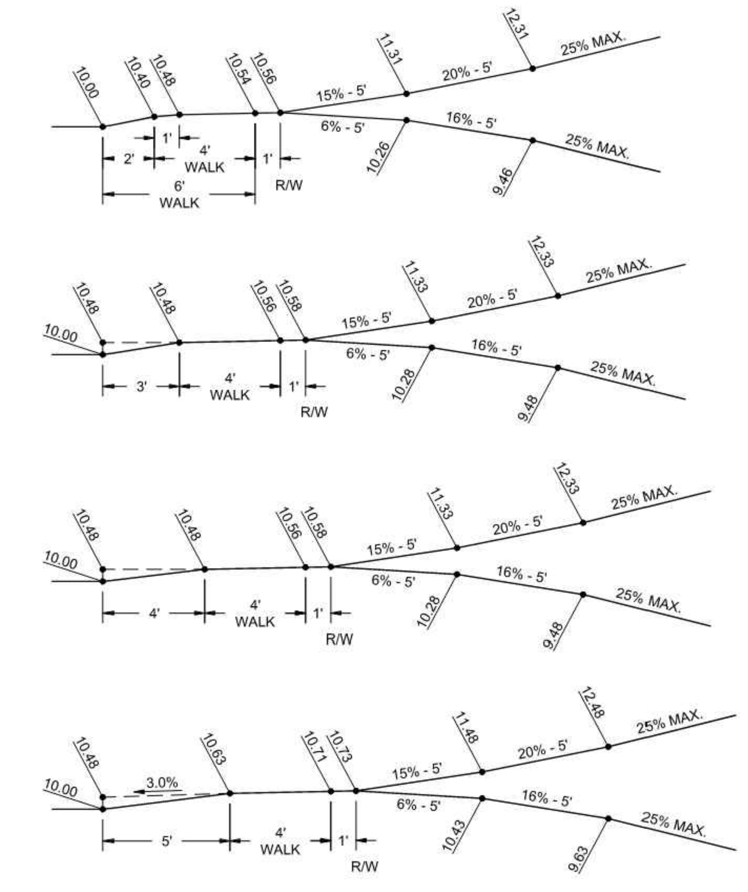

## SECTION C–C

| STREET SLOPE | RAMP LENGTH @ 1"/FT [0.083] | |
|---|---|---|
| | $L_{LOW}$ SIDE* | $L_{HIGH}$ SIDE* |
| 0.01 | 5'-5" [1.6M] | 6'-10" [2.1M] |
| 0.02 | 4'-10" [1.5M] | 7'-11" [2.4M] |
| 0.03 | 4'-5" [1.3M] | 9'-5" [2.9M] |
| 0.04 | 4'-1" [1.2M] | 11'-8" [3.6M] |
| 0.05 | 3'-9" [1.1M] | 15'-2" [4.6M] |




NOTE: SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

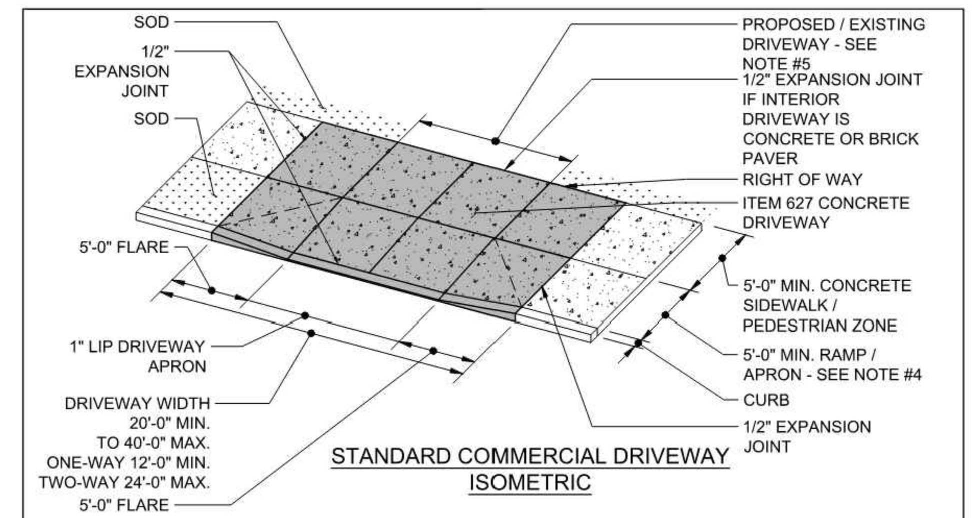
## HANDICAP ACCESSIBLE PARKING SIGN



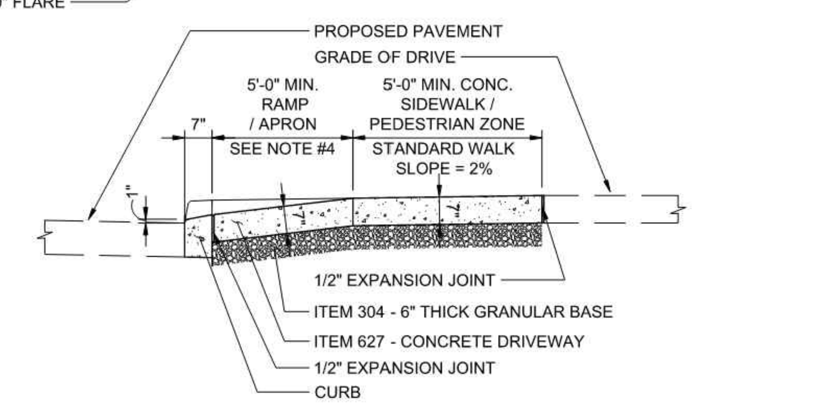

MAXIMUM ASCENDING & DESCENDING INTERIOR DRIVEWAY GRADES FOR VARIOUS SIDEWALK LOCATIONS

NOTES:
1. SECTION 721-143 OF THE CINCINNATI MUNICIPAL CODE PROVIDES THAT ON UNIMPROVED STREETS THE GRADE OF THE DRIVEWAY AT THE PROPERTY LINE SHALL BE DETERMINED BY ASCENDING FROM THE EDGE OF THE TRAVELED ROADWAY AT THE RATE OF 1/2" PER FOOT

| CITY OF CINCINNATI<br>DEPARTMENT OF TRANSPORTATION AND ENGINEERING | INTERIOR DRIVEWAY GRADES | APPROVED BY: CITY ENGINEER | DWG. NO. C118<br>DATE: 2024-08-23 |
|---|---|---|---|



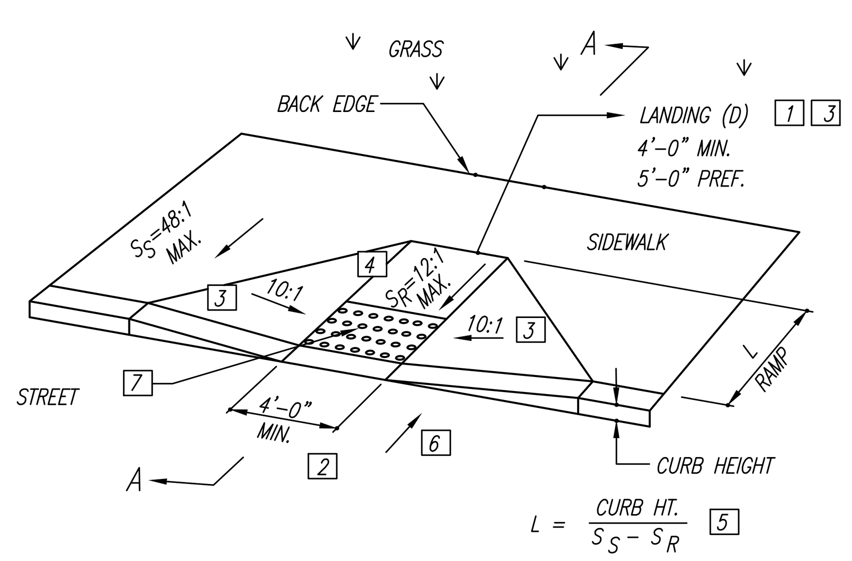

STANDARD COMMERCIAL DRIVEWAY ISOMETRIC




STANDARD COMMERCIAL DRIVEWAY PROFILE

NOTES:
1. FOR ADDITIONAL DRIVEWAY DROP CURB DETAILS SEE L-1, B-1, P-1, P-4, AND R-2
2. FOR INTERIOR DRIVEWAY GRADES SEE DWG. NO. C118
3. CONCRETE WALK TO BE REMOVED TO THE NEAREST JOINT OUTSIDE OF THE PROPOSED DRIVEWAY. INSTALL 1/2 INCH EXPANSION JOINT AGAINST UNDISTURBED CONCRETE WALK
4. TO BE PAVED 25' BEHIND PROPERTY LINE, AS PER CMC 721-134
5. THE PEDESTRIAN CROSSING SURFACE MAY BE A CONTINUOUS SLOPE ACROSS THE DRIVEWAY ONLY AT NON-SIGNALIZED INTERSECTIONS. OTHERWISE, THE PEDESTRIAN CROSSING SURFACE SHALL BE LOWERED TO MEET THE ROADWAY AND DRIVEWAY SURFACES

| CITY OF CINCINNATI<br>DEPARTMENT OF TRANSPORTATION AND ENGINEERING | STANDARD COMMERCIAL DRIVEWAY CONSTRUCTION | APPROVED BY: CITY ENGINEER | DWG. NO. C116<br>DATE: 2024-08-23 |
|---|---|---|---|




# PERPENDICULAR CURB RAMP DETAIL

Type A1 (Perpendicular With Flared Sides)

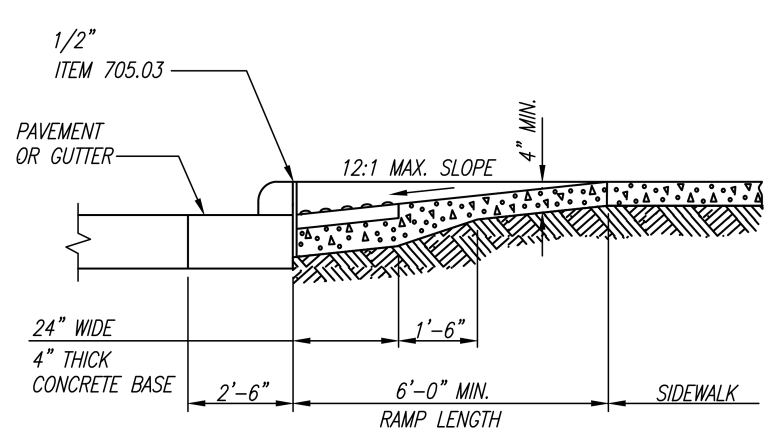
## LEGEND

1. May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
2. May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
3. Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

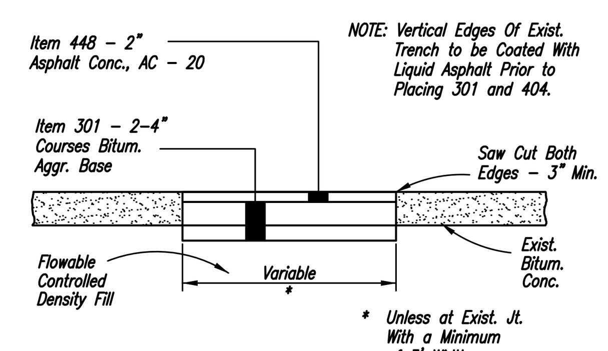
   Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.
4. The slope of the ramp toward the curb is preferred to be 12:1 or flatter related to the horizontal.

   In existing sidewalks, where the maximum ramp slope ($S_R$) is not feasible, it may be reduced as follows:

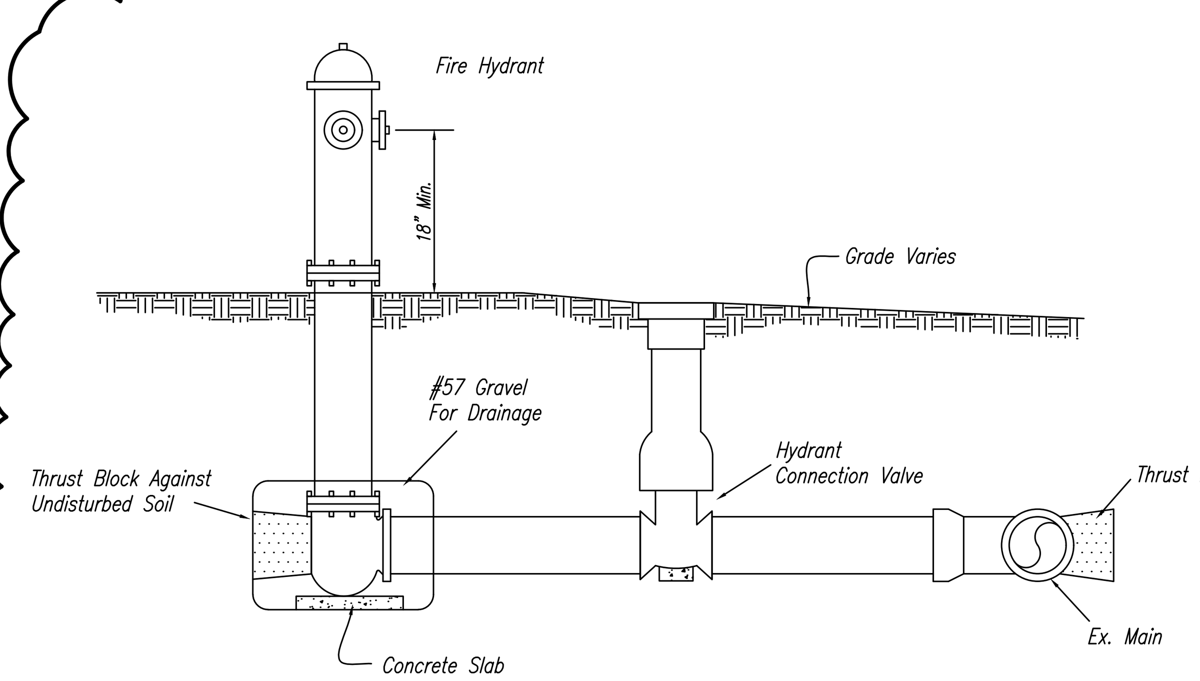
   A) 10:1 for a max. rise of 6"
   B) 8:1 for a max. rise of 3"
   C) 6:1 over a max. run of 2'-0" for historic areas where a flatter slope is not feasible.
5. The minimum length of a perpendicular ramp is 6' [2.0 m] from the back of a 6" [150] curb and may be increased where feasible to obtain a flatter ramp slope or to better blend with the walk configuration.
6. Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
7. Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24" [610] from the back of the curb by the width of the ramp.

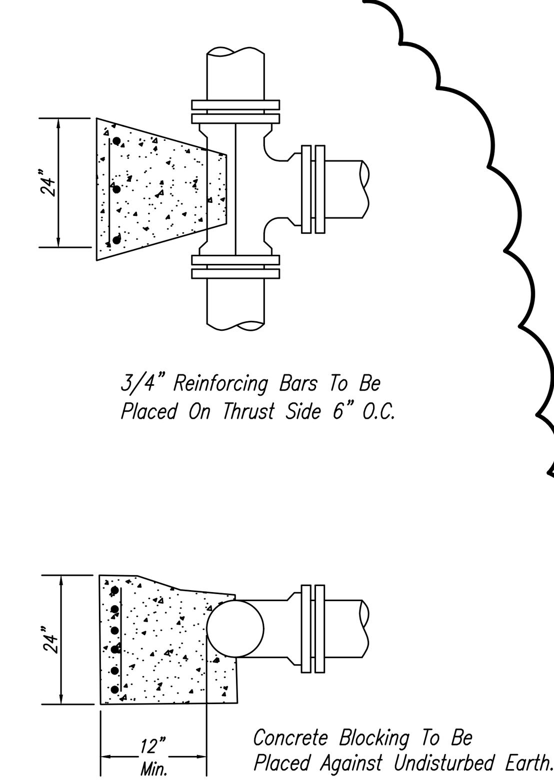



## SECTION A–A NORMAL DETAIL



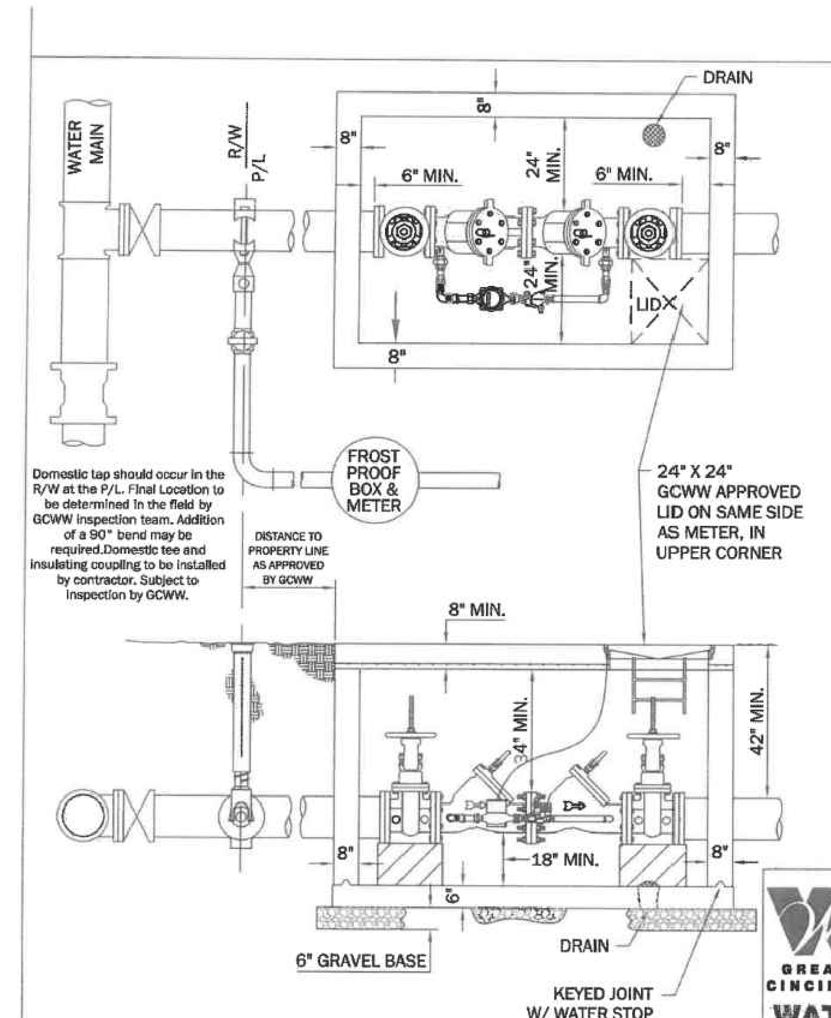

## ASPHALT RESTORATION SECTION PLATE NO.15




NOTE: THIS STANDARD DRAWING SHALL BE UTILIZED FOR BLOCKING OF TEES, 90° BENDS, FIRE HYDRANTS & PLUGS.

## PRIVATE FIRE HYDRANT DETAIL




DETAILS:

A) SEE 108-1A, 108-1B, 108-1C, 108-1D & 108-1E FOR MATERIAL & CONSTRUCTION SPECIFICATIONS.
B) SEE 108-1F FOR EMR INSTALLATION SPECIFICATIONS.
C) SEE 108-5A FOR 5/8" AND 3/4" METER SETTINGS; 108-5B FOR 1" METER SETTINGS; 108-5C FOR 1 1/2" AND 2" METER SETTING SPECIFICATIONS.
D) SEE 108-9 FOR DETAILS PIPING ARRANGEMENT FOR DOUBLE CHECK DETECTOR CHECK VALVE ASSEMBLY.
E) DETECTOR CHECK METER TO BE PURCHASED FROM AND INSTALLED BY GCWW.
F) A CURB BOX MUST BE INSTALLED ON A 3/4" AND 1" DOMESTIC BRANCH AND A TELESCOPE BOX MUST BE INSTALLED ON A 1 1/2" AND 2" DOMESTIC BRANCH.
G) ANY PUMPER CONNECTION MUST BE INSTALLED ON OPPOSITE SIDE OF DOUBLE DETECTOR CHECK METER ASSEMBLY AND DOWNSTREAM OF OUTLET VALVE.
H) CONCRETE BLOCKING MUST BE UNDER OS & Y VALVES.
I) A FACTORY DRILLED (1) 3/4" HOLE MUST BE DRILLED IN THE GCWW APPROVED LID IF THE PIT IS LOCATED IN AN UNPAVED AREA.

All taps 4" and larger will require a shutdown and cutting in a mechanically restrained tee of appropriate size on the main line. Wet taps are not permitted.

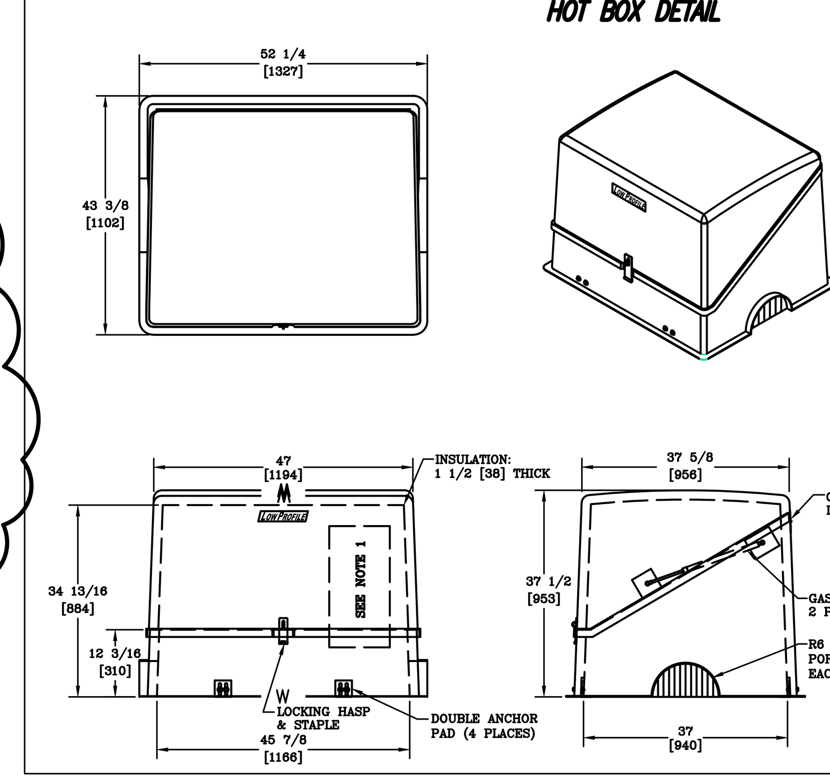
Property owner is responsible for all excavation, backfill, and restoration work per GCWW specifications.

All dead end pipe stubs must be mechanically restrained.

See Standard Drawing 108-19 For Inspection/Installation Procedures

| GREATER CINCINNATI WATER WORKS | 4" OR LARGER FIRE DUAL SERVICE | | |
|---|---|---|---|
| | OUTSIDE EMR SETTING FOR 4" OR LARGER FIRE AND 2" OR SMALLER DOMESTIC METER | | |
| | APPROVED | DATE 7/12/19 | STANDARD DRAWING 108-14A |

## HOT BOX DETAIL




NOTES:
1. HEAT IS PROVIDED BY A 1000WATT, 120V SINGLE PHASE HEATER. FOR UNHEATED VERSION REPLACE THE PREFIX "H" WITH AN "L".
2. STANDARD COLOR IS BEIGE (OPTIONS AVAILABLE)
3. FOR RECOMMENDED SLAB SIZE ADD 9" [305] TO THE ENCLOSURE EXTERIOR.

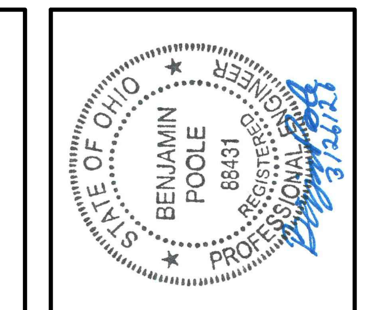
HOT BOX FIBERGLASS FLIP TOP ENCLOSURE HB3000

09994 1 1 HL035045035


THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.



OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
811 Know what's below. Call before you dig.


REVISIONS
1-9-26, 80% PROGRESS SET
1-30-26, PERMIT ISSUE
3-24-26, ADDENDUM NO. 5

Date 12-5-25
Drawn By B.P.
Checked By C.A.
Scale N/A

DWG: \BPoole\AppData\Local\Temp\AcPublish_26116\BV-STPL-PH2

Sheet Title: DETAILS

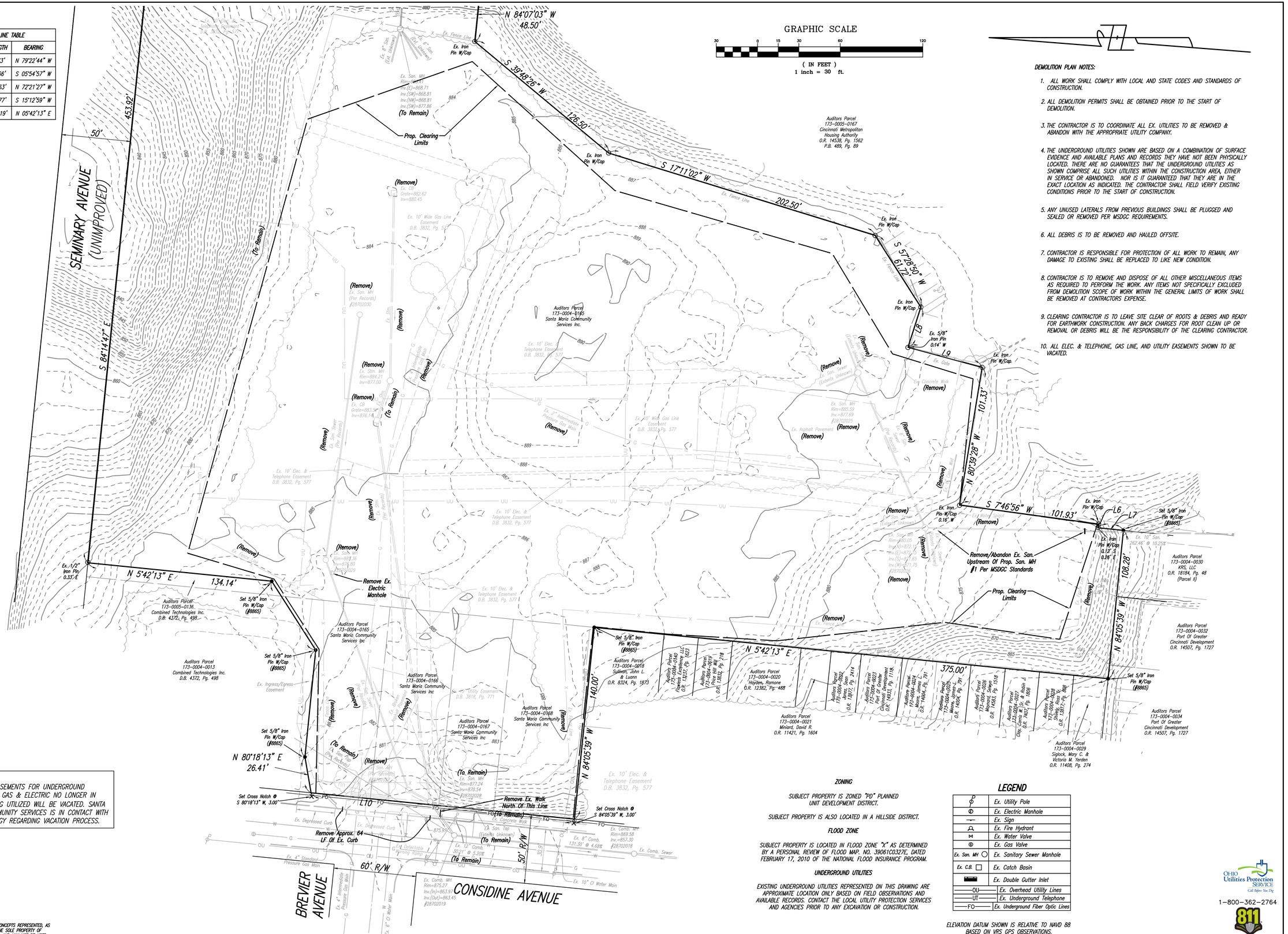
Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO


Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com


Job No. 25-0131

Page C 101

| LINE TABLE | | |
|---|---|---|
| LINE | LENGTH | BEARING |
| L6 | 2.73' | N 79°22'44" W |
| L7 | 18.66' | S 05°54'57" W |
| L8 | 30.63' | N 72°21'27" W |
| L9 | 55.77' | S 15°12'59" W |
| L10 | 192.19' | N 05°42'13" E |




NOTE:
EXISTING EASEMENTS FOR UNDERGROUND TELEPHONE, GAS & ELECTRIC NO LONGER IN PLACE/BEING UTILIZED WILL BE VACATED. SANTA MARIA COMMUNITY SERVICES IS IN CONTACT WITH DUKE ENERGY REGARDING VACATION PROCESS.

**DEMOLITION PLAN NOTES:**

1. ALL WORK SHALL COMPLY WITH LOCAL AND STATE CODES AND STANDARDS OF CONSTRUCTION.
2. ALL DEMOLITION PERMITS SHALL BE OBTAINED PRIOR TO THE START OF DEMOLITION.
3. THE CONTRACTOR IS TO COORDINATE ALL EX. UTILITIES TO BE REMOVED & ABANDON WITH THE APPROPRIATE UTILITY COMPANY.
4. THE UNDERGROUND UTILITIES SHOWN ARE BASED ON A COMBINATION OF SURFACE EVIDENCE AND AVAILABLE PLANS AND RECORDS. THEY HAVE NOT BEEN PHYSICALLY LOCATED. THERE ARE NO GUARANTEES THAT THE UNDERGROUND UTILITIES AS SHOWN COMPRISE ALL SUCH UTILITIES WITHIN THE CONSTRUCTION AREA, EITHER IN SERVICE OR ABANDONED. NOR IS IT GUARANTEED THAT THEY ARE IN THE EXACT LOCATION AS INDICATED. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
5. ANY UNUSED LATERALS FROM PREVIOUS BUILDINGS SHALL BE PLUGGED AND SEALED OR REMOVED PER MSDGC REQUIREMENTS.
6. ALL DEBRIS IS TO BE REMOVED AND HAULED OFFSITE.
7. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL WORK TO REMAIN, ANY DAMAGE TO EXISTING SHALL BE REPLACED TO LIKE NEW CONDITION.
8. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL OTHER MISCELLANEOUS ITEMS AS REQUIRED TO PERFORM THE WORK. ANY ITEMS NOT SPECIFICALLY EXCLUDED FROM DEMOLITION SCOPE OF WORK WITHIN THE GENERAL LIMITS OF WORK SHALL BE REMOVED AT CONTRACTORS EXPENSE.
9. CLEARING CONTRACTOR IS TO LEAVE SITE CLEAR OF ROOTS & DEBRIS AND READY FOR EARTHWORK CONSTRUCTION. ANY BACK CHARGES FOR ROOT CLEAN UP OR REMOVAL OR DEBRIS WILL BE THE RESPONSIBILITY OF THE CLEARING CONTRACTOR.
10. ALL ELEC. & TELEPHONE, GAS LINE, AND UTILITY EASEMENTS SHOWN TO BE VACATED.

**ZONING**

SUBJECT PROPERTY IS ZONED "PD" PLANNED UNIT DEVELOPMENT DISTRICT.

SUBJECT PROPERTY IS ALSO LOCATED IN A HILLSIDE DISTRICT.

**FLOOD ZONE**

SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE "X" AS DETERMINED BY A PERSONAL REVIEW OF FLOOD MAP. NO. 39061C0327E, DATED FEBRUARY 17, 2010 OF THE NATIONAL FLOOD INSURANCE PROGRAM.

**UNDERGROUND UTILITIES**

EXISTING UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING ARE APPROXIMATE LOCATION ONLY BASED ON FIELD OBSERVATIONS AND AVAILABLE RECORDS. CONTACT THE LOCAL UTILITY PROTECTION SERVICES AND AGENCIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION.

**LEGEND**

| | |
|---|---|
| | Ex. Utility Pole |
| | Ex. Electric Manhole |
| | Ex. Sign |
| | Ex. Fire Hydrant |
| | Ex. Water Valve |
| | Ex. Gas Valve |
| Ex. San. MH | Ex. Sanitary Sewer Manhole |
| Ex. C.B. | Ex. Catch Basin |
| | Ex. Double Gutter Inlet |
| OU | Ex. Overhead Utility Lines |
| UT | Ex. Underground Telephone |
| FO | Ex. Underground Fiber Optic Lines |

ELEVATION DATUM SHOWN IS RELATIVE TO NAVD 88 BASED ON VRS GPS OBSERVATIONS.

OHIO Utilities Protection SERVICE Call Before You Dig
1-800-362-2764
811 Know what's below. Call before you dig.

THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.

STATE OF OHIO BENJAMIN POOLE 88431 REGISTERED PROFESSIONAL ENGINEER
12-12-25

| | |
|---|---|
| Date | 12-5-25 |
| Drawn By | B.P. |
| Checked By | C.A. |
| Scale | 1" = 30' |
| DWG. | \BPoole\AppData\Local\Temp\AcPublish_26116\8F-3HA-.Plt2 |

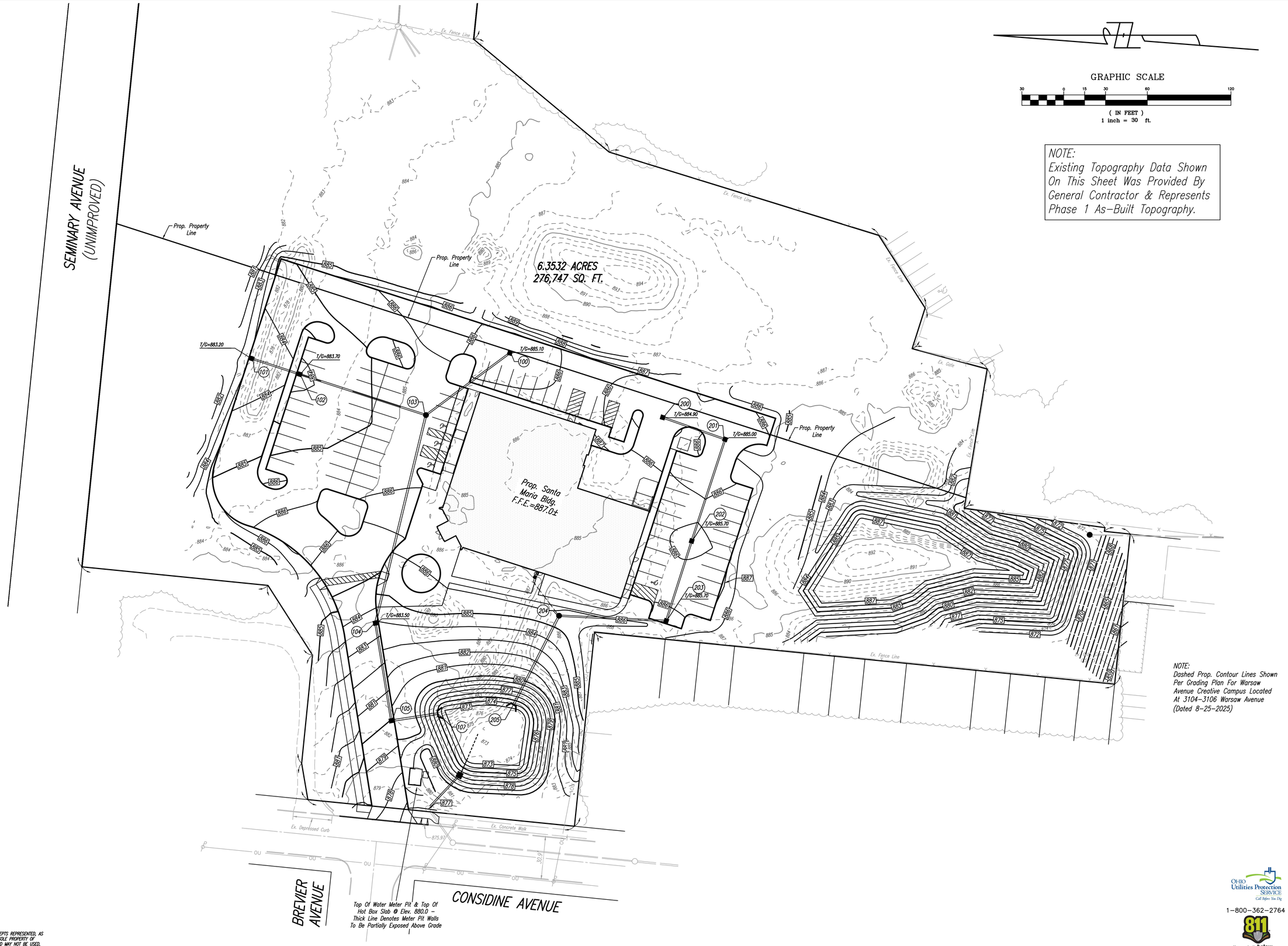
REVISIONS
1-9-26, BSE PROGRESS SET
1-30-26, PERMIT ISSUE
2-24-26, ADDENDUM NO. 5

Sheet Title: EX. CONDITIONS & DEMO PLAN

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25-0131




NOTE:
Existing Topography Data Shown On This Sheet Was Provided By General Contractor & Represents Phase 1 As-Built Topography.

NOTE:
Dashed Prop. Contour Lines Shown Per Grading Plan For Warsaw Avenue Creative Campus Located At 3104–3106 Warsaw Avenue (Dated 8–25–2025)

OHIO Utilities Protection SERVICE
Call Before You Dig
1–800–362–2764
811 Know what's below. Call before you dig.

THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.

Date: 12-5-25
Drawn By: B.P.
Checked By: C.A.
Scale: 1" = 30'

REVISIONS
1-9-26, SITE PROGRESS SET
1-30-26, PERMIT ISSUE
3-24-26, ADDENDUM NO. 5

DWG: 25-0131\DSGN\BP-STPL-PH2

Sheet Title: PHASE 1 TOPOGRAPHY AS-BUILT

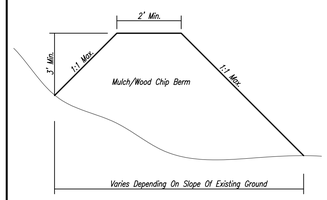
Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

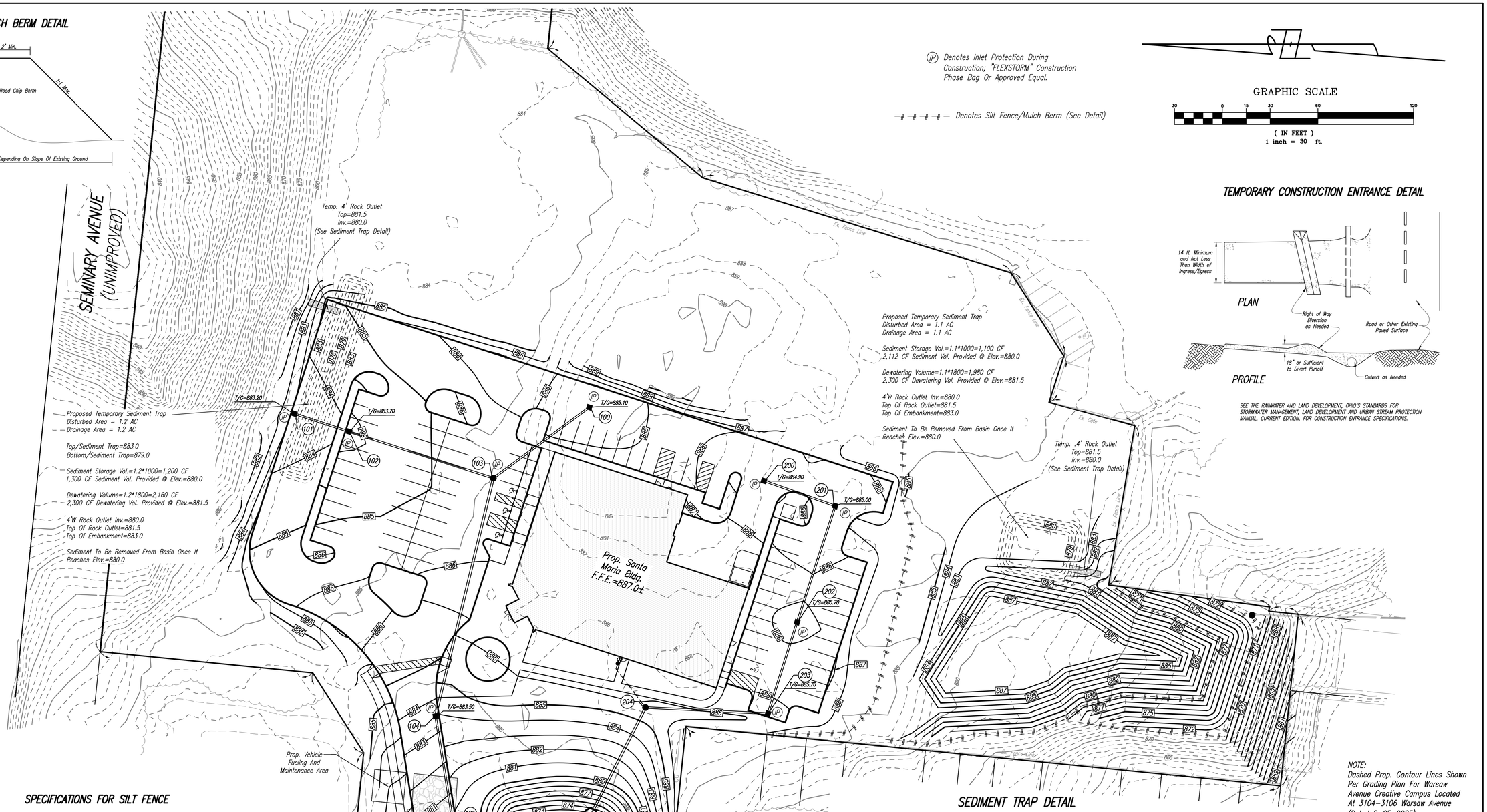
Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Chevrol Road, Suite 200
Cincinnati, Ohio 45247
513-385-5777
www.abercrombie-associates.com

Job No. 25-0131

Page C 301

## MULCH BERM DETAIL




(IP) Denotes Inlet Protection During Construction; "FLEXSTORM" Construction Phase Bag Or Approved Equal.

Denotes Silt Fence/Mulch Berm (See Detail)

GRAPHIC SCALE

30 0 15 30 60 120

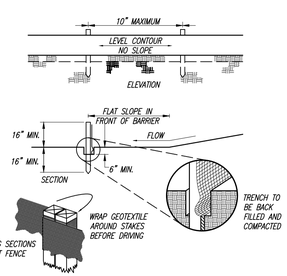
( IN FEET )
1 inch = 30 ft.

## TEMPORARY CONSTRUCTION ENTRANCE DETAIL



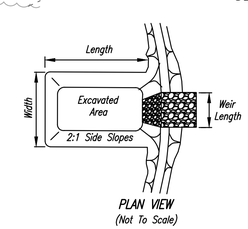

SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR CONSTRUCTION ENTRANCE SPECIFICATIONS.

## SPECIFICATIONS FOR SILT FENCE

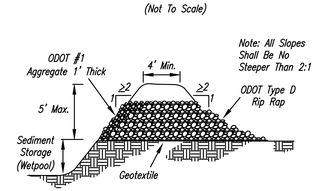



SEE THE RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL, CURRENT EDITION, FOR SILT FENCE SPECIFICATIONS.

## SEDIMENT TRAP DETAIL




PLAN VIEW
(Not To Scale)




Note: All Slopes Shall Be No Steeper Than 2:1

OUTLET CROSS SECTION
(Not To Scale)

1. Work Shall Consist Of The Installation, Maintenance And Removal Of All Sediment Traps At The Locations Designated On The Drawings.
2. Sediment Traps Shall Be Constructed To The Dimensions Specified On The Drawings And Operational Prior To The Upslope Land Disturbance.
3. The Area Beneath The Embankment Shall Be Cleared, Grubbed And Stripped Of Vegetation To A Minimum Depth Of Six (6) Inches. The Pool Shall Be Cleared As Needed To Facilitate Sediment Cleanout.
4. Fill Used For The Embankment Shall Be Evaluated To Assure Its Suitability And It Must Be Free Of Roots Or Other Woody Vegetation, Large Rocks, Organics Or Other Objectionable Materials. Fill Material Shall Be Placed In Six (6) Inch Lifts And Shall Be Compacted By Traversing With A Sheepsfoot Or Other Approved Compaction Equipment. Fill Height Shall Be Increased Five (5) Percent To Allow For Structure/foundation Settlement. Construction Shall Not Be Permitted If Either The Earthfill Or Compaction Surface Is Frozen.
5. The Maximum Height Or Embankment Shall Be Five (5) Feet. All Cut And Fill Slopes Shall Be 2:1 (h:v) Or Flatter.
6. The Minimum Storage Volume Below The Crest Of The Outlet Of 67 Cy For Every Acre Of Contributing Drainage Area Shall Be Achieved At Each Location Noted On The Drawings With Additional Sediment Storage Volume Provided Below This Elevation.
7. Temporary Seeding Shall Be Established And Maintained Over The Useful Life Of The Practice.
8. The Outlet For The Sediment Trap Structure Shall Be Constructed To The Dimensions Shown On The Drawings.
9. The Outlet Shall Be Constructed Using The Materials Specified On The Drawings. Where Geotextile Is Used, All Overlaps Shall Be A Minimum Of Two (2) Feet Or As Specified By The Manufacturer, Whichever Is Greater. All Overlaps Shall Be Made With The Upper Most Layer Placed Last. Geotextile Shall Be Keyed In At Least 6" On The Upstream Side Of The Outlet.
10. Warning Signed And Safety Fence Shall Be Placed Around The Traps And Maintained Over The Life Of The Practice .
11. After All Sediment Producing Areas Have Been Permanently Stabilized. The Structure And All Associated Sediment Shall Be Removed. Stabile Earth Materials Shall Be Placed In The Sediment Trap Area And Compacted. The Area Shall Be Graded To Blend In With Adjoining Land Surfaces And Have Positive Drainage. The Area Shall Be Immediately Seeded.

NOTE:
Dashed Prop. Contour Lines Shown Per Grading Plan For Warsaw Avenue Creative Campus Located At 3104–3106 Warsaw Avenue (Dated 8–25–2025)

OHIO Utilities Protection SERVICE
Call Before You Dig
1–800–362–2764
811
Know what's below. Call before you dig.

THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.

STATE OF OHIO
BENJAMIN POOLE
88431
REGISTERED PROFESSIONAL ENGINEER
12-5-25

REVISIONS
1–9–26, BIDE PROGRESS SET
1–30–26, PERMIT ISSUE
2–4–26, ADDENDUM NO. 5

DWG: \BPoole\AppData\Local\Temp\AcPublish_26116\ 3A_Ph2

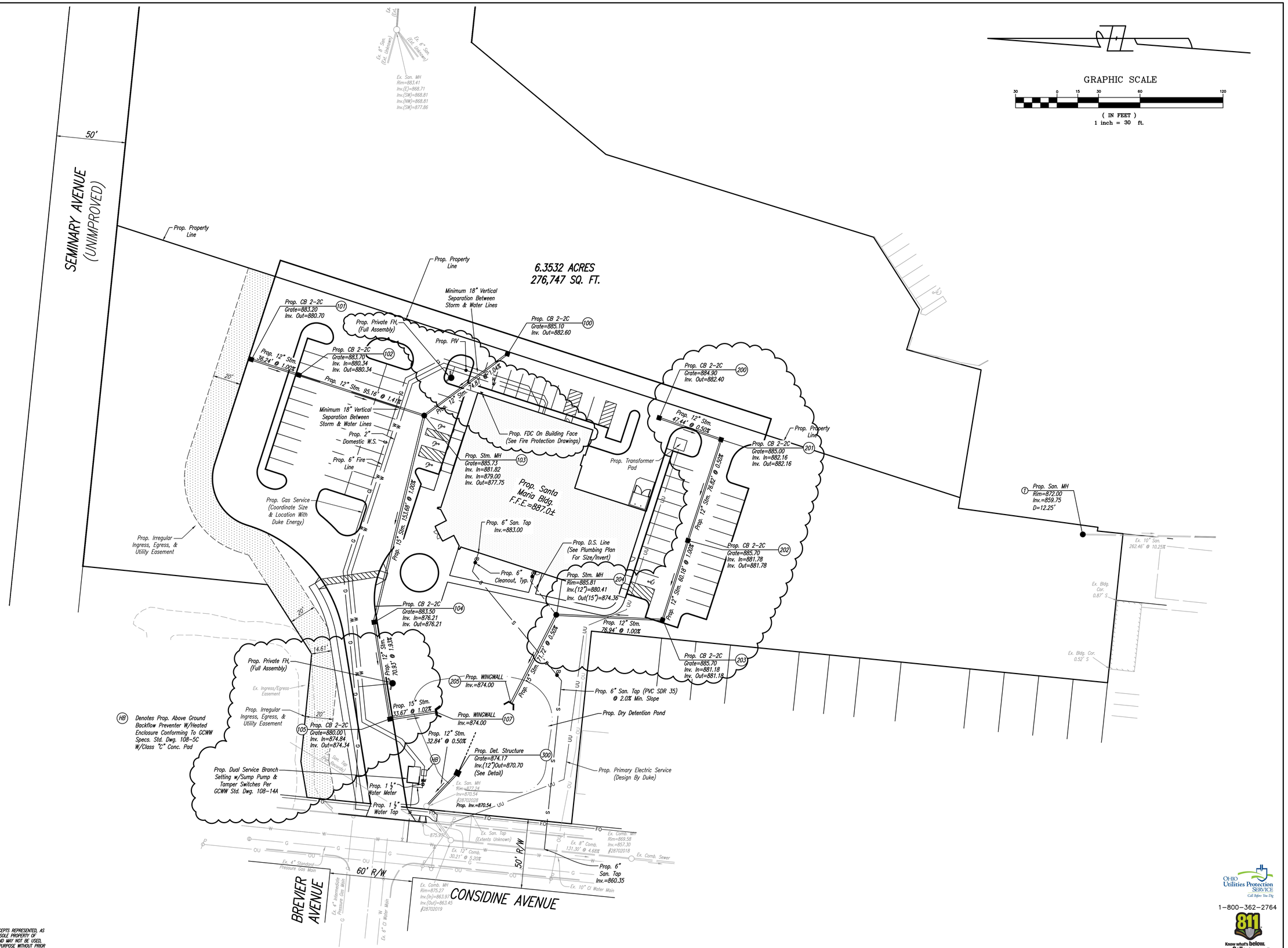
Date 12-5-25
Drawn By B.P.
Checked By C.A.
Scale 1" = 30'

Sheet Title: EROSION CONTROL PLAN

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION–36, TOWN–4, F.RANGE–1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25–0131




THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
811
Know what's below. Call before you dig.

STATE OF OHIO
BENJAMIN POOLE
88431
REGISTERED PROFESSIONAL ENGINEER
12-5-25

| | |
|---|---|
| Date | 12-5-25 |
| Drawn By | B.P. |
| Checked By | C.A. |
| Scale | 1" = 30' |

REVISIONS
1-9-26, BSE PROGRESS SET
1-30-26, PERMIT ISSUE
3-24-26, ADDENDUM NO. 5

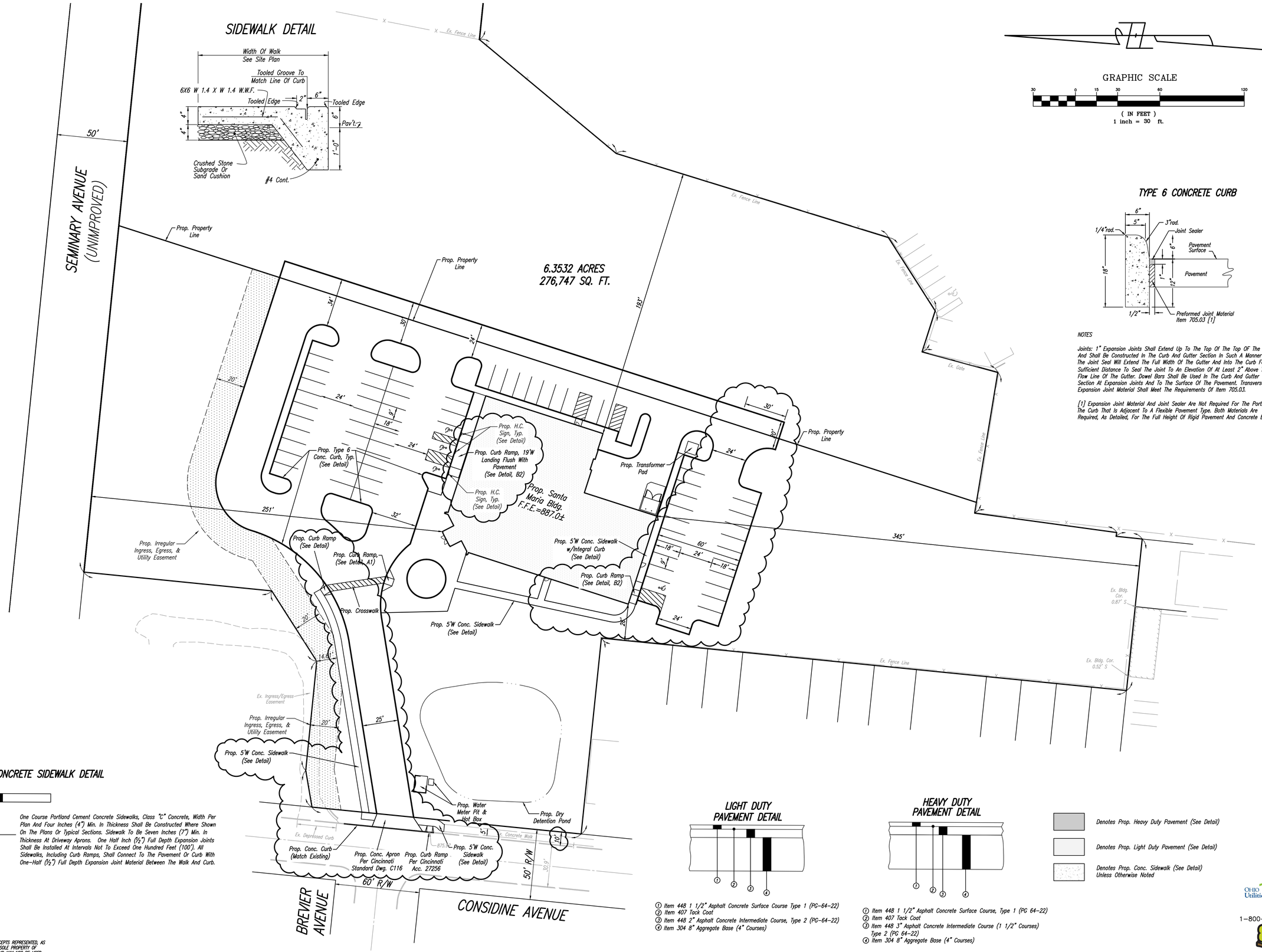
DWG: \BPoole\AppData\Local\Temp\AcPublish_26116\ 26116-PH2

Sheet Title: UTILITY PLAN

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25-0131






GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 inch = 30 ft.

## TYPE 6 CONCRETE CURB




NOTES

Joints: 1" Expansion Joints Shall Extend Up To The Top Of The Top OF The Curb And Shall Be Constructed In The Curb And Gutter Section In Such A Manner That The Joint Seal Will Extend The Full Width Of The Gutter And Into The Curb Face A Sufficient Distance To Seal The Joint To An Elevation Of At Least 2" Above The Flow Line Of The Gutter. Dowel Bars Shall Be Used In The Curb And Gutter Section At Expansion Joints And To The Surface Of The Pavement. Transverse Expansion Joint Material Shall Meet The Requirements Of Item 705.03.

[1] Expansion Joint Material And Joint Sealer Are Not Required For The Portion Of The Curb That Is Adjacent To A Flexible Pavement Type. Both Materials Are Required, As Detailed, For The Full Height Of Rigid Pavement And Concrete Bases.

## CONCRETE SIDEWALK DETAIL

One Course Portland Cement Concrete Sidewalks, Class "C" Concrete, Width Per Plan And Four Inches (4") Min. In Thickness Shall Be Constructed Where Shown On The Plans Or Typical Sections. Sidewalk To Be Seven Inches (7") Min. In Thickness At Driveway Aprons. One Half Inch (½") Full Depth Expansion Joints Shall Be Installed At Intervals Not To Exceed One Hundred Feet (100'). All Sidewalks, Including Curb Ramps, Shall Connect To The Pavement Or Curb With One-Half (½") Full Depth Expansion Joint Material Between The Walk And Curb.

## LIGHT DUTY PAVEMENT DETAIL



1. Item 448 1 1/2" Asphalt Concrete Surface Course Type 1 (PG-64-22)
2. Item 407 Tack Coat
3. Item 448 2" Asphalt Concrete Intermediate Course, Type 2 (PG-64-22)
4. Item 304 8" Aggregate Base (4" Courses)

## HEAVY DUTY PAVEMENT DETAIL



1. Item 448 1 1/2" Asphalt Concrete Surface Course, Type 1 (PG 64-22)
2. Item 407 Tack Coat
3. Item 448 3" Asphalt Concrete Intermediate Course (1 1/2" Courses) Type 2 (PG 64-22)
4. Item 304 8" Aggregate Base (4" Courses)

Denotes Prop. Heavy Duty Pavement (See Detail)

Denotes Prop. Light Duty Pavement (See Detail)

Denotes Prop. Conc. Sidewalk (See Detail) Unless Otherwise Noted

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
811
Know what's below. Call before you dig.

THIS DRAWING AND THE DESIGN CONCEPTS REPRESENTED, AS INSTRUMENTS OF SERVICE, ARE THE SOLE PROPERTY OF ABERCROMBIE & ASSOCIATES INC., AND MAY NOT BE USED, REPRODUCED, OR COPIED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION OF ABERCROMBIE & ASSOCIATES, INC.

STATE OF OHIO
BENJAMIN POOLE
88431
REGISTERED PROFESSIONAL ENGINEER
3/24/26

Date 12-5-25
Drawn By B.P.
Checked By C.A.
Scale 1" = 30'
DWG: \BPoole\AppData\Local\Temp\AcPublish_26116\BP-SITE_PH2

REVISIONS
1-9-26, 80% PROGRESS SET
1-30-26, PERMIT ISSUE
3-24-26, ADDENDUM NO. 5

Sheet Title: SITE LAYOUT PLAN

Project Title: SANTA MARIA COMMUNITY SERVICES
SECTION-36, TOWN-4, F.RANGE-1
CITY OF CINCINNATI
HAMILTON COUNTY, OHIO

Abercrombie & Associates, Inc.
Civil Engineering + Surveying
8111 Cheviot Road, Suite 200
Cincinnati, Ohio 45247
513-385-5757
www.abercrombie-associates.com

Job No. 25-0131
Page C / 500

# SANTA MARIA COMMUNITY SERVICES

## 1048 CONSIDINE AVE.
## CINCINNATI, OHIO 45205

### PROJECT RENDERING

### PROJECT CONTACTS

**OWNER**
SANTA MARIA COMMUNITY SERVICES
617 STEINER AVE
CINCINNATI, OH 45204
(513) 587-6952

**OWNERS REP**
JS HELD
250 WEST COURT STREET, SUITE 400
CINCINNATI, OH 45204

**ARCHITECT**
ATA ARCHITECTS
1063 CENTRAL AVENUE
CINCINNATI OH, 45202
ROB HUMASON
ROB@ATA-ARCH.COM
(513) 383-1642

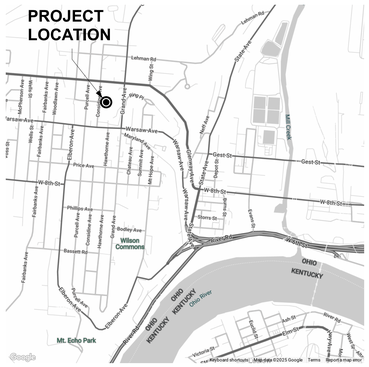
**GENERAL CONTRACTOR**
MODEL GROUP
1826 RACE STREET
CINCINNATI, OH 45202
(513) 559-0048

**STRUCTURAL ENGINEER**
GOP LIMITED STRUCTURAL ENGINEERS
431 OHIO AVENUE, SUITE 100N
CINCINNATI, OH 45255
(513) 621 7073

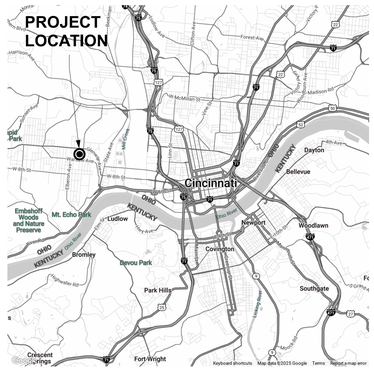
**CIVIL ENGINEER**
ABERCROMBIE & ASSOCIATES, INC.
8111 CHEVIOT ROAD
CINCINNATI, OH 45247
CRAIG ABERCROMBIE
(513)-385-5757 EXT 113

**MEP ENGINEER**
RTM ENGINEERING CONSULTANTS
515 MONMOUTH STREET, STE 201
NEWPORT, KY 41071
AJ MEYER

### AREA MAP




### REGIONAL MAP




### SHEET INDEX

| # | NAME | CURRENT REV | CURRENT REV. DATE |
|---|---|---|---|
| G001 | COVER SHEET | | |
| G002 | PROJECT INFORMATION | | |
| G003 | LIFE SAFETY | | |
| C100 | TITLE SHEET | | |
| C101 | DETAILS | | |
| C200 | EX. CONDITIONS & DEMO PLAN | | |
| C300 | GRADING & DETENTION PLAN | | |
| C400 | UTILITY PLAN | | |
| C500 | SITE LAYOUT PLAN | | |
| A001 | ARCHITECTURAL SITE PLAN | | |
| A101 | FIRST FLOOR PLAN | | |
| A102 | SECOND FLOOR PLAN | | |
| A111 | FIRST FLOOR CEILING PLAN | | |
| A112 | SECOND FLOOR CEILING PLAN | | |
| A121 | ROOF PLAN | | |
| A201 | EXTERIOR ELEVATIONS | | |
| A202 | EXTERIOR ELEVATIONS | | |
| A301 | BUILDING SECTIONS | | |
| A302 | BUILDING SECTIONS | | |
| A311 | WALL SECTIONS | | |
| A312 | WALL SECTIONS | | |
| A401 | ENLARGED RESTROOM PLANS ELEVATIONS | | |
| A411 | ENLARGED STAIR PLANS & SECTIONS | | |
| A412 | ENLARGED STAIR PLANS & SECTIONS | | |
| A413 | ENLARGED ELEVATOR PLANS & SECTIONS | | |
| A421 | ENLARGED PLANS ELEVATIONS | | |
| A422 | ENLARGED PLANS ELEVATIONS | | |
| A423 | ENLARGED PLANS ELEVATIONS | | |
| A501 | SECTION DETAILS | | |
| A502 | PLAN DETAILS | | |
| A521 | CASEWORK DETAILS | | |
| A531 | DETAILS | | |
| A601 | ROOM FINISH SCHEDULE | | |
| A602 | DOOR SCHEDULES | | |
| A603 | WINDOW TYPES | | |
| S000 | GENERAL NOTES, DESIGN LOADS & ABBREVIATIONS | | |
| S101 | FOUNDATION PLAN | | |
| S102 | TYPICAL FOUNDATION DETAILS | | |
| S103 | FOUNDATION SECTIONS | | |
| S201 | SECOND FLOOR FRAMING PLAN | | |
| S301 | ROOF FRAMING PLAN | | |
| S400 | TYPICAL FRAMING DETAILS | | |
| S401 | FRAMING DETAILS | | |
| S402 | FRAMING SECTIONS | | |
| P001 | PLUMBING LEGEND | | |
| P100 | FOUNDATION PLAN - PLUMBING | | |
| P101 | SANITARY AND VENTING - FIRST FLOOR | | |
| P102 | SANITARY AND VENTING - SECOND FLOOR | | |
| P103 | PLUMBING ROOF PLAN | | |
| P201 | DOMESTIC WATER - FIRST FLOOR | | |
| P202 | DOMESTIC WATER - SECOND FLOOR | | |
| P500 | PLUMBING ISOMETRIC RISER DIAGRAM | | |
| P600 | PLUMBING SCHEDULES AND CALCULATIONS | | |
| P601 | PLUMBING SPECIFICATIONS | | |
| M000 | MECHANICAL LEGEND | | |
| M101 | MECHANICAL FIRST FLOOR | | |
| M102 | MECHANICAL SECOND FLOOR | | |
| M103 | MECHANICAL ROOF | | |
| M300 | MECHANICAL DETAILS | | |
| M301 | MECHANICAL DETAILS | | |
| M302 | MECHANICAL DETAILS | | |
| E000 | ELECTRICAL AND FIRE ALARM LEGEND | | |
| E001 | ONELINE POWER DIAGRAM | | |
| E002 | ELECTRICAL PANEL SCHEDULES | | |
| E101 | FIRST FLOOR - POWER | | |
| E102 | SECOND FLOOR - POWER | | |
| E103 | ROOF POWER | | |
| E201 | LIGHTING - FIRST FLOOR | | |
| E202 | LIGHTING - SECOND FLOOR | | |
| E300 | ELECTRICAL SPECIFICATIONS | | |


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

**SANTA MARIA COMMUNITY SERVICES**
**1048 CONSIDINE AVE.**
**CINCINNATI, OHIO 45205**

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

**COVER SHEET**

**G001**

## PLUMBING FIXTURE CALCULATIONS

| FIRST FLOOR OCCUPANT LOAD | Male | Female |
|---|---|---|
| A-3 ASSEMBLY - 100.46 (101) OCC. LOAD | 51 | 51 |
| M MERCANTILE - 24.52 (25) OCC. LOAD | 13 | 13 |
| S STORAGE - 4.49 (5) OCC. LOAD | 3 | 3 |
| B BUSINESS - 23.19 (24) OCC. LOAD | 12 | 12 |
| TOTAL | 79 | 79 |
| WATER CLOSETS REQUIRED | | |
| A-3 ASSEMBLY | .4 (1/125) | .78 (1/65) |
| M MERCANTILE | .03 (1/500) | .03 (1/500) |
| S STORAGE | .03 (1/100) | .03 (1/100) |
| B BUSINESS | .48 (1/25, 1/50) | .48 (1/25, 1/50) |
| TOTAL REQUIRED | .94 (1) | 1.32 (2) |
| TOTAL PROVIDED | 5 | 6 |
| URINALS PROVIDED | 0 | --- |
| LAVATORIES REQUIRED | | |
| A-3 ASSEMBLY | .26 (1/200) | .26 (1/200) |
| M MERCANTILE | .02 (1/750) | .02 (1/750) |
| S STORAGE | .03 (1/100) | .03 (1/100) |
| B BUSINESS | .3 (1/40,1/80) | .3 (1/40,1/80) |
| TOTAL REQUIRED | .61 (1) | .61 (1) |
| TOTAL PROVIDED | 5 | 6 |
| DRINKING FOUNTAINS REQUIRED | | |
| A-3 ASSEMBLY | .1 (1/500) | .1 (1/500) |
| M MERCANTILE | .01 (1/1000) | .01 (1/1000) |
| S STORAGE | .01 (1/1000) | .01 (1/1000) |
| B BUSINESS | .12 (1/100) | .12 (1/100) |
| TOTAL REQUIRED | .24 (1) | .24 (1) |
| TOTAL PROVIDED | 1 | 1 |

| SECOND FLOOR OCCUPANT LOAD | MALE | FEMALE |
|---|---|---|
| A-3 ASSEMBLY - 66.48 (67) OCC. LOAD | 34 | 34 |
| S STORAGE - 1.89 (2) OCC. LOAD | 1 | 1 |
| B BUSINESS - 77.54 (78) OCC. LOAD | 39 | 39 |
| TOTAL | 74 | 74 |
| WATER CLOSETS REQUIRED | | |
| A-3 ASSEMBLY | .27 (1/125) | .52 (1/65) |
| S STORAGE | .01 (1/100) | .01 (1/100) |
| B BUSINESS | 1.56 (1/25,1/50) | 1.56 (1/25,1/50) |
| TOTAL REQUIRED | 1.84 (2) | 2.09 (3) |
| TOTAL PROVIDED | 3 | 3 |
| URINALS PROVIDED | 0 | --- |
| LAVATORIES REQUIRED | | |
| A-3 ASSEMBLY | .17 (1/200) | .17 (1/200) |
| S STORAGE | .01 (1/100) | .01 (1/100) |
| B BUSINESS | .98 (1/40,1/80) | .98 (1/40,1/80) |
| TOTAL REQUIRED | 1.16 (2) | 1.16 (2) |
| TOTAL PROVIDED | 3 | 3 |
| DRINKING FOUNTAINS REQUIRED | | |
| A-3 ASSEMBLY | .07 (1/500) | .07 (1/500) |
| S STORAGE | .01 (1/1000) | .01 (1/1000) |
| B BUSINESS | .39 (1/100) | .39 (1/100) |
| TOTAL REQUIRED | .47 (1) | .47 (1) |
| TOTAL PROVIDED | 0 | 0 |

## OCCUPANCY SCHEDULE.

| # | ROOM NAME | AREA | FUNCTION | OLF | OCC. LOAD |
|---|---|---|---|---|---|
| FIRST FLOOR | | | | | |
| 100 | VESTIBULE | 86 SF | | | |
| 101 | LOBBY | 625 SF | | | |
| 102 | INTAKE | 126 SF | BUSINESS | 150 SF | 0.84 |
| 103 | PROGRAM COPY | 120 SF | BUSINESS | 150 SF | 0.80 |
| 104 | STABLE FAM. | 100 SF | BUSINESS | 150 SF | 0.67 |
| 105 | STABLE FAM. | 101 SF | BUSINESS | 150 SF | 0.67 |
| 106 | STABLE FAM. | 101 SF | BUSINESS | 150 SF | 0.67 |
| 107 | STABLE FAM. | 100 SF | BUSINESS | 150 SF | 0.67 |
| 108 | WELLNESS | 100 SF | BUSINESS | 150 SF | 0.67 |
| 109 | WELLNESS | 100 SF | BUSINESS | 150 SF | 0.66 |
| 110 | WELLNESS | 134 SF | BUSINESS | 150 SF | 0.90 |
| 111 | CORR. | 384 SF | | | |
| 112 | IT WORKPLACE | 324 SF | BUSINESS | 150 SF | 2.16 |
| 113 | FIN. SECURE STORAGE | 222 SF | STORAGE | 300 SF | 0.74 |
| 114 | SECURE STORAGE | 205 SF | STORAGE | 300 SF | 0.68 |
| 115 | IT STORAGE | 93 SF | STORAGE | 300 SF | 0.31 |
| 116 | SERVER | 90 SF | | | |
| 117 | MECH. / ELEC. | 222 SF | | | |
| 118 | CORR. | 110 SF | | | |
| 119 | LOADING DOCK | 412 SF | STORAGE | 300 SF | 1.37 |
| 120 | LOCKERS | 108 SF | | | |
| 121 | INTERNVOL. STATIONS | 137 SF | | | |
| 122 | CORRIDOR | 317 SF | | | |
| 123 | ADA UNISEX | 55 SF | | | |
| 124 | UNISEX | 37 SF | | | |
| 125 | ADA UNISEX | 55 SF | | | |
| 126 | JAN. | 26 SF | | | |
| 127 | CLOSET | 40 SF | | | |
| 128 | STABLE FAM. | 112 SF | BUSINESS | 150 SF | 0.75 |
| 129 | VOLUNTEER COORD. | 112 SF | BUSINESS | 150 SF | 0.75 |
| 130 | ADA UNISEX | 55 SF | | | |
| 131 | UNISEX | 37 SF | | | |
| 132 | UNISEX | 38 SF | | | |
| 133 | UNISEX | 38 SF | | | |
| 134 | LAUNDRY | 50 SF | | | |
| 135 | CORR. | 310 SF | | | |
| 136 | CLOTHES PANTRY | 122 SF | BUSINESS | 150 SF | 0.81 |
| 137 | ADA SHOWER | 79 SF | | | |
| 138 | STORAGE | 73 SF | STORAGE | 300 SF | 0.24 |
| 139 | LACTATION | 63 SF | | | |
| 140 | HOTEL | 56 SF | | | |
| 141 | HOTEL | 56 SF | STORAGE | 150 SF | 0.37 |
| 142 | MAIL | 121 SF | BUSINESS | 150 SF | 0.81 |
| 143 | BREAK | 242 SF | | | |
| 144 | CORR. | 182 SF | | | |
| 145 | DONATION PANTRY | 1680 SF | MERCANTILE | 60 SF | 28.00 |
| 146 | SUPPLY/DIAPER STOR. | 261 SF | STORAGE | 300 SF | 0.87 |
| 147 | ADA UNISEX | 55 SF | | | |
| 148 | UNISEX | 37 SF | | | |
| 149 | CORR. | 433 SF | | | |
| 150 | MTG. / FOOD DIST. WAITING | 388 SF | ASSEMBLY (UNCON) | 15 SF | 25.89 |
| 151 | MEETING | 1126 SF | ASSEMBLY (UNCON) | 15 SF | 75.04 |
| 152 | CORRIDOR | 232 SF | | | |
| 153 | TABLE STOR. | 167 SF | BUSINESS | 150 SF | 1.11 |
| 154 | CHILD ADA UNISEX | 81 SF | BUSINESS | 150 SF | 0.54 |
| 155 | INTAKE | 114 SF | BUSINESS | 150 SF | 0.76 |
| 156 | FAMILY INTAKE / PLAYROOM | 384 SF | BUSINESS | 150 SF | 2.56 |
| E1 | ELEVATOR | 49 SF | | | |
| S11 | STAIR No. 1 | 261 SF | | | |
| S21 | STAIR No. 2 | 227 SF | | | |
| | | 11776 SF | | | 150.32 |
| SECOND FLOOR | | | | | |

## OCCUPANCY SCHEDULE.

| # | ROOM NAME | AREA | FUNCTION | OLF | OCC. LOAD |
|---|---|---|---|---|---|
| 200 | CORR. | 378 SF | | | |
| 201 | WAITING | 628 SF | | | |
| 202 | CORR. | Redundant Room | | | |
| 203 | CEO | 219 SF | BUSINESS | 150 SF | 1.46 |
| 204 | CPO | 214 SF | BUSINESS | 150 SF | 1.43 |
| 205 | CFO | 199 SF | BUSINESS | 150 SF | 1.33 |
| 206 | FINANCE | 102 SF | BUSINESS | 150 SF | 0.68 |
| 207 | FINANCE | 102 SF | BUSINESS | 150 SF | 0.68 |
| 208 | EXTERIOR DECK | 1004 SF | ASSEMBLY (UNCON) | 15 SF | 66.97 |
| 209 | ALCOVE | Redundant Room | | | |
| 210 | FINANCE | 101 SF | BUSINESS | 150 SF | 0.67 |
| 211 | HR OFFICE | 171 SF | BUSINESS | 150 SF | 1.14 |
| 212 | CORR. | 333 SF | | | |
| 213 | FIN. SECURE STOR. | 167 SF | BUSINESS | 150 SF | 1.11 |
| 214 | ADMIN. COPY | 148 SF | BUSINESS | 150 SF | 0.98 |
| 215 | CORR. | 161 SF | | | |
| 216 | DEV. TEAM | 119 SF | BUSINESS | 150 SF | 0.79 |
| 217 | DEV. TEAM | 124 SF | BUSINESS | 150 SF | 0.83 |
| 218 | DEV. TEAM | 123 SF | BUSINESS | 150 SF | 0.82 |
| 219 | CHIEF DEV. OFFICER | 199 SF | BUSINESS | 150 SF | 1.33 |
| 220 | DEV. TEAM STORAGE | 102 SF | BUSINESS | 150 SF | 0.68 |
| 221 | GED TESTING COMPUTER LAB | 326 SF | CLASSROOM | 20 SF | 16.32 |
| 222 | GED TRAINING CLASSROOM | 435 SF | CLASSROOM | 20 SF | 21.73 |
| 223 | SMALL MEETING RM. | 228 SF | BUSINESS | 150 SF | 1.52 |
| 224 | STORAGE | 203 SF | STORAGE | 300 SF | 0.68 |
| 225 | YOUTH EQUIV. | 132 SF | BUSINESS | 150 SF | 0.88 |
| 226 | YOUTH EQUIV. | 97 SF | BUSINESS | 150 SF | 0.65 |
| 227 | YOUTH EQUIV. | 100 SF | BUSINESS | 150 SF | 0.67 |
| 228 | YOUTH EQUIV. | 101 SF | BUSINESS | 150 SF | 0.67 |
| 229 | YOUTH EQUIV. | 100 SF | BUSINESS | 150 SF | 0.67 |
| 230 | YOUTH EQUIV. | 101 SF | BUSINESS | 150 SF | 0.67 |
| 231 | YOUTH EQUIV. | 100 SF | BUSINESS | 150 SF | 0.67 |
| 232 | YOUTH EQUIV. | 101 SF | BUSINESS | 150 SF | 0.67 |
| 233 | YOUTH EQUIV. | 100 SF | BUSINESS | 150 SF | 0.67 |
| 234 | YOUTH EQUIV. | 109 SF | BUSINESS | 150 SF | 0.73 |
| 235 | CORR. | 417 SF | | | |
| 236 | JAN. | 44 SF | | | |
| 237 | UNISEX | 46 SF | | | |
| 238 | UNISEX | 46 SF | | | |
| 239 | UNISEX | 46 SF | | | |
| 240 | HOTEL | 113 SF | BUSINESS | 150 SF | 0.76 |
| 241 | ADA UNISEX | 63 SF | | | |
| 242 | ADA UNISEX | 63 SF | | | |
| 243 | ADA UNISEX | 63 SF | | | |
| 244 | CORR. | 165 SF | | | |
| 245 | HOTEL | 79 SF | BUSINESS | 150 SF | 0.52 |
| 246 | HOTEL | 73 SF | BUSINESS | 150 SF | 0.49 |
| 247 | HEALTH LAC. | 61 SF | BUSINESS | 150 SF | 0.41 |
| 248 | SECURE STORAGE | 181 SF | STORAGE | 150 SF | 1.21 |
| 249 | PROGRAM COPY | 189 SF | BUSINESS | 150 SF | 1.26 |
| 250 | CORR. | 375 SF | | | |
| 251 | EARLY CHILDHOOD WORKSTATIONS | 516 SF | BUSINESS | 150 SF | 3.44 |
| 252 | CORR. | 323 SF | | | |
| 253 | YOUTH EQUIV. ADMIN. | 133 SF | BUSINESS | 150 SF | 0.89 |
| 254 | EARLY CHILD | 111 SF | BUSINESS | 150 SF | 0.74 |
| 255 | EARLY CHILD | 113 SF | BUSINESS | 150 SF | 0.75 |
| 256 | EARLY CHILD | 112 SF | BUSINESS | 150 SF | 0.74 |
| 257 | EARLY CHILD ADMIN. | 111 SF | BUSINESS | 150 SF | 0.74 |
| 258 | MEETING | 351 SF | BUSINESS | 150 SF | 2.34 |
| 259 | MEETING | 257 SF | BUSINESS | 150 SF | 1.71 |
| 260 | ELEC. | 56 SF | | | |
| 261 | BREAK | 286 SF | BUSINESS | 150 SF | 1.91 |
| 262 | ALCOVE | 58 SF | | | |
| E2 | ELEVATOR | 49 SF | | | |
| S12 | STAIR No. 1 | 245 SF | | | |
| S22 | STAIR No. 2 | 224 SF | | | |
| | | 11799 SF | | | 146.00 |
| | | 23575 SF | | | 296.32 |

## CODE REVIEW

**GOVERNING CODES**

| | |
|---|---|
| OHIO BUILDING CODE | 2024 |
| OHIO PLUMBING CODE | 2024 |
| OHIO MECHANICAL CODE | 2024 |
| NATIONAL ELECTRIC CODE | 2017 |
| OHIO ENERGY CODE | 2021 |
| OHIO FIRE CODE | 2025 |
| ACCESSIBILITY - ANSI A117.1 | 2009 |

**USE GROUPS**

| | | |
|---|---|---|
| PRIMARY | B | BUSINESS |
| ACCESSORY | S-1 | STORAGE |
| ACCESSORY | A-3 | ASSEMBLY |

**ALLOWABLE BUILDING HEIGHT & AREA**

| | | |
|---|---|---|
| CONSTRUCTION TYPE | IIB | |
| CLASSIFICATION | BUSINESS | |
| ALLOWABLE HEIGHT | 75'-0" | T504.3 |
| ALLOWABLE STORIES | 3 | T504.4 |
| ALLOWABLE AREA | 28,500 SQ.FT. | T506.2 |

**ACTUAL BUILDING HEIGHT & AREA**

| | |
|---|---|
| ACTUAL HEIGHT | 32'-0" |
| ACTUAL STORIES | 2 |
| ACTUAL AREA | |
| FIRST FLOOR | 13,022 SQ.FT. |
| SECOND FLOOR | 12,988 SQ.FT. |
| TOTAL | 26,010 SQ.FT. |

**OCCUPANT LOAD CALCULATION PER FLOOR**

FIRST FLOOR

| | |
|---|---|
| EXIT CAPACITY REQUIRED | = 151 OCCUPANTS |
| EXIT CAPACITY PROVIDED | = 680 OCCUPANTS |
| EXITS REQUIRED | = 2 |
| EXITS PROVIDED | = 3 |

SECOND FLOOR

| | |
|---|---|
| EXIT CAPACITY REQUIRED | = 146 OCCUPANTS |
| EXIT CAPACITY PROVIDED | = 403 OCCUPANTS |
| EXITS REQUIRED | = 2 |
| EXITS PROVIDED | = 2 |

**GENERAL**

| | |
|---|---|
| SPRINKLERED | YES |
| EXIT ACCESS TRAVEL DISTANCE: B | 300'-0" |
| COMMON PATH OF TRAVEL (W/SPRINKLERS) | 100'-0" |
| FIRE RESISTANCE RATING | TYPE IIB |
| PRIMARY STRUCTURAL FRAME | 0 HOURS |
| BEARING WALLS | 0 HOURS |
| NON-BEARING WALLS | 0 HOURS |
| FLOOR CONSTRUCTION | 0 HOURS |
| EXIT STAIRWAY ENCLOSURE | 0 HOURS |
| MISC SHAFT WALLS | 0 HOURS |
| ROOF CONSTRUCTION | 0 HOURS |
| EXTERIOR WALLS (>30'-0") | 0 HOURS |

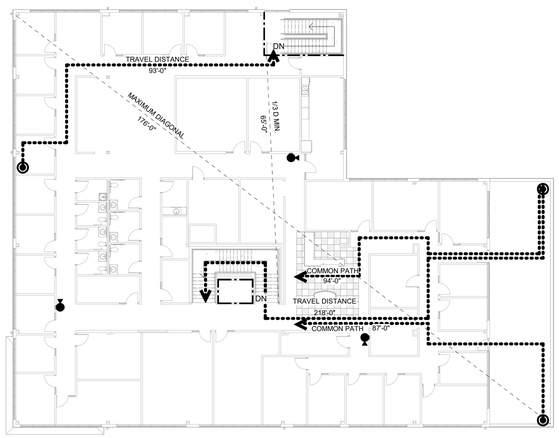
**INTERIOR FINISHES**

| | |
|---|---|
| ROOMS | CLASS C (FLAME SPREAD 76-200, SMOKE DEV. 0-450) |
| FLOOR FIXTURES | CLASS C (FLAME SPREAD 76-200, SMOKE DEV. 0-450) |
| CEILING | CLASS C (FLAME SPREAD 76-200, SMOKE DEV. 0-450) |
| EXIT STAIRWAYS | CLASS B (FLAME SPREAD 26-75, SMOKE DEV. 0-450) |

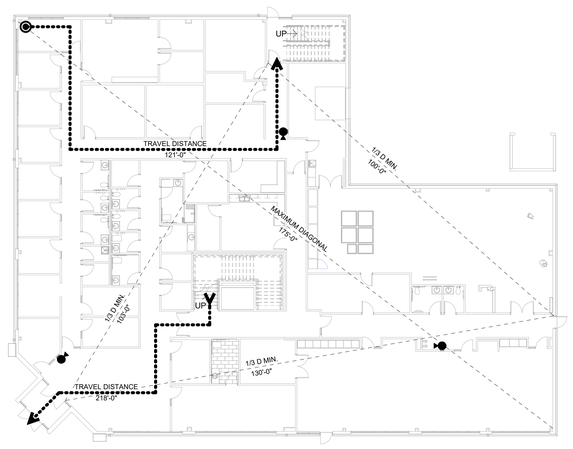
**PROVIDE DELEGATED DESIGN FOR AN EMERGENCY RESPONDER COMMUNICATION SYSTEM PER REQUIREMENTS OF 2024 OBC (F) 918.1.**

## LIFE SAFETY LEGEND

- EGRESS TRAVEL PATH
- FIRE EXTINGUISHER
- TRAVEL POINT
- 1 HOUR RATED ASSEMBLY
- 2 HOUR RATED ASSEMBLY




2 G003 **SECOND FLOOR PLAN - LIFE SAFETY**
1/16" = 1'-0"




1 G003 **FIRST FLOOR PLAN - LIFE SAFETY**
1/16" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

**REVISIONS**

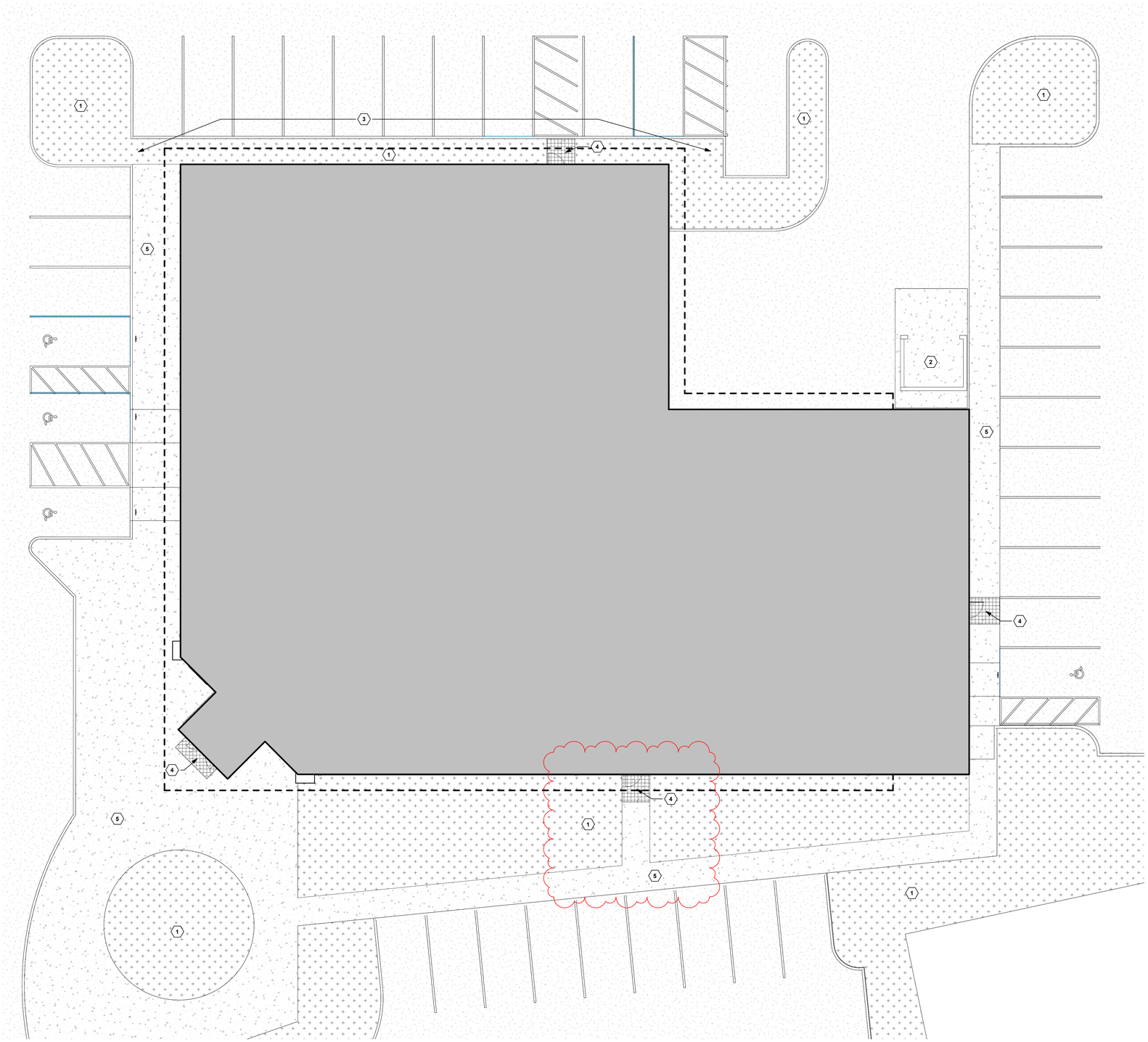
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 02-20-26 | ADDENDUM No. 1 |
| | 03-05-26 | PERMIT RESPONSE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

**LIFE SAFETY**

**G003**



1 A001 ARCHITECTURAL SITE PLAN
1/8" = 1'-0"

PLAN NORTH

## GENERAL NOTES

A. SITE INFORMATION SHOWN ON ARCHITECTURAL DRAWINGS IS FOR COORDINATION PURPOSES ONLY. REFER TO CIVIL ENGINEERS DRAWINGS FOR CONSTRUCTION. GENERAL CONTRACTOR TO COORDINATE ALL UTILITY BUILDING ENTRY LOCATIONS WITH CIVIL ENGINEER.

B. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

C. EXTERIOR WINDOW TYPES ARE INDICATED ON THE EXTERIOR ELEVATIONS ON SHTS. A201 AND A202.

## KEY NOTES

1. LANDSCAPING - SEE CIVIL/LANDSCAPING PLANS
2. TRASH ENCLOSURE - SEE SHT. A423 FOR DETAILS.
3. ALTERNATE: IN LIEU OF LANDSCAPING, PROVIDE SIDEWALK ALONG THIS SIDE OF THE BUILDING.
4. FROST SLAB LOCATION AT EXTERIOR DOOR - COORDINATE W/ CIVIL DWGS. - SEE DETAIL #5, SHT. A531.
5. CONCRETE SIDEWALK - SEE CIVIL DWGS. FOR DETAILS AND SLOPES.


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

model group

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

**REVISIONS**

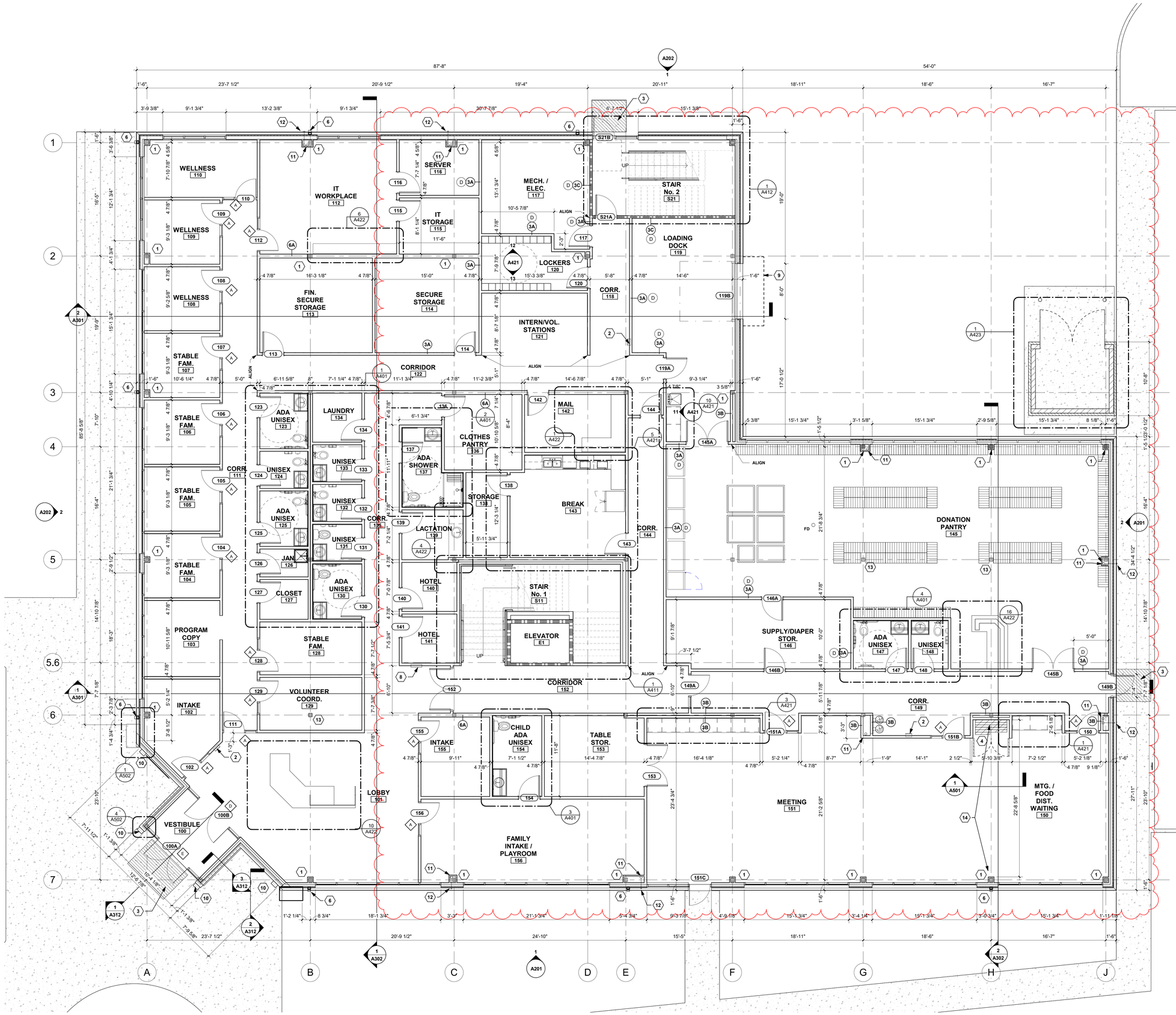
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

## ARCHITECTURAL SITE PLAN

# A001




1 FIRST FLOOR PLAN
A101 3/16" = 1'-0"

PLAN NORTH

## GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF GWB, SHEATHING, COLUMN CENTERLINE, FACE OF NOMINAL MASONRY/CONCRETE UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. REFER TO INTERIOR ELEVATIONS AND EQUIPMENT PLANS.

C. REFER TO SCHEDULE SHEETS FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES & EQUIPMENT.

D. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

E. ALL WALL TYPES ARE TO BE 3A, UNLESS NOTED OTHERWISE.

F. INTERIOR WINDOW TYPES ARE LOCATED ON THE PLANS. EXTERIOR WINDOW TYPES ARE INDICATED ON THE EXTERIOR ELEVATIONS ON SHTS. A201 AND A202.

G. SEE EXTERIOR ELEVATIONS A201 AND A202 FOR LOCATIONS OF EXTERIOR WALL PAK LIGHTING.

## KEY NOTES

1. HOLD WALL CONSTRUCTION TIGHT TO COLUMN.
2. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
3. PROVIDE FROST SLAB 5'-0" d. x DOOR WIDTH + 1'-0" w.
4. PAIRED PANEL OPERABLE PARTITION
   - BASIS OF DESIGN: MODERNFOLD ACOUSTI-SEAL ENCORE SERIES - STC 56 - FIELD VERIFY SPAN OF DOOR INFILL.
5. WALL MOUNTED PAINTED STEEL LADDER ACCESS TO 36"x36" ROOF HATCH.
6. 3x4 DOWNSPOUT PRE-FIN ALUM. DOWNSPOUT.
7. PROVIDE 2" THK. BLACK RUBBER MAT LANDING AND REDUCER STRIP.
8. PROVIDE WALL MOUNTED AUTOMATED EXTERNAL DEFIBRILLATOR (AED) UNIT.
9. 3'-0 x 10'-0" FABRIC CANOPY ON 1" ALUMINUM FRAME - SEE SECTION #4 ON A312.
10. WALL MOUNTED LIGHT FIXTURE.
11. HOLD WALL CONSTRUCTION TIGHT TO STORM DRAIN LINES.
12. EXTERIOR OVERFLOW NOZZLE. - SEE EXTERIOR ELEVATIONS.
13. PAINT STEEL COLUMN TO DECK.
14. CONCRETE FLOOR SLAB BELOW OPERABLE PARTITION MUST MEET 1/8" PER 10'-0" TOLERANCE.

## ANNOTATION LEGEND

| | |
|---|---|
| # | KEY NOTE |
| ROOM XXX | ROOM NAME<br>ROOM NUMBER |
| ### | DOOR NUMBER |
| #x | WALL TYPE |
| TA-## | TOILET ACCESSORY TYPE |
| X | WINDOW TYPE |

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

model group

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

### REVISIONS

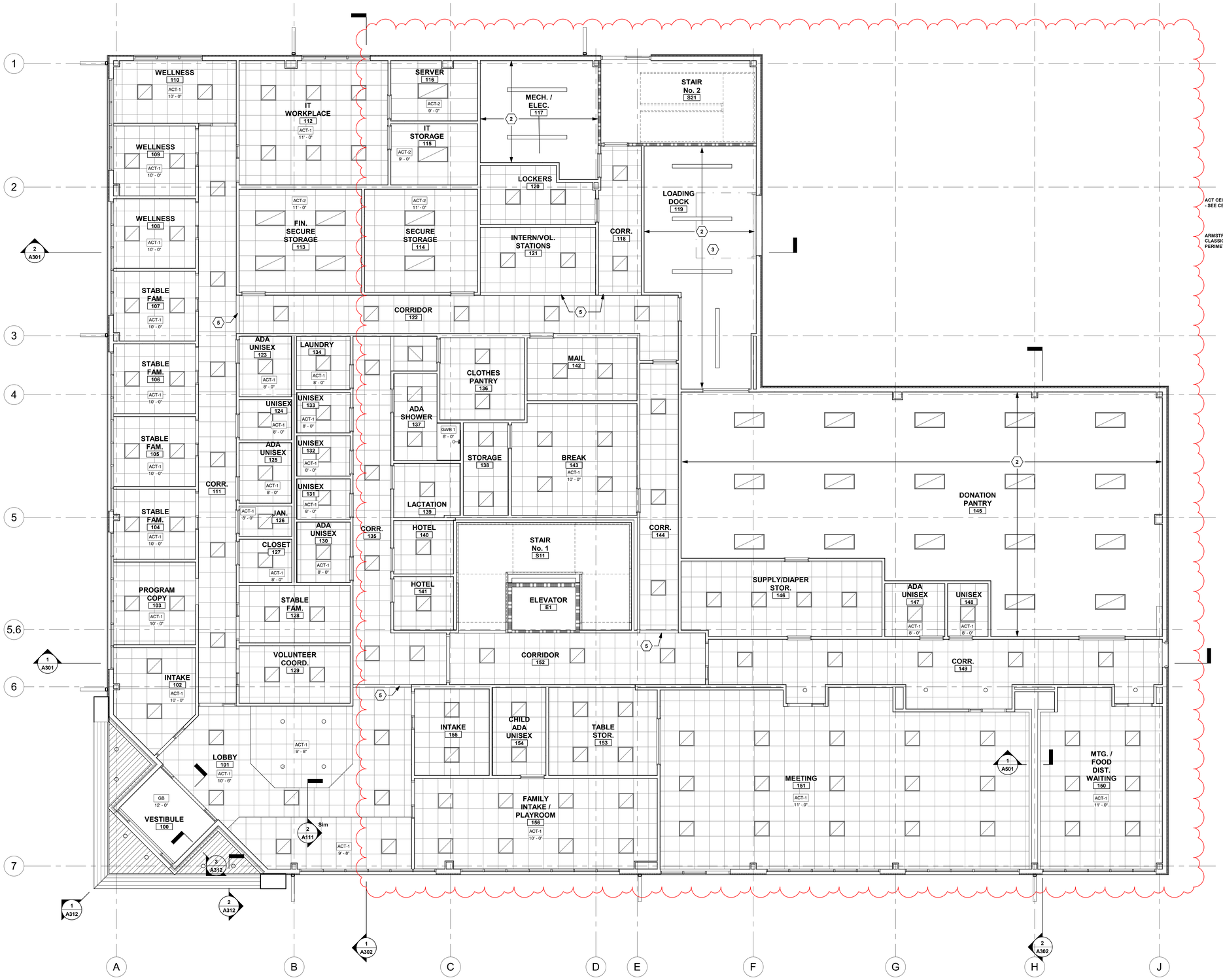
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

## FIRST FLOOR PLAN

# A101




1 A111 FIRST FLOOR CEILING PLAN
3/16" = 1'-0"

## GENERAL NOTES

A. CEILING DIMENSIONS ARE TO FINISHED FACE TYPE TRANSITIONS UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL CEILING MOUNTED EQUIPMENT AND ACCESSORIES.

C. LIGHTS FIXTURES IN GWB CEILINGS TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.

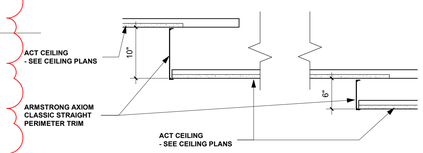
D. USE MOISTURE RESISTANT GWB IN ALL WET AREAS.

E. ALL CEILINGS TO BE 9'-0" AFF, ACT-1, UNLESS OTHERWISE NOTED.

F. LINES ON THE PLANS BETWEEN DIFFERING HEIGHTS, IMPLY A VERTICAL GYP. BD. SURFACE, U.N.O.

## KEY NOTES

1. 4" LED COVE LIGHT AT EDGE OF GYP. BD. CEILING - SEE DETAILS #9 AND #10 ON SHT. A411 FOR TYPICAL NOTES.
2. OPEN TO DECK/STRUCTURE ABOVE.
3. COORDINATE SPRINKLER DESIGN W/ OVERHEAD DOOR INSTALLATION AS REQUIRED.
4. OPEN TO ROOF DECK ABOVE FOR ROOF ACCESS/ LADDER.
5. GYP. BD. BULKHEAD @ 8'-8" AFF.
6. RATED SHAFT FOR MECH. DUCTS TO ROOF.




2 A111 SECTION DETAIL
1" = 1'-0"

NOTE: SEE CEILING PLANS FOR OTHER AXIOM SIZES BETWEEN CEILING ELEVATIONS

ATA ARCHITECTS
1003 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

model group

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 02-20-26 | ADDENDUM No. 1 |
| | 03-24-26 | ADDENDUM No. 5 |

PROJECT #: 25109

DRAWN: TDS CHECKED: RNH

FIRST FLOOR CEILING PLAN

A111

## GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF GWB, SHEATHING, COLUMN CENTERLINE, FACE OF NOMINAL MASONRY/CONCRETE UNLESS OTHERWISE NOTED.

B. SEE SHT. A603 FOR STOREFRONT, CURTAINWALL AND WINDOW TYPES. (X)

C. REFER TO SCHEDULE SHEETS FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES & EQUIPMENT.

D. PROVIDE ALL REQUIRED MFR'S TRIM AND ACCESSORIES FOR FIBER CEMENT SIDING AND METAL SIDING.

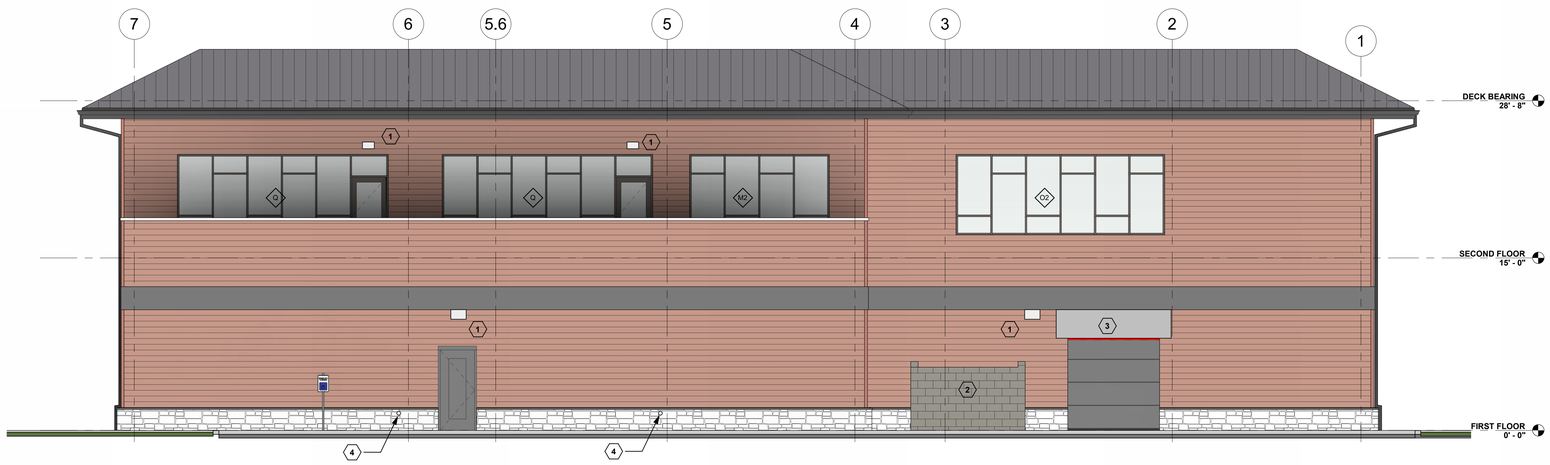
## KEY NOTES

1. EXTERIOR WALL PAK LIGHTING - SEE MEP
2. EXTERIOR TRASH ENCLOSURE - SEE DETAILS ON SHT. A423.
3. FABRIC CANOPY - SEE SECTION #4 ON SHT. A312.
4. ROOF DRAINAGE OVERFLOW NOZZLE IN STONE WAINSCOT. CENTER OF NOZZLE TO BE 18" AFF.
5. PROVIDE ON-SITE MOCK-UP OF EXTERIOR BUILDING ELEMENTS REPRESENTED INSIDE OF DASHED BOX, INDICATING ALL MATERIAL TRANSITIONS, SEALANTS AND FINISHES.

### EXTERIOR FINISH LEGEND

| MARK | GRAPHIC | MATERIAL | MANUFACTURER | MATERIAL TYPE |
|---|---|---|---|---|
| A | | STONE | XXX | XXX |
| B | | FIBER CEMENT SIDING | HARDI BOARD | 6" |
| C | | METAL SIDING | MAC METAL ARCHITECTURAL | 6" HARRYWOOD PLUS |

NOTE: PROVIDE ANTI-GRAFFITI COATING TO CAST STONE




2 A201 EXTERIOR ELEVATION - SOUTH
3/16" = 1'-0"

1 A201 EXTERIOR ELEVATION - WEST
3/16" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

### REVISIONS

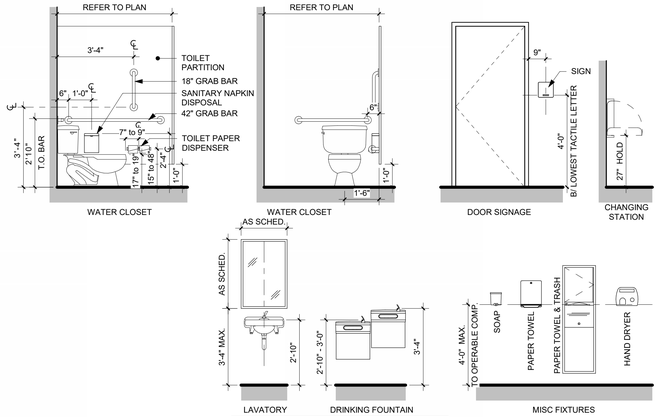
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

PROJECT #: 25109

DRAWN: TDS CHECKED: RNH

## EXTERIOR ELEVATIONS

# A201




FOR REFERENCE ONLY: GENERAL ACCESSIBILTY HEIGHTS AND CLEARANCES FOR COMMON FIXTURE TYPES. REFER TO TOILET ACCESSORY SCHEDULE

## TOILET ACCESSORY SCHEDULE

| TYPE | ITEM | MODEL | FINISH | NOTES |
|---|---|---|---|---|
| TA1 | TOILET PAPER DISPENSER | BOBRICK B-2740 | 630 | A |
| TA2 | SANITARY NAPKIN DISPENSER | BOBRICK B-270 | 630 | A |
| TA3 | PAPER TOWEL DISPENSER | BOBRICK B-9262 | 630 | A, B |
| TA4 | 36" GRAB BAR | BOBRICK B-5806 x 36 | 630 | A |
| TA5 | 42" GRAB BAR | BOBRICK B-5806 x 42 | 630 | A |
| TA6 | 18" GRAB BAR | BOBRICK B-5806 x 18 | 630 | A, C |
| TA7 | 24" x 36" MIRROR w STAINLESS STEEL FRAME | BOBRICK B-166 2436 | | |
| TA8 | 24" GRAB BAR | BOBRICK B-5806 x 24 | 630 | A, C |
| TA9 | SHOWER SEAT | BOBRICK B-5193 | | A, C |
| TA10 | SHOWER CURTAIN AND ROD | BOBRICK B-207 | 630 | A, C |
| TA11 | BABY CHANGING TABLE | KOALA - KB310 - SSWM | 630 | A, C |

NOTES

| | |
|---|---|
| A | PROVIDE BLOCKING IN WALL AS REQUIRED. |
| B | MOUNT w/ DISPENSING AT 44" A.F.F. |
| C | PROVIDED w/ SHOWER UNIT |
| D | |

## GENERAL NOTES

A. DIMENSIONS ARE TO FACE OF SHEATHING, COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.

B. PROVIDE BLOCKING IN PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT AND ACCESSORIES. REFER TO INTERIOR ELEVATIONS AND EQUIPMENT PLANS.

C. REFER TO SHEETS A601 AND A602 FOR INFORMATION ON DOOR, WALL, WINDOW, FIXTURES.

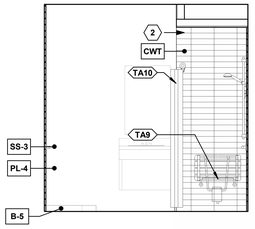
D. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

E. USE MOISTURE RESISTANT GYP. BD. IN ALL WET AREAS.

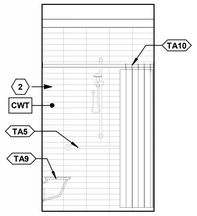
## KEY NOTES

1. ADA SIGNAGE AND 18" x 18" CLEAR FLOOR SPACE, CENTERED ON SIGNAGE.

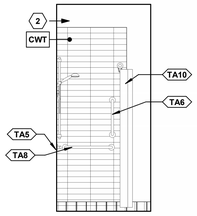
2. CERAMIC TILE TYPES VARY. SEE SHEET A601 FOR ADDITIONAL INFORMATION.



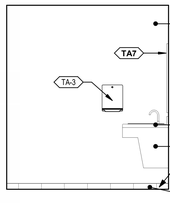

14 A401 INT. ELEV. - TYP. SHOWER
3/8" = 1'-0"



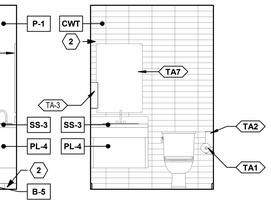

13 A401 INT. ELEV. - TYP. SHOWER
3/8" = 1'-0"



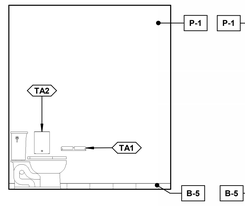

12 A401 INT. ELEV. - TYP. SHOWER
3/8" = 1'-0"



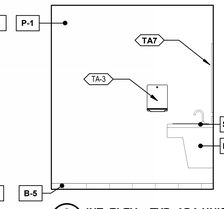

11 A401 INT. ELEV. - TYP. UNISEX
3/8" = 1'-0"



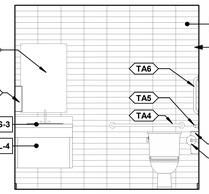

10 A401 INT. ELEV. - TYP. UNISEX
3/8" = 1'-0"



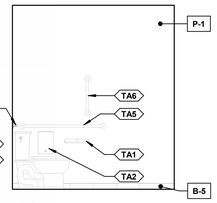

9 A401 INT. ELEV. - TYP. UNISEX
3/8" = 1'-0"



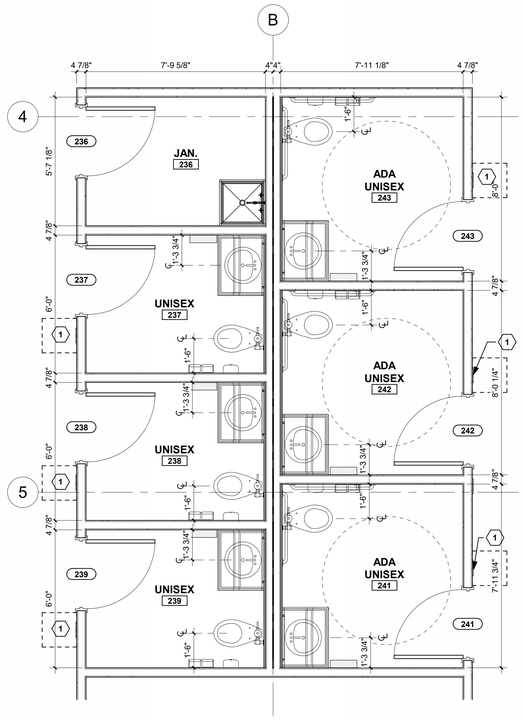

8 A401 INT. ELEV. - TYP. ADA UNISEX
3/8" = 1'-0"



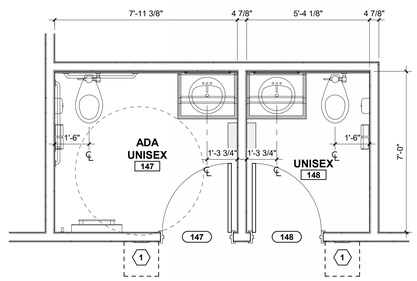

7 A401 INT. ELEV. - TYP. ADA UNISEX
3/8" = 1'-0"



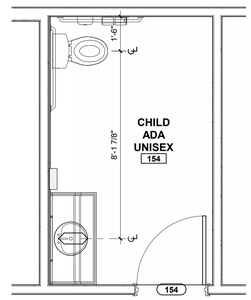

6 A401 INT. ELEV. - TYP. ADA UNISEX
3/8" = 1'-0"



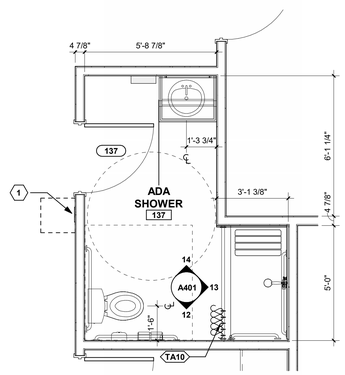

5 A401 ENLARGED FLOOR PLAN - RESTROOMS
3/8" = 1'-0"



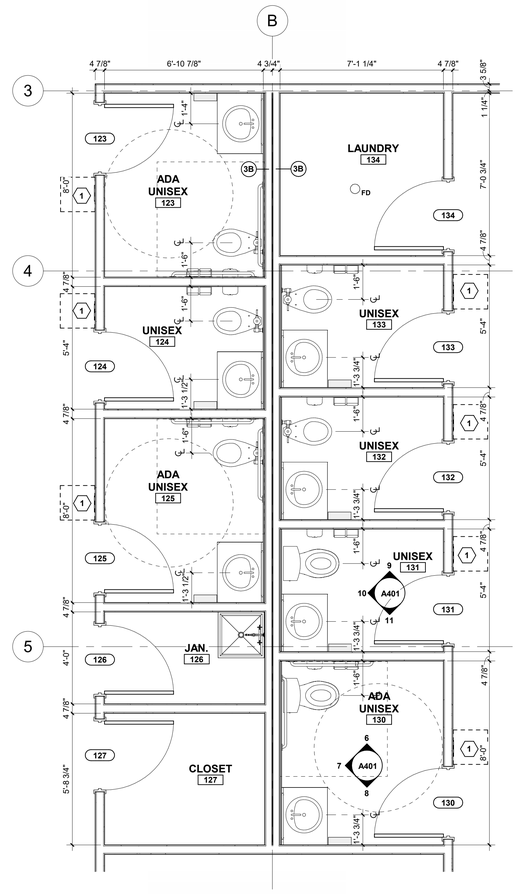

4 A401 ENLARGED FLOOR PLAN - RESTROOMS
3/8" = 1'-0"




3 A401 ENLARGED FLOOR PLAN - CHILD ADA UNISEX #155
3/8" = 1'-0"




2 A401 ENLARGED FLOOR PLAN - SHOWER #135
3/8" = 1'-0"




1 A401 ENLARGED FLOOR PLAN - RESTROOMS
3/8" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

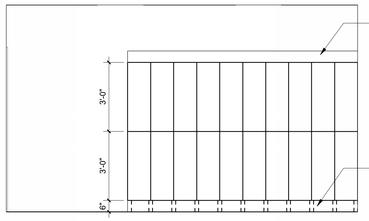
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 02-20-26 | ADDENDUM No. 1 |
| | 03-05-26 | PERMIT RESPONSE |
| | 03-24-26 | ADDENDUM No. 5 |

PROJECT #: 25109

DRAWN: TDS CHECKED: RNH

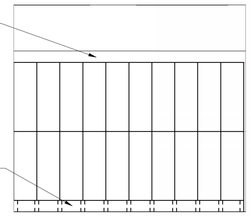
ENLARGED RESTROOM PLANS ELEVATIONS

A401



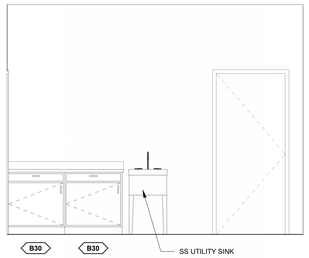

1'-0"w. x 3'-0"h. PRE-FIN METAL HALF LOCKERS W/ KEY LOCKS

**13 / A421 INT. ELEV. - LOCKERS #120**
3/8" = 1'-0"

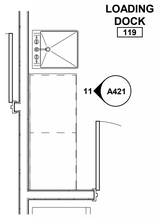



1'-0"w. x 3'-0"h. PRE-FIN METAL HALF LOCKERS W/ KEY LOCKS

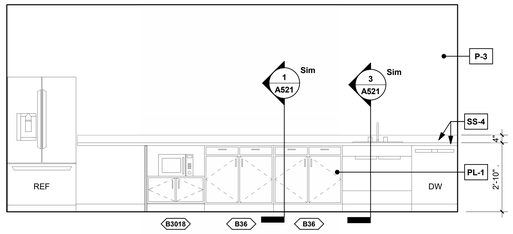
**12 / A421 INT. ELEV. - LOCKERS #120**
3/8" = 1'-0"



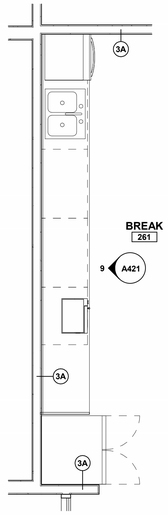

**11 / A421 INT. ELEV. - LOADING DOCK #119**
3/8" = 1'-0"




**10 / A421 PARTIAL FLOOR PLAN - LOADING DOCK #119**
3/8" = 1'-0"

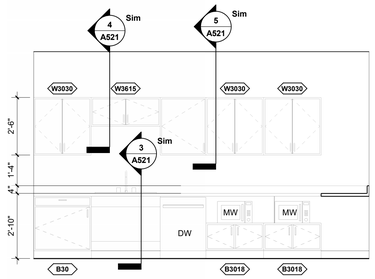



**9 / A421 INTERIOR ELEVATION - BREAK #261**
3/8" = 1'-0"

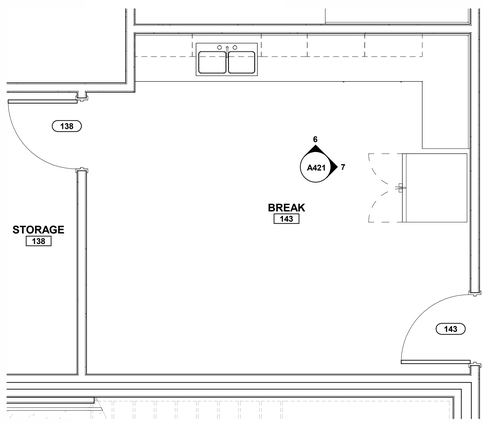



**8 / A421 ENLARGED FLOOR PLAN - BREAK #261**
3/8" = 1'-0"

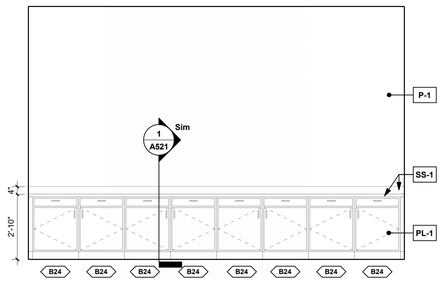
**7 / A421 INTERIOR ELEVATION - BREAK #143**
3/8" = 1'-0"




**6 / A421 INTERIOR ELEVATION - BREAK #143**
3/8" = 1'-0"

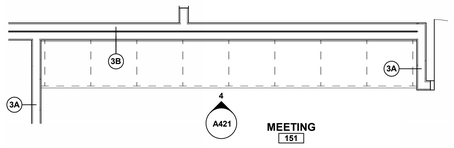



**5 / A421 ENALRGED FLOOR PLAN - BREAK #141**
3/8" = 1'-0"

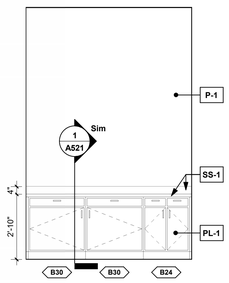



**4 / A421 INTERIOR ELEVATION - MEETING #151**
3/8" = 1'-0"

PROVIDE FILLER PANELS EA. SIDE AS REQUIRED

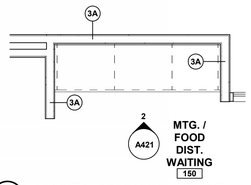



**3 / A421 ENLARGED FLOOR PLAN - MEETING #151**
3/8" = 1'-0"




**2 / A421 INT. ELEV. - MTG. / DIST. WAITING #150**
3/8" = 1'-0"

PROVIDE FILLER PANELS EA. SIDE AS REQUIRED




**1 / A421 ENLARGED FLOOR PLAN - MTG. / DIST. WAITING #150**
3/8" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

**REVISIONS**

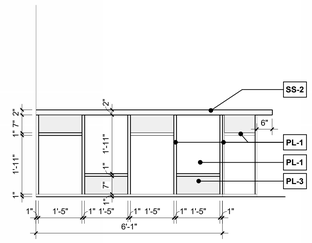
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

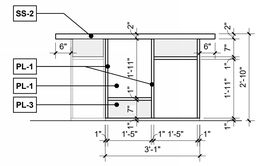
**DRAWN:** TDS **CHECKED:** RNH

## ENLARGED PLANS ELEVATIONS

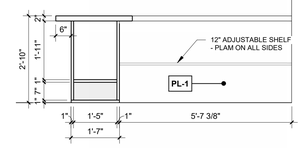
# A421



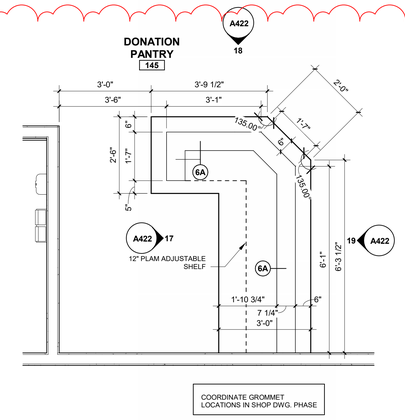

19 A422 INT. ELEV. - CHECKOUT COUNTER
1/2" = 1'-0"



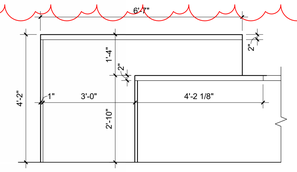

18 A422 INT. ELEV. - CHECKOUT COUNTER
1/2" = 1'-0"



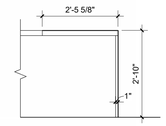

17 A422 INT. ELEV. - CHECKOUT COUNTER
1/2" = 1'-0"



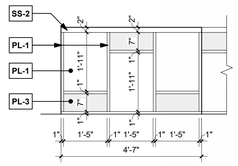

16 A422 ENLARGED FLOOR PLAN - CHECKOUT COUNTER
1/2" = 1'-0"



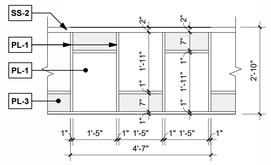

15 A422 INT. ELEV. - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



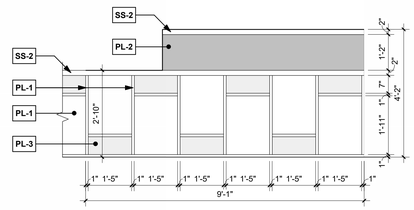

14 A422 INT. ELEV. - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



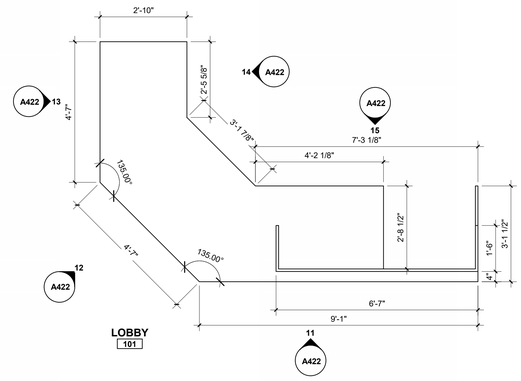

13 A422 INT. ELEV. RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



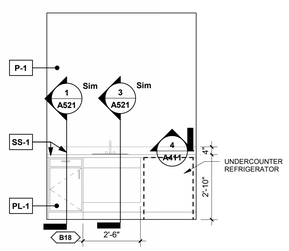

12 A422 INT. ELEV. - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



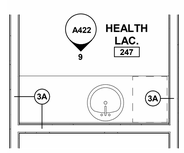

11 A422 INTERIOR ELEVATION - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



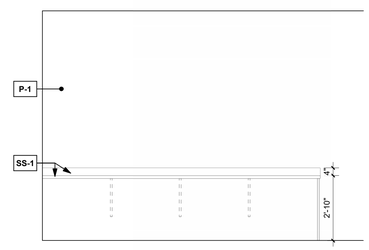

10 A422 ENLARGED PLAN - RECEPTION DESK - LOBBY #101
1/2" = 1'-0"



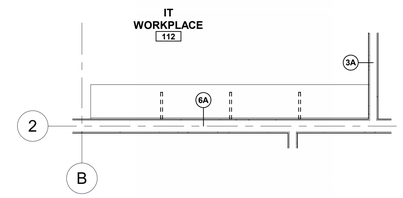

9 A422 INT. ELEV. - HEALTH LACTATION #247
3/8" = 1'-0"



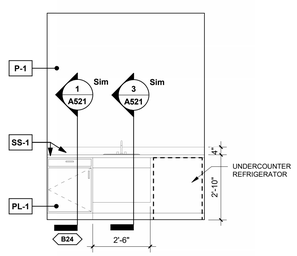

8 A422 ENLARGED PLAN - HEALTH LACTATION #247
3/8" = 1'-0"



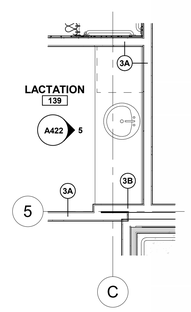

7 A422 INTERIOR ELEVATION - IT WORKPLACE #112
3/8" = 1'-0"



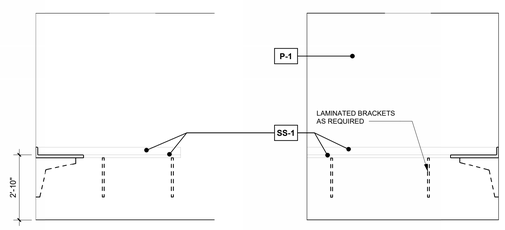

6 A422 ENLARGED FLOOR PLAN - IT WORKPLACE #112
3/8" = 1'-0"




5 A422 INT. ELEV. - LACTATION #137
3/8" = 1'-0"

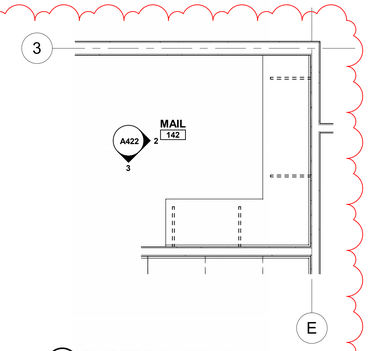



4 A422 ENLARGED PLAN - LACTATION #137
3/8" = 1'-0"




3 A422 INT. ELEV. - MAIL #142
3/8" = 1'-0"

2 A422 INT. ELEV. - MAIL #142
3/8" = 1'-0"




1 A422 ENLARGED PLAN - MAIL #142
3/8" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

REVISIONS

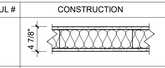
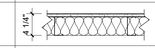
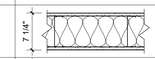
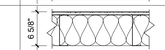
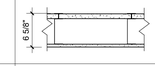
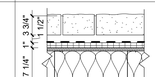
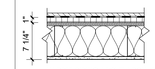
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

PROJECT #: 25109

DRAWN: TDS CHECKED: RNH

ENLARGED PLANS
ELEVATIONS

A422

| | TYPE | RATING / UL # | CONSTRUCTION | DESCRIPTION |
|---|---|---|---|---|
| INTERIOR PARTITIONS | 3A | N/A | 4 7/8"  | 3 5/8" METAL STUDS @ 16" O.C<br>5/8" TYPE 'X' GYPSUM BOARD<br>BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE<br>STC = 45-50 |
| INTERIOR PARTITIONS | 3B | N/A | 4 1/4"  | 3 5/8" METAL STUDS @ 16" O.C<br>5/8" TYPE 'X' GYPSUM BOARD<br>BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE<br>STC = 45-50 |
| INTERIOR PARTITIONS | 4A | (1) HR UL #415 | 4 5/8" | 1" GYPSUM BOARD SHAFTWALL LINER PANEL<br>4" METAL CH STUDS @ 24" O.C.<br>5/8" TYPE 'X' GYPSUM BOARD |
| INTERIOR PARTITIONS | 6A | N/A | 7 1/4"  | 5/8" TYPE 'X' GYPSUM BOARD ON EA. SIDE<br>6" METAL STUDS @ 16" O.C.<br>BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE |
| INTERIOR PARTITIONS | 6B | N/A | 6 5/8"  | 5/8" TYPE 'X' GYPSUM BOARD ON ONE SIDE<br>6" METAL STUDS<br>BATT INSUL. SOUND ATTENUATION WHERE INDICATED IN SCHEDULE |
| INTERIOR PARTITIONS | 6C | (1) HR UL #415 | 6 5/8"  | 1" GYPSUM BOARD SHAFTWALL LINER PANEL<br>6" METAL CH STUDS @ 24" O.C.<br>5/8" TYPE 'X' GYPSUM BOARD |
| EXTERIOR PARTITIONS | 6D | N/A | 1" 3 3/4" 1 1/2" 1" 7 1/4"  <br>**ARCH. CAST STONE UP TO STONE SILL OR FULL HT. - SEE ELEVATIONS** | ARCHITECTURAL CAST STONE<br>1 1/2" AIR SPACE<br>LIQUID WEATHER BARRIER<br>1" RIGID INSULATION BOARD<br>5/8" FRT EXT. PLY SHEATHING<br>6" METAL STUDS @ 16" O.C.<br>W/ 6" R-19 BATT INSUL.<br>5/8" TYPE 'X' GYPSUM BOARD |
| EXTERIOR PARTITIONS | 6D | N/A | 1" 7 1/4"  <br>**HARDIE SIDING ABOVE ARCH. CAST STONE - SEE ELEVATIONS** | HARDIE SIDING<br>LIQUID WEATHER BARRIER<br>1" RIGID INSULATION BOARD<br>5/8" FRT EXT. PLY SHEATHING<br>6" METAL STUDS @ 16" O.C.<br>W/ 6" R-19 BATT INSUL.<br>5/8" TYPE 'X' GYPSUM BOARD |

## GENERAL WALL TYPE NOTES:

A. NON-RATED WALL ASSEMBLIES SHALL NOT INTERRUPT ANY RATED WALL OR CEILING ASSEMBLIES.
B. SEE WALL SECTIONS WHERE APPLICABLE FOR ADDITIONAL INFORMATION REGARDING WALL CONSTRUCTION.
C. THERMAL AND SOUND INSULATION MATERIALS INCLUDING VAPOR RETARDATION WHEN USED SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 450.
D. PROVIDE GYPSUM CONTROL JOINTS AS INDICATED OR AT 25'-0" SPACING; VERTICALLY AND HORIZONTALLY. COORD. W/ ARCHITECT.
E. SEE ROOM FINISH SCHEDULE FOR THE ROOMS THAT REQUIRE SOUND ATTENUATION IN INTERIOR WALLS.
F. EXTEND WALL GYP. BD./FINISH MIN. 6" ABOVE HIGHEST ADJACENT CEILING.

## WALL TYPE MODIFIERS:

NOTE: WHEN A WALL TYPE MODIFIER IS ADD TO A BASE WALL TYPE, THE PROPERTIES OF THE MODIFIER TAKE PRECEDENCE OVER THE BASE WALL TYPE CONDITIONS.

(D) —— EXTEND PARTITION TIGHT TO RATED CEILING OR ROOF DECK

**FIRE RATED ASSEMBLIES:** REFER TO THE INDICATED UL DESIGN # IN THE UNDERWRITERS LABORATORIES INC. FIRE RESISTANCE DIRECTORY VOL. 1 & VOL. FOR CONDITIONS REQUIRED TO ACHIEVE THE RATING SPECIFIED (ATTACHMENT MEMBERS, SPACING, ORIENTATION, ETC.) IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE REQUIREMENTS ARE ADHERED TO.

## ROOM FINISH SCHEDULE

| ROOM NUM | ROOM NAME | FLOOR MATL | BASE MATL | WALLS N MATL | WALLS E MATL | WALLS S MATL | WALLS W MATL | CLG. MATL | CLG. HT. | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| 100 | VESTIBULE | WO-1 | | P-2 | P-2 | P-2 | P-2 | | 12'-0" | |
| 101 | LOBBY | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | | 7 |
| 102 | INTAKE | CPT-2 | B-4 | | P-1 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 103 | PROGRAM COPY | LVT-1 | B-2 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 10'-0" | 1 |
| 104 | STABLE FAM. | CPT-1 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 105 | STABLE FAM. | CPT-1 | B-4 | P-1 | P-5 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 106 | STABLE FAM. | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 107 | STABLE FAM. | CPT-1 | B-4 | P-1 | P-5 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 108 | WELLNESS | CPT-1 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 109 | WELLNESS | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| 110 | WELLNESS | CPT-1 | B-4 | P-1 | P-5 | P-6 | P-1 | ACT-1 | 10'-0" | 1 |
| 111 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 112 | IT WORKPLACE | LVT-1 | B-1 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 10'-0" | |
| 113 | FIN. SECURE STORAGE | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-2 | 11'-0" | |
| 114 | SECURE STORAGE | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-2 | 11'-0" | |
| 115 | IT STORAGE | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 11'-0" | |
| 116 | SERVER | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 117 | MECH. / ELEC. | SC-1 | B-4 | P-1 | P-1 | P-1 | P-1 | | | 9 |
| 118 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 119 | LOADING DOCK | SC-1 | B-4 | P-1 | P-1 | P-1 | P-1 | | | 9 |
| 120 | LOCKERS | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 121 | INTERN/VOL. STATIONS | CPT-1 | B-4 | P-2 | P-2 | P-2 | P-5 | ACT-1 | 9'-0" | |
| 122 | CORRIDOR | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 123 | ADA UNISEX | CT-1 | B-5 | P-1 | P-1 | CWT-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 124 | UNISEX | CT-1 | B-5 | P-1 | P-1 | CWT-2 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 125 | ADA UNISEX | CT-1 | B-5 | P-1 | P-1 | CWT-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 126 | JAN. | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 2 |
| 127 | CLOSET | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | |
| 128 | STABLE FAM. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-5 | ACT-1 | 9'-0" | 1 |
| 129 | VOLUNTEER COORD. | CPT-2 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 130 | ADA UNISEX | CT-1 | B-5 | CWT-2 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 131 | UNISEX | CT-1 | B-5 | CWT-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 132 | UNISEX | CT-1 | B-5 | CWT-2 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 133 | UNISEX | CT-1 | B-5 | CWT-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 134 | LAUNDRY | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | |
| 135 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 136 | CLOTHES PANTRY | LVT-1 | B-2 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 137 | ADA SHOWER | CT-1 | B-5 | CWT-2 | P-1 | P-1 | P-1 | ACT-1 / GB-1 | | 1, 5, 6, 7 |
| 138 | STORAGE | LVT-2 | B-3 | P-3 | P-3 | P-3 | P-3 | ACT-1 | 9'-0" | |
| 139 | LACTATION | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 140 | HOTEL | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 141 | HOTEL | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 142 | MAIL | CPT-1 | B-4 | P-2 | P-2 | P-2 | P-5 | ACT-1 | 9'-0" | |
| 143 | BREAK | LVT-2 | B-3 | P-3 | P-3 | P-3 | P-3 | ACT-1 | 10'-0" | |
| 144 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 145 | DONATION PANTRY | SC-1 | B-4 | P-1 | P-1 | P-1 | P-4 | | | 4, 8 |
| 146 | SUPPLY/DIAPER STOR. | SC-1 | B-4 | P-1 | P-1 | P-1 | P-4 | ACT-1 | 9'-0" | |
| 147 | ADA UNISEX | CT-1 | B-5 | P-1 | CWT-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 148 | UNISEX | CT-1 | B-5 | P-1 | CWT-2 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 149 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 150 | MTG. / FOOD DIST. WAITING | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 11'-0" | 1 |
| 151 | MEETING | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 11'-0" | 1 |
| 152 | CORRIDOR | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 153 | TABLE STOR. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 154 | CHILD ADA UNISEX | CT-1 | B-5 | CWT-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 155 | INTAKE | CPT-2 | B-4 | P-1 | P-5 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 156 | FAMILY INTAKE / PLAYROOM | CPT-4 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 10'-0" | 1 |
| E1 | ELEVATOR | LVT-1 | | | | | | | | |
| S11 | STAIR No. 1 | ST-1 | | | | | | | | |
| S21 | STAIR No. 2 | ST-1 | | | | | | | | |
| 200 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 201 | WAITING | LVT-1 / CPT-5 | B-4 | P-2 | P-2 | P-2 | P-2 | ACT-1 | --- | 7 |
| 202 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | | |
| 203 | CEO | CPT-1 | B-4 | P-1 | P-1 | P-5 | P-1 | ACT-1 | 9'-0" | 1 |
| 204 | CPO | CPT-1 | B-4 | P-1 | P-1 | P-4 | P-1 | ACT-1 | 9'-0" | 1 |
| 205 | CFO | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-6 | ACT-1 | 9'-0" | 1 |
| 206 | FINANCE | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-5 | ACT-1 | 9'-0" | 1 |
| 207 | FINANCE | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 208 | EXTERIOR DECK | | | | | | | ACT-1 | | |
| 209 | ALCOVE | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | | |
| 210 | FINANCE | CPT-1 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 211 | HR OFFICE | CPT-1 | B-4 | P-5 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 212 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 213 | FIN. SECURE STOR. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 214 | ADMIN. COPY | LVT-1 | B-2 | P-2 | P-5 | P-2 | P-5 | ACT-2 | 9'-0" | |
| 215 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 216 | DEV. TEAM | CPT-1 | B-4 | P-6 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 217 | DEV. TEAM | CPT-1 | B-4 | P-4 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 218 | DEV. TEAM | CPT-1 | B-4 | P-6 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 219 | CHIEF DEV. OFFICER | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 220 | DEV. TEAM STORAGE | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 221 | GED TESTING COMPUTER LAB | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 222 | GED TRAINING CLASSROOM | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 223 | SMALL MEETING RM. | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 224 | STORAGE | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-2 | 9'-0" | |
| 225 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 226 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 227 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-5 | ACT-1 | 9'-0" | 1 |
| 228 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 229 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-5 | ACT-1 | 9'-0" | 1 |
| 230 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 231 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-5 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 232 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-4 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 233 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-6 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 234 | YOUTH EQUIV. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-4 | ACT-1 | 9'-0" | 1 |
| 235 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 236 | JAN. | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 2 |
| 237 | UNISEX | CT-1 | B-5 | P-1 | P-1 | CWT-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 238 | UNISEX | CT-1 | B-5 | P-1 | P-1 | CWT-2 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 239 | UNISEX | CT-1 | B-5 | P-1 | P-1 | CWT-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 240 | HOTEL | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 241 | ADA UNISEX | CT-1 | B-5 | CWT-2 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 242 | ADA UNISEX | CT-1 | B-5 | CWT-1 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 243 | ADA UNISEX | CT-1 | B-5 | CWT-2 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 1, 5, 6 |
| 244 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 245 | HOTEL | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 246 | HOTEL | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 247 | HEALTH LAC | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 248 | SECURE STORAGE | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-2 | 9'-0" | |
| 249 | PROGRAM COPY | LVT-1 | B-2 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 250 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 251 | EARLY CHILDHOOD WORKSTATIONS | CPT-1 | B-4 | P-5 | P-1 | P-1 | P-1 | ACT-1 | 9'-6" | |
| 252 | CORR. | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 253 | YOUTH EQUIV. ADMIN. | CPT-1 | B-4 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| 254 | EARLY CHILD | CPT-1 | B-4 | P-6 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 255 | EARLY CHILD | CPT-1 | B-4 | P-1 | P-1 | P-4 | P-1 | ACT-1 | 9'-0" | 1 |
| 256 | EARLY CHILD | CPT-1 | B-4 | P-6 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 257 | EARLY CHILD ADMIN. | CPT-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 258 | MEETING | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 259 | MEETING | CPT-2 / CPT-3 / CPT-4 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | 1 |
| 260 | ELEC. | SC-1 | B-4 | P-1 | P-1 | P-1 | P-1 | ACT-1 | 9'-0" | |
| 261 | BREAK | LVT-2 | B-3 | P-3 | P-3 | P-3 | P-3 | ACT-1 | 9'-0" | |
| 262 | ALCOVE | LVT-1 | B-1 | P-2 | P-2 | P-2 | P-2 | ACT-1 | 9'-0" | |
| E2 | ELEVATOR | | | | | | | | | |
| S12 | STAIR No. 1 | ST-1 | | | | | | GB-1 | 10'-0" | |
| S22 | STAIR No. 2 | ST-1 | | | | | | | | 3 |

## MATERIAL SCHEDULE

| TAG | MATL | MFR | DESCRIPTION | SKU STYLE COLOR | NOTES |
|---|---|---|---|---|---|
| 01-CEILING | | | | | |
| ACT-1 | ACOUSTIC CEILING TILE | ARMSTRONG | CALLA 15/16" SQUARE TEGULAR SMOOTH 2822 | WHITE, 24" x 24" | |
| ACT-2 | ACOUSTIC CEILING TILE | ARMSTRONG | CALLA 15/16" SQUARE TEGULAR SMOOTH 2823 | WHITE, 24" x 48" | |
| GB | CEILING | | GYPSUM BOARD CEILING | CEILING WHITE | |
| 02-WALL | | | | | |
| CWT-1 | CERAMIC WALL TILE | HAMILTON PARKER | SPLASH | ATLANTIS BLUE | 3"X12" TOILET ROOM TILE WITH 3"X12" COVE BASE AND 3"X12" BULLNOSE, STACK BOND, GLOSSY |
| CWT-2 | CERAMIC WALL TILE | HAMILTON PARKER | SPLASH | SEDONA SUNSET | 3"X12" TOILET ROOM TILE WITH 3"X12" COVE BASE AND 3"X12" BULLNOSE, STACK BOND, GLOSSY |
| GR-1 | GROUT | HYDROMENT | EPOXY GROUT | H152 WHITE | WALL TILE GROUT, BASIS OF DESIGN |
| P-1 | PAINT | PPG | | PPG1025-1 COMMERCIAL WHITE | FIELD PAINT |
| P-2 | PAINT | PPG | | PPG1102-1 ENDURING ICE | RECEPTION, CORRIDOR |
| P-3 | PAINT | PPG | | PPG1020-2 MAYBE MUSHROOM | BREAK ROOMS |
| P-4 | PAINT | PPG | | PPG1193-7 CINNAMON STONE | ACCENT WALL |
| P-5 | PAINT | PPG | | PPG 1192-6 SUMMER SUNSET | ACCENT WALL |
| P-6 | PAINT | PPG | | PPG 1165-7 VICTORY BLUE | ACCENT WALL |
| P-7 | PAINT | PPG | | TBD | ACCENT WALL |
| 03-FLOOR | | | | | |
| CPT-1 | CARPET | INTERFACE | OPEN AIR 402 | 106741 NICKEL | ASHLAR |
| CPT-2 | CARPET | INTERFACE | OPEN AIR 403 | 106732 NICKEL | NON-DIRECTIONAL |
| CPT-3 | CARPET | INTERFACE | OPEN AIR 403 TRANSITION | 107116 NICKEL / COBALT | NON-DIRECTIONAL |
| CPT-4 | CARPET | INTERFACE | OPEN AIR 403 ACCENT | 107132 COBALT | NON-DIRECTIONAL |
| CPT-5 | CARPET | INTERFACE | THIRD SPACE 301 | 107838 NAVY | MONOLITHIC |
| CT-1 | CERAMIC TILE | CROSSVILLE | JAVA JOINT | TWO SUGARS | FLOOR APPLICATION, 12" x 24" FIELD TILE, VERTICAL ASHLAR, NO MORE THAN 1/3 OFFSET |
| GR-2 | GROUT | TEC | CERAMIC TILE GROUT | 908 DOVE GRAY | FLOOR TILE GROUT, BASIS OF DESIGN |
| LVT-1 | LUXURY VINYL TILE | INTERFACE | NATURAL WOODGRAINS LEVEL SET | A00209 MAHOGANY | ASHLAR WITH HERRINGBONE JOINTS AT CORRIDOR INTERSECTIONS |
| LVT-2 | LUXURY VINYL TILE | INTERFACE | STUDIO SET | A00713 SLATE | ASHLAR |
| SC-1 | SEALED CONCRETE | | | | ALTERNATE: POLISHED CONCRETE |
| ST-1 | STAIR TREAD | NORA | NORAMENT ARAGO STAIRTREADS | | STAIR TREADS AND MATCHING LANDING |
| WO-1 | WALK OFF | INTERFACE | SRB99 | 104922 MIDNIGHT | MONOLITHIC |
| 04-BASE | | | | | |
| B-1 | VINYL PROFILE BASE | JOHNSONITE | MILLWORK PROFILE BASE DELINEATE | 45 SANDALWOOD | LOBBY, CORRIDORS |
| B-2 | VINYL COVE BASE | JOHNSONITE | 1/4" COVE BASE | 45 SANDALWOOD | PAIR TO LVT-1 |
| B-3 | VINYL COVE BASE | JOHNSONITE | 1/4" COVE BASE | 11 CANVAS | PAIR TO LVT-2 |
| B-4 | VINYL COVE BASE | JOHNSONITE | 1/4" COVE BASE | TAS COLONIAL GREY | PAIR TO CPT, SC |
| B-5 | CERAMIC WALL BASE | HAMILTON PARKER | SPLASH | WHITE CAP | 5"X5" TILE WITH SCHLUTER COVE BASE AND SCHLUTER TRIM AT EXPOSED EDGES |
| 05-CASEWORK | | | | | |
| PL-1 | PLASTIC LAMINATE | WILSONART | | MANGALORE MANGO 7984-38, FINE VELVET FINISH | RECEPTION DESK, CASEWORK |
| PL-2 | PLASTIC LAMINATE | WILSONART | | INDIGO D379-60, MATTE FINISH | RECEPTION DESK |
| PL-3 | PLASTIC LAMINATE | WILSONART | | DRAGON FIRE 13088-60, MATTE FINISH | RECEPTION DESK |
| PL-4 | PLASTIC LAMINATE | WILSONART | | WHITE OAK PB WHEATON 8282K-0, TIMBERGRAIN FINISH | RESTROOM CASEWORK |
| SS-1 | SOLID SURFACE | CORIAN | | SPARKLING GRANITA | INTERIOR WINDOW SILLS, COUNTERS |
| SS-2 | SOLID SURFACE | CORIAN | | DESIGNER WHITE | RECEPTION DESK COUNTER |
| SS-3 | SOLID SURFACE | CORIAN | | NEUTRAL CONCRETE | RESTROOM COUNTER |
| SS-4 | SOLID SURFACE | CORIAN | | SAVANNAH | BREAK ROOM COUNTER |

## GENERAL ROOM FINISH NOTES

A. ALL INTERIOR WALLS & CEILINGS TO COMPLY W/ OBC CHAPTER 8, SECTION 803.
B. ALL INTERIOR FLOOR FINISHES TO COMPLY W/ OBC CHAPTER 8, SECTION 804.
C. PROVIDE BLOCKING AT METAL STUD PARTITION WALLS AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED EQUIPMENT & ACCESSORIES. REFER TO INTERIOR ELEVATION SHEETS AND ENLARGED PLANS.
D. ALL INTERIOR FLOOR FINISHES IN MEANS OF EGRESS AREAS TO ADDITIONALLY COMPLY W/ IBC 1003.4 REQUIRING SURFACES TO BE SLIP-RESISTANT & BE SECURELY ATTACHED TO THE FLOOR SUBSTRATE.
E. ALL VERTICAL INSIDE CORNERS OF WALL TILE, WALL TO FLOOR TRANSITIONS AND WALL TO GYP. BD. CEILING TRANSITIONS SHALL RECEIVE SEALANT IN LIEU OF GROUT - MATCH ADJACENT GROUT COLOR.
F. ALL VERTICAL OUTSIDE CORNERS OF WALL TILE AND TOP OF WAINSCOT TILE TO RECEIVE SCHLUTER TRIM - JOLLY.
G. PROVIDE CLEAR SEALER ON ALL GROUT JOINTS.
H. ALL WALL TILE GROUT SHALL BE UNSANDED AND SHALL HAVE A MAX 1/8" WIDTH.

ALL FLOOR TILE GROUT SHALL BE SANDED AND MAX 3/16" WIDTH.

J. SEE CEILING PLANS ON SHEETS A111 AND A112 FOR CEILINGS WITH MULTIPLE HEIGHTS.
K. SEE REFERENCED ENLARGED FLOOR PLANS FOR ADDITIONAL DIMENSIONS, NOTES AND WALL TYPES.
L. HOLD GYPSUM BOARD/FRAMING TIGHT TO COLUMNS AND STORM RISER PIPING WHERE INDICATED, U.N.O.
M. PROVIDE MOISTURE RESISTANT GYP. BD. ON ALL WET WALLS U.N.O.

## ROOM FINISH SCHEDULE NOTES

1. PROVIDE SOUND ATTENUATION IN INTERIOR WALLS AND ON CEILING OF THIS ROOM.
2. PROVIDE 4'-0" H. FRP PANELS ON SIDEWALLS OF FLOOR MOP SINK BASIN, w/ ALL EDGE TRIM AND SEALANT PER MFR. STD. DETAILS.
3. ALL EXPOSED STEEL SURFACES OF STAIR AND LANDING STRUCTURES AND STRINGER STEEL TO PAINTED - SEMI-GLOSS FINISH.
4. PAINT ALL DECK, STRUCTURE AND MECHANICAL DUCTWORK IN EXPOSED OPEN CEILING w/ DRY FALL PAINT.
5. PROVIDE DOOR THRESHOLD.
6. INSTALL CERAMIC TILE BASE AT GYP. BD. WALLS ONLY. CERAMIC WALL TILE AT WET WALLS TO EXTEND TO FINISH FLOOR.
7. CEILING HEIGHT VARIES, SEE CEILING PLAN FOR ADDITIONAL INFORMATION.
8. PROVIDE HIGH ABUSE GYP. BD. ON WALLS.
9. OPEN CEILING TO DECK.


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO ROBERT N. HUMASON 14056 REGISTERED ARCHITECT

### REVISIONS

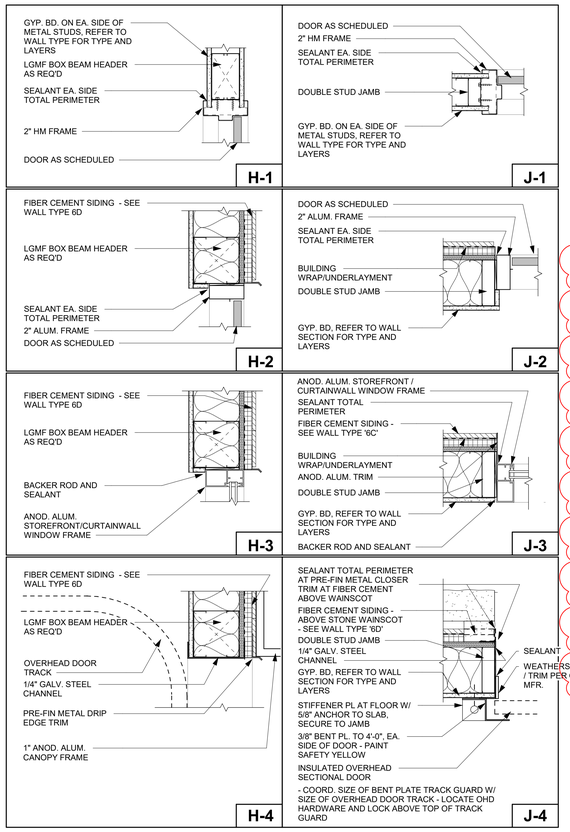
| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 02-20-26 | ADDENDUM No. 1 |
| | 03-24-26 | ADDENDUM No. 5 |

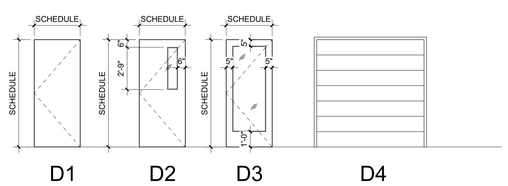
**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

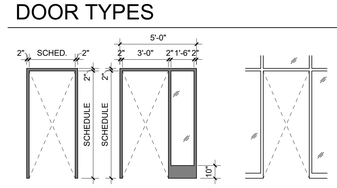
## ROOM FINISH SCHEDULE

# A601

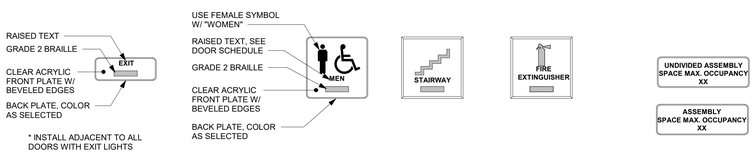



DOOR TYPES




FRAME TYPES




SIGNAGE

ATA_DOOR SCHEDULE_DUMMY

| # | LEAF COUNT | W | H | THICK | DOOR TYPE | DOOR MAT. | DOOR FIN. | GLASS TYPE | GLASS W | GLASS H | FRAME TYPE | FRAME MAT. | FRAME FIN. | DETAIL HEAD | DETAIL JAMB | FIRE RATING | THRESHOLD | SIGN TEXT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100A | | 6' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | ALUM. | ANOD. | | | | F3 | ALUM. | ANOD. | * | * | | FULL | | 3 |
| 100B | | 6' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | ALUM. | ANOD. | | | | F3 | ALUM. | ANOD. | * | * | | | EXIT | 3 |
| 102 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 104 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 105 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 106 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 107 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 108 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 109 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 110 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 111 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 112 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 113 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 114 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 115 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 116 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 117 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 119A | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 119B | | 8' - 0" | 8' - 0" | 0' - 3 5/32" | D4 | METAL | PRE-FIN | --- | | | --- | METAL | PRE-FIN | H-4 | J-4 | | | | |
| 120 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 123 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 124 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 125 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 126 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 127 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 128 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 129 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 130 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 131 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 132 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 133 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 134 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 136 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 137 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | SHOWER (ADA) | |
| 138 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 139 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 140 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 141 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 142 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 143 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 144 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 145A | | 6' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 145B | | 6' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | (OCCUPANCY SIGNAGE) | |
| 146A | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 146B | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 147 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 148 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 149A | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | WD | CLEAR | | | | F2 | HM | P | H-3 | J-3 | | FULL | | 3 |
| 149B | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | ALUM. | ANOD. | | | | F1 | ALUM. | ANOD. | H-2 | J-2 | | | | |
| 150 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | (OCCUPANCY SIGNAGE) | |
| 151A | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | (OCCUPANCY SIGNAGE) | |
| 151B | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | (OCCUPANCY SIGNAGE) | |
| 151C | | 3' - 0" | 7' - 11" | 0' - 1 3/4" | | | | | | | | | | | | | | | |
| 152 | | 6' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 153 | | 6' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 154 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 155 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 156 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 203 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 204 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 205 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 206 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 207 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 208A | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | ALUM. | CLEAR | | | | F3 | ALUM. | ANOD. | H-3 | J-3 | | FULL | | 3 |
| 208B | | 3' - 0" | 6' - 10" | 0' - 1 3/4" | D3 | ALUM. | CLEAR | | | | F3 | ALUM. | ANOD. | H-3 | J-3 | | FULL | | 3 |
| 210 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 211 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 213 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 216 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 217 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 218 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 219 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D2 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 220 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 221 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | (OCCUPANCY SIGNAGE) | |
| 222 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | (OCCUPANCY SIGNAGE) | |
| 223 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 224 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 225 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 226 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 227 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 228 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 229 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 230 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 231 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 232 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 233 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 234 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 236 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 237 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 238 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 239 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX | |
| 240 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 241 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 242 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 243 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | UNISEX (ADA) | |
| 245 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 246 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 247 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 248 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 254 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 255 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 256 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 258 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 259 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F2 | HM | P | H-1 | J-1 | | | | |
| 260 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | | |
| 261 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | WD | CLEAR | | | | F3 | HM | P | H-1 | J-1 | | | | |
| S21A | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | EXIT | |
| S21B | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D3 | ALUM. | ANOD. | | | | F3 | ALUM. | ANOD. | * | J-3 | | FULL | EXIT | |
| S22 | | 3' - 0" | 7' - 0" | 0' - 1 3/4" | D1 | WD | CLEAR | | | | F1 | HM | P | H-1 | J-1 | | | EXIT STAIRWAY DOWN | |

## GENERAL NOTES

A. THIS PROPERTY SHALL COMPLY WITH ALL REQUIREMENTS OF ICC A117.1-2017 PER 2017 ANSI.

B. DIMENSIONS ARE TO FACE OF GYP. BD., SHEATHING, COLUMN CENTERLINE, UNLESS OTHERWISE NOTED.

C. THE OPENING FORCE FOR INTERIOR SIDE-SWINGING DOORS WITHOUT CLOSERS SHALL NOT EXCEED A (5lb.) FORCE. FOR OTHER SIDE-SWINGING, SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A (15lb.) FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A (30lb.) FORCE. THE DOOR SHALL SWING TO A FULL OPEN POSITION WHEN SUBJECTED TO A (15lb.) FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE.

D. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE AN ADJACENT FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.

E. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

F. DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE. MOUNTED 30" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE MAXIMUM EFFORT REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS. WHERE PANIC HARDWARE IS INSTALLED, IT SHALL HAVE A MAXIMUM UNLATCHING FORCE NOT EXCEEDING 15 POUNDS OF PRESSURE.

G. ALL METAL DOOR FRAMES TO BE PROVIDED WITH SILENCERS.

H. THRESHOLDS ARE INDICATED AS HALF OR FULL SADDLE IN SCHEDULE. ALL THRESHOLDS SHALL BE ADA COMPLIANT. THRESHOLDS TO BE HEAVY DUTY ALUMINUM W/ CLEAR ANOD. FINISH AND SET IN FULL BED OF SEALANT.

## DOOR SCHEDULE NOTES

1. UNDERCUT DOOR 1"

2. ELECTRONIC KEYCARD (KEYFOB) HARDWARE BY TENANT VENDOR. GC TO PROVIDE ELECTRIC STRIKES AND MODIFY HARDWARE SET AS REQUIRED FOR ELECTRIC HARDWARE.

3. PROVIDE HEAD AND JAMB DETAILS PER MFR. STANDARD DETAILS.


ATA ARCHITECTS
1093 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

## DOOR SCHEDULES

# A602

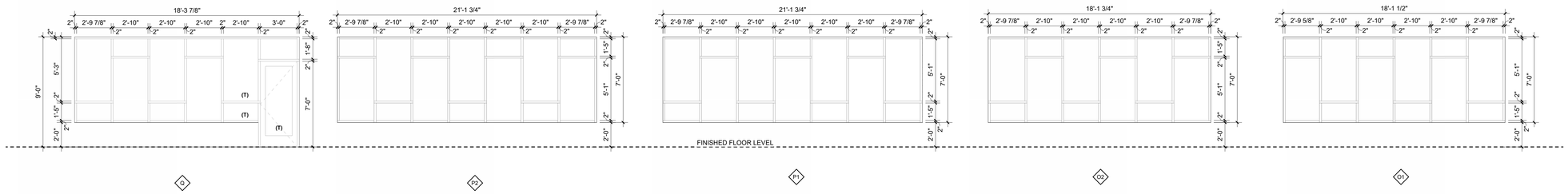
## GENERAL NOTES

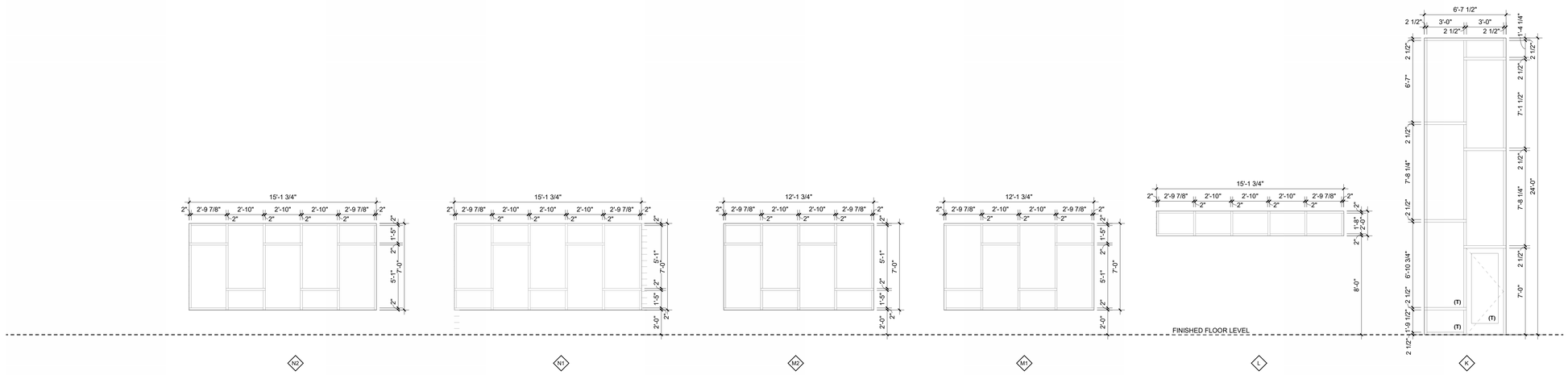
A. CONTRACTOR TO COORDINATE REQUIRED ROUGH OPENING SIZES.

B. SEE EXTERIOR ELEVATIONS ON A201 AND A202 FOR LOCATIONS OF ALL EXTERIOR WINDOW TYPES. SEE FLOOR PLANS A101 AND A102 FOR LOCATIONS OF ALL INTERIOR WINDOW TYPES.

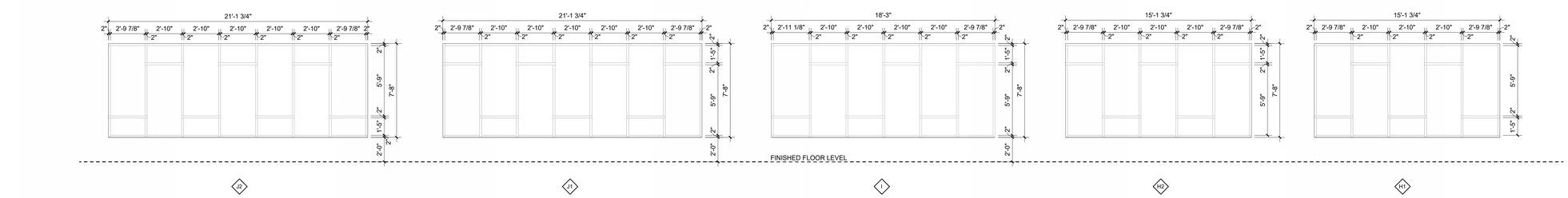
C. ALL EXTERIOR WINDOWS TO BE 1" INSULATED DOUBLE GLAZED w/ LOW-E COATING ON SECOND SURFACE.

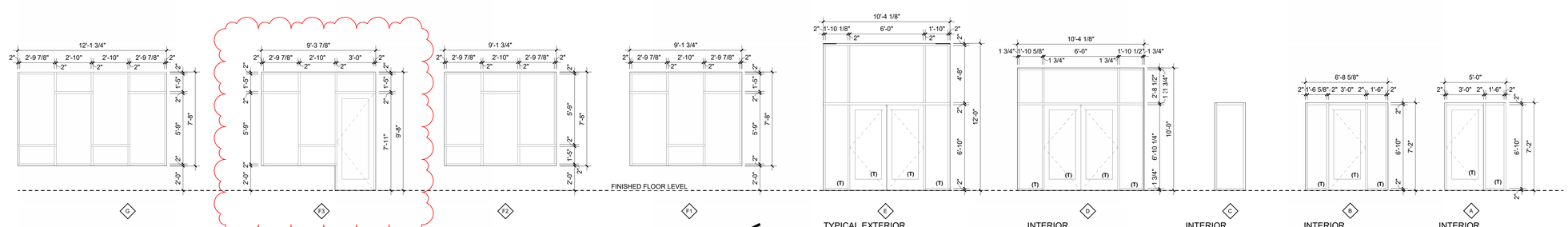
D. TEMPERED GLAZING IS INDICATED BY (T).




1" INSULATED CLEAR GLASS IN 2 1/2" x 5 1/2"
ANODIZED ALUMINUM CURTAINWALL,
w/ LOW-E COATING SECOND SURFACE.
.29 U-FACTOR
.39 SOLAR HEAT GAIN COEFFICIENT




TYPICAL EXTERIOR
WINDOW TYPES (E thru Q) (U.N.O.):
1" INSULATED CLEAR GLASS IN 2" x 4 1/2"
ANODIZED ALUMINUM STOREFRONT,
w/ LOW-E COATING SECOND SURFACE.
.29 U-FACTOR
.39 SOLAR HEAT GAIN COEFFICIENT

INTERIOR
1/4" CLEAR GLASS IN 1 3/4" x 4 1/2"
ANODIZED ALUMINUM STOREFRONT

INTERIOR
1/4" CLEAR GLASS IN 2" x 4 7/8"
HOLLOW METAL FRAME - SEE
HEAD AND JAMB DETAILS

INTERIOR
1/4" CLEAR GLASS IN 2" x 4 7/8"
HOLLOW METAL FRAME - SEE
HEAD AND JAMB DETAILS

INTERIOR
1/4" CLEAR GLASS IN 2" x 4 7/8"
HOLLOW METAL FRAME - SEE
HEAD AND JAMB DETAILS


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
ROBERT N. HUMASON
14056
REGISTERED ARCHITECT

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| | 01-09-26 | 80% PROGRESS |
| | 01-30-26 | PERMIT ISSUE |
| | 03-24-26 | ADDENDUM No. 5 |

**PROJECT #:** 25109

**DRAWN:** TDS **CHECKED:** RNH

## WINDOW TYPES

# A603

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | NEW SANITARY WASTE LATERAL. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. |
| 2 | NEW 2" DOMESTIC WATER BRANCH. REFER TO CIVIL SITE UTILITY PLAN FOR 1-1/2" METER AND TAP LOCATION. PROVIDE 1-1/2" BACKFLOW PREVENTER. BACKFLOW PREVENTER LOCATED IN HOT BOX ON SITE NEAR METER PIT. |
| 3 | VENT UP. REFER TO THE ABOVE SLAB SANITARY AND VENT PLAN FOR CONTINUATION. |
| 4 | 4" SANITARY WASTE STACK FROM UPPER LEVEL RESTROOM BANK. REFER TO THE ABOVE SLAB SANITARY AND VENT PLAN FOR CONTINUATION. |
| 5 | ROUTE DISCHARGE FROM ELEVATOR SUMP PUMP TO STORM MAIN. CONNECT PUMP DISCHARGE TO THE TOP SIDE OF THE STORM MAIN. |
| 6 | NEW STORM LATERAL. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. |
| 7 | STORM LEADER. REFER TO THE ABOVE SLAB SANITARY AND VENT PLAN FOR CONTINUATION. |
| 8 | NEW GAS SERVICE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. METER LOCATION AND SIZE TO BE COORDINATED WITH LOCAL UTILITY PROVIDER PRIOR TO CONSTRUCTION. REFER TO GAS LOAD SUMMARY FOR TOTAL BUILDING GAS LOAD. |
| 9 | FIRE SERVICE LINE. SHOWN FOR REFERENCE ONLY. REFER TO FIRE PROTECTION DRAWINGS. |

1 UNDERGROUND PLAN - PLUMBING
P100 3/16" = 1'-0"

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 3 | 02/20/26 | ADDENDUM No. 1 |
| 5 | 03/24/2026 | Addendum #5 |

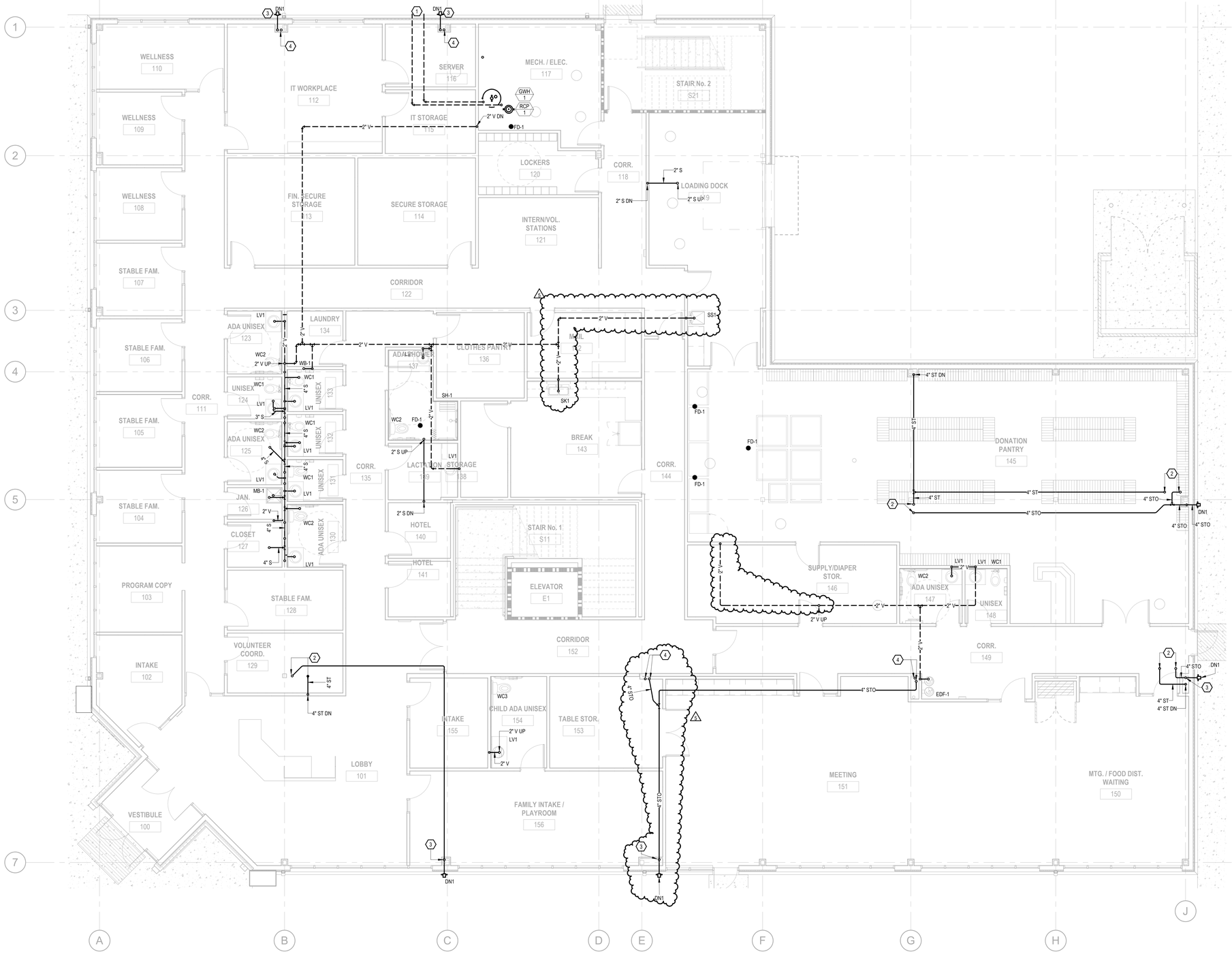
**PROJECT #:** 6568

**DRAWN:** JWG **CHECKED:** KAS

rtm engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.581.7050 F: 847.756.4186 WWW.RTMEC.COM

**FOUNDATION PLAN - PLUMBING**

**P100**




| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | WATER HEATER 3" PVC INTAKE AND FLUE. TERMINATE INTAKE AND FLUE PER MANUFACTURERS REQUIREMENTS. |
| 2 | PRIMARY AND SECONDARY STORM LEADER DOWN FROM LEVEL ABOVE. |
| 3 | SECONDARY STORM OVERFLOW DRAIN DOWN TO EXTERIOR NOZZLE OVERFLOW DISCHARGE NOZZLE IS TO BE MOUNTED AT 18" AFF. TO THE CENTER OF THE NOZZLE. |
| 4 | PRIMARY AND SECONDARY STORM LEADER DOWN FROM ABOVE. CONTINUE PRIMARY STORM DOWN TO BELOW SLAB. REFER TO THE BELOW SLAB PLANS FOR PRIMARY STORM CONTINUATION. |

1 FIRST FLOOR - SANITARY AND VENTING
P101 3/16" = 1'-0"

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 3 | 02/20/26 | ADDENDUM No. 1 |
| 5 | 03/24/2026 | Addendum #5 |

**PROJECT #:** 6568
**DRAWN:** JWG **CHECKED:** KAS

rtm engineering consultants
215 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM

**SANITARY AND VENTING - FIRST FLOOR**

**P101**

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | PRIMARY AND SECONDARY STORM DOWN FROM ROOF DRAIN ASSEMBLY. |
| 2 | VENT UP TO VENT THROUGH ROOF. REFER TO ISOMETRIC FOR SIZING. |

1 SECOND FLOOR - SANITARY AND VENTING
P102 3/16" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 5 | 03/24/2026 | Addendum #5 |

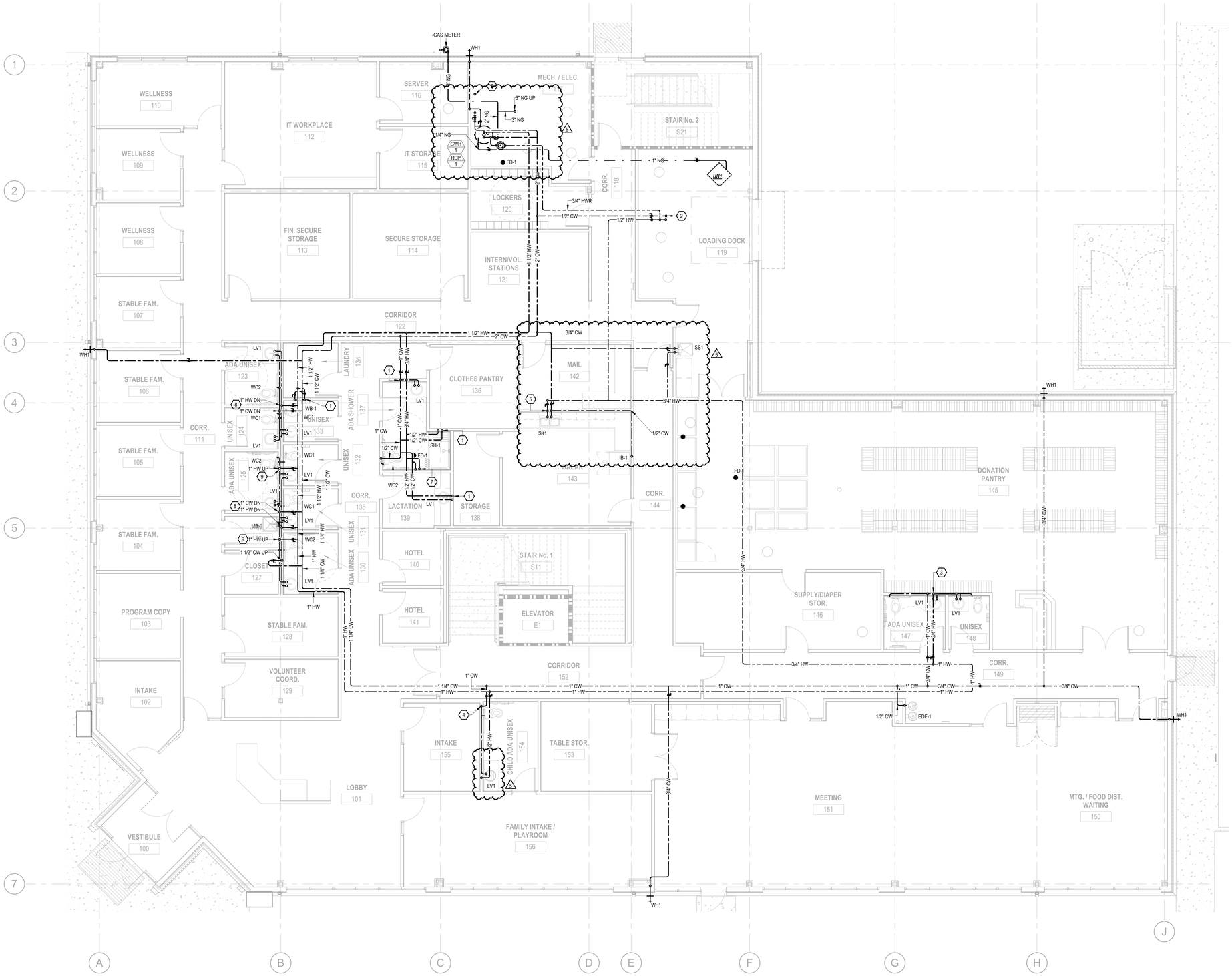
**PROJECT #:** 6568

**DRAWN:** JWG **CHECKED:** KAS


rtm engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4106 . WWW.RTMEC.COM


**SANITARY AND VENTING - SECOND FLOOR**

**P102**




1 FIRST FLOOR - DOMESTIC WATER
P201 3/16" = 1'-0"

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | 1/2" COLD AND HOT WATER DOWN TO FIXTURE. |
| 2 | 1/2" COLD AND HOT WATER UP TO FIXTURE LOCATED ABOVE. |
| 3 | 3/4" HOT WATER DOWN. PROVIDE 1/2" HOT WATER TO LAVATORY AND SINK. PROVIDE 1/2" COLD WATER TO WATER CLOSET. |
| 4 | 1" COLD WATER DOWN. PROVIDE 1/2" COLD WATER TO LAVATORY AND 1" COLD WATER TO FLUSH VALVE. |
| 5 | 1/2" COLD AND HOT WATER DOWN. PROVIDE 1/2" COLD AND HOT WATER TO SINK. CONTINUE 1/2" COLD WATER SUPPLY TO ICE MAKER SUPPLY BOX. |
| 6 | FIRE SERVICE LINE. SHOWN FOR REFERENCE ONLY. REFER TO FIRE PROTECTION DRAWINGS. |
| 7 | 3/4" COLD WATER AND 1/2" HOT WATER UP TO LEVEL ABOVE. |
| 8 | 1" COLD AND HOT WATER DOWN. PROVIDE 1/2" COLD AND HOT WATER TO EACH LAVATORY. PROVIDE 1/2" COLD WATER TO EACH WATER CLOSET. |
| 9 | 1" HOT WATER UP TO LEVEL ABOVE. REFER TO LEVEL ABOVE FOR CONTINUATION. |


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO SCOTT SEVERT STILKEY E-77755 REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

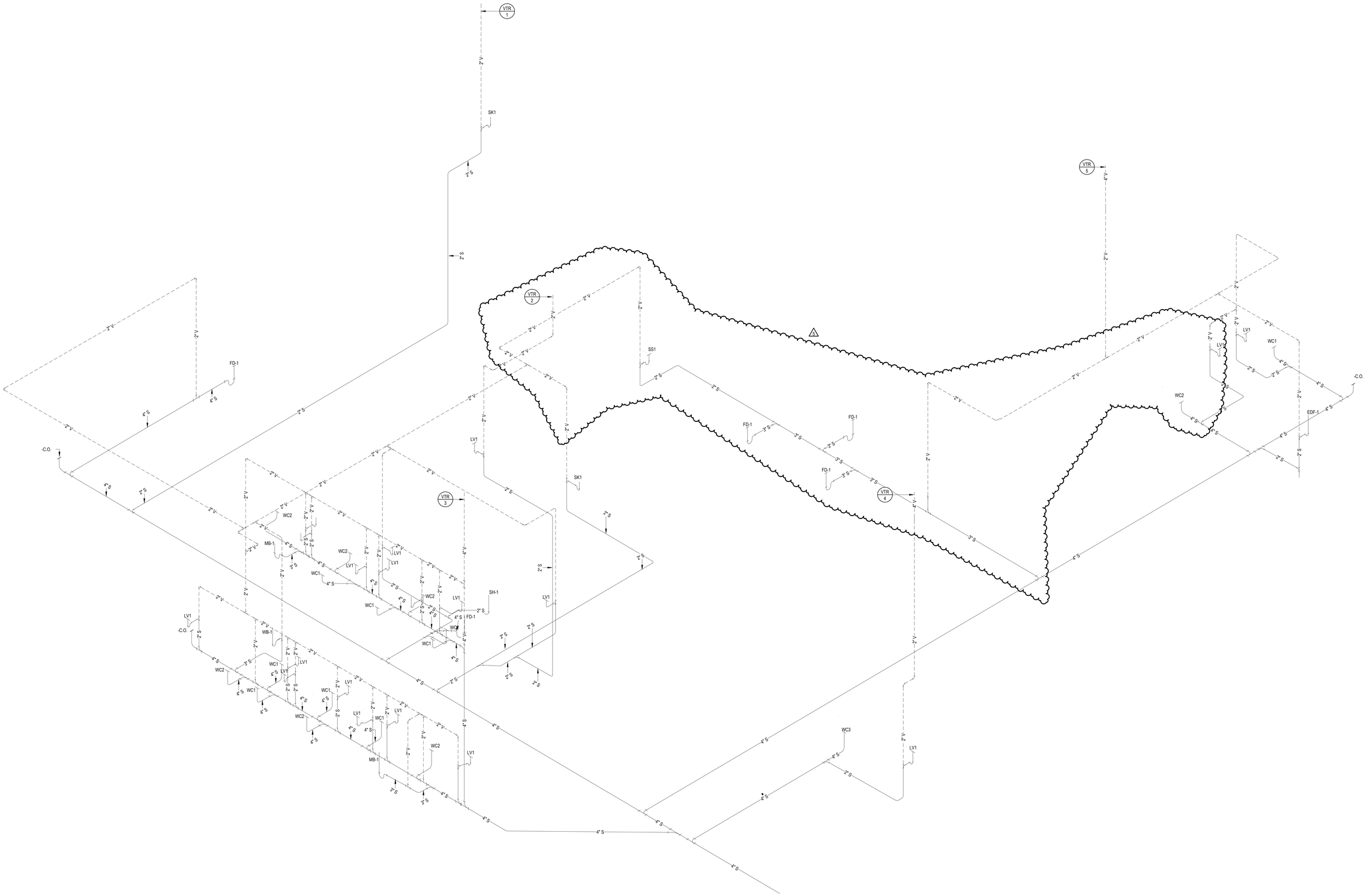
| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 3 | 02/20/26 | ADDENDUM No. 1 |
| 5 | 03/24/2026 | Addendum #5 |

**PROJECT #:** 6568
**DRAWN:** JWG **CHECKED:** KAS


rtm engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 | WWW.RTMEC.COM


**DOMESTIC WATER - FIRST FLOOR**

**P201**




SANITARY WASTE AND VENT
ISOMETRIC

1
P500

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 5 | 03/24/2026 | Addendum #5 |

**PROJECT #:** 6568

**DRAWN:** JWG **CHECKED:** KAS

rtm
engineering consultants
916 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4166 : WWW.RTMEC.COM

**PLUMBING ISOMETRIC RISER DIAGRAM**

**P500**

## MECHANICAL ABBREVIATIONS:

| | |
|---|---|
| AC | AIR CONDITIONER |
| ACH | AIR CHANGES PER HOUR |
| AF | AIR FILTER |
| AHU | AIR HANDLING UNIT |
| APD | AIR PRESSURE DROP |
| BAS | BUILDING AUTOMATION SYSTEM |
| BHP | BRAKE HORSEPOWER |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BTU(S) PER HOUR |
| CC | COOLING COIL |
| CF | CUBIC FEET |
| CFH | CUBIC FEET PER HOUR |
| CFM | CUBIC FEET PER MINUTE |
| CH | CHILLER |
| CO | CLEANOUT |
| CT | COOLING TOWER |
| CU | CONDENSING UNIT |
| CUH | CABINET UNIT HEATER |
| CV | CONSTANT AIR VOLUME |
| DAT | DISCHARGE AIR TEMPERATURE |
| DB | DECIBEL OR DRY BULB TEMPERATURE |
| DDC | DIRECT DIGITAL CONTROL |
| DH | DUCT HEATER |
| DX | DIRECT EXPANSION |
| EAT | ENTERING AIR TEMPERATURE |
| EER | ENERGY EFFICIENCY RATIO |
| EF | EXHAUST FAN |
| ESP | EXTERNAL STATIC PRESSURE |
| ET | EXPANSION TANK |
| EWT | ENTERING WATER TEMPERATURE |
| FA | FREE AREA |
| FC | FAN COIL |
| FD | FIRE DAMPER |
| FH | FUME HOOD |
| FPB | FAN POWERED BOX |
| FPM | FEET PER MINUTE |
| FPS | FEET PER SECOND |
| FS | FREEZE STAT |
| FSD | COMBINATION FIRE/SMOKE DAMPER |
| GA | GAUGE |
| GAL | GALLON |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| H | HUMIDISTAT |
| HC | HEATING COIL |
| HD | HOOD OR HEAT DETECTOR |
| HEPA | HIGH EFFICIENCY PARTICULATE AIR FILTER |
| HP | HORSEPOWER OR HEAT PUMP |
| HR | HOUR |
| HUM | HUMIDIFIER |
| HX | HEAT EXCHANGER |
| HZ | HERTZ |
| IN W.C. | INCHES WATER COLUMN |
| IN W.G. | INCHES WATER GAUGE |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| LAT | LEAVING AIR TEMPERATURE |
| LBS | POUNDS |
| LWT | LEAVING WATER TEMPERATURE |
| MBH | THOUSAND BTUH |
| NC | NORMALLY CLOSED |
| NK | NECK |
| NO | NORMALLY OPEN |
| P | PUMP |
| PA | PASCAL |
| PH | PHASE |
| PRV | PRESSURE REDUCING VALVE |
| PSIA | POUNDS PER SQUARE INCH ABSOLUTE |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| RF | RETURN FAN |
| RH | RELATIVE HUMIDITY |
| RHC | REHEAT COIL |
| RO | RELIEF OPENING |
| RPM | REVOLUTIONS PER MINUTE |
| SAT | SUPPLY AIR TEMPERATURE |
| SD | SMOKE DAMPER OR SMOKE DETECTOR |
| SF | SQUARE FEET OR SUPPLY FAN |
| SPS | STATIC PRESSURE SENSOR |
| T | THERMOSTAT |
| TD | TEMPERATURE DIFFERENCE |
| TO | TRANSFER OPENING |
| UC | UNDERCUT (DOOR) |
| UH | UNIT HEATER |
| VAV | VARIABLE AIR VOLUME |
| VD | VOLUME DAMPER |
| VFD | VARIABLE FREQUENCY DRIVE |
| VSD | VARIABLE SPEED DRIVE |
| VTR | VENT THROUGH ROOF |
| W | WATT |
| WB | WET BULB TEMPERATURE |
| WC | WATER COLUMN |
| WPD | WATER PRESSURE DROP |

## MECHANICAL EQUIPMENT:

VAV BOX WITH ELECTRIC REHEAT

## MECHANICAL TAGS:

VISIBLE DIMENSION

## x ## XX — DUCT DIMENSIONS (CLEAR, INTERNAL)

SYSTEM ABBREVIATION

TYPE:
S - SUPPLY
R - RETURN
E - EXHAUST
T - TRANSFER

SIZE (OPTIONAL)

X# (# x #) ### — DIFFUSER TAG

AIR FLOW RATE

MARK

X X — MECHANICAL EQUIPMENT TAG

NUMBER

## GENERAL ABBREVIATIONS:

| | |
|---|---|
| A/E | ARCHITECT/ENGINEER |
| ABV | ABOVE |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| ALT | ALTERNATE |
| ARCH | ARCHITECT |
| BFG | BELOW FINAL GRADE |
| BLDG | BUILDING |
| CLG | CEILING |
| DIR | DIRECT |
| DISC | DISCONNECT |
| DN | DOWN |
| EC | ELECTRICAL CONTRACTOR |
| ELEV | ELEVATION REFERENCE |
| EM | EMERGENCY |
| EP | EXPLOSION PROOF |
| EWC | ELECTRIC WATER COOLER |
| F | FLUSH |
| FBO | FURNISHED BY OTHERS |
| FIXT | FIXTURE |
| FLA | FULL LOAD AMPS |
| FLR | FLOOR |
| FS | FLOW SWITCH |
| GC | GENERAL CONTRACTOR |
| GRD | GROUND |
| GYP | GYPSUM BOARD |
| HC | HEATING CONTRACTOR |
| HVAC | HEATING & VENTILATING - AIR CONDITIONING |
| HVC | HEATING VENTILATING CONTRACTOR |
| HW | HEAVYWALL |
| ID | INDIRECT |
| IL | INTERLOCK |
| IU | IN UNIT |
| J-BOX | JUNCTION BOX |
| LG | LAY-IN GRID |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| LVT | LINE VOLTAGE THERMOSTAT |
| MC | MECHANICAL CONTRACTOR |
| MCA | MINIMUM CIRCUIT AMPS |
| MOCP | MAXIMUM OVERCURRENT PROTECTION |
| MTD | MOUNTED |
| NIC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| PLBG | PLUMBING CONTRACTOR |
| RM | ROOM |
| SURF | SURFACE |
| TS | TAMPER SWITCH |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| VC | VENTILATION CONTRACTOR |

## DUCT SYSTEM ABBREVIATIONS:

| | |
|---|---|
| CA | COMBUSTION AIR |
| CV | COMBUSTION VENT |
| EA-AII | EXHAUST AIR - AIRBORNE INFECTIOUS ISOLATION |
| EA-CH | EXHAUST AIR - CHEMICAL |
| EA-D | EXHAUST AIR - DRYER |
| EA | EXHAUST AIR - ENVIRONMENTAL |
| EA-K1 | TYPE 1 - KITCHEN EXHAUST |
| EA-K2 | TYPE 2 - KITCHEN EXHAUST |
| OA | OUTDOOR AIR |
| RA | RETURN AIR |
| SA | SUPPLY AIR |

## DUCT SYSTEMS:

| | |
|---|---|
| BD-# | BACKDRAFT DAMPER |
| FD-# | FIRE DAMPER |
| SD-# | SMOKE DAMPER |
| FSD-# | COMBINATION FIRE SMOKE DAMPER |
| MD-# | MOTORIZED DAMPER |
| | VOLUME DAMPER |
| | SIDEWALL GRILLE |
| | CEILING DIFFUSER, SUPPLY 4-WAY BLOW PATTERN |
| | CEILING DIFFUSER, SUPPLY 3-WAY BLOW PATTERN |
| | CEILING DIFFUSER, SUPPLY 2-WAY BLOW PATTERN |
| | CEILING DIFFUSER, SUPPLY 1-WAY BLOW PATTERN |
| | CEILING DIFFUSER, RETURN |
| | CEILING DIFFUSER, EXHAUST |
| UC | DOOR UNDERCUT |
| | DUCT SECTION, SUPPLY |
| | DUCT SECTION, RETURN |
| | DUCT SECTION, EXHAUST |
| | FLEXIBLE DUCT |
| | DIRECTION OF AIR FLOW |
| | DUCT SIZE TRANSITION |
| | RECTANGULAR ELBOW DOWN - SINGLE LINE |
| | ROUND ELBOW DOWN - SINGLE LINE |
| | RECTANGULAR ELBOW UP - SUPPLY |
| | RECTANGULAR ELBOW DOWN - SUPPLY |
| | ROUND ELBOW UP - SUPPLY |
| | ROUND ELBOW DOWN - SUPPLY |
| | RECTANGULAR ELBOW UP - RETURN |
| | RECTANGULAR ELBOW DOWN - RETURN |
| | ROUND ELBOW UP - RETURN |
| | ROUND ELBOW DOWN - RETURN |
| | RECTANGULAR ELBOW UP - EXHAUST |
| | RECTANGULAR ELBOW DOWN - EXHAUST |
| | ROUND ELBOW UP - EXHAUST |
| | ROUND ELBOW DOWN - EXHAUST |
| | MITERED ELBOW |
| | MITERED ELBOW WITH TURNING VANES |
| | ACCESS DOOR - TOP/SIDE |
| | AIR FLOW MEASURING STATION |
| | SOUND ATTENUATOR |
| | FLEXIBLE CONNECTION |

## HVAC SENSORS:

| | |
|---|---|
| SD | SMOKE DETECTOR |
| SP | STATIC PRESSURE |
| T | THERMOSTAT |
| TS | TEMPERATURE |

## PROJECT DESIGN CONDITIONS:

**CLIMATE CONDITIONS:**

| | |
|---|---|
| WEATHER STATION: | CINCINNATI, OH, USA |
| CLIMATE ZONE: | 4A |
| HEATING (DB): 99.6% | 0 °F |
| COOLING | 93 °F / 75 °F |

**BUILDING OPERATING HOURS: DETERMINED BY THE OWNER**

**SET POINTS:**

| | |
|---|---|
| COOLING (OCC/UNOCC): | 74 °F / 80 °F |
| HEATING (OCC/UNOCC): | 72 °F / 60 °F |

## MECHANICAL SHEET INDEX:


| SHEET NO. | SHEET NAME |
|---|---|
| M000 | MECHANICAL LEGEND |
| M101 | MECHANICAL FIRST FLOOR |
| M102 | MECHANICAL SECOND FLOOR |
| M103 | MECHANICAL ROOF |
| M300 | MECHANICAL DETAILS |
| M301 | MECHANICAL DETAILS |
| M302 | MECHANICAL DETAILS |


## GENERAL NOTES

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. THE SPACE ALLOWED FOR MECHANICAL (H/VAC, PLUMBING, FIRE PROTECTION) AND ELECTRICAL WORK ABOVE THE SUSPENDED CEILING IS CRITICAL AND REQUIRES COORDINATION BETWEEN TRADES. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY MATERIALS. DUCTWORK SHALL BE HUNG AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE UNLESS INDICATED OTHERWISE. REWORK OF PIPING, DUCTWORK, EQUIPMENT LOCATION, CONDUIT, ETC. AS A RESULT OF POOR PLANNING, COORDINATION, OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. PIPES/DUCTS/ETC. PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE SEALED WEATHER PROOF.
4. PROVIDE OPENING IN DRY WALL ABOVE CEILING TO ALLOW SUPPLY AIR TO RETURN TO HEAT PUMPS OR AIR HANDLERS.
5. REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER AND INSTALLED PER THE MANUFACTURER'S INSTALLER'S GUIDE. CONTRACTOR TO SUBMIT DRAWINGS SHOWING ROUTING. SEE SPECIFICATIONS.
6. THERMOSTATS & ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 48" A.F.F. TO THE TOP OF THERMOSTAT UNLESS NOTED OTHERWISE. DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT PRODUCING EQUIPMENT.
7. INSTALL H.V.A.C. SYSTEM IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
9. THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
10. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTORS BID. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO BID TIME. THE CONTRACTOR WILL BE HELD TO THE INTERPRETATION OF THE ENGINEER.
11. FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
13. ANY DAMAGE TO THE SITE (SIDEWALKS, CURBS, ETC) OR TO THE BUILDING AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE FIXED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.
16. REMOVE AND RE-INSTALL EXISTING LAY-IN CEILING AS REQUIRED TO COMPLETE ALL DEMOLITION AND NEW WORK. REPLACE CEILING TILES DAMAGED DURING CONSTRUCTION WITH NEW TILES MATCHING EXISTING.

## GENERAL NOTES (ROOF PROTECTION)

1. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF SEVEN DAYS PRIOR TO THE BEGINNING OF WORK THAT INVOLVES ACTIVITY ON THE ROOF.
2. TRAFFIC OVER THE ROOF SURFACES SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
3. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL INSPECT THE EXPOSED ROOFING MEMBRANE SYSTEM PRIOR TO THE START OF CONSTRUCTION. ANY PREVIOUS DAMAGE OR DEFECTS OF THE ROOFING SYSTEM SHALL BE DOCUMENTED BY WRITING AND/OR PHOTOGRAPHS.
4. THE CONTRACTOR SHALL PLACE MINIMUM OF 48" WIDE, 1/2" THICK APPROVED PROTECTION BOARDS (1 LAYER) MADE OF CONSTRUCTION GRADE PLYWOOD (ORIENTED STRAND BOARD WILL BE ACCEPTABLE) OVER ALL MEMBRANE ROOFING THAT WILL HAVE CONSTRUCTION TRAFFIC. THIS ROOF PROTECTION SHALL BE PROVIDED FOR THE ENTIRE AREA WITHIN THE LIMITS OF THE WORK (SEE DRAWINGS THIS SHEET). SUCH PROTECTION SHALL ALSO BE PROVIDED IN THE FORM OF A WALKWAY FROM THE ROOF ACCESS DOOR TO THE PROTECTED CONSTRUCTION AREA.
5. STORAGE OF MATERIALS ON EXISTING ROOF WILL NOT BE ALLOWED.
6. THE CONTRACTOR SHALL REMOVED DAILY ALL PROJECT DEBRIS FROM ALL ROOFING SURFACES.
7. THE CONTRACTOR SHALL ADVISE THE OWNER'S REPRESENTATIVE WHEN WORK ON THE ROOF IS COMPLETE AND THE PROTECTION BOARDS HAVE BEEN REMOVED. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL EXAMINE ALL ROOF SURFACES WHERE WORK HAS OCCURRED AND WILL REPAIR ALL DEFECTS NOT PREVIOUSLY DOCUMENTED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE BUILDING, ROOF, STRUCTURAL FRAMING, ETC. INCURRED DURING CONSTRUCTION.
9. CONTRACTOR SHALL UTILIZED A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO REPAIR ANY AND ALL DAMAGE INCURRED DURING THE COURSE OF CONSTRUCTION.
10. THE CONTRACTOR SHALL VERIFY WARRANTY OF THE MEMBRANE ROOFING SYSTEM. THE CONTRACTOR SHALL UTILIZE A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO PERFORM ALL ROOFING WORK AND TO REPAIR ANY AND ALL DAMAGE. UPON COMPLETION, THE CONTRACTOR SHALL OBTAIN A LETTER FROM THE ROOF MANUFACTURER STATING THAT THE EXISTING WARRANTY REMAINS IN FULL FORCE AND EFFECT.

## GENERAL NOTES (AIR SIDE)

1. NOTE, ALL DUCTWORK OFFSETS ARE NOT SHOWN. THE CONTRACTOR SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
2. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUCTION STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THESE CONSTRUCTION DOCUMENTS. MINIMUM DUCT GAUGE SHALL BE 24.
3. ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABRICATED WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF THE DUCT - WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS TURNING.
4. RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A STANDARDS AND AT EACH CHANGE IN DIRECTION.
5. PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES - EXCEPT THOSE LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DEVICE IN THESE CASES.)
6. PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THAT EXCEED 12" IN HEIGHT.
7. MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
8. NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR PLENUMS ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEMS OR PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOTORIZED OR AUTOMATIC DAMPER BLADES AND LINKAGES.
9. ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOOR STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF CEILING OR LIGHT FIXTURES.
10. FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIMUM LENGTH NECESSARY TO MAKE THE CONNECTION.
11. WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK OR PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFENERS, OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
12. FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHOWN ON THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTIONS ON THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-UP AIR UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVIDE STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS, EXHAUST FANS, SUPPLY FANS, AND DUST COLLECTOR.
13. PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRANCH CONNECTIONS TO THE MAIN DUCT.
14. ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT THAT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPRING RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE.
15. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWORK WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE. FIRE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER. ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WORDS "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SHALL NOT BE LESS THAN 1/2 INCH IN HEIGHT.
16. THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USED AS A RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS EXTEND TO THE CONSTRUCTION ABOVE, OPENINGS SHALL BE PROVIDED IN THE PARTITION ABOVE THE CEILING.
17. DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE NET FREE AREA. WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SHEET METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LINER.
18. AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING.
19. ALL DUCT RUNOUTS TO AIR DEVICES ARE TO BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
20. CONTRACTOR SHALL BALANCE EACH AREA OF COMPLETED WORK. THE CONTRACTOR SHALL BALANCE SUPPLY, RETURN, AND EXHAUST AIR FLOWS AT EACH AIR DEVICE AFFECTED BY RENOVATION TO QUANTITY INDICATED ON THE DRAWINGS.


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT BEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568

**DRAWN:** RTT **CHECKED:** SSS


rtm engineering consultants
915 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.736.4188 : WWW.RTMEC.COM

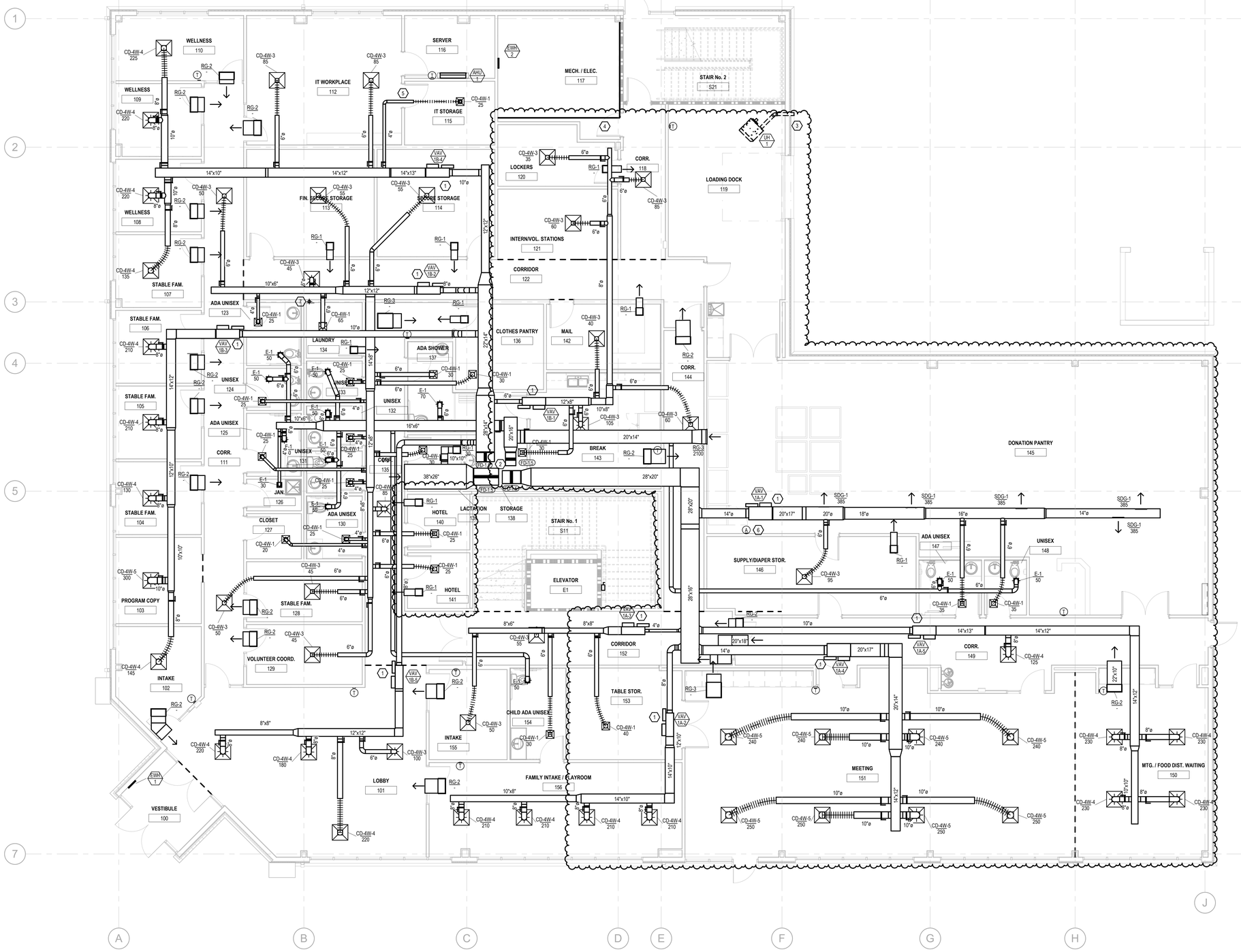

**MECHANICAL LEGEND**

**M000**

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | HVAC EQUIPMENT SHALL BE CONNECTED TO AND CONTROLLED BY THE BAS SYSTEM. REFER TO BAS SYSTEM SPECIFICATIONS FOR CONNECTION, POINTS, AND CONTROL REQUIREMENTS. |
| 2 | SMOKE DAMPERS ARE NOT REQUIRED FOR SHAFT PENETRATIONS PER 2024 OHIO MECHANICAL CODE SECTION 607.5.5 EXCEPTION 6: SMOKE DAMPERS ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OF THE BUILDING CODE. |
| 3 | ROUTE FLUE PIPE TO EXTERIOR WALL. THE PENETRATION MUST MEET THE FLOOWING REQUIREMENT: THE VENT SYSTEM SHALL TERMINATE NOT LESS THAN 4 FEET BELOW, 4 FEET HORIZONTALLY FROM OR 1 FOOT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO THE BUILDING. |
| 4 | ROUTE 3/4" CONDENSATE DRAIN LINE TO MECHANICAL ROOM FLOOR DRAIN. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. REFER TO HILTI DETAIL FOR THROUGH WALL PENETRATION DETAIL. |
| 5 | UNDERCUT DOOR 1" ABOVE FINISHED FLOOR TO ALLOW FOR RETURN AIR FROM THE ROOM. |
| 6 | PROVIDE AVERAGING SENSOR IN PANTRY. CONNECT TO MAIN THERMOSTAT IN ROOM. |
| 7 | DUCT DRYER EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP |

## GRILLE, REGISTERS, AND DIFFUSER SCHEDULE

| TAG | AIR STREAM | STYLE | MOUNTING TYPE | INLET SIZE (IN) DIA. | INLET SIZE (IN) HEIGHT | INLET SIZE (IN) WIDTH | FRAME SIZE HEIGHT | FRAME SIZE WIDTH | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CD-4W-1 | SUPPLY | 4-WAY DIFFUSER | CEILING | 6" | | | 1' - 0" | 1' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| CD-4W-3 | SUPPLY | 4-WAY DIFFUSER | CEILING | 6" | | | 2' - 0" | 2' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| CD-4W-4 | SUPPLY | 4-WAY DIFFUSER | CEILING | 8" | | | 2' - 0" | 2' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| CD-4W-5 | SUPPLY | 4-WAY DIFFUSER | CEILING | 10" | | | 2' - 0" | 2' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| E-1 | EXHAUST | EXHAUST GRILLE | CEILING | | 6" | 6" | 0' - 7" | 0' - 7" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| LD-1 | SUPPLY | LINEAR DIFFUSER | CEILING | 10" | | | 6' - 0" | 0' - 3" | TITUS | FL-10 | CONTINOUS SLOT/ PATTERN CONTROLLER |
| RG-1 | RETURN | RETURN GRILLE | CEILING | | 10" | 10" | 0' - 11" | 0' - 11" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| RG-2 | RETURN | RETURN GRILLE | CEILING | | 10" | 22" | 0' - 11" | 1' - 11" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| RG-3 | RETURN | RETURN GRILLE | CEILING | | 22" | 22" | 1' - 11" | 1' - 11" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| SDG-1 | SUPPLY | DOUBLE DEFECTION SPIRAL DUCT | DUCT | | 16" | 6" | 1' - 6" | 0' - 8" | TITUS | S300FL | STANDARD FINISH # 26 WHITE |




1 M101 MECHANICAL FIRST FLOOR PLAN

3/16" = 1'-0"

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77755
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 5 | 03/24/2026 | Addendum #5 |

**PROJECT #:** 6568

**DRAWN:** RTT **CHECKED:** SSS

rtm engineering consultants
519 MONROE(TN) | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 | WWW.RTMEC.COM

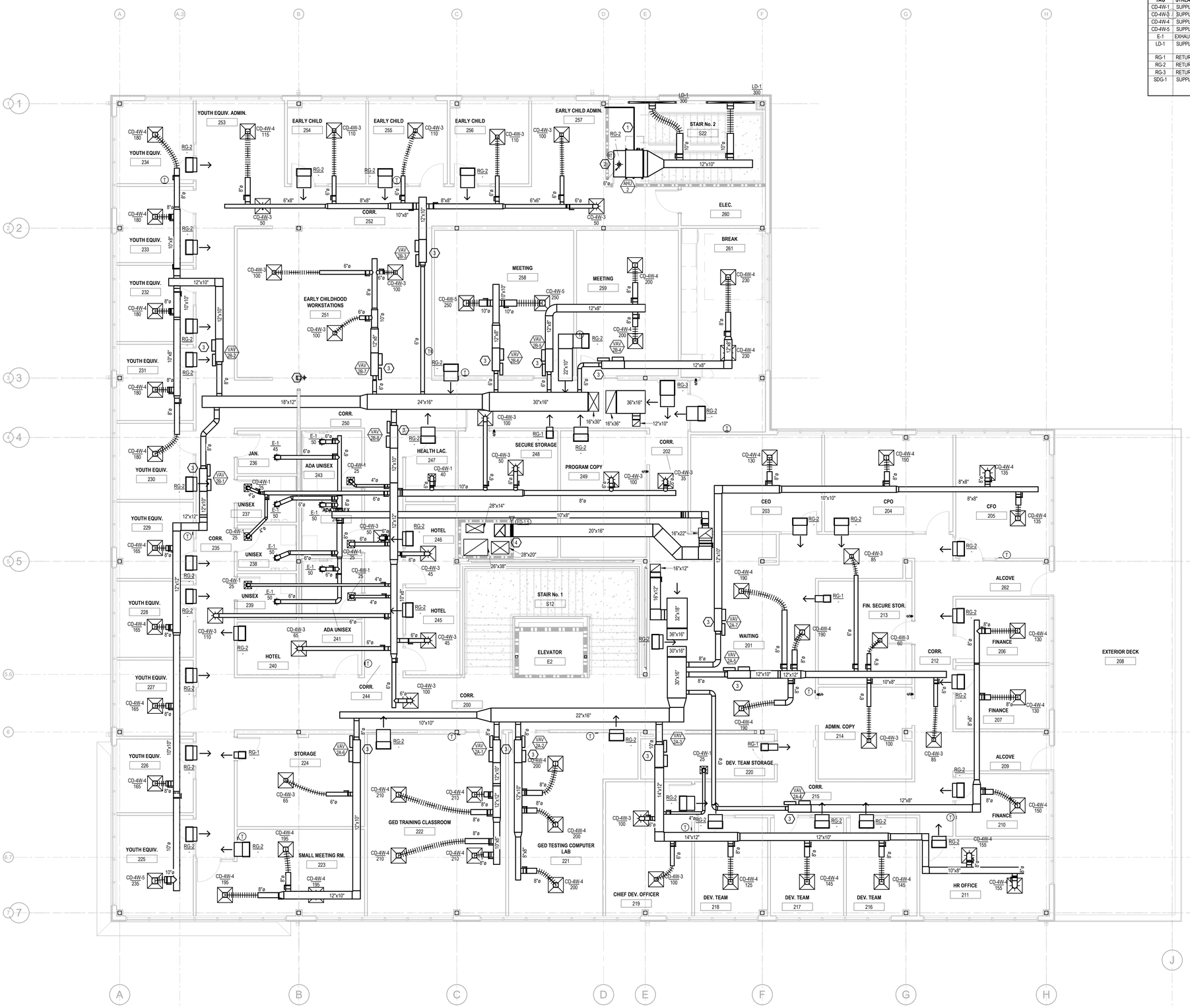
**MECHANICAL FIRST FLOOR**

**M101**

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | ROUTE 3/4" CONDENSATE DRAIN LINE TO MECHANICAL ROOM FLOOR DRAIN. SLOPE PIPE A MINIMUM OF 1/8 " PER FOOT AWAY FROM UNIT. REFER TO HILTI DETAIL FOR THROUGH WALL PENETRATION DETAIL. |
| 2 | DUCT FRESH AIR UP THROUGH ROOF WITH RAIN-PROOF CAP |
| 3 | HVAC EQUIPMENT SHALL BE CONNECTED TO AND CONTROLLED BY THE BAS SYSTEM. REFER TO BAS SYSTEM SPECIFICATIONS FOR CONNECTION, POINTS, AND CONTROL REQUIREMENTS. |
| 4 | SMOKE DAMPERS ARE NOT REQUIRED FOR SHAFT PENETRATIONS PER 2024 OHIO MECHANICAL CODE SECTION 607.5.5 EXCEPTION 6: SMOKE DAMPERS ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OF THE BUILDING CODE. |
| 5 | DUCT DRYER EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP |

## GRILLE, REGISTERS, AND DIFFUSER SCHEDULE

| TAG | AIR STREAM | STYLE | MOUNTING TYPE | INLET SIZE (IN) | | | FRAME SIZE | | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | DIA. | HEIGHT | WIDTH | HEIGHT | WIDTH | | | |
| CD-4W-1 | SUPPLY | 4-WAY DIFFUSER | CEILING | 6" | | | 1' - 0" | 1' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| CD-4W-3 | SUPPLY | 4-WAY DIFFUSER | CEILING | 6" | | | 2' - 0" | 2' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| CD-4W-4 | SUPPLY | 4-WAY DIFFUSER | CEILING | 8" | | | 2' - 0" | 2' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| CD-4W-5 | SUPPLY | 4-WAY DIFFUSER | CEILING | 10" | | | 2' - 0" | 2' - 0" | TITUS | OMNI-AA | STANDARD FINISH # 26 WHITE |
| E-1 | EXHAUST | EXHAUST GRILLE | CEILING | | 6" | 6" | 0' - 7" | 0' - 7" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| LD-1 | SUPPLY | LINEAR DIFFUSER | CEILING | 10" | | | 6' - 0" | 0' - 3" | TITUS | FL-10 | CONTINOUS SLOT/ PATTERN CONTROLLER |
| RG-1 | RETURN | RETURN GRILLE | CEILING | | 10" | 10" | 0' - 11" | 0' - 11" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| RG-2 | RETURN | RETURN GRILLE | CEILING | | 10" | 22" | 0' - 11" | 1' - 11" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| RG-3 | RETURN | RETURN GRILLE | CEILING | | 22" | 22" | 1' - 11" | 1' - 11" | TITUS | 350RL | STANDARD FINISH # 26 WHITE |
| SDG-1 | SUPPLY | DOUBLE DEFECTION SPIRAL DUCT | DUCT | | 16" | 6" | 1' - 6" | 0' - 8" | TITUS | S300FL | STANDARD FINISH # 26 WHITE |




1 MECHANICAL SECOND FLOOR PLAN
M102 3/16" = 1'-0"

ATA ARCHITECTS
1093 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568

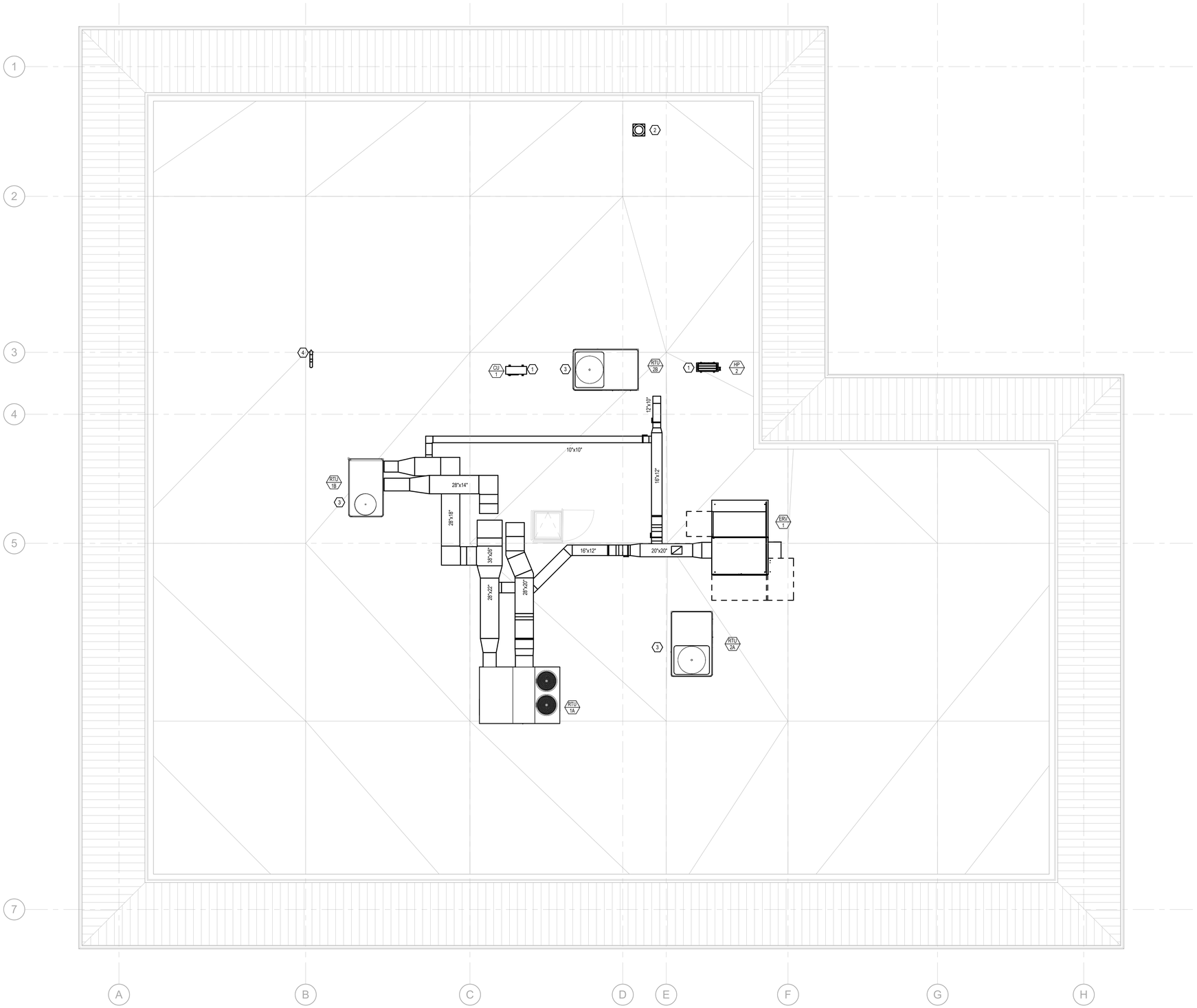
**DRAWN:** RTT **CHECKED:** SSS

rtm engineering consultants
318 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM

**MECHANICAL SECOND FLOOR**

**M102**

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | ROUTE LINE SET FROM OUTDOOR UNIT TO INDOOR AIR HANDLER. ALL PIPING SHALL BE CONCEALED IN FINISHED AREA. SIZE PER MANUFACTURES RECOMMENDATIONS. |
| 2 | DUCT FRESH AIR UP THROUGH ROOF WITH RAIN-PROOF CAP |
| 3 | HVAC EQUIPMENT SHALL BE CONNECTED TO AND CONTROLLED BY THE BAS SYSTEM. REFER TO BAS SYSTEM SPECIFICATIONS FOR CONNECTION, POINTS, AND CONTROL REQUIREMENTS. |
| 4 | DUCT DRYER EXHAUST UP THROUGH ROOF WITH RAIN-PROOF CAP |




1 M103 MECHANICAL ROOF PLAN
3/16" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568

**DRAWN:** RTT **CHECKED:** SSS


rtm engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.581.7050 F: 847.756.4186 WWW.RTMEC.COM


**MECHANICAL ROOF**

**M103**

## ERV SCHEDULE

| TAG | MANUFACTURER | MODEL | LOCATION | OUTSIDE AIR CFM | OUTSIDE AIR ESP | OUTSIDE AIR HP | EXHAUST AIR CFM | EXHAUST AIR ESP | EXHAUST AIR HP | SUMMER/COOLING OUTDOOR AIR DB | SUMMER/COOLING OUTDOOR AIR WB | SUMMER/COOLING OUTDOOR AIR GRAINS/lb | SUMMER/COOLING FRESH AIR DB | SUMMER/COOLING FRESH AIR WB | SUMMER/COOLING FRESH AIR GRAINS/lb | SUMMER/COOLING RETURN AIR DB | SUMMER/COOLING RETURN AIR WB | SUMMER/COOLING RETURN AIR GRAINS/lb | WINTER/HEATING OUTDOOR AIR DB | WINTER/HEATING OUTDOOR AIR WB | WINTER/HEATING OUTDOOR AIR GRAINS/lb | WINTER/HEATING FRESH AIR DB | WINTER/HEATING FRESH AIR WB | WINTER/HEATING FRESH AIR GRAINS/lb | WINTER/HEATING RETURN AIR DB | WINTER/HEATING RETURN AIR WB | WINTER/HEATING RETURN AIR GRAINS/lb | EFFECTIVENESS SUMMER TOTAL (%) | EFFECTIVENESS WINTER TOTAL (%) | ELECTRICAL VOLTAGE | ELECTRICAL PHASE | ELECTRICAL MCA | ELECTRICAL MOCP | FILTERS OA | FILTERS RA | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERV-1 | RENEWAIRE | HE6X | ROOF | 3526 | 0.50 in-wg | 3 | 3075 | -0.00 in-wg | 3 | 93 °F | 75 °F | 101.4 | 81 °F | 69 °F | 87.5 | 75 °F | 63 °F | 65.8 | 8 °F | 6 °F | 4.9 | 50 °F | 39 °F | 19 | 70 °F | 51 °F | 27.6 | 61.30% | 78.90% | 480 | 3 | 10 A | 15 A | 2" MERV 8 PLEATED | 2" MERV 8 PLEATED | 2623 | MOTORIZED DAMPER ON BOTH AIRSTREAMS |

## GAS FIRED/ DIRECT EXPANSION ROOFTOP UNIT SCHEDULE

1. 14" ROOF CURB.
2. MULTI-ZONE SYSTEM W/ VAV BOXES
3. VARIABLE SPEED FANS.
4. DIRECT DRIVE SCROLL COMPRESSORS.
5. ECONOMIZER WITH POWERED EXHAUST
6. MULTI STAGE COOLING.
7. HAIL GUARDS.
8. LOW AMBIENT COOLING KIT.
9. STAINLESS STEEL HEAT EXCHANGER.
10. 120V SERVICE OUTLET

| TAG | LOCATION | REFRIGERANT DATA: REFRIGERATION TYPE | REFRIGERANT DATA: REFRIGERATION CHARGE (LBS) | EER/IEER | DESIGN AIR TEMPS SUMMER DB°F | DESIGN AIR TEMPS WINTER WB°F | DESIGN AIR TEMPS WINTER DB°F | COOLING CAPACITY GROSS (MBH) | COOLING CAPACITY SENSIBLE (MBH) | COOLING CAPACITY EAT (DB°F) | COOLING CAPACITY EAT (WB°F) | COOLING CAPACITY LAT (DB°F) | COOLING CAPACITY LAT (WB°F) | COOLING CAPACITY NO OF COMPRESSORS | COOLING CAPACITY STAGES | HEATING CAPACITY INPUT (MBH) | HEATING CAPACITY OUTPUT (MBH) | HEATING CAPACITY EAT (DB°F) | HEATING CAPACITY LAT (DB°F) | HEATING CAPACITY AFUE % | HEATING CAPACITY STAGES | FAN/MOTOR DATA SA CFM | FAN/MOTOR DATA OA CFM | FAN/MOTOR DATA SUPPLY HP | FAN/MOTOR DATA SUPPLY ESP (IN W.C.) | ELECTRICAL DATA MCA | ELECTRICAL DATA MOCP | ELECTRICAL DATA V | ELECTRICAL DATA PH | ELECTRICAL DATA HZ | WEIGHT (LBS) | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTU 1A | ROOF | 454B | 11.8 | 10.8/14.5 | 92 | 75 | 0 | 183 | 135 | 80 | 67 | 57 | 57 | 2 | 3 | 400 | 324 | 50 | 106 | 81 | 2 | 6000 | 1163 | 6 | 1.60 | 40 | 50 | 480 | 3 | 60 | 2156 | TRANE | YSK180A4S0H | 1-10 |
| RTU 1B | ROOF | 454B | 8 | 11/15.1 | 92 | 75 | 0 | 126 | 98 | 80 | 67 | 57 | 57 | 2 | 3 | 240 | 195 | 50 | 94 | 81 | 2 | 4000 | 561 | 3 | 1.50 | 30 | 40 | 480 | 3 | 60 | 1114 | TRANE | YSK120A4S0H | 1-10 |
| RTU 2A | ROOF | 454B | 9.8 | 10.8/14.5 | 92 | 75 | 0 | 150 | 114 | 80 | 67 | 57 | 57 | 2 | 3 | 250 | 202 | 50 | 87 | 81 | 2 | 5000 | 912 | 4.6 | 1.50 | 33 | 45 | 480 | 3 | 60 | 1315 | TRANE | YSK150A4S0H | 1-10 |
| RTU 2B | ROOF | 454B | 9.8 | 10.8/14.5 | 92 | 75 | 0 | 150 | 114 | 80 | 67 | 57 | 57 | 2 | 3 | 250 | 202 | 50 | 87 | 81 | 2 | 5000 | 715 | 4.6 | 1.50 | 33 | 45 | 480 | 3 | 60 | 1315 | TRANE | YSK150A4S0H | 1-10 |

## OUTDOOR CONDENSING UNIT SCHEDULE

| TAG | LOCATION | REFRIGERANT DATA TYPE | SEER 2 | HEAT DATA CAPACITY (MBH) | COOLING DATA CAPACITY (MBH) | ELECTRICAL DATA MCA | ELECTRICAL DATA MOCP | ELECTRICAL DATA V | ELECTRICAL DATA PH | ELECTRICAL DATA HZ | WEIGHT (LBS) | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CU 1 | ROOF | 454B | 19.5 | 0 | 18 | 16.0 | 27.0 | 208 | 1 | 60 | 99 | MITSUBISHI | PUY-AK18NL | LOW AMBIENT COOLING KIT |
| HP 2 | ROOF | 454B | 17.3 | 23.5 | 18 | 25.0 | 42.0 | 208 | 2 | 60 | 115 | MITSUBISHI | SUZ-AA18NLHZ | HYPER HEAT INVERTER |

## AIR HANDLER INDOOR UNIT SCHEDULE

| TAG | ASSOCIATED OUTDOOR UNIT | LOCATION | FAN/MOTOR DATA SUPPLY SA (CFM) | FAN/MOTOR DATA SUPPLY OA (CFM) | FAN/MOTOR DATA SUPPLY HP | FAN/MOTOR DATA SUPPLY ESP (IN WC) | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| AHU 1 | CU-1 | 116 SERVER | 375 | 0 | 0 | 0.00 | MITSUBISHI | PKA-AL18NL | UNIT POWERED BY OUTDOOR UNIT |
| AHU 2 | HP-2 | S22 STAIR NO 2 | 600 | 35 | 0.1 | 0.50 | MITSUBISHI | PEAD-AA18NL | UNIT POWERED BY OUTDOOR UNIT |

## ELECTRIC HEATER SCHEDULE

| TAG | LOCATION | MOUNTING TYPE | HEATING CAPACITY (KW) | ELECTRICAL DATA AMPS | V | PH | HZ | DIMENSIONS (IN) LENGTH | WIDTH | HEIGHT | WEIGHT | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWH-1 | 100 VESTIBULE | WALL | 1.5 | 15 | 208 V | 1 | 60 Hz | 1' - 3 3/4" | 0' - 3 7/8" | 1' - 6 1/4" | 22 | BERKO | VFK404F | INTEGRAL THERMOSTAT |
| EWH-2 | 117 MECH/ELEC | WALL | 4.8 | 13 | 208 V | 3 | 60 Hz | 1' - 3 3/4" | 0' - 3 7/8" | 1' - 6 1/4" | 22 | BERKO | VFK4883F | INTEGRAL THERMOSTAT |

## DUCT INSULATION SCHEDULE

*DUCT INSULATION REQUIREMENTS ARE BASED ON TABLE 6.8.2B OF ASHRAE 90.1 2019 ENERGY CODE.
**PROVIDE DUCTWORK OF SUFFICIENT THICKNESS TO MEET THE INSTALLED R-VALUE REQUIREMENTS LISTED ABOVE.
**ITEMS NOT REQUIRED TO BE INSULATED: FIBROUS-GLASS DUCTS, DUCTS WITH LINER THAT MEETS ASHRAE 90.1, FACTORY-INSULATED FLEXIBLE DUCTS, FACTORY-INSULATED PLENUMS AND CASINGS, FLEX CONNECTORS, VIBRATION-CONTROL DEVICES, FACTORY-INSULATED ACCESS PANELS AND DOORS.

| EQUIPMENT | SA | SA (EXPOSED) | SA (EXTERIOR) | RA | RA (EXTERIOR) | OA | OA (EXTERIOR) | EA | ADDITIONAL NOTES |
|---|---|---|---|---|---|---|---|---|---|
| RTU-X | R-1.9 | R-1.9 | R-8 | N/A | R-8 | R-6 | R-8 | - | |
| ERV-1 | R-6 | R-8 | - | N/A | - | - | - | N/A | |
| AHU-2 | R-1.9 | - | - | N/A | - | R-6 | - | - | |

## GAS FIRED HEATER SCHEDULE

| TAG | LOCATION | TYPE | HEATING CAPACITY AIRFLOW (CFM) | HEATING CAPACITY INPUT (MBH) | HEATING CAPACITY OUTPUT (MBH) | HEATING CAPACITY FUEL | ELECTRICAL DATA RPM | HP | MAX AMPS | V | PH | HZ | DIMENSIONS (IN) LENGTH | HEIGHT | WIDTH | WEIGHT (LBS) | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UH 1 | 119 LOADING DOCK | GAS UNIT HEATER | 629 | 45 | 37.5 | NAT GAS | 1550 | 0.03 | 2 | 120 | 1 | 60 | 27.00 | 13.75 | 29.75 | 62 | REZNOR | UDXC45 | WALL MOUNTED THERMOSTAT |

## VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE WITH ELECTRIC REHEAT

| TAG | LOCATION | NECK SIZE (IN.) | DESIGN AIRFLOW MAX (CFM) | MIN (CFM) | HEATING (CFM) | APD (IN WC) | HEATING CAP. KW | STAGES | EAT (°F) | LAT (°F) | ELECTRICAL DATA V | PH | HZ | MCA | FLA | MOCP | CONTROL TYPE | MANUFACTURER | MODEL NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAV 1A-1 | 145 DONATION PANTRY | 14" | 2100 | 1050 | 1050 | 0.01 | 12.0 kW | 1 | 60 | 95 | 480 | 3 | 60 | 18.0 A | 14.4 A | 20 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1A-2 | 152 CORRIDOR | 4" | 150 | 75 | 75 | 0.03 | 1.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 3.6 A | 3.0 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1A-3 | 152 CORRIDOR | 4" | 150 | 75 | 75 | 0.03 | 1.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 3.6 A | 3.0 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1A-4 | 149 CORRIDOR | 14" | 2000 | 1000 | 1000 | 0.01 | 12.0 kW | 1 | 60 | 95 | 480 | 3 | 60 | 18.0 A | 14.4 A | 20 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1A-5 | 149 CORRIDOR | 10" | 1050 | 525 | 525 | 0.03 | 5.0 kW | 1 | 60 | 90 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1B-1 | 136 STORAGE | 6" | 475 | 238 | 238 | 0.20 | 2.0 kW | 1 | 60 | 90 | 277 | 1 | 60 | 13.5 A | 10.8 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1B-2 | 120 CORRIDOR | 8" | 800 | 400 | 400 | 0.08 | 3.0 kW | 1 | 60 | 84 | 277 | 1 | 60 | 18.0 A | 14.4 A | 20 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1B-3 | 111 CORRIDOR | 10" | 1000 | 500 | 500 | 0.03 | 5.0 kW | 1 | 60 | 92 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1B-4 | 114 STORAGE | 10" | 1000 | 500 | 500 | 0.03 | 5.0 kW | 1 | 60 | 92 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 1B-5 | 101 LOBBY | 8" | 725 | 363 | 400 | 0.07 | 4.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 18.0 A | 14.0 A | 20 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-1 | 222 GED CLASSROOM | 8" | 850 | 425 | 425 | 0.09 | 4.0 kW | 1 | 60 | 90 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-2 | 221 GED TESTING COMPUTER LAB | 8" | 600 | 300 | 300 | 0.05 | 3.0 kW | 1 | 60 | 92 | 277 | 1 | 60 | 13.5 A | 10.8 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-3 | 220 DEV TEAM STORAGE | 10" | 950 | 475 | 475 | 0.03 | 5.0 kW | 1 | 60 | 93 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-4 | 215 CORRIDOR | 6" | 450 | 225 | 225 | 0.18 | 2.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 13.5 A | 10.8 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-5 | 201 WAITING | 8" | 900 | 450 | 450 | 0.10 | 4.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-6 | 224 STORAGE | 8" | 650 | 325 | 325 | 0.06 | 3.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 18.0 A | 14.0 A | 20 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2A-7 | 201 WAITING | 8" | 600 | 300 | 300 | 0.05 | 3.0 kW | 1 | 60 | 84 | 277 | 1 | 60 | 13.5 A | 10.8 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-1 | 235 CORRIDOR | 8" | 900 | 450 | 450 | 0.10 | 5.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-2 | 235 CORRIDOR | 8" | 900 | 450 | 450 | 0.10 | 5.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-3 | 251 EARLY CHILDHOOD | 8" | 640 | 320 | 320 | 0.06 | 3.0 kW | 1 | 60 | 90 | 277 | 1 | 60 | 13.5 A | 10.8 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-4 | 259 MEETING | 6" | 460 | 200 | 200 | 0.20 | 3.0 kW | 1 | 60 | 92 | 277 | 1 | 60 | 13.5 A | 10.8 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-5 | 258 MEETING | 6" | 400 | 200 | 200 | 0.14 | 1.5 kW | 1 | 60 | 84 | 277 | 1 | 60 | 9.0 A | 7.2 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-6 | 258 MEETING | 6" | 500 | 250 | 250 | 0.14 | 2.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 9.0 A | 7.2 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-7 | 251 EARLY CHILDHOOD | 5" | 300 | 150 | 150 | 0.02 | 1.5 kW | 1 | 60 | 95 | 277 | 1 | 60 | 6.7 A | 5.4 A | 15 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |
| VAV 2B-8 | 244 CORRIDOR | 8" | 900 | 450 | 450 | 0.80 | 4.0 kW | 1 | 60 | 95 | 277 | 1 | 60 | 22.5 A | 18.0 A | 25 A | ACTUATOR | TRANE | VCEF | CONTROLED THROUGH BAS SYSTEM |

## VENTILATION SCHEDULE - 2024 OHIO MECHANICAL CODE (20124 OMC)

| | | ROOM NUMBER | ROOMNAME | OCCUPANCY CLASSIFICATION | OCCUPANCY DENSITY (PEOPLE/ft2) | RATE Rp (CFM/person) | PEOPLE Pz | TOTAL Rp*Pz (CFM) | RATE Ra (CFM/ft2) | AREA (ft2) | TOTAL Ra*Az (CFM) | BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM) | ZONE OUTDOOR AIRFLOW Voz (CFM) | ZONE EFFECTIVENESS (EZ) | TOTAL OUTDOOR AIRFLOW (CFM)* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EQUIPMENT | AHU-1.5 | S21/S22 | STAIR NO 2 | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 448 | 27 | 27 | 34 | 0.8 | 35 |

*CALCULATIONS BASED ON 403.3.1.1 OF THE 2024 OMC

## MECHANICAL EXHAUST SCHEDULE - 2024 OHIO MECHANICAL CODE

### SANTA MARIA

*CALCULATIONS ARE BASED ON TABLE 403.3.1.1 OF THE 2024 OMC

| ROOM/UNIT NUMBER | ROOMNAME | OCCUPANCY CLASSIFICATION | AREA (FT2) | EXHAUST AIRFLOW RATE (CFM/FT2) | FIXTURES: EXHAUST RATE PER FIXTURE (CFM) | FIXTURES: LOWER CONTINOUS RATE | FIXTURES: HIGHER INTERMITTENT RATE | FIXTURES: QTY. OF FIXTURES | TOTAL EXHAUST AIRFLOW REQ. (CFM) | TOTAL EXHAUST AIRFLOW ACT. (CFM) |
|---|---|---|---|---|---|---|---|---|---|---|
| 121 | ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 122 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 123 | ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 128 | ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 129 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 130 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 131 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 135 | ADA SHOWER | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 2 | 70 | 70 |
| 155 | CHILD ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 241 | ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 242 | ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 243 | ADA UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 239 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 237 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |
| 238 | UNISEX | PUBLIC - TOILET ROOM | - | - | 50/70 | YES | NO | 1 | 50 | 50 |

## MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-2B)

| | | ROOM NUMBER | ROOMNAME | OCCUPANCY CLASSIFICATION | OCCUPANCY DENSITY (PEOPLE/ft2) | RATE Rp (CFM/person) | PEOPLE Pz | TOTAL Rp*Pz (CFM) | RATE Ra (CFM/ft2) | AREA (ft2) | TOTAL Ra*Az (CFM) | BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM) | ZONE AIR DISTRIBUTION EFFECTIVENESS Ez | ZONE OUTDOOR AIRFLOW Voz (CFM) | PRIMARY AIRFLOW Vpz | PRIMARY OUTDOOR AIR FRACTION Zpz | ZONE VENTILATION EFFICIENCY Evz | OCCUPANT DIVERSITY D | UNCORRECTED OUTDOOR AIR INTAKE Vou | AVERAGE OUTDOOR AIR FRACTION Xs | SYSTEM VENTILATION EFFICIENCY Ev* | REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)* | ACTUAL OUTDOOR AIR INTAKE FLOW RATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZONES | 1 | 225 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 132 | 8 | 13 | 0.8 | 16 | 234 | 0.07 | 1.06 | 1.00 | 601 | 0.125 | 0.84 | 715 | 715 |
| | | 226 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 97 | 6 | 11 | 0.8 | 14 | 165 | 0.08 | 1.04 | | | | | | |
| | | 227 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 165 | 0.08 | 1.04 | | | | | | |
| | | 228 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 165 | 0.08 | 1.04 | | | | | | |
| | | 229 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 165 | 0.08 | 1.04 | | | | | | |
| | 2 | 230 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 175 | 0.08 | 1.05 | | | | | | |
| | | 231 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 175 | 0.08 | 1.05 | | | | | | |
| | | 232 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 175 | 0.08 | 1.05 | | | | | | |
| | | 233 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 175 | 0.08 | 1.05 | | | | | | |
| | | 234 | YOUTH EQUIV | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 185 | 0.07 | 1.05 | | | | | | |
| | 3 | 252 | CORRIDOR | CORRIDOR | N/A | 0 | 0 | 0 | 0.06 | 319 | 19 | 19 | 0.8 | 24 | 100 | 0.24 | 0.89 | | | | | | |
| | | 253 | YOUTH ADMIN | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 132 | 8 | 13 | 0.8 | 16 | 115 | 0.14 | 0.98 | | | | | | |
| | | 254 | EARLY CHILD | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 113 | 7 | 12 | 0.8 | 15 | 110 | 0.13 | 0.99 | | | | | | |
| | | 255 | EARLY CHILD | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 113 | 7 | 12 | 0.8 | 15 | 110 | 0.13 | 0.99 | | | | | | |
| | | 256 | EARLY CHILD | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 113 | 7 | 12 | 0.8 | 15 | 110 | 0.13 | 0.99 | | | | | | |
| | | 257 | EARLY CHILD ADMIN | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 112 | 7 | 12 | 0.8 | 15 | 100 | 0.15 | 0.98 | | | | | | |
| | 4 | 261 | BREAK | OFFICE SPACES | 5/1000 | 5 | 2 | 10 | 0.06 | 286 | 17 | 27 | 0.8 | 34 | 460 | 0.07 | 1.05 | | | | | | |
| | 5 | 259 | MEETING | CONFERENCE ROOMS | 50/1000 | 5 | 13 | 65 | 0.06 | 258 | 15 | 80 | 0.8 | 101 | 400 | 0.25 | 0.87 | | | | | | |
| | 6 | 258 | MEETING | CONFERENCE ROOMS | 50/1000 | 5 | 18 | 90 | 0.06 | 352 | 21 | 111 | 0.8 | 139 | 500 | 0.28 | 0.85 | | | | | | |
| | 7 | 251 | EARLY CHILDHOOD WORKSTATIONS | OFFICE SPACES | 5/1000 | 5 | 3 | 15 | 0.06 | 501 | 30 | 45 | 0.8 | 56 | 300 | 0.19 | 0.94 | | | | | | |
| | 8 | 200 | CORRIDOR | CORRIDOR | N/A | 0 | 0 | 0 | 0.06 | 374 | 22 | 22 | 0.8 | 28 | 100 | 0.28 | 0.84 | | | | | | |
| | | 202 | CORRIDOR | CORRIDOR | N/A | 0 | 0 | 0 | 0.06 | 115 | 7 | 7 | 0.8 | 9 | 30 | 0.29 | 0.84 | | | | | | |
| | | 235 | CORRIDOR | CORRIDOR | N/A | 0 | 0 | 0 | 0.06 | 417 | 25 | 25 | 0.8 | 31 | 115 | 0.27 | 0.85 | | | | | | |
| | | 240 | HOTEL | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 113 | 7 | 12 | 0.8 | 15 | 65 | 0.23 | 0.90 | | | | | | |
| | 8 | 244 | CORRIDOR | CORRIDOR | N/A | 0 | 0 | 0 | 0.06 | 165 | 10 | 10 | 0.8 | 12 | 45 | 0.28 | 0.85 | | | | | | |
| | | 245 | HOTEL | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 79 | 5 | 10 | 0.8 | 12 | 50 | 0.24 | 0.88 | | | | | | |
| | | 246 | HOTEL | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 73 | 4 | 9 | 0.8 | 12 | 45 | 0.26 | 0.86 | | | | | | |
| | | 247 | HEALTH LAC | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 61 | 4 | 9 | 0.8 | 11 | 40 | 0.27 | 0.85 | | | | | | |
| | | 248 | SECURE STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 49 | 3 | 3 | 0.8 | 4 | 50 | 0.07 | 1.05 | | | | | | |
| | | 249 | PROGRAM COPY | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 187 | 11 | 16 | 0.8 | 20 | 100 | 0.20 | 0.92 | | | | | | |
| | 7 | 200 | CORRIDOR | CORRIDOR | N/A | 0 | 0 | 0 | 0.06 | 375 | 23 | 23 | 0.8 | 28 | 100 | 0.28 | 0.84 | | | | | | |

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

rtm engineering consultants
518 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 | WWW.RTMEC.COM


# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 5 | 03/24/2026 | Addendum #5 |

**PROJECT #:** 6568

**DRAWN:** RTT **CHECKED:** SSS

**MECHANICAL DETAILS**

**M300**

## MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-1A)

| ZONES | ROOM NUMBER | ROOMNAME | OCCUPANCY CLASSIFICATION | OCCUPANCY DENSITY (PEOPLE/ft2) | RATE Rp (CFM/person) | PEOPLE Pz | TOTAL Rp*Pz (CFM) | RATE Ra (CFM/ft2) | AREA (ft2) | TOTAL Ra*Az (CFM) | BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM) | ZONE AIR DISTRIBUTION EFFECTIVENESS Ez | ZONE OUTDOOR AIRFLOW Voz (CFM) | PRIMARY AIRFLOW Vpz | PRIMARY OUTDOOR AIR FRACTION Zpz | ZONE VENTILATION EFFICIENCY Evz | OCCUPANT DIVERSITY D | UNCORRECTED OUTDOOR AIR INTAKE Vou | AVERAGE OUTDOOR AIR FRACTION Xs | SYSTEM VENTILATION EFFICIENCY Ev* | REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)* | ACTUAL OUTDOOR AIR INTAKE FLOW RATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 145 | DONATION PANTRY | RETAIL | 15/1000 | 7.5 | 22 | 165 | 0.12 | 1474 | 177 | 342 | 0.8 | 427 | 1760 | 0.24 | 0.92 | 0.90 | 949 | 0.158 | 0.85 | 1116 | 1116 |
| 1 | 146 | SUPPLY/DIPER STOR | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 164 | 10 | 10 | 0.8 | 12 | 50 | 0.25 | 0.91 | | | | | | |
| 2 | 157 | FAMILY INTAKE | DAYCARE | 25/1000 | 10 | 10 | 100 | 0.18 | 136 | 24 | 124 | 0.8 | 156 | 800 | 0.19 | 0.96 | | | | | | |
| 3 | 152 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 303 | 18 | 18 | 0.8 | 23 | 90 | 0.25 | 0.91 | | | | | | |
| 3 | 153 | HOTEL | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 81 | 5 | 10 | 0.8 | 12 | 40 | 0.31 | 0.85 | | | | | | |
| 3 | 154 | HOTEL | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 82 | 5 | 10 | 0.8 | 12 | 40 | 0.31 | 0.85 | | | | | | |
| 3 | 156 | INTAKE | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 50 | 3 | 8 | 0.8 | 10 | 50 | 0.20 | 0.96 | | | | | | |
| 4 | 151 | MEETING | CONFERENCE ROOMS | 50/1000 | 5 | 56 | 280 | 0.06 | 1120 | 67 | 347 | 0.8 | 434 | 2000 | 0.22 | 0.94 | | | | | | |
| 5 | 149 | MTG/FOOD DIST WAITING | CONFERENCE ROOMS | 50/1000 | 5 | 20 | 100 | 0.06 | 387 | 23 | 123 | 0.8 | 154 | 921 | 0.17 | 0.99 | | | | | | |
| | 149 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 359 | 22 | 22 | 0.8 | 27 | 130 | 0.21 | 0.95 | | | | | | |

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.

## MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-1B)

| ZONES | ROOM NUMBER | ROOMNAME | OCCUPANCY CLASSIFICATION | OCCUPANCY DENSITY (PEOPLE/ft2) | RATE Rp (CFM/person) | PEOPLE Pz | TOTAL Rp*Pz (CFM) | RATE Ra (CFM/ft2) | AREA (ft2) | TOTAL Ra*Az (CFM) | BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM) | ZONE AIR DISTRIBUTION EFFECTIVENESS Ez | ZONE OUTDOOR AIRFLOW Voz (CFM) | PRIMARY AIRFLOW Vpz | PRIMARY OUTDOOR AIR FRACTION Zpz | ZONE VENTILATION EFFICIENCY Evz | OCCUPANT DIVERSITY D | UNCORRECTED OUTDOOR AIR INTAKE Vou | AVERAGE OUTDOOR AIR FRACTION Xs | SYSTEM VENTILATION EFFICIENCY Ev* | REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)* | ACTUAL OUTDOOR AIR INTAKE FLOW RATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 101 | LOBBY | MAIN ENTRY LOBBIES | 10/1000 | 5 | 7 | 35 | 0.06 | 623 | 37 | 72 | 0.8 | 90 | 725 | 0.12 | 0.98 | 1.00 | 437 | 0.109 | 0.78 | 561 | 561 |
| 2 | 118 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 130 | 8 | 8 | 0.8 | 10 | 80 | 0.12 | 0.99 | | | | | | |
| 2 | 136 | STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 100 | 6 | 6 | 0.8 | 8 | 30 | 0.25 | 0.86 | | | | | | |
| 2 | 139 | INTERN/VOL STATIONS | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 122 | 7 | 12 | 0.8 | 15 | 50 | 0.31 | 0.80 | | | | | | |
| 2 | 140 | LOCKERS | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 94 | 6 | 6 | 0.8 | 7 | 30 | 0.24 | 0.87 | | | | | | |
| 2 | 141 | BREAK | OFFICE SPACES | 5/1000 | 5 | 2 | 10 | 0.06 | 348 | 21 | 31 | 0.8 | 39 | 140 | 0.28 | 0.83 | | | | | | |
| 2 | 142 | TABLE STORAGE | STORAGE ROOMS | N/A | 0 | 0 | 0 | 0.06 | 138 | 8 | 8 | 0.8 | 10 | 40 | 0.26 | 0.85 | | | | | | |
| 2 | 143 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 128 | 8 | 8 | 0.8 | 10 | 70 | 0.14 | 0.97 | | | | | | |
| 2 | 144 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 118 | 7 | 7 | 0.8 | 9 | 40 | 0.22 | 0.89 | | | | | | |
| 3 | 111 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 384 | 23 | 23 | 0.8 | 29 | 101 | 0.29 | 0.82 | | | | | | |
| 3 | 113 | FIN SECURE STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 222 | 13 | 13 | 0.8 | 17 | 60 | 0.28 | 0.83 | | | | | | |
| 3 | 114 | SECURE STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 205 | 12 | 12 | 0.8 | 15 | 55 | 0.28 | 0.83 | | | | | | |
| 3 | 120 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 130 | 8 | 8 | 0.8 | 10 | 45 | 0.22 | 0.89 | | | | | | |
| 3 | 125 | CLOSET | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 40 | 2 | 2 | 0.8 | 3 | 15 | 0.20 | 0.91 | | | | | | |
| 3 | 126 | STABLE FAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 112 | 7 | 12 | 0.8 | 15 | 45 | 0.33 | 0.78 | | | | | | |
| 3 | 127 | VOLUNTEER CORR | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 112 | 7 | 12 | 0.8 | 15 | 45 | 0.33 | 0.78 | | | | | | |
| 3 | 132 | LAUNDRY | COMMERCIAL LAUNDRY | 10/1000 | 5 | 2 | 10 | 0.12 | 50 | 6 | 16 | 0.8 | 20 | 65 | 0.31 | 0.80 | | | | | | |
| 3 | 133 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 310 | 19 | 19 | 0.8 | 23 | 85 | 0.27 | 0.84 | | | | | | |
| 3 | 134 | CLOTHES PANTRY | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 123 | 7 | 7 | 0.8 | 9 | 35 | 0.26 | 0.85 | | | | | | |
| 3 | 137 | LACTATION | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 63 | 4 | 9 | 0.8 | 11 | 35 | 0.31 | 0.80 | | | | | | |
| 3 | 138 | MAIL | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 115 | 7 | 7 | 0.8 | 9 | 30 | 0.29 | 0.82 | | | | | | |
| 4 | 102 | INTAKE | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 126 | 8 | 13 | 0.8 | 16 | 145 | 0.11 | 1.00 | | | | | | |
| 4 | 103 | PROGRAM COPY | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 120 | 7 | 12 | 0.8 | 15 | 303 | 0.05 | 1.06 | | | | | | |
| 4 | 104 | STABLE FAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 128 | 0.11 | 1.00 | | | | | | |
| 4 | 105 | STABLE FAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 210 | 0.07 | 1.04 | | | | | | |
| 4 | 106 | STABLE FAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 210 | 0.07 | 1.04 | | | | | | |
| 7 | 107 | STABLE FAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 135 | 0.10 | 1.01 | | | | | | |
| 7 | 108 | WELLNESS | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 100 | 6 | 11 | 0.8 | 14 | 220 | 0.06 | 1.05 | | | | | | |
| 7 | 109 | WELLNESS | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 101 | 6 | 11 | 0.8 | 14 | 220 | 0.06 | 1.05 | | | | | | |
| 7 | 110 | WELLNESS | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 135 | 8 | 13 | 0.8 | 16 | 225 | 0.07 | 1.04 | | | | | | |
| 7 | 112 | IT WORKPLACE | OFFICE SPACES | 5/1000 | 5 | 2 | 10 | 0.06 | 326 | 20 | 30 | 0.8 | 37 | 175 | 0.21 | 0.90 | | | | | | |
| | 115 | IT STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 93 | 6 | 6 | 0.8 | 7 | 25 | 0.28 | 0.83 | | | | | | |

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.

## MECHANICAL VENTILATION SCHEDULE - MULTIPLE ZONE RECIRCULATING SYSTEM (RTU-2A)

| ZONES | ROOM NUMBER | ROOMNAME | OCCUPANCY CLASSIFICATION | OCCUPANCY DENSITY (PEOPLE/ft2) | RATE Rp (CFM/person) | PEOPLE Pz | TOTAL Rp*Pz (CFM) | RATE Ra (CFM/ft2) | AREA (ft2) | TOTAL Ra*Az (CFM) | BREATHING ZONE OUTDOOR AIRFLOW Vbz (CFM) | ZONE AIR DISTRIBUTION EFFECTIVENESS Ez | ZONE OUTDOOR AIRFLOW Voz (CFM) | PRIMARY AIRFLOW Vpz | PRIMARY OUTDOOR AIR FRACTION Zpz | ZONE VENTILATION EFFICIENCY Evz | OCCUPANT DIVERSITY D | UNCORRECTED OUTDOOR AIR INTAKE Vou | AVERAGE OUTDOOR AIR FRACTION Xs | SYSTEM VENTILATION EFFICIENCY Ev* | REQUIRED OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)* | ACTUAL OUTDOOR AIR INTAKE FLOW RATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 222 | GED TRAINING CLASSROOM | EDUCATIONAL CLASSROOM | 35/1000 | 10 | 16 | 160 | 0.12 | 433 | 52 | 212 | 0.8 | 265 | 850 | 0.31 | 0.84 | 1.00 | 766 | 0.153 | 0.84 | 912 | 912 |
| 2 | 221 | GED TESTING COMPUTER | EDUCATIONAL COMPUTER LAB | 25/1000 | 10 | 12 | 120 | 0.06 | 325 | 20 | 140 | 0.8 | 174 | 600 | 0.29 | 0.86 | | | | | | |
| 3 | 211 | HR OFFICE | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 185 | 11 | 16 | 0.8 | 20 | 298 | 0.07 | 1.09 | | | | | | |
| 3 | 216 | DEV. TEAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 118 | 7 | 12 | 0.8 | 15 | 150 | 0.10 | 1.05 | | | | | | |
| 3 | 217 | DEV. TEAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 123 | 7 | 12 | 0.8 | 15 | 150 | 0.10 | 1.05 | | | | | | |
| 3 | 218 | DEV. TEAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 123 | 7 | 12 | 0.8 | 15 | 130 | 0.12 | 1.03 | | | | | | |
| 3 | 219 | CHIEF DEV. TEAM | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 198 | 12 | 17 | 0.8 | 21 | 200 | 0.11 | 1.05 | | | | | | |
| 3 | 220 | DEV. TEAM STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 94 | 6 | 6 | 0.8 | 7 | 30 | 0.24 | 0.92 | | | | | | |
| 4 | 206 | FINANCE | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 96 | 6 | 11 | 0.8 | 13 | 130 | 0.10 | 1.05 | | | | | | |
| 4 | 207 | FINANCE | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 96 | 6 | 11 | 0.8 | 13 | 130 | 0.10 | 1.05 | | | | | | |
| 4 | 210 | FINANCE | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 121 | 7 | 12 | 0.8 | 15 | 190 | 0.08 | 1.07 | | | | | | |
| 5 | 201 | WAITING | OFFICE RECEPTION AREAS | 30/1000 | 5 | 16 | 80 | 0.06 | 509 | 31 | 111 | 0.8 | 138 | 570 | 0.24 | 0.91 | | | | | | |
| 5 | 213 | FIN. SECURE STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 167 | 10 | 10 | 0.8 | 13 | 60 | 0.21 | 0.94 | | | | | | |
| 5 | 214 | AMIN COPY | OFFICE | 5/1000 | 5 | 1 | 5 | 0.06 | 148 | 9 | 14 | 0.8 | 17 | 100 | 0.17 | 0.98 | | | | | | |
| 5 | 215/212 | CORRIDOR | CORRIDORS | N/A | 0 | 0 | 0 | 0.06 | 511 | 31 | 31 | 0.8 | 38 | 170 | 0.23 | 0.93 | | | | | | |
| 6 | 223 | SMALL MEETING ROOM | CONFERENCE ROOMS | 50/1000 | 5 | 12 | 60 | 0.06 | 227 | 14 | 74 | 0.8 | 92 | 585 | 0.16 | 1.00 | | | | | | |
| 6 | 224 | STORAGE | STORAGE | N/A | 0 | 0 | 0 | 0.06 | 203 | 12 | 12 | 0.8 | 15 | 65 | 0.23 | 0.92 | | | | | | |
| 7 | 203 | CEO | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 214 | 13 | 18 | 0.8 | 22 | 144 | 0.15 | 1.00 | | | | | | |
| 7 | 204 | CPO | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 221 | 13 | 18 | 0.8 | 23 | 188 | 0.12 | 1.03 | | | | | | |
| | 205 | CFO | OFFICE SPACES | 5/1000 | 5 | 1 | 5 | 0.06 | 225 | 14 | 19 | 0.8 | 23 | 260 | 0.09 | 1.06 | | | | | | |

* SYSTEM VENTILATION EFFICIENCY Ev WAS CALCULATED USING TABLE 403.3.2.3.2.
ALL VENTILATION CALCULATIONS PERFORMED PER CHAPTER 403 OF THE 2024 OHIO MECHANICAL CODE.


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
SCOTT SEVERT STILKEY
E-77795
REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 5 | 03/24/2026 | Addendum #5 |

**PROJECT #:** 6568

**DRAWN:** RTT **CHECKED:** SSS


rtm engineering consultants
510 MONMOUTH | 201 | UNDERFORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM


**MECHANICAL DETAILS**

**M301**

## MECHANICAL SPECIFICATIONS

1. General
   a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work
2. Use of Drawings And Specifications
   a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational mechanical system are the responsibility of the mechanical contractor.
3. Standards
   a. Equipment and materials shall conform with appropriate provisions of AGA, ARI, ASME, ASTM, CISPI, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, NEC, as applicable to each individual unit or assembly. All equipment must bear UL label.
4. License / Experience
   a. Contractor must be licensed by the state to install HVAC systems/equipment. Contractor must also have a minimum of 5 years of experience and have installed at least (5) successful project installations of similar size and scope. References must be provided upon request.
5. Codes
   a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. The mechanical contractor shall satisfy code requirements at a minimum without any extra cost to the owner. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply.
6. Permits and Fees
   a. The mechanical contractor shall procure and pay for all permits, fees, taxes, and inspections necessary to complete the mechanical work. Furnish certificate of approval for work from inspection authority to owner before final acceptance for work. Certificate of final inspection and approval shall be submitted with the contractor's request for payment. No final payment will be approved without this certificate.
7. Site Examination
   a. The mechanical contractor shall thoroughly examine all areas of work where equipment, ductwork, and piping will be installed and shall report any condition that, in his opinion, prevents the proper installation of the mechanical work prior to bid. Contractor shall also examine the drawings and specifications of other branches of work, making reference to them for details of new or existing building conditions. No extras will be allowed for failure to include all required work in bid.
   b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
   c. Mechanical contractor shall take their own measurements and be responsible for them.
   d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.
8. Contractor Coordination
   a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the mechanical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable.
   b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication.
   c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
   d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the mechanical drawings; use actual building dimensions.
9. Shop Drawings / Submittals
   a. Submit to the architect electronic copies of complete and certified shop drawings, descriptive data, performance data and ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review. The make, model number, type, finish and accessories of all equipment and materials shall be reviewed and approved by the mechanical contractor and general contractor prior to submitting to the architect for their review and approval. Approval of shop drawings does not relieve the mechanical contractor/vendor from compliance with the requirements of the contract drawings, specifications and applicable codes.
   b. Shop drawings shall be required for the following:
      1. HVAC equipment
      2. Fans
      3. Diffusers, registers, grilles, dampers, louvers, and all sheet metal accessories
      4. Temperature controls
      5. Sheet metal coordination drawings
   a. Products installed by the mechanical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.
10. Record Drawing
   a. The mechanical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.
11. Testing
   a. All mechanical systems shall be tested for proper operation.
12. Fire Stopping
   a. Provide fire stopping at all penetrations through rated separations per local codes & regulations & per UL recommendations for assemblies encountered in project.
   b. The fire stopping material shall meet the integrity of the fire rated wall, floor, ceiling & roof being penetrated. Refer to architect's drawings for wall, floor, ceiling & roof fire ratings prior to bidding work.
   c. Refer to architect's drawings for wall, floor, ceiling, and roof fire ratings prior to bidding work.
13. Access Panels
   a. Provide ceiling and wall access panel quantities & locations to the general contractor prior to bidding. Access panels are required for all concealed appliances, controls devices, heat exchangers and HVAC system components that utilize energy. Where access panels are used, the access panel should be sized to allow accessibility for inspection, service, repair and replacement without disabling the function of a fire-resistance-rated assembly or removing permanent construction, other appliances, venting systems or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. There shall be no extras for having to add access panels after bids are awarded.
14. Cutting and Patching
   a. Neatly do all cutting as required and patch all cut surfaces to match building construction. The contractor shall employ and pay a trade trained and qualified to perform the required patching work. All surfaces disturbed shall be restored with like materials to the satisfaction of the owner. All penetrations through roof shall be made by bonded roofer. Mechanical contractor shall pay all fees required.
15. Flashing & Counterflashing
   a. Roof flashing shall be furnished and installed by the roofing contractor. Roof counterflashing shall be furnished and installed by the mechanical contractor. Coordinate work with roofing contractor and pay all fees.
   b. Obtain approval from general contractor, construction manager, owner and/or roofing contractor prior to making any penetrations so that warranties are not compromised or voided.
16. Warranty
   a. The mechanical contractor shall unconditionally warrant all work to be free of defects in equipment, material and workmanship for a period of one (1) year from the date of final acceptance by owner. The mechanical contractor will repair or replace any defective work promptly and without charge to the owner.
   b. Restore any other existing work damaged in the course of repairing defective equipment, materials and workmanship.
17. Mechanical Work
   a. The mechanical contractor shall provide new hvac equipment, fans, ductwork, piping, air devices, controls as indicated on drawings and as specified. Startup and 1st year parts and labor warranty shall be included and manufacturer's extended warranties. Equipment and appliances shall be installed as required by the terms of their approval, in accordance with the conditions of the listing, the manufacturer's installation instructions, and the applicable code.
18. Owner's Instructions
   a. Provide two sets of complete operating and maintenance instructions with drawings, typewritten instructions and operating sequences and descriptive data sheets. Assemble each set in a hard-bound cover. Provide pdf files of all documentation.
19. Finale
   a. Put all equipment in service and demonstrate that all conditions of the contract have been fulfilled. Remove all tools, debris, etc. occasioned by work under this contract. Submit all warranties, test reports, operating and maintenance manuals for HVAC systems, log sheets and charts, and guarantees as previously specified. Provide all reports, forms, etc. required by inspectors to the satisfaction of the owner. Provide as-built record drawings (in Autocad 2007 or later) showing an accurate account of the final installed systems. Systems including but not limited to all equipment and associated controls, ductwork/piping, air devices, etc.
20. Sheetmetal Ductwork
   a. All sizes of ducts shown on the drawings are interior duct dimensions. All ductwork shall be rigid sheetmetal constructed from galvanized sheet steel in accordance with SMACNA low velocity duct construction standards. All exposed ductwork shall be spiral lock-seam type, as shown on HVAC drawings. Assemble and install ductwork in accordance with recognized industry practice for achieving air tight (5% leakage) and noiseless (no objectionable noise) systems, capable of performing each indicated service. Furnish all required dampers, transitions, offsets, connections to air devices, and other accessories necessary for a complete operating system. Flexible ductwork shall not exceed 8'-0" long.
21. Adhesives and Sealants
   a. Seal all longitudinal and transverse duct joints with a UL 181A or 181B non-hardening, non-migrating mastic or liquid elastic sealant of a type recommended by the manufacturer for sealing joints and seams in sheet metal ductwork. Cover all field joints, joints around spin-in fittings and fastening screws with mastic. All sealants and gaskets shall have surface-burning characteristics with a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested according to UL 723.
   b. Exposed Ductwork: trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.
22. Duct Supports
   a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim, and angles for support of ductwork.
23. Flexible Connections
   a. Furnish and install neoprene flexible duct connections at the inlet and discharge of units and fans.
24. Duct Manual Volume Dampers
   a. Furnish and install opposed-blade, leak-proof volume control dampers where indicated on drawings and locations in supply, return and exhaust ducts where branches are taken from larger ducts or at each individual duct register in order to achieve system air balance quantities. Balancing devices must be provided in accordance with IMC 603.17. All manual volume dampers must be shown on coordination drawings when submitted for review.
25. Fire Dampers
   a. Furnish and install UL555 listed fire dampers as shown on the drawings and in accordance with NFPA and local and state codes. Refer to architectural drawings for all rated walls, floors, and roofs. Fire dampers shall be UL labeled and installed as shown on the drawings or as required by NFPA and codes. Dampers and sleeves shall meet construction requirements of NFPA 90A, 92A, and 92B. Dampers shall be AMCA licensed for air performance. Damper construction shall be a minimum 16-gauge steel frame for square or rectangular ducts and 14-gauge steel frame for round ducts. Damper blades shall be 16-gauge galvanized steel. Bearings and jamb seals shall be stainless steel. Each fire damper shall have a rating that meets the fire resistance requirement of the assembly rating and shall be supplied with a 165-degree F fusible link. Provide all necessary sleeves, angles, etc. Required to provide an installation in accordance with the damper manufacturer's installation instructions. Dampers shall be approved for vertical or horizontal mounting as required by the location shown and shall be labeled for use in dynamic systems.
26. Duct Access Doors
   a. Furnish and install conveniently located duct access doors of ample size and quantity for servicing the dampers.
27. Diffusers, Grilles and Registers
   a. Diffusers, grilles and registers shall be manufactured by titus, price, or engineered approved equal and shall be furnished and installed by the mechanical contractor. Diffusers shall be installed as indicated on the drawings and schedules. The mechanical contractor shall provide all miscellaneous items necessary for a complete and proper installation in the type of ceiling and walls used in this project.
28. Duct Thermal Insulation
   a. Provide external thermal insulation (unless noted otherwise) with an integral vapor facing of sufficient thickness and thermal resistance to meet local energy code requirements. Do not insulate exposed ductwork and portions of ductwork that are internally lined unless otherwise noted on drawings. Ductwork exposed to the weather shall be protected with an approved weatherproof barrier/jacketing. Insulation of all ductwork shall be continuous thru all walls and floors. Thermal insulation and sealers shall comply with NFPA flame spread of 25 or less, and smoke developed index of 50 or less.
29. Exhaust Fan
   a. Fan manufacturer shall be Broan, Cook, Greenheck, or engineered approved equal. Refer to drawings and schedules for unit location, technical data, and any applicable accessories.
30. Rooftop Unit
   a. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing scroll compressors for cooling and natural gas for heating. Unit shall have standard manufacturer warranty on parts. Install per manufacturer's requirements. Refer to drawings and schedules for unit location, technical data, and accessories.
   b. Rooftop manufacturer shall be Trane, Tempmaster, Carrier, or equivalent.
31. Ducted Split Systems
   a. Split systems shall consist of high efficient air handling unit and associated heat pump. Equipment shall have manufacturer's standard warranty.
   b. Split system manufacturer shall be Tempstar, Mitsubishi, Goodman, or engineered equal.
32. Non-Ducted Mini-Split Systems
   a. Split systems shall consist of indoor air handler and associated outdoor heat pump unit. Equipment shall have manufacturer's standard warranty. Provide an inline check valve located in the drain line or trap.
   b. Mini-split system manufacturer shall be Mitsubishi, Daikin, or engineered equal.
33. Condensate Drain Piping
   a. The mechanical contractor shall furnish and install condensate drains, p-traps with removable cleanout caps for air equipment per manufacturer's recommendations. The p-trap depth shall be at least the depth specified for the respective pressure drop of the unit. Condensate drain piping shall be schedule 40 PVC pipe with solvent weld fittings. All condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut. For condensate pumps located in uninhabitable spaces (i.e. attics and crawl spaces), provide controls that will shut down the air equipment if the condensate pump fails.
   b. All cooling equipment shall have a wet switch in the primary drain line, the overflow drain line, or in the equipment-supplied drain pan (located at a point higher than the primary drain line connection and below the overflow rim of the pan) that will shut down the unit when the condensate is clogged.
34. Piping Supports (Metal Pipe)
   a. Furnish and install hot-dipped galvanized steel fasteners, hangers, anchors, rods, straps, trim and angles for support of piping.
35. Piping Supports (Plastic Pipe)
   a. Furnish and install hangers for plastic piping per manufacturer's requirements.
36. Temperature Controls and Control Wiring
   a. The mechanical contractor shall provide all control wiring necessary for the complete and proper operating temperature control system. Programmable thermostats shall be provided with equipment packages unless otherwise noted.
   b. Exposed wiring: All wiring exposed to the space shall be run in conduit. Coordinate requirements with architectural drawings.
37. Testing, Balancing, and Adjusting
   a. The individual performing the air balancing shall be a certified test and balancer and a member of NEBB or AABC, using calibrated equipment. The certified air balance contractor shall accurately balance the systems to provide air quantities as indicated on the drawings and in the schedules/specifications, operate automatic control systems, and verify set points during balancing.
38. Sequence of Operation
   a. Heaters
      1. EWH-1/2: heater shall be controlled from the integral thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the electric heating element shall engage to maintain temperature setpoint.
      2. UH-1: unit heater shall run off a wall thermostat. When the temperature of the space drops below the thermostat setpoint, the heater fan shall run and the gas heat exchanger shall fire to maintain temperature setpoint.
   B. ERV
      1. ERV-1: exhaust fan shall run on a timeclock (furnished by the electrical contractor). The fan shall be set to run during occupied mode as determined by the architect/owner.
      2. Ventilation - the fan for both airstreams shall run during occupied mode to provide building ventilation/make-up and exhaust air.
   C. Split Systems
      1. AHU/CU-1:
      2. Cooling mode - when the thermostat calls for cooling the condensing unit shall engage, the fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint.
      3. AHU/HP-2:
      4. Heating mode - indoor air handler shall be controlled from a thermostat in the space. When the thermostat calls for heating the fan shall run and the heat pump in heating mode shall run to maintain temperature setpoint. If the heat pump cannot maintain temperature in the space, the electric heat kit shall energize until set point is reached. When the setpoint is reached the unit shall shut off.
      5. Cooling mode - when the thermostat calls for cooling the heat pump unit shall run in cooling mode, the air handler fan shall run, and the dx cooling coil shall cool the air to maintain temperature setpoint.

### Sequence of Operation: VAV TERMINAL UNIT

**Building Automation System Interface:**
The Building Automation System (BAS) shall send the controller Occupied, and Unoccupied commands. The BAS may also send a Heat/Cool mode, priority shutdown commands, space temperature and/or space temperature setpoint. If communication is lost with the BAS, the controller shall operate using its local setpoints.

**Occupied:**
The occupancy mode shall be communicated or hardwired to the controller via a binary input. When the unit is in the occupied mode the VAV shall maintain the space temperature at the active occupied heating or cooling setpoint. Applicable ventilation and airflow setpoints shall be enforced. The occupied mode shall be the default mode of the VAV. Applicable ventilation and airflow setpoints shall be enforced. The occupied mode shall be the default mode of the VAV.

**Occupied Standby:**
The occupancy mode shall be communicated or hardwired to the controller via a binary input, even though the BAS has scheduled the space as occupied. In the occupied standby mode, the active cooling and heating setpoints shall be relaxed (see cooling and heating mode) and both the ventilation airflow and minimum airflow setpoints shall be lowered (see VAV schedule).

**Unoccupied:**
Normal operating mode for unoccupied spaces or nighttime operation. When the unit is in unoccupied mode the VAV controller shall maintain the space temperature at the stored unoccupied heating or cooling setpoint regardless of the presence of a hardwired or communicated setpoint. When the space temperature drops below its Unoccupied Heating Setpoint, the controller shall modulate the air damper and the hot water valve until the zone temperature rises back to 2.0 deg. F above the Unoccupied Heating Setpoint. When the space temperature exceeds the active unoccupied setpoint the hot water valve shall the air damper and hot water valve shall modulate fully closed.

**Occupied Bypass:**
Mode used to temporarily place the unit into the occupied operation. Tenants shall be able to override the unoccupied mode from the space sensor. The override shall last for a maximum of 4 hours (adj.). The tenants shall be able to cancel the override from the space sensor at any time. During the override the unit shall operate in occupied mode.

**Heat/Cool Setpoint:**
The space temperature setpoint shall be determined either by a local (e.g., thumbwheel) setpoint, the VAV default setpoint or a communicated value. The VAV shall use the locally stored default setpoints when neither a local setpoint nor communicated setpoint is present. If both a local setpoint and communicated setpoint exist, the VAV shall use the communicated value.

**Cooling Mode:**
When the unit is in cooling mode, the VAV controller shall maintain the space temperature at the active cooling setpoint by modulating the airflow between the active cooling minimum airflow setpoint to the maximum cooling airflow setpoint. The VAV shall use the measured space temperature and the active cooling setpoint to determine the requested cooling capacity of the unit. The outputs shall be controlled based on the unit configuration and the requested cooling capacity.
Based on the VAV controller occupancy mode, the active cooling setpoint shall be one of the following:

| Setpoint | Default Value |
|---|---|
| Occupied Cooling Setpoint | 74.0 deg. F |
| Unoccupied Cooling Setpoint | 80.0 deg. F |
| Occupied Standby Cooling Setpoint | 78.0 deg. F |
| Occupied Min Cooling Airflow Setpoint | See VAV Schedule |
| Occupied Max Cooling Airflow Setpoint | See VAV Schedule |

**Heating Mode:**
Reheat shall only be allowed when the supply air temperature is 5.0 deg. F below the configured reheat enable setpoint of 70.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

| Setpoint | Default Value |
|---|---|
| Occupied Heating Setpoint | 71.0 deg. F |
| Unoccupied Heating Setpoint | 60.0 deg. F |
| Occupied Standby Heating Setpoint | 67.0 deg. F |
| Occupied Min Heating Airflow Setpoint | See VAV Schedule |
| Occupied Max Heating Airflow Setpoint | See VAV Schedule |

**Local Reheat Control:**
Reheat shall only be allowed when the primary air temperature is 5.0 deg. F below the configured reheat enable setpoint of 70.0 deg. F (adj.). The reheat shall be enabled when the space temperature drops below the active heating setpoint and the minimum airflow requirements are met. During reheat the VAV shall operate at its minimum heating airflow setpoint and energize the heat as follows:

**Electric Silicon Controlled Rectifier Reheat (SCR):**
If the space temperature is at the heating setpoint, the electric heater shall modulate as required to maintain space temperature at the active heating setpoint while the VAV operates at its minimum heating airflow setpoint. If the discharge air temperature reaches the design heating discharge air temperature setpoint (adj.), the VAV shall modulate airflow between the minimum heating airflow setpoint and the maximum heating airflow setpoint as required to maintain space temperature at the active heating setpoint, while the electric heater modulates to maintain discharge air temperature at the design heating discharge air temperature setpoint. If the airflow reaches the maximum heating airflow setpoint, the VAV shall modulate the electric heater as required to maintain space temperature at the active heating setpoint, while the VAV operates at its maximum heating airflow setpoint

**Space Sensor Failure:**
If there is a fault with the operation of the zone sensor an alarm shall be annunciated at the BAS. Space sensor failure shall cause the VAV to drive the damper to minimum air flow if the VAV is in the occupied mode, or drive it closed if the VAV is in the unoccupied mode.

### Sequence of Operation: PACKAGED RTU

**Building Automation System Interface:**
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. The BAS shall also send the discharge air temperature setpoint and the duct static pressure setpoint. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

**Occupied:**
During occupied periods, the supply fan shall run continuously. The unit controller shall control the supply fan speed to maintain the current supply duct static pressure setpoint (adj.). Upon a call for DX cooling, the unit controller shall enable the first fixed speed compressor. If the fixed speed compressor cannot satisfy the load conditions, the unit controller shall start the next fixed speed compressor in sequence to add to the total unit cooling load percentage. This process shall repeat until all of the fixed speed compressors have been started or until the active discharge air temperature setpoint is satisfied. The gas heat shall be enabled and controlled to maintain the active discharge air temperature setpoint. If the discharge air temperature sensor fails, the DX cooling shall be disabled, the gas heat shall be disabled, and an alarm shall annunciate at the BAS.

**Unoccupied:**
When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall be commanded on and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled. When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall be commanded on and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F minus the unoccupied differential 4.0 deg. F (adj.) the supply fan shall stop and the DX cooling shall be disabled.

**Optimal Start:**
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.
**Optimal Stop:**
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

**Morning Warm-Up Mode:**
During optimal start, if the average space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and fan(s). When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

**Pre-Cool Mode:**
During optimal start, if the average space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling. The outside air damper shall remain closed. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

**Occupied Bypass:**
The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensors. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).
**Heat/Cool Mode:**

COOLING: The unit controller shall use the discharge air temperature sensor and discharge air temperature cooling setpoint to determine when to initiate requests for cooling. Discharge air setpoint shall be maintained by controlling the cooling as required.

HEATING: The unit controller shall use the discharge air temperature sensor and discharge air temperature heating setpoint to determine when to initiate requests for heating. Discharge air setpoint shall be maintained by controlling the heating as required. During Unoccupied Heating or Morning Warm-Up Mode, the unit heat request shall be communicated to the system VAVs prior to commencing heating operation to allow VAV units to open. The variable frequency drive shall be commanded to 100% and the heat shall be staged on and off to satisfy the zone temperature setpoint.

**Supply Fan:**
The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode.

**Static Pressure High Limit:**
If for any reason the supply air pressure exceeds the fixed supply air pressure limit of 3.5 inches of W.C. the supply fan shall shut down. The unit shall be allowed to restart three times. If the over pressurization condition occurs on the fourth restart, the unit shall shut down and a manual reset diagnostic is displayed at the remote panel and/or the BAS system.

**Filter Status:**
A differential pressure switch shall monitor the differential pressure across the filter(s) when the fan is running. If the switch closes during normal operation a dirty filter alarm shall annunciate at the BAS.
**Refrigerant Mitigation Mode:**
The unit controller shall monitor the leak detection system, when a leak is detected, an alarm shall promptly alert the BAS via BACnet Change-of-Value (COV) and mitigation shall be activated.

In occupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

In unoccupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

**Economizer:**

1.Economizer Enable
   -Economizer enables when OA enthalpy < RA enthalpy and all sensors are valid.
   -OA temperature must be above low-limit.
   -A call for cooling is present.

2. Economizer Cooling Operation
   -On a cooling call and economizer enabled, the OA damper modulates open to maintain 55°F mixed-air temperature.
   -RA damper modulates opposite of OA damper.
   -If OA damper reaches full open and additional cooling is needed, mechanical cooling stages energize as required.

3. Minimum Ventilation
   -When no cooling call exists or economizer is disabled, OA damper closes.

4. Low-Limit Protection
   -If mixed-air temperature drops below low limit, OA damper modulates closed to protect coils.
   -If temperature continues dropping, economizer disables and OA damper closes.

5. High OA Enthalpy/Temperature Lockout
   -Economizer disables and OA damper returns closes if OA enthalpy becomes higher than RA or exceeds high-limit setpoint.

6. Damper Fail-Safe
   -On loss of power or control signal:
      -OA damper fails closed
      -RA damper fails open

7. Fault Conditions
   -Economizer disables and generates a fault/alarm if:
      -OA or RA enthalpy sensor fails
      -Damper actuator fault/stuck condition
      -Mixed-air temperature out of range

**Points List - PACKAGED RTU**

| Point Name | POINTS: GRAPHIC | ANALOG HARDWARE INPUT (AI) | BINARY HARDWARE INPUT (BI) | ANALOG HARDWARE OUTPUT (AO) | BINARY HARDWARE OUTPUT (BO) | SOFTWARE POINT (SFT) | HARDWARE INTERLOCK (HDW) | WIRELESS (WLS) | NETWORK (NET) | ALARMS: HIGH ANALOG LIMIT | LOW ANALOG LIMIT | BINARY | LATCH DIAGNOSTIC | SENSOR FAIL | COMMUNICATION FAIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMPRESSOR 1 COMMAND CMP1 | X | | | | X | | | | | | | | | | |
| COMPRESSOR 2 COMMAND CMP2 | X | | | | X | | | | | | | | | | |
| COMPRESSOR 3 COMMAND CMP3 | X | | | | X | | | | | | | | | | |
| COOLING OUTPUT COMMAND CLG | X | | | X | | | | | | | | | | | |
| DISCHARGE AIR STATIC PRESSURE LOCAL DA SP | | X | | | | | | | | X | X | | X | | |
| DISCHARGE AIR TEMPERATURE DAT | X | X | | | | | | | | | | | | X | |
| GAS HEAT STAGE 1 GH1 | X | | | | X | | | | | | | | | | |
| GAS HEAT STAGE 2 GH2 | X | | | | X | | | | | | | | | | |
| HEATING OUTPUT 1 HT1 | X | | | | X | | | | | | | | | | |
| HEATING OUTPUT 2 HT2 | X | | | | X | | | | | | | | | | |
| PRIMARY FILTER STATUS LOCAL FIL | X | | X | | | | | | | | | X | | | |
| REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR A R ALM A | | X | | | | | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR B R ALM B | | X | | | | | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR C R ALM C | | X | | | | | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION ALARM THRESHOLD SENSOR D R ALM D | | X | | | | | | | | | | | | | |
| REFRIGERANT CONCENTRATION BAS R PPM | | | | X | | | | | | | | | | | |
| REFRIGERANT HIGH SIDE PRESSURE (63HS1) R HI | | X | | | | | | | | | | | | | |
| REFRIGERANT LOW SIDE PRESSURE (63LS) R LO | | X | | | | | | | | | | | | | |
| DUCT REFRIGERANT MONITOR R PPM | | X | | | | | | | | | | | | | |
| REFRIGERANT LEAK DETECTION SYSTEM INPUT R IN | | | X | | | | | | | | | | | | |
| REFRIGERANT LEAK SENSOR COMMUNICATION STATUS SENSOR A R STS A | | | | | | X | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION SENSOR A R PPM A | | X | | | | | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION SENSOR B R PPM B | | X | | | | | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION SENSOR C R PPM C | | X | | | | | | | | | | | | | |
| REFRIGERANT LFL CONCENTRATION SENSOR D R PPM D | | X | | | | | | | | | | | | | |
| REFRIGERANT MITIGATION ACTIVE R MGT | | | X | | | | | | | | | | | | |
| REFRIGERANT TYPE R TYPE | | | | | | X | | | | | | | | | |
| SUPPLY FAN SPEED SAF | | | | X | | | | | | | | | | | |
| SUPPLY FAN START/STOP SAF | X | | | | X | | | | | | | | | | |
| APPLICATION MODE APP MODE | | | | | | X | | | | | | | | | |
| BAS COMMUNICATION STATE BAS COM | | | | | | X | | | | | | | | | X |
| COMPRESSOR ENABLE CMP ENA | X | | | | | X | | | | | | | | | |
| COMPRESSOR LOCKOUT STATUS CMP LCK | | | | | | X | | | | | | | | | |
| COOL OUTPUT CLG | | | | | | X | | | | | | | | | |
| DISCHARGE AIR STATIC PRESSURE SETPOINT DA SP SPT | X | | | | | X | | | | | | | | | |
| FAN MODE COMMAND FAN MODE | | | | | | X | | | | | | | | | |
| FILTER TIMER HOURS FIL HRS | | | | | | X | | | | | | | | | |
| HEAT / COOL MODE REQUEST H/C REQ | X | | | | | X | | | | | | | | | |
| HEAT OUTPUT HTG | | | | | | X | | | | | | | | | |
| OCCUPANCY OCC | X | | | | | X | | | | | | | | | |
| OCCUPIED COOLING SETPOINT OCC CLG SP | X | | | | | X | | | | | | | | | |
| TIMED OVERRIDE STATUS TOV | | | | | | X | | | | | | | | | |
| UNOCCUPIED COOLING SETPOINT UNOCC CLG SP | X | | | | | X | | | | | | | | | |
| UNOCCUPIED HEATING SETPOINT UNOCC HTG SP | X | | | | | X | | | | | | | | | |
| COOLING COIL LEAVING TEMPERATURE CCT | X | X | | | | | | | | | | | | | |

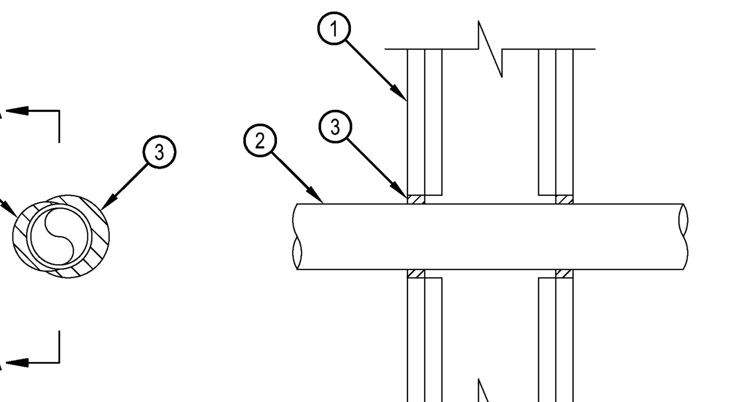
**Points List - VAV TERMINAL UNIT**

| Point Name | POINTS: GRAPHIC | ANALOG HARDWARE INPUT (AI) | BINARY HARDWARE INPUT (BI) | ANALOG HARDWARE OUTPUT (AO) | BINARY HARDWARE OUTPUT (BO) | SOFTWARE POINT (SFT) | HARDWARE INTERLOCK (HDW) | WIRELESS (WLS) | NETWORK (NET) | ALARMS: HIGH ANALOG LIMIT | LOW ANALOG LIMIT | BINARY | LATCH DIAGNOSTIC | SENSOR FAIL | COMMUNICATION FAIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AIR VALVE DRIVE OPEN COMMAND AIR VLV OPN | X | | | | X | | | | | | | | | | |
| AIR VALVE DRIVE CLOSE COMMAND AIR VLV CLS | X | | | | X | | | | | | | | | | |
| DISCHARGE AIR TEMPERATURE DAT | X | X | | | | | | | | X | X | | | X | |
| LOCAL HEAT ELECTRIC SCR OUTPUT EH | X | | | X | | | | | | | | | | | |
| SPACE TEMPERATURE LOCAL SPT | X | | | | | | | X | | | | | | | |
| SPACE TEMPERATURE SETPOINT LOCAL SPT SP | X | | | | | | | X | | | | | | | |
| SUPPLY AIRFLOW DA FLW | X | X | | | | | | | | X | X | | | | |
| BAS COMMUNICATION STATE BAS COM | | | | | | X | | | | | | | | | X |
| DESIGN HEAT DISCHARGE AIR TEMP SETPOINT DSNG HT DAT SP | | | | | | X | | | | | | | | | |
| MAXIMUM COOLING AIRFLOW SETPOINT MAX CLG FLW SP | | | | | | X | | | | | | | | | |
| MINIMUM COOLING AIRFLOW SETPOINT MIN CLG FLW SP | | | | | | X | | | | | | | | | |
| MAXIMUM HEATING AIRFLOW SETPOINT MAX HTG FLW SP | | | | | | X | | | | | | | | | |
| MINIMUM HEATING AIRFLOW SETPOINT MIN HTG FLW SP | | | | | | X | | | | | | | | | |
| OCCUPIED BYPASS TIMER OCC TMR | X | | | | | X | | | | | | | | | |
| OCCUPIED COOLING SETPOINT OCC CLG SP | X | | | | | X | | | | | | | | | |
| OCCUPIED HEATING SETPOINT OCC HTG SP | X | | | | | X | | | | | | | | | |
| UNOCCUPIED COOLING SETPOINT UNOCC CLG SP | X | | | | | X | | | | | | | | | |
| SPACE OCCUPANCY (COMMUNICATED) OCC SP | X | | | | | | | | X | | | | | | |
| UNOCCUPIED HEATING SETPOINT UNOCC HTG SP | X | | | | | X | | | | | | | | | |

CLASSIFIED
Classified by Underwriters Laboratories, Inc. to UL 1479

### System No. W-L-2474
**F Ratings — 1 and 2 Hr (See Item 1)**
**T Rating —0 Hr**
**L Rating At Ambient — Less Than 1 CFM/Sq Ft**
**L Rating at 400 F — 4 CFM/Sq Ft**

WL 2474




1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL fire Resistance Directory and shall include the construction features noted below:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than the nom pipe diam.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and the periphery of the opening shall be min 0 in. (point contact) to a max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) cellular or solid core Schedule 40 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
   C. Crosslinked Polyethylene (PEX) Tubing — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
   D. Rigid Nonmetallic Conduit (RNC)+ — Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* - Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location, a min 5/8 in. (16 mm) diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
\+ Bearing the UL Listing Mark

HILTI
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. September 05, 2024


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

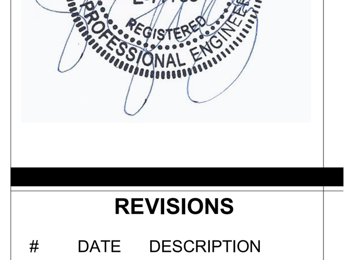

SANTA MARIA COMMUNITY SERVICES

model group

JS | HELD

# SANTA MARIA COMMUNITY SERVICES
**1048 CONSIDINE AVE.**
**CINCINNATI, OHIO 45205**

CERTIFICATION




**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568
**DRAWN:** RTT **CHECKED:** SSS


rtm
engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM


**MECHANICAL DETAILS**

# M302

## ELECTRICAL ABBREVIATIONS:

| | |
|---|---|
| A | AMPS |
| A/E | ARCHITECT/ENGINEER |
| ABV | ABOVE |
| AC | ABOVE COUNTER |
| ACP | ACCESS CONTROL PANEL |
| ACPS | ACCESS CONTROL POWER SUPPLY |
| ACS | ACCESS CONTROL SYSTEM |
| AF | AMP FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AIC | AVAILABLE INTERRUPTING CURRENT |
| ALT | ALTERNATE |
| ALT SW | ALTERNATOR SWITCH |
| ARCH | ARCHITECT |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AV | AUDIO-VISUAL |
| BC | BELOW COUNTER |
| BFG | BELOW FINAL GRADE |
| BKR | BREAKER |
| BLDG | BUILDING |
| BOL | BUILT IN OVERLOAD |
| BPC | BOLTED PRESSURE CONTACT SWITCH |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CKT | CIRCUIT |
| CLG | CEILING |
| CP | CONTROL PANEL |
| CS | COMBINATION STARTER |
| CT | CURRENT TRANSFORMER |
| CTRL | CONTROLLER |
| DE | DUAL ELEMENT FUSES |
| DIR | DIRECT |
| DISC | DISCONNECT |
| DN | DOWN |
| EC | ELECTRICAL CONTRACTOR |
| ELEV | ELEVATION REFERENCE |
| EM | EMERGENCY |
| EMT | ELECTRIC METALLIC TUBING |
| ENT | ELECTRICAL NON-METALLIC TUBING |
| EOL | END OF LINE RESISTOR |
| EP | EXPLOSION PROOF |
| EQUIP | EQUIPMENT |
| EWC | ELECTRIC WATER COOLER |
| F | FUSE |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL |
| FAC | FIRE ALARM CABINET |
| FACP | FIRE ALARM CONTROL PANEL |
| FBO | FURNISHED BY OTHERS |
| FDR | FEEDER |
| FIXT | FIXTURE |
| FLA | FULL LOAD AMPS |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FS | FLOW SWITCH |
| FVNR | FULL VOLTAGE NON-REVERSING |
| GC | GENERAL CONTRACTOR |
| GFI | GROUND FAULT INTERRUPTER |
| GRC | GALVANIZED RIGID CONDUIT |
| GRD | GROUND |
| GYP | GYPSUM BOARD |
| HID | HIGH INTENSITY DISCHARGE |
| HOA | HAND-OFF-AUTO SWITCH |
| HP | HORSEPOWER |
| HPS | HIGH PRESSURE SODIUM |
| HV | HIGH VOLTAGE |
| HVAC | HEATING & VENTILATING - AIR CONDITIONING |
| HVC | HEATING VENTILATING CONTRACTOR |
| HW | HEAVYWALL |
| ICP | INTERCOM CONTROL PANEL |
| ICPS | INTERCOM POWER SUPPLY |
| ID | INDIRECT |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IL | INTERLOCK |
| IMC | INTERMEDIATE METAL CONDUIT |
| INC | INCANDESCENT |
| IU | IN UNIT |
| J-BOX | JUNCTION BOX |
| LCP | LIGHTING CONTROL PANEL |
| LG | LAY-IN GRID |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| LVT | LINE VOLTAGE THERMOSTAT |
| MAG | MAGNETIC STARTER |
| MAN | MANUAL STARTER |
| MCC | MOTOR CONTROL CENTER |
| MDF | MAIN DISTRIBUTION FRAME |
| MDP | MAIN DISTRIBUTION PANEL |
| MFR | MANUFACTURERR |
| MLO | MAIN LUGS ONLY |
| MSB | MAIN SWITCHBOARD |
| MTD | MOUNTED |
| NIC | NOT IN CONTRACT |
| NU | NEAR UNIT |
| OU | ON UNIT |
| P | POLE |
| PB | PUSH BUTTON |
| PC | PHOTO CONTROL |
| PCP | PAGING CONTROL PANEL |
| PCPS | PAGING CONTROL POWER SUPPLY |
| PE SW | PNEUMATIC SWITCH |
| PEND | PENDANT |
| PLBG | PLUMBING CONTRACTOR |
| PNL | PANEL |
| R | RELAY |
| REC | RECESS |
| RECEPT | RECEPTACLE |
| RM | ROOM |
| RVS | REDUCED VOLTAGE STARTING |
| S | SPLINE |
| SDB | SUB-DISTRIBUTION BOARD |
| SEL SW | SELECTOR SWITCH |
| SP SW | SPEED SWITCH |
| SURF | SURFACE |
| SW | SWITCH |
| T-STAT | THERMOSTAT |
| TC | TIME CLOCK |
| TCC | TEMPERATURE CONTROL CONTRACTOR |
| TCP | TEMPERATURE CONTROL PANEL |
| TS | TAMPER SWITCH |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UNIV | UNIVERSAL |
| USS | UNIT SUBSTATION |
| VS | VIDEO SURVEILLANCE |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

## RENOVATION LEGEND:

| | |
|---|---|
| <E> | EXISTING TO REMAIN |
| <EC> | EXISTING DEVICE TO REMAIN, NEW CIRCUIT AS INDICATED |
| <ED> | EXISTING LOCATION, NEW DEVICE OR EQUIPMENT TO BE INSTALLED IN PLACE |
| <EL> | EXISTING LIGHT FIXTURE TO REMAIN, NEW LAMPING AS INDICATED |
| <ER> | EXISTING TO BE RELOCATED |
| <EO> | EXISTING TO BE REMOVED |
| <EN> | EXISTING IN NEW LOCATION |
| <N> | NEW |
| <RAI> | REMAIN AS IS |

## SYMBOL LIST NOTE:

MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE MEASURED FROM FLOOR TO CENTERLINE OF DEVICE. DEVICES EXTENDING GREATER THAN 4" FROM THE WALL SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 80" AFF TO BOTTOM OF DEVICE.

## PANELS:

'XXX' 'XXX' — ELECTRICAL PANEL - SURFACE / RECESSED

## EQUIPMENT CABINETS:

WITHOUT DOOR - SURFACE / RECESSED

WITH DOOR - SURFACE / RECESSED

'XXX' 'XXX'

DENOTES THE FOLLOWING
- (BDAP) BI-DIRECTIONAL AMPLIFIER PANEL (2 WAY COMM)
- (ERP) ELEVATOR RECALL PANEL
- (ESP) ELEVATOR STATUS PANEL
- (FAAP) FIRE ALARM ANNUNCIATOR PANEL
- (FACP) FIRE ALARM CONTROL PANEL
- (GAP) GENERATOR ANNUNCIATOR PANEL
- (HPCP) HOSPITAL PAGING CONTROL PANEL
- (LCP) LIGHTING CONTROL PANEL
- (MSCP) MUSIC SYSTEM CONTROL PANEL
- (NACP) FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT - CONTROL PANEL
- (NCCP) NURSE CALL CONTROL PANEL
- (RACP) RESCUE ASSISTANCE CONTROL PANEL
- (SACP) SECURITY ACCESS CONTROL PANEL
- (SCP) SMOKE CONTROL PANEL
- (SMCP) SOUND MASKING CONTROL PANEL

## POWER:

SIMPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

X XXX — DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE RECEPTACLE TYPE OR EQUIPMENT SERVED
- (AF) ARC FLASH (AFCI)
- (CL) CLOCK RECEPTACLE
- (CM) COFFEE MAKER
- (D) DEDICATED CIRCUIT
- (DD) DOUBLE DUPLEX
- (FZR) FREEZER
- (ICE) ICE MAKER
- (MW) MICROWAVE
- (REF) REFRIGERATOR
- (TR) TAMPER RESISTANT
- (TV) MOUNTED ADJACENT TO TELEVISION
- (UCR) UNDER CABINET REFRIGERATOR
- (WP) WEATHERPROOF WITH GFI RECEPTACLE

X DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES)

DUPLEX RECEPTACLE - ISOLATED GROUND - MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - GFCI - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

DUPLEX RECEPTACLE - CEILING MOUNTED

DUPLEX RECEPTACLE - FURNITURE MOUNT

NON NEMA 5-20R RECEPTACLE

QUADRUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - SWITCHED TOP HALF - MOUNTED 18" AFF UNLESS NOTED OTHERWISE

QUADRUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT

QUADRUPLEX RECEPTACLE - CEILING MOUNTED

QUADRUPLEX RECEPTACLE - FURNITURE MOUNT

QUADRUPLEX RECEPTACLE - ISOLATED GROUND

SPECIAL OUTLET (SEE SCHEDULE). WALL / CEILING OR FLOOR MOUNTED

FLOOR MOUNTED ELECTRICAL BOX (SEE SCHEDULE FOR DEVICES REQUIRED)

# DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES) - TYPICAL

X INDICATES DEVICE TYPE (SEE SCHEDULE)

POWER POLE. X DENOTES DEVICE TYPE AND INCLUDED RECEPTACLES.

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

MOTOR STARTER

METER SOCKET

TRANSFORMER. WALL / FLOOR MOUNTED

T-XX T-XX — INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD

JUNCTION BOX WITH WHIP FOR FURNITURE FEED

JUNCTION BOX

PULL BOX

LIGHTNING PROTECTION SYSTEM

XXX DENOTES THE FOLLOWING
- (ATH) AIR TERMINAL ROOF DECK
- (ATV) AIR TERMINAL PARAPET
- (GRD) GROUND TO DOWN CONDUCTOR
- (GRS) GROUND TO BUILDING STEEL
- (RPD) ROOF PENETRATION TO DOWN CONDUCTOR
- (RPS) ROOF PENETRATION TO BUILDING STEEL

PUSHBUTTON SWITCH - MOUNT AT 44" AFF UNLESS NOTED OTHERWISE

XXX DENOTES THE FOLLOWING
- (CD) COMPUTER DROP OUT
- (D) DOOR BELL STATION
- (EPO) EMERGENCY - POWER OFF STATION
- (ES) EQUIPMENT SHUTDOWN
- (F) FAN SHUTDOWN

AUTOMATIC DOOR OPERATOR (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)

GROUND MODULE

GROUND ROD

MARK / NUMBER — EQUIPMENT TAG

MOTOR CONNECTION

CONDUCTOR QUANTITY IN RACEWAY. NUMBERS INDICATE WIRE SIZES (AWG).
- INDICATES PHASE CONDUCTOR
- INDICATES NEUTRAL CONDUCTOR
- INDICATES GREEN GROUND CONDUCTOR

## LIGHTING:

NOTE: SHADING ANY OF THE LIGHTING FIXTURE INDICATES UNIT IS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.

CEILING MOUNTED FIXTURE - SURFACE / RECESSED

1Ra A
- FIXTURE DESIGNATION (SEE SCHEDULE)
- SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR
- SWITCHING DEVICE. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH AND/OR OCCUPANCY SENSOR. (R) CIRCUIT SWITCHED VIA RELAY IN RELAY CABINET
- CIRCUIT NUMBER (SEE PANEL BOUNDARIES)

ILLUMINATED DOME FIXTURE - RECESSED

STRIP LIGHT FIXTURE

LINEAR WALL MOUNTED FIXTURE

TRACK LIGHT FIXTURE - SPOT LIGHT / PENDANT

CEILING MOUNTED DOWNLIGHT FIXTURE - SURFACE / RECESSED

CEILING MOUNTED DOWNLIGHT FIXTURE - WALL WASH - SURFACE / RECESSED

POLE MOUNTED FIXTURE

WALL MOUNTED FIXTURE - SURFACE / RECESSED

GROUND MOUNTED FIXTURE - BOLLARD / FLOOD OR ACCENT

EXIT LIGHT - WALL MOUNTED / CEILING MOUNTED PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLAN

EMERGENCY BATTERY POWER SPOT ILLUMINATION UNIT - DUAL HEAD LIGHT - WALL MOUNT 12" BELOW CEILING UNLESS NOTED OTHERWISE.

BATTERY PACK REMOTE HEAD SPOT ILLUMINATION UNIT

## SWITCHING DEVICES:

NOTE: ALL SWITCHING DEVICES SHALL BE MOUNTED AT 44" AFF, UNLESS OTHERWISE NOTED.

SINGLE POLE TOGGLE SWITCH

XX DENOTES THE FOLLOWING
- (2) DOUBLE POLE
- (3) 3 WAY
- (4) 4 WAY
- (DLS) DUAL LEVEL SWITCHING
- (K) KEY OPERATED
- (P) WITH PILOT LIGHT INDICATION
- (T) TIMER SWITCH

X DENOTES SWITCH DESIGNATION (LOWER CASE)

DIMMER SWITCH

MOMENTARY CONTACT SWITCH

SURGICAL LIGHT CONTROL

DAYLIGHT SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

MOTION DETECTOR.

OCCUPANCY SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

VACANCY SENSOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

CONTACTOR. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

DIMMING SYSTEM CONTROL STATION. X DENOTES STATION IDENTIFIER (SEE SCHEDULE)

LOW VOLTAGE SWITCH STATION. X DENOTES STATION IDENTIFIER (SEE SCHEDULE)

PHOTO-CONTROL. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

TIME CLOCK. X DENOTES SPECIFIC UNIT (SEE SCHEDULE)

POWER PACK

## TECHNOLOGY:

REFER TO TECHNOLOGY OUTLET SCHEDULE FOR DEVICE REQUIREMENTS

# DENOTES QUANTITY
X DENOTES DEVICE TYPE (SEE SCHEDULE)

TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 4" ABOVE COUNTER/COUNTER BACKSPLASH WHERE PRESENT.

TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. 18" AFF UNLESS NOTED OTHERWISE.

TECHNOLOGY OUTLET WITH BACKBOX, CONDUIT, AND INDICATED DEVICES AND CABLES. FURNITURE MOUNTED.

FLOOR MOUNTED DATA BOX (SEE SCHEDULE FOR DEVICES REQUIRED)

CEILING MOUNTED DATA BOX (SEE SCHEDULE FOR DEVICES REQUIRED)

X INDICATES DEVICE TYPE (SEE SCHEDULE)

WAP WAP — WIRELESS ACCESS POINT (REFER TO TECHNOLOGY OUTLET SCHEDULE)

SLEEVE THROUGH WALL

FIRE RATED SLEEVE THROUGH FLOOR

CONDUIT SLEEVE THROUGH FLOOR

FREE STANDING OPEN FRAME DATA CABINET. (HEAVY LINE INDICATES FRONT OF CABINET)

FREE STANDING ENCLOSED FRAME DATA CABINET. FLOOR MOUNTED / WALL MOUNTED. (HEAVY LINE INDICATES FRONT OF CABINET)

GROUND BUS BAR

LADDER RACK / CABLE TRAY

XX DENOTES TYPE:
- (LR) LADDER RACK
- (CT) CABLE TRAY

RACK / TRAY HEIGHT

HEIGHT TO BOTTOM OF RACK / TRAY

RACK / TRAY WIDTH

TELEVISION SYSTEM

XX DENOTES THE FOLLOWING
- (CC) REMOTE TELEVISION CHANNEL CHANGER
- (CT) CABLE TELEVISION OUTLET
- (CV) REMOTE TELEVISION CHANNEL CHANGER WITH VOLUME CONTROL
- (DVR) DIGITAL VIDEO RECORDER
- (MA) MASTER ANTENNA OUTLET
- (MC) MASTER ANTENNA OUTLET CEILING MOUNTED
- (MO) CLOSED CIRCUIT TELEVISION MONITOR
- (MS) MASTER ANTENNA OUTLET MOUNTED AT A SPECIAL HEIGHT EITHER INDICATED ON THE DRAWINGS OR ON ARCHITECTURAL ELEVATIONS
- (MW) MASTER ANTENNA OUTLET WALL
- (NVR) NETWORK VIDEO RECORDER

XX / XX / XX — ANTENNA

ANTENNA TYPE:
- (BO) BY OTHERS
- (DR) DIRECTIONAL
- (MD) MULTIDIRECTIONAL
- (OD) OMNI DIRECTIONAL

SYSTEM SERVED:
- (AC) ATOMIC CLOCK
- (AF) AM/FM RADIO
- (AR) AMBULANCE RADIO
- (DAS) DISTRIBUTED ANTENNA SYSTEM
- (HR) HAM RADIO
- (RTLS) REAL TIM LOCATING SERVICES
- (TS) TELELMETRY SYSTEM
- (UHF) ULTRA HIGH FREQUENCY
- (VHF) VERY HIGH FREQUENCY

MOUNTING:
- (CM) CEILING MOUNT
- (RM) NON PENETRATING ROOF MOUNT
- (TM) ANTENNA TOWER MOUNT
- (WM) WALL MOUNT

## SECURITY:

DOOR HARDWARE INSTALLATION - CEILING / WALL (SEE DETAILS, ARCHITECTURAL PLANS AND SPECIFICATIONS)

XX DENOTES THE FOLLOWING
- (AA) AUTODOOR ACTUATOR (PUSH PLATE)
- (AM) AUTODOOR ACTUATOR (MOTION SENSOR)
- (AO) AUTODOOR OPERATOR
- (ED) ELECTRICAL EXITING DEVICE
- (DE) DELAYED EGRESS MODULE
- (EL) ELECTROMAGNETIC LOCK
- (ES) ELECTRICAL STRIKE
- (KS) KEY SWITCH
- (PS) POWER SUPPLY
- (PT) POWER TRANSFER HINGE
- (RL) RELAY MODULE
- (RM) SEPARATELY MOUNTED REQUEST TO EXIT MOTION SENSOR NOT ASSOCIATED WITH SECURITY SYSTEM

SECURITY, ACCESS CONTROL AND DOOR MOUNTING - CEILING / WALL

XX DENOTES THE FOLLOWING
- (BIO) BIOMETRIC READER
- (CR) CARD READER
- (DB) DURESS - PUSHBUTTON
- (DC) DOOR CONTACT
- (DP) DOOR POSITION INDICATOR SWITCH
- (DR) DOOR RELEASE - PUSHBUTTON
- (EL) ELECTROMAGNETIC LOCK
- (ES) ELECTRIC STRIKE
- (GB) GLASS BREAK DETECTOR
- (KE) KEYLESS ENTRY
- (KP) KEYPAD - SECURITY SYSTEM
- (KS) KEEPER SWITCH
- (MD) MOTION SENSOR - DUAL TECHNOLOGY
- (MI) MOTION SENSOR - INFRARED
- (MU) MOTION SENSOR - ULTRASONIC
- (PB) PANIC BUTTON
- (RM) REQUEST FOR EXIT - MOTION
- (RP) REQUEST FOR EXIT - PUSH BUTTON

INTERCOM SYSTEM - CEILING / WALL

XX DENOTES THE FOLLOWING
- (MD) MASTER STATION - DESK MOUNTED
- (MW) MASTER STATION - WALL MOUNTED
- (SD) SATELLITE STATION - DESK MOUNTED
- (SW) SATELLITE STATION - WALL MOUNTED

SECURITY CAMERA - CEILING / WALL

CXXX CXXX — CXXX DENOTES CAMERA NUMBER (SEE SCHEDULE)

## SYSTEMS:

XX/XX XX/XX — PAGING AND SOUND SYSTEM - CEILING / WALL

XX DENOTES THE FOLLOWING
- (DP) COMBINATION HOUSE PAGING & WIRED RADIO
- (DP) DEPARTMENTAL PAGING
- (HM) HOSPITAL MUSIC
- (HP) HOUSE PAGING
- (LM) LOCAL MUSIC
- (PM) PROCEDURE ROOM - MUSIC SYSTEM
- (PT) PROCEDURE ROOM - TWO WAY COMMUNICATION
- (SM) SOUND MASKING
- (TS) TELEVISION SOUND REINFORCEMENT SYSTEM WIRED
- (WR) RADIO

XX DENOTES THE FOLLOWING
- (CR) CEILING MOUNTED RECESSED SPEAKER
- (CS) CEILING MOUNTED SURFACE SPEAKER
- (FS) FOOT SWITCH
- (MC) MICROPHONE JACK - CEILING MOUNTED
- (MD) MICROPHONE JACK - DESK MOUNTED
- (MF) MICROPHONE JACK - FLOOR MOUNTED
- (MW) MICROPHONE JACK - WALL MOUNTED
- (RE) RE - ENTRANT TYPE HORN
- (VC) VOLUME CONTROL
- (VS) VOLUME CONTROL WITH 6 POSITION STATION SELECTOR
- (WR) WALL MOUNTED RECESSED SPEAKER
- (WS) WALL MOUNTED SURFACE SPEAKER

CLOCK SYSTEM - CEILING / WALL

XX DENOTES THE FOLLOWING
- (A1) ANALOG TYPE, 12" DIAMETER ROUND, SINGLE FACED
- (A2) ANALOG TYPE, 9" DIAMETER ROUND, SINGLE FACED
- (A3) ANALOG TYPE, 12" DIAMETER ROUND, DOUBLE FACED
- (A4) ANALOG TYPE, 9" DIAMETER ROUND, DOUBLE FACED
- (D1) DIGITAL TYPE, SINGLE FACED (HR:MIN:SEC)
- (D2) DIGITAL TYPE, SINGLE FACED (HR:MIN)
- (EC) ELAPSED TIME CONTROLLER
- (ET) ELAPSED TIMER
- (IP) IP CLOCK
- (RT) RECEIVER
- (TC) TIME CLOCK
- (WR) WIRELESS IP CLOCK

AREA OF RESCUE STATION - CEILING / WALL
WALL MOUNTED 44" AFF UNLESS NOTED OTHERWISE.

XX DENOTES THE FOLLOWING
- (MS) MASTER STATION
- (SA) SATELLITE ASSISTANCE STATION
- (FM) FLUSH MOUNT
- (SM) SURFACE MOUNT

## NOTIFICATION DEVICES:

- BELL - CHIME
- BELL - SINGLE STROBE
- BELL - SINGLE STROBE GONG / STROBE
- BELL - TROUBLE
- BELL - VIBRATING
- BELL - VIBRATING/STROBE
- COMBINATION HORN-STROBE - CEILING / WALL MOUNTED
- GONG
- REMOTE ALARM INDICATING AND TEST SWITCH
- ROTATING BEACON - CEILING / WALL MOUNTED
- SPEAKER - CEILING / WALL MOUNTED
- STROBE - CEILING / WALL MOUNTED
- COMBINATION SPEAKER-STROBE - CEILING / WALL MOUNTED
- GONG - WATER MOTOR
- MODULE - ADDRESSABLE INPUT
- MODULE - ADDRESSABLE INPUT / OUTPUT
- MODULE - ADDRESSABLE OUTPUT
- MODULE - NON-ADDRESSABLE OUTPUT RELAY

## DETECTORS:

COMBINED SMOKE-GAS DETECTOR - CEILING MOUNTED

COMBINED SMOKE-HEAT DETECTOR - CEILING MOUNTED

DUCT SMOKE DETECTOR - RECTANGULAR/SQUARE

FLAME DETECTOR - CEILING MOUNTED

XX DENOTES THE FOLLOWING
- (IR) INFRARED
- (UV) ULTRAVIOLET
- (UV/IR) COMBINED ULTRAVIOLET AND INFRARED
- (VR) VISIBLE RADIATION

X DENOTES THE FOLLOWING
- (W) WALL MOUNTED

GAS DETECTOR

XX DENOTES THE FOLLOWING
- (CO) CARBON MONOXIDE

HEAT DETECTOR - CEILING MOUNTED

XX DENOTES THE FOLLOWING
- (F) FIXED TEMPERATURE
- (R) RATE OF RISE
- (R/C) RATE COMPENSATION
- (R/F) COMBINED RISE AND FIXED TEMPERATURE

X DENOTES THE FOLLOWING
- (W) WALL MOUNTED

HEAT DETECTOR - CEILING MOUNTED
LINEAR TYPE HEAT SENSITIVE CABLE

X DENOTES THE FOLLOWING
- (W) WALL MOUNTED

SMOKE DETECTOR

XXX DENOTES THE FOLLOWING
- (ASD) AIR SAMPLING
- (BR) BEAM RECEIVER
- (BT) BEAM TRANSMITTER
- (I) IONIZATION
- (P) PHOTOELECTRIC
- (SS) SINGLE STATION

X DENOTES THE FOLLOWING:
- (W) WALL MOUNTED

- FLOW SWITCH
- TAMPER SWITCH
- TEST SWITCH FOR DUCT DETECTOR
- FOAM MANUAL PULL STATION
- MANUAL PULL STATION
- AUTOMATIC AND SUPERVISORY DETECTOR
- WATER PRESSURE SWITCH

## GENERAL:

REFERENCE NOTE SYMBOL

DETAIL NUMBER — BUILDING SECTION — SHEET NUMBER

DETAIL NUMBER — BUILDING ELEVATION — SHEET NUMBER

DETAIL NUMBER — CALLOUT BOUNDARY — SHEET NUMBER

DETAIL NUMBER — VIEW REFERENCE CALLOUT — SHEET NUMBER

+X' - X" — MOUNTING HEIGHT DESIGNATION


rtm engineering consultants
515 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

model group

JS|HELD


SANTA MARIA COMMUNITY SERVICES
1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION
STATE OF OHIO PAUL R. SPRONG PE 74471 REGISTERED PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTIO |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568
**DRAWN:** Author **CHECKED:** Checker

**ELECTRICAL AND FIRE ALARM LEGEND**

**E000**

## LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | MOUNTING | LAMP / LIGHT SOURCE | | | | | INPUT WATTS | DIMMING | VOLTAGE | MANUFACTURER | CATALOG NUMBER | SPECIFIC NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LAMP QTY | TYPE | LUMENS | CRI | CCT | | | | | | |
| A | 2X4 TROFFER | RECESSED | 1 | LED | 3900 | >80 | 4000K | 30 | 0-10 | 277 | ARCHIPELAGO | LBLP24-33MXP2 | |
| A1 | 2X2 TROFFER | RECESSED | 1 | LED | 3900 | >80 | 4000K | 30 | 0-10 | 277 | ARCHIPELAGO | LBLP22-33MXP2 | |
| A2 | 2X2 TROFFER | RECESSED | 1 | LED | 2600 | >80 | 4000K | 20 | 0-10 | 277 | ARCHIPELAGO | LBLP22-33MXP2 | |
| A3 | 2X2 TROFFER | RECESSED | 1 | LED | 2600 | >80 | 4000K | 20 | 0-10 | 277 | ARCHIPELAGO | LBLP22-33MXP2 | |
| B | RECESSED DOWNLIGHT | RECESSED | 1 | LED | 650 | >90 | 4000K | 6 | 0-10 | 277 | ENVISION LED | LED-CMDEX-6-3M24-5CCT-CUNV | |
| B2 | RECESSED DOWNLIGHT | RECESSED | 1 | LED | 900 | >90 | 4000K | 6 | 0-10 | 277 | ENVISION LED | LED-CMDEX-6-3M24-5CCT-CUNV | |
| C | LINEAR | SUSPEND | 1 | LED | 3900 | >90 | 4000K | 30 | 0-10 | 277 | ENVISION LED | LED-ELIN-4FT-3P50-5CCT-WH | |
| D | STRIP LIGHT | SURFACE | 1 | LED | 6500 | >80 | 4000K | 50 | 0-10 | 277 | ENVISION LED | LED-RST-8FT-3M60W-4CCT | |
| D2 | VAPOR TIGHT STRIP LIGHT | SURFACE | 1 | LED | 7500 | >80 | 4000K | 50 | 0-10 | 277 | ENVISION LED | LED-VPT-4FT-3P50-5CCT-UNV | |
| E | DECORATIVE FIXTURE | SUSPEND | 1 | LED | - | - | 4000K | 85 | 0-10 | 277 | techoLED | TECHOLED-FLX-6ID-40-S24-S-PA-DM | |
| F1 | COVE LTG | RECESSED | 1 | LED | 770/FT | 90 | 4000K | 7.7/FT | 0-10 | 277 | techoLED | TECHOLED-BX-2R-D-C-ME-40-U-X-R-DM-X-X | |
| H | WALL PACK | SURFACE | 1 | LED | 6960 | >80 | 4000K | 48 | 0-10 | 277 | ENVISION LED | LED-WPFC-5P80-TRI-BZ-PC | |
| J | DECORATIVE EXTERIOR SCONCE | SURFACE | 1 | LED | 900 | 90 | 4000K | 7 | 0-10 | 277 | STUDIO M | SM866422BK | |
| X1 | EXIT SIGN | UNV | 1 | LED | - | - | - | - | - | 277 | MULE LIGHTING, INC. | UX-B-W | |

**GENERAL NOTES:**

BOF = BOTTOM OF FIXTURE, RFD = RECESSED FIXTURE DEPTH, OFD = OVERALL FIXTURE DEPTH, OFH = OVERALL FIXTURE HEIGHT, TOP = TOP OF POLE, AFF = ABOVE FINISHED FLOOR
F=FORWARD PHASE, R=REVERSE PHASE/ELV, 0-10=1-10V, 3=3 WIRE, DALI = DALI, DMX=DMX512, STEP=STEP DIMMING, ND=NON DIM, NA=NON APPLICABLE
THE LUMINAIRE SCHEDULE CAN NOT BE USED INDEPENDENTLY OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN LUMINAIRE COSTS. THE INDIVIDUAL ESTABLISHING LUMINAIRE COSTS SHALL NOT QUOTE PRICING WITHOUT FIRST

A. SEEING APPLICABLE ELECTRICAL DRAWINGS AND ELECTRICAL DIVISION SPECIFICATIONS. THE CONTRACTOR IS REPONSIBLE FOR PROVIDING NECESSARY DRAWINGS AND SPECIFICATIONS TO THE INDIVIDUAL QUOTING LUMINAIRE PRICING.
B. ALL FINISHES TO BE REVIEWED AND VERIFIED BY ARCHITECT PRIOR TO PURCHASE.
C. PROVIDE ALL PARTS, PIECES, AND COMPONENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM. ELECTRICAL CONTRACTOR TO CONFIRM ALL MOUNTING ACCESSORIES PRIOR TO ORDER.
D. CONFIRM DIMMING PROTOCOL WITH FINAL CONTROLS SPECIFICATIONS AND SHOP DRAWINGS. ELECTRICAL CONTRACTOR TO VERIFY PRIOR TO ORDER
E. DECORATIVE WATTAGE AND DIMMING TYPE TO BE CONFIRMED WITH FINAL INTERIOR DESIGN DECORATIVE LIGHTING SPECIFICATIONS PRIOR TO RELEASE OF ORDER, AND WIRING TO BE PULLED ACCORDINGLY.
F. ELECTRICAL CONTRACTOR TO COORDINATE ALL ACCESS PANELS, DRIVER LOCATIONS, AND TRANSFORMER LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
G. ELECTRICAL CONTRACTOR TO CONFIRM FIXTURE COMPATIBILITY WITH CEILING TYPE AND CEILING THICKNESS PRIOR TO FINAL FIXTURE ORDER.
H. FOR ALL LINEAR FIXTURES, ELECTRICAL CONTRACTOR TO VERIFY EXACT FIXTURE LENGTHS PER FIELD MEASUREMENTS OR MILLWORK SHOP DRAWINGS, AS APPLICABLE.
I. ELECTRICAL CONTRACTOR TO VERIFY FEED AND LENGTH OF LEAD WIRES REQUIRED AND REVISE AS NECESSARY.
J. PROVIDE EXIT SIGN MOUNTING, FACES AND CHEVRONS PER PLANS.
K. FOR ALL DECORATIVE LIGHTING, REFER TO ARCHITECT DOCUMENTATION FOR FIXTURE MOUNTING HEIGHT.
L. CONTRACTOR SHALL PROVIDE HEAVY DUTY JUNCTION BOXES, RATED FOR 50 LBS OR GREATER, FOR ALL DECORATIVE PENDANTS.
M. SEE PLANS FOR AIMING INTENT FOR ADJUSTABLE LIGHTS AND WALLWASHERS. PRELIMINARILY AIM LIGHTS AS INDICATED VIA DIRECTIONAL ARROW ON LIGHTING PLANS. I.E. AT ARTWORK AND OR TABLES IN FIELD, PRIOR TO FINAL

**SPECIFIC NOTES:**

## TRANSFORMER SCHEDULE

| SIZE (KVA) | PRIMARY (480V, 3Ø, 3W) | | | SECONDARY (208V, 3Ø, 4W) | | | | GROUNDING ELECTRODE CONDUCTOR | DIMENSIONS (IN.) | | | HEAT LOSS (W) | WEIGHT (LBS.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FLA | OCPD | FEEDER | FLA | OCPD | FEEDER | | | HEIGHT | WIDTH | DEPTH | | |
| | | | | | | COPPER | ALUMINUM | | | | | | |
| 45 | 54 | 70A3P | 70(3WG) | 125 | 175A3P | (4#2/0 & 1#4 G) 2"C | (4#4/0 & 1#2 G) 2-1/2"C | 1-#4 | 35.32 | 25.5 | 21 | 1332 | 495 |
| 75 | 90 | 125A3P | 125(3WG) | 208 | 300A3P | (4-350 KCMIL & 1#2 G) 2-1/2"C | (4-500 KCMIL & 1#1/0 G) 3"C | 1-#2 | 42 | 30.06 | 22.75 | 2354 | 755 |

GENERAL NOTES:
A. PRIMARY OVERCURRENT PROTECTION PER N.E.C. TABLE 450.3(B);
B. SECONDARY OVERCURRENT PROTECTION PER N.E.C. TABLE 450.3(B)
C. BONDING AND GROUNDING CONDUCTOR PER N.E.C. TABLE 250.66
D. GROUNDING ELECTRODE CONDUCTORS ARE SIZED BASED ON COPPER CONDUCTORS
E. SEE PLANS FOR INCREASED CONDUCTOR SIZES DUE TO VOLTAGE DROP
F. CONDUIT SIZES ARE BASES ON NEC TABLE 4 (EMT) AND TABLE 5 (THHN INSULATION
G. DIMENSIONS AND WEIGHT FOR 15KVA TRANSFORMERS AND LARGER ARE BASED ON SQUARE D 2016 DOE ENERGY EFFICIENT TYPE, 150 DEGREE C RISE, WITH COPPER WINDINGS

## SERVICE WIRING SCHEDULE

| AMPS | COPPER | | | | | | ALUMINUM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (4W) | GROUNDING ELECTRODE SYSTEM | | | | | (3W) | (4W) | GROUNDING ELECTRODE CONDUCTOR | | | |
| | | GEC | BONDING JUMPERS | | | | | | GEC | BONDING JUMPERS | | |
| | 3Ø, 4 WIRE | M.F. | W.P. | C.E.C. | G.RING | G. ROD | 1Ø, 3 WIRE | 3Ø, 4 WIRE | M.F. | W.P. | C.E.C. | G.RING | G. ROD |
| 600 | 2[(4-350 KCMIL) 3"C] | #2/0 CU | #2/0 CU | #4 CU | #2 CU | #6 CU | 2[(3-500 KCMIL) 3"C] | 2[(4-500 KCMIL) 3 1/2"C] | #2/0 CU | #2/0 CU | #4 CU | #2 CU | #6 CU |

CONDUIT SIZES ARE BASED ON NEC TABLE 4 (RNC SCHEDULE 80) AND TABLE 5 (THHN INSULATION).
ABBREVIATIONS: M.F. - METAL FRAME OR STRUCTURE; W.P. - WATER PIPE; C.E.C. - CONCRETE ENCASED ELECTRODE; G.RING. - GROUND RING; G.ROD - GROUND ROD, PIPE OR PLATE ELECTRODE
REFER TO GROUNDING ELECTRODE CONDUCTOR (GEC) DETAIL DRAWING. IF A DIFFERENT CONFIGURATION IS USED, THE CONTRACTOR IS RESPONSIBLE FOR SIZING THE GEC AND BONDING JUMPERS PER NEC 250.66.

## WIRING SCHEDULE - ALUMINUM

| AMPS | (2WG) | (3WG) | (4WG) |
|---|---|---|---|
| | 1Ø, 2 WIRE, GROUND | 1Ø, 3 WIRE, GROUND OR 3Ø, 3 WIRE, GROUND | 3Ø, 4 WIRE, GROUND |
| 60 | (2#4 & 1#8 G) 3/4"C | (3#4 & 1#8 G) 1"C | (4#4 & 1#8 G) 1 1/4"C |
| 70 | (2#3 & 1#6 G) 1"C | (3#3 & 1#6 G) 1 1/4"C | (4#3 & 1#6 G) 1 1/4"C |
| 80 | (2#2 & 1#6 G) 1"C | (3#2 & 1#6 G) 1 1/4"C | (4#2 & 1#6 G) 1 1/4"C |
| 90 | (2#2 & 1#6 G) 1"C | (3#2 & 1#6 G) 1 1/4"C | (4#2 & 1#6 G) 1 1/4"C |
| 100 | (2#1 & 1#6 G) 1 1/4"C | (3#1 & 1#6 G) 1 1/4"C | (4#1 & 1#6 G) 1 1/2"C |
| 125 | (2#2/0 & 1#4 G) 1 1/4"C | (3#2/0 & 1#4 G) 1 1/2"C | (4#2/0 & 1#4 G) 2"C |
| 150 | (2#3/0 & 1#4 G) 1 1/2"C | (3#3/0 & 1#4 G) 2"C | (4#3/0 & 1#4 G) 2"C |
| 175 | (2#4/0 & 1#4 G) 1 1/2"C | (3#4/0 & 1#4 G) 2"C | (4#4/0 & 1#4 G) 2 1/2"C |
| 200 | (2-250 KCMIL & 1#4 G) 2"C | (3-250 KCMIL & 1#4 G) 2"C | (4-250 KCMIL & 1#4 G) 2 1/2"C |
| 225 | (2-300 KCMIL & 1#2 G) 2"C | (3-300 KCMIL & 1#2 G) 2 1/2"C | (4-300 KCMIL & 1#2 G) 2 1/2"C |

CONDUCTOR SIZES ARE BASED ON 75° TERMINATIONS, NEC TABLE 310.12(B)(16).

CONDUIT SIZES ARE BASED ON NEC TABLE 4 (EMT) AND TABLE 5 (THHN INSULATION).

## WIRING SCHEDULE - COPPER

| AMPS | (2WG) | (3WG) | (4WG) |
|---|---|---|---|
| | 1Ø, 2 WIRE, GROUND | 1Ø, 3 WIRE, GROUND OR 3Ø, 3 WIRE, GROUND | 3Ø, 4 WIRE, GROUND |
| 20 | (2#12 & 1#12 G) 3/4"C | (3#12 & 1#12 G) 3/4"C | (4#12 & 1#12 G) 3/4"C |
| 30 | (2#10 & 1#10 G) 3/4"C | (3#10 & 1#10 G) 3/4"C | (4#10 & 1#10 G) 3/4"C |
| 40 | (2#8 & 1#10 G) 3/4"C | (3#8 & 1#10 G) 3/4"C | (4#8 & 1#10 G) 3/4"C |
| 50 | (2#6 & 1#10 G) 3/4"C | (3#6 & 1#10 G) 3/4"C | (4#6 & 1#10 G) 1"C |
| 60 | (2#4 & 1#10 G) 3/4"C | (3#4 & 1#10 G) 1"C | (4#4 & 1#10 G) 1 1/4"C |
| 70 | (2#4 & 1#8 G) 3/4"C | (3#4 & 1#8 G) 1"C | (4#4 & 1#8 G) 1 1/4"C |
| 80 | (2#3 & 1#8 G) 1"C | (3#3 & 1#8 G) 1 1/4"C | (4#3 & 1#8 G) 1 1/4"C |
| 90 | (2#2 & 1#8 G) 1"C | (3#2 & 1#8 G) 1 1/4"C | (4#2 & 1#8 G) 1 1/4"C |
| 100 | (2#1 & 1#8 G) 1 1/4"C | (3#1 & 1#8 G) 1 1/4"C | (4#1 & 1#8 G) 1 1/2"C |
| 110 | (2#2 & 1#6 G) 1"C | (3#2 & 1#6 G) 1 1/4"C | (4#2 & 1#6 G) 1 1/4"C |
| 125 | (2#1 & 1#6 G) 1 1/4"C | (3#1 & 1#6 G) 1 1/2"C | (4#1 & 1#6 G) 1 1/2"C |
| 150 | (2#1/0 & 1#6 G) 1 1/4"C | (3#1/0 & 1#6 G) 1 1/2"C | (4#1/0 & 1#6 G) 1 1/2"C |
| 175 | (2#2/0 & 1#6 G) 1 1/4"C | (3#2/0 & 1#6 G) 1 1/2"C | (4#2/0 & 1#6 G) 2"C |
| 200 | (2#3/0 & 1#6 G) 1 1/4"C | (3#3/0 & 1#6 G) 2"C | (4#3/0 & 1#6 G) 2"C |
| 225 | (2#4/0 & 1#4 G) 1 1/2"C | (3#4/0 & 1#4 G) 2"C | (4#4/0 & 1#4 G) 2 1/2"C |

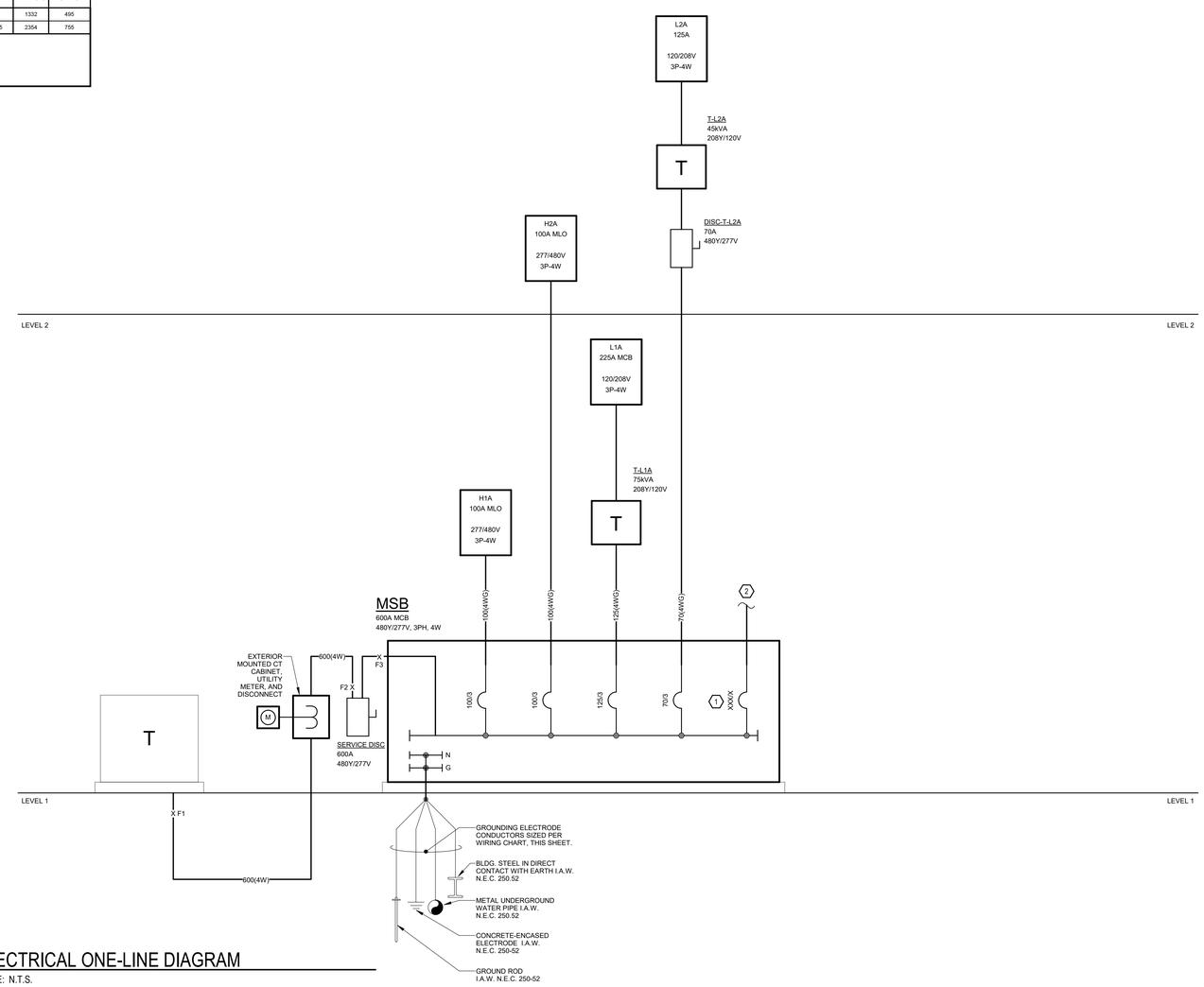
CONDUCTOR SIZES ARE BASED ON 60° TERMINATIONS LESS THAN OR EQUAL TO 100A, AND 75° TERMINATIONS GREATER THAN 100A, NEC TABLE 310.12(B)(16).

CONDUIT SIZES ARE BASED ON NEC TABLE 4 (EMT) AND TABLE 5 (THHN INSULATION).

## SHORT CIRCUIT / VOLTAGE DROP CALCULATION SUMMARY

| POINT | TAG | VOLTAGE / PHASE | LENGTH (FT) | COPPER / ALUMINUM | CONDUIT | WIRE SIZE | # OF SETS | FEEDER VOLTAGE DROP (%) | TOTAL VOLTAGE DROP (%) | Isc AVAILABLE UPSTREAM | Isc (FAULT) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| F1 | UTILITY | 480V, 3Ø | 1 | C | N | 350 | 2 | 0.0% | 0.0% | 30,106 | 30,034 |
| F2 | MAIN DISC | 480V, 3Ø | 85 | C | N | 350 | 2 | 0.4% | 0.4% | 30,034 | 24,975 |
| F3 | MSB | 480V, 3Ø | 5 | C | N | 350 | 2 | 0.0% | 0.4% | 24,975 | 24,730 |

** PER THE UTILITY, THE MAXIMUM AVAILABLE (SYMMETRICAL) FAULT AT THE SECONDARY SIDE OF THE SERVICE TRANSFORMER IS 30,106 AMPS, ASSUMING A 500 KVA TRANSFORMER. SHORT CIRCUIT CALCULATIONS ARE FURNISHED FOR ALL FAULT LEVELS ABOVE 10,000 AMPS @ 208 VOLT (14,000 AT 480 VOLT). ANY FAULT CURRENT BELOW THIS LEVEL IS CONSIDERED SAFE FOR THE ELECTRICAL SYSTEM TO CLEAR OR EQUIPMENT IS BUILT TO WITHSTAND THIS LEVEL OF FAULT SAFELY.




1 E001 ELECTRICAL ONE-LINE DIAGRAM
SCALE: N.T.S.

## GENERAL NOTES - SINGLE LINE DIAGRAM

A. ALL BREAKERS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT THEIR LOCATION. WHERE SERIES- RATED COMBINATIONS ARE USED IN ACCORDANCE WITH NEC 240.86 (B) AND (C) THE CONTRACTOR AND/OR HIS EQUIPMENT SUPPLIER MUST PROVIDE APPROPRIATE DOCUMENTATION AND LABELING.

B. WHERE BREAKERS WITH ADJUSTABLE SETTINGS ARE FURNISHED TO THE PROJECT. THE MANUFACTURER'S REP SHALL IDENTIFY AND PROVIDE THE APPROPRIATE SETTINGS TO THE ELECTRICAL CONTRACTOR FOR HIS USE IN INSTALLATION.

C. PANEL SCHEDULES INDICATE BREAKER SIZE ONLY. PROVIDE AFCI/GFCI PROTECTION AS REQUIRED BY NEC. COORDINATE FINAL BREAKER SIZES/TYPES FOR ITEMS FURNISHED BY OTHERS WITH SHOP DRAWINGS OR PRODUCT INFORMATION FOR ACTUAL EQUIPMENT BEING CONNECTED

D. ELECTRICAL CONTRACTOR SHALL NOT ORDER OR PURCHASE ANY MATERIALS OR EQUIPMENT UNTIL PERMIT DRAWINGS HAVE BEEN APPROVED BY AHJ.

E. PROVIDE SELECTIVE COORDINATION FOR EMERGENCY SYSTEM OVERCURRENT PROTECTION DEVICES IN ACCORDANCE WITH NEC 700.27.

F. PROVIDE GROUND-FAULT PROTECTION FOR EQUIPMENT IN ACCORDANCE WITH NEC 240.13 AND NEC 230.95.

G. OVERCURRENT PROTECTION DEVICES SUPPLYING TRANSFORMERS WHICH ARE NOT LOCATED WITHIN SIGHT OF THEIR OVERCURRENT PROTECTION SHALL BE LOCKABLE AND THE TRANSFORMER SHALL BE FIELD MARKED WITH THE LOCATION OF THE OVERCURRENT PROTECTION DEVICE.

H. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.

I. PROVIDE SURGE PROTECTION IN ACCORDANCE WITH NEC 230.67

Keynote Legend

| Key Value | Keynote Text |
|---|---|
| 1 | PROVIDE SPACE AND PROVISIONS IN MAIN SWITCHBOARD FOR CONNECTION TO FUTURE PV SOLAR SYSTEM. COORDINATE EXACT CONNECTION REQUIREMENTS AND BACK FEED BREAKER SIZING WITH APPROVED PV DESIGN DRAWINGS AND UTILITY PROVIDER PRIOR TO BEGINNING OF CONSTRUCTION. |
| 2 | PROVIDE PATHWAY FROM MAIN ELECTRICAL ROOM UP TO ROOF FOR (4) 2" CONDUITS FOR FUTURE PV SOLAR SYSTEM. |


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5593 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTON |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker


rtm engineering consultants
519 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 | WWW.RTMEC.COM


**ONELINE POWER DIAGRAM**

**E001**

## Branch Panel: L2A

**Location:** ELEC. 260
**Supply From:** T-L2A
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** TBD
**Mains Type:** MCB
**Bus Amps:** 125 A
**MCB Rating:** 125 A

| CB Info | CKT | Circuit Description | Amps | Trip | Poles | A | | B | | C | | Poles | Trip | Amps | Circuit Description | CKT | CB Info |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | BREAK RCPT | 9 A | 20 A | 1 | 1080 VA | 180 VA | | | | | 1 | 20 A | 2 A | PRINTER | 2 | |
| | 3 | BREAK COUNT RCPT | 6 A | 20 A | 1 | | | 720 VA | 180 VA | | | 1 | 20 A | 2 A | PRINTER | 4 | |
| | 5 | CORR/EARLY CHILD RCPT | 12 A | 20 A | 1 | | | | | 1440 VA | 1260 VA | 1 | 20 A | 11 A | CORR/STOR RCPT | 6 | |
| | 7 | MEETING RCPT | 11 A | 20 A | 1 | 1260 VA | 180 VA | | | | | 1 | 20 A | 2 A | BREAK DW | 8 | |
| | 9 | MEETING RCPT | 14 A | 20 A | 1 | | | 1620 VA | 180 VA | | | 1 | 20 A | 2 A | BREAK REF | 10 | |
| | 11 | EARLY CHILD RCPT | 12 A | 20 A | 1 | | | | | 1440 VA | 1144 VA | 2 | 20 A | 11 A | CU-1 | 12 | |
| | 13 | EARLY CHILD RCPT | 5 A | 20 A | 1 | 540 VA | 1144 VA | | | | | | | | | 14 | |
| | 15 | EARLY CHILD RCPT | 12 A | 20 A | 1 | | | 1440 VA | 720 VA | | | 1 | 20 A | 6 A | DECK RCPT | 16 | |
| | 17 | YOUTH EQUIV RCPT | 12 A | 20 A | 1 | | | | | 1440 VA | 2600 VA | 2 | 40 A | 25 A | HP-2 | 18 | |
| | 19 | YOUTH EQUIV RCPT | 14 A | 20 A | 1 | 1620 VA | 2600 VA | | | | | | | | | 20 | |
| | 21 | YOUTH EQUIV RCPT | 14 A | 20 A | 1 | | | 1620 VA | 1080 VA | | | 1 | 20 A | 9 A | ROOF RCPT | 22 | |
| | 23 | YOUTH EQUIV RCPT | 14 A | 20 A | 1 | | | | | 1620 VA | 1080 VA | 1 | 20 A | 9 A | FINANCE RCPT | 24 | |
| | 25 | YOUTH EQUIV/MTG RCPT | 15 A | 20 A | 1 | 1800 VA | 720 VA | | | | | 1 | 20 A | 6 A | CFO RCPT | 26 | |
| | 27 | STORAGE/HOTEL RCPT | 12 A | 20 A | 1 | | | 1440 VA | 720 VA | | | 1 | 20 A | 6 A | CPO RCPT | 28 | |
| | 29 | HOTEL/LAC RCPT | 11 A | 20 A | 1 | | | | | 1260 VA | 720 VA | 1 | 20 A | 6 A | CEO RCPT | 30 | |
| | 31 | RESTROOM/JAN RCPT | 11 A | 20 A | 1 | 1260 VA | 1620 VA | | | | | 1 | 20 A | 14 A | GED COMP LAB RCPT | 32 | |
| | 33 | STOR/COPY/CORR RCPT | 8 A | 20 A | 1 | | | 900 VA | 1080 VA | | | 1 | 20 A | 9 A | GED COMP LAB RCPT | 34 | |
| | 35 | PRINTER | 2 A | 20 A | 1 | | | | | 180 VA | 720 VA | 1 | 20 A | 6 A | CDO RCPT | 36 | |
| | 37 | PRINTER | 2 A | 20 A | 1 | 180 VA | 1620 VA | | | | | 1 | 20 A | 14 A | DEV TEAM RCPT | 38 | |
| | 39 | GED CLASS RCPT | 12 A | 20 A | 1 | | | 1440 VA | 1440 VA | | | 1 | 20 A | 12 A | HR/FINANCE RCPT | 40 | |
| | 41 | GED CLASS RCPT | 12 A | 20 A | 1 | | | | | 1440 VA | 0 VA | 1 | 20 A | -- | SPARE | 42 | |
| | 43 | SPARE | -- | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | -- | SPARE | 44 | |
| | 45 | SPARE | -- | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | -- | SPARE | 46 | |
| | 47 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | 48 | |
| | 49 | SPACE | -- | -- | 1 | -- | -- | | | | | 1 | -- | -- | SPACE | 50 | |
| | 51 | SPACE | -- | -- | 1 | | | -- | -- | | | 1 | -- | -- | SPACE | 52 | |
| | 53 | SPACE | -- | -- | 1 | | | | | -- | -- | 1 | -- | -- | SPACE | 54 | |
| | 55 | SPACE | -- | -- | 1 | -- | -- | | | | | 1 | -- | -- | SPACE | 56 | |
| | 57 | SPACE | -- | -- | 1 | | | -- | -- | | | 1 | -- | -- | SPACE | 58 | |
| | 59 | SPACE | -- | -- | 1 | | | | | -- | -- | 1 | -- | -- | SPACE | 60 | |
| | | | | | **Total Load:** | 15804 VA | | 14580 VA | | 16344 VA | | | | | | | |
| | | | | | **Total Amps:** | 133 A | | 122 A | | 138 A | | | | | | | |

**CIRCUIT BREAKER INFORMATION LEGEND:**
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 5200 VA | 100.00% | 5200 VA | | |
| R | 39240 VA | 62.74% | 24620 VA | **Total Conn. Load:** | 46728 VA |
| M | 2288 VA | 125.00% | 2860 VA | **Total Est. Demand:** | 32680 VA |
| | | | | **Total Conn.:** | 130 A |
| | | | | **Total Est. Demand:** | 91 A |

**Notes:**

## Branch Panel: H1A

**Location:** MECH. / ELEC. 117
**Supply From:** MSB
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 480/277 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** TBD
**Mains Type:** MLO
**Bus Amps:** 125 A

| CB Info | CKT | Circuit Description | Amps | Trip | Poles | A | | B | | C | | Poles | Trip | Amps | Circuit Description | CKT | CB Info |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | LVL 1 LTG | 5 A | 20 A | 1 | 1500 VA | 1467 VA | | | | | 1 | 20 A | 5 A | LVL 1 LTG | 2 | |
| | 3 | INV | 6 A | 20 A | 1 | | | 1647 VA | 668 VA | | | 1 | 20 A | 2 A | LVL 1 LTG | 4 | |
| | 5 | LVL 1 LTG | 2 A | 20 A | 1 | | | | | 461 VA | 4000 VA | | | | | 6 | |
| | 7 | VAV 1A-2 | 14 A | 20 A | 1 | 3989 VA | 4000 VA | | | | | 3 | 20 A | 14 A | VAV 1A-4 | 8 | |
| | 9 | VAV 1A-3 | 5 A | 20 A | 1 | | | 1500 VA | 4000 VA | | | | | | | 10 | |
| | 11 | VAV 1A-5 | 18 A | 30 A | 1 | | | | | 5000 VA | 3000 VA | 1 | 20 A | 11 A | VAV 1B-2 | 12 | |
| | 13 | VAV 1B-1 | 7 A | 20 A | 1 | 2000 VA | 5000 VA | | | | | 1 | 30 A | 18 A | VAV 1B-3 | 14 | |
| | 15 | VAV 1B-5 | 14 A | 20 A | 1 | | | 4000 VA | 5000 VA | | | 1 | 30 A | 18 A | VAV 1B-4 | 16 | |
| | 17 | L STAIR NO. 1 S11 | 6 A | 20 A | 1 | | | | | 1642 VA | 500 VA | 1 | 20 A | 2 A | SITE LTG | 18 | |
| | 19 | | | | | 3333 VA | 500 VA | | | | | 1 | 20 A | 2 A | SITE LTG | 20 | |
| | 21 | VAV 1A-1 | 12 A | 20 A | 3 | | | 3333 VA | -- | | | 1 | -- | -- | SPACE | 22 | |
| | 23 | | | | | | | | | 3333 VA | -- | 1 | -- | -- | SPACE | 24 | |
| | 25 | EXTERIOR LTG | 4 A | 20 A | 1 | 1176 VA | -- | | | | | 1 | -- | -- | SPACE | 26 | |
| | 27 | FUTURE SIGNAGE | 2 A | 20 A | 1 | | | 500 VA | -- | | | 1 | -- | -- | SPACE | 28 | |
| | 29 | ELEV PIT LTG | 0 A | 20 A | 1 | | | | | 42 VA | -- | 1 | -- | -- | SPACE | 30 | |
| | 31 | SPARE | -- | 20 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | 32 | |
| | 33 | SPARE | -- | 20 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | 34 | |
| | 35 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | 36 | |
| | 37 | SPARE | -- | 20 A | 1 | 0 VA | -- | | | | | 1 | -- | -- | SPACE | 38 | |
| | 39 | SPARE | -- | 20 A | 1 | | | 0 VA | -- | | | 1 | -- | -- | SPACE | 40 | |
| | 41 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | 42 | |
| | | | | | **Total Load:** | 22965 VA | | 20648 VA | | 17904 VA | | | | | | | |
| | | | | | **Total Amps:** | 84 A | | 76 A | | 65 A | | | | | | | |

**CIRCUIT BREAKER INFORMATION LEGEND:**
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| L | 10033 VA | 125.00% | 12542 VA | | |
| E | 51489 VA | 100.00% | 51489 VA | **Total Conn. Load:** | 61511 VA |
| | | | | **Total Est. Demand:** | 64018 VA |
| | | | | **Total Conn.:** | 74 A |
| | | | | **Total Est. Demand:** | 77 A |

**Notes:**

## Branch Panel: H2A

**Location:** ELEC. 260
**Supply From:** MSB
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 480/277 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** TBD
**Mains Type:** MLO
**Bus Amps:** 125 A

| CB Info | CKT | Circuit Description | Amps | Trip | Poles | A | | B | | C | | Poles | Trip | Amps | Circuit Description | CKT | CB Info |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | LVL 2 LTG | 5 A | 20 A | 1 | 1460 VA | 2058 VA | | | | | 1 | 20 A | 7 A | LVL 2 LTG | 2 | |
| | 3 | LVL 2 LTG | 1 A | 20 A | 1 | | | 392 VA | 5000 VA | | | 1 | 30 A | 18 A | VAV 2B-1 | 4 | |
| | 5 | LVL 2 LTG | 1 A | 20 A | 1 | | | | | 140 VA | 5000 VA | 1 | 30 A | 18 A | VAV 2B-2 | 6 | |
| | 7 | VAV 2A-1 | 18 A | 30 A | 1 | 5000 VA | 3000 VA | | | | | 1 | 20 A | 11 A | VAV 2B-3 | 8 | |
| | 9 | VAV 2A-2 | 11 A | 20 A | 1 | | | 3000 VA | 3000 VA | | | 1 | 20 A | 11 A | VAV 2B-4 | 10 | |
| | 11 | VAV 2A-3 | 18 A | 30 A | 1 | | | | | 5000 VA | 2000 VA | 1 | 20 A | 7 A | VAV 2B-5 | 12 | |
| | 13 | VAV 2A-4 | 11 A | 20 A | 1 | 3000 VA | 2000 VA | | | | | 1 | 20 A | 7 A | VAV 2B-6 | 14 | |
| | 15 | VAV 2A-5 | 18 A | 30 A | 1 | | | 5000 VA | 1500 VA | | | 1 | 20 A | 5 A | VAV 2B-7 | 16 | |
| | 17 | VAV 2A-6 | 14 A | 20 A | 1 | | | | | 4000 VA | 5000 VA | 1 | 30 A | 18 A | VAV 2B-8 | 18 | |
| | 19 | VAV 2A-7 | 11 A | 20 A | 1 | 3000 VA | 0 VA | | | | | 1 | 20 A | -- | SPARE | 20 | |
| | 21 | SPARE | -- | 20 A | 1 | | | 0 VA | 0 VA | | | 1 | 20 A | -- | SPARE | 22 | |
| | 23 | SPARE | -- | 20 A | 1 | | | | | 0 VA | -- | 1 | -- | -- | SPACE | 24 | |
| | 25 | SPACE | -- | -- | 1 | -- | -- | | | | | 1 | -- | -- | SPACE | 26 | |
| | 27 | SPACE | -- | -- | 1 | | | -- | -- | | | 1 | -- | -- | SPACE | 28 | |
| | 29 | SPACE | -- | -- | 1 | | | | | -- | -- | 1 | -- | -- | SPACE | 30 | |
| | 31 | SPACE | -- | -- | 1 | -- | -- | | | | | 1 | -- | -- | SPACE | 32 | |
| | 33 | SPACE | -- | -- | 1 | | | -- | -- | | | 1 | -- | -- | SPACE | 34 | |
| | 35 | SPACE | -- | -- | 1 | | | | | -- | -- | 1 | -- | -- | SPACE | 36 | |
| | 37 | SPACE | -- | -- | 1 | -- | -- | | | | | 1 | -- | -- | SPACE | 38 | |
| | 39 | SPACE | -- | -- | 1 | | | -- | -- | | | 1 | -- | -- | SPACE | 40 | |
| | 41 | SPACE | -- | -- | 1 | | | | | -- | -- | 1 | -- | -- | SPACE | 42 | |
| | | | | | **Total Load:** | 19518 VA | | 17892 VA | | 21140 VA | | | | | | | |
| | | | | | **Total Amps:** | 71 A | | 65 A | | 77 A | | | | | | | |

**CIRCUIT BREAKER INFORMATION LEGEND:**
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MLO = MAIN LUGS ONLY
CB = CIRCUIT BREAKER
CKT = CIRCUIT

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| L | 4050 VA | 125.00% | 5062 VA | | |
| E | 54500 VA | 100.00% | 54500 VA | **Total Conn. Load:** | 58550 VA |
| | | | | **Total Est. Demand:** | 59562 VA |
| | | | | **Total Conn.:** | 70 A |
| | | | | **Total Est. Demand:** | 72 A |

**Notes:**

## Branch Panel: L1A

**Location:** MECH. / ELEC. 117
**Supply From:** T-L1A
**Mounting:** Surface
**Enclosure:** Type 1

**Volts:** 120/208 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** TBD
**Mains Type:** MCB
**Bus Amps:** 225 A
**MCB Rating:** 225 A

| CB Info | CKT | Circuit Description | Amps | Trip | Poles | A | | B | | C | | Poles | Trip | Amps | Circuit Description | CKT | CB Info |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | ELEV PIT RCPT | 2 A | 20 A | 1 | 180 VA | 1620 VA | | | | | 1 | 20 A | 14 A | STABLE FAM RCPT | 2 | |
| | 3 | MTG/FOOD DIST RCPT | 15 A | 20 A | 1 | | | 1800 VA | 1620 VA | | | 1 | 20 A | 14 A | STABLE FAM RCPT | 4 | |
| | 5 | MTG/FOOD DIST RCPT | 11 A | 20 A | 1 | | | | | 1260 VA | 1080 VA | 1 | 20 A | 9 A | CORR/CLOSET RCPT | 6 | |
| | 7 | EWC | 8 A | 20 A | 1 | 1000 VA | 1620 VA | | | | | 1 | 20 A | 14 A | WELLNESS/STORAGE RCPT | 8 | |
| | 9 | CORR/DONATION RCPT | 9 A | 20 A | 1 | | | 1080 VA | 1440 VA | | | 1 | 20 A | 12 A | IT WORKPLACE RCPT | 10 | |
| | 11 | DONATION C RCPT | 5 A | 20 A | 1 | | | | | 540 VA | 1000 VA | 1 | 20 A | 8 A | IT RCPT | 12 | |
| | 13 | DONATION FRIDGE | 13 A | 20 A | 1 | 1500 VA | 1620 VA | | | | | 1 | 20 A | 14 A | RESTROOM RCPT | 14 | |
| | 15 | DONATION FREEZER | 13 A | 20 A | 1 | | | 1500 VA | 180 VA | | | 1 | 20 A | 2 A | WASHER | 16 | |
| | 17 | DONATION FREEZER | 13 A | 20 A | 1 | | | | | 1500 VA | 2496 VA | 2 | 30 A | 24 A | DRYER | 18 | |
| | 19 | CORR/BREAK RCPT | 9 A | 20 A | 1 | 1080 VA | 2496 VA | | | | | | | | | 20 | |
| | 21 | BREAK RCPT | 8 A | 20 A | 1 | | | 900 VA | 1440 VA | | | 1 | 20 A | 12 A | CORR/ELEC RCPT | 22 | |
| | 23 | BREAK MW | 2 A | 20 A | 1 | | | | | 180 VA | 1920 VA | 1 | 20 A | 16 A | LOADING DOCK DOOR | 24 | |
| | 25 | BREAK MW | 2 A | 20 A | 1 | 180 VA | 1600 VA | | | | | | | | | 26 | |
| | 27 | BREAK DW | 2 A | 20 A | 1 | | | 180 VA | 1600 VA | | | 3 | 20 A | 13 A | EWH-2 | 28 | |
| | 29 | HOTEL/INTAKE RCPT | 15 A | 20 A | 1 | | | | | 1800 VA | 1600 VA | | | | | 30 | |
| | 31 | FAMILY INTAKE RCPT | 14 A | 20 A | 1 | 1620 VA | 500 VA | | | | | 1 | 20 A | 4 A | ELEVATOR CAB | 32 | |
| | 33 | MAIL/STABLE FAM/VOL RCPT | 15 A | 20 A | 1 | | | 1800 VA | 500 VA | | | 1 | 20 A | 4 A | GWH-1 | 34 | |
| | 35 | INTAKE/COPY RCPT | 11 A | 20 A | 1 | | | | | 1260 VA | 500 VA | 1 | 20 A | 4 A | RCP-1 | 36 | |
| | 37 | LOBBY DESK | 2 A | 20 A | 1 | 180 VA | 1920 VA | | | | | 1 | 20 A | 16 A | EXTERIOR HOT BOX | 38 | |
| | 39 | COPIER | 13 A | 20 A | 1 | | | 1500 VA | 1920 VA | | | 1 | 20 A | 16 A | EXTERIOR HOT BOX | 40 | |
| | 41 | COPIER | 13 A | 20 A | 1 | | | | | 1500 VA | 540 VA | 1 | 20 A | 5 A | EXT RCPT | 42 | |
| | 43 | EWH-1 | 7 A | 20 A | 2 | 750 VA | 180 VA | | | | | 1 | 20 A | 2 A | IT RCPT | 44 | |
| | 45 | | | | | | | 750 VA | 180 VA | | | 1 | 20 A | 2 A | BREAK REF | 46 | |
| | 47 | IT RCPT | 8 A | 20 A | 1 | | | | | 1000 VA | 180 VA | 1 | 20 A | 2 A | FACP | 48 | |
| | 49 | LACTATION RCPT | 5 A | 20 A | 1 | 540 VA | 540 VA | | | | | 1 | 20 A | 5 A | EXT RCPT | 50 | |
| | 51 | DONATION FREEZER | 13 A | 20 A | 1 | | | 1500 VA | 720 VA | | | 1 | 20 A | 6 A | INTERN/VOL RCPT | 52 | |
| | 53 | DONATION FREEZER | 13 A | 20 A | 1 | | | | | 1500 VA | 0 VA | 1 | 20 A | -- | SPARE | 54 | |
| | 55 | SPARE | -- | 20 A | 1 | 0 VA | 0 VA | | | | | 1 | 20 A | -- | SPARE | 56 | |
| | 57 | SPACE | -- | -- | 1 | | | -- | 0 VA | | | 1 | 20 A | -- | SPARE | 58 | |
| | 59 | SPACE | -- | -- | 1 | | | | | -- | -- | 1 | -- | -- | SPACE | 60 | |
| | | | | | **Total Load:** | 19126 VA | | 20610 VA | | 19856 VA | | | | | | | |
| | | | | | **Total Amps:** | 159 A | | 173 A | | 166 A | | | | | | | |

**CIRCUIT BREAKER INFORMATION LEGEND:**
G = GROUND FAULT SENSING
S = SHUNT TRIP
L = LOCK OUT
A = ARC FAULT INTERRUPTER

ABBREVIATIONS:
MCB = MAIN CIRCUIT BREAKER
CB = CIRCUIT BREAKER
CKT = CIRCUIT

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| R | 39500 VA | 62.66% | 24750 VA | | |
| A | 360 VA | 100.00% | 360 VA | **Total Conn. Load:** | 59592 VA |
| E | 16632 VA | 100.00% | 16632 VA | **Total Est. Demand:** | 45322 VA |
| M | 3100 VA | 115.48% | 3580 VA | **Total Conn.:** | 165 A |
| | | | | **Total Est. Demand:** | 126 A |

**Notes:**

## Switchboard: MSB

**Location:** MECH. / ELEC. 117
**Supply From:**
**Mounting:** FLOOR
**Enclosure:** NEMA 1

**Volts:** 480/277 Wye
**Phases:** 3
**Wires:** 4

**A.I.C. Rating:** 42,000
**Mains Type:** MLO
**Mains Rating:** 600 A
**Main Disc. Rating:** 600 A

**Notes:**

| CKT | Circuit Description | # of Poles | Frame Size | Trip Rating | Load | Remarks |
|---|---|---|---|---|---|---|
| 1 | H1A | 3 | 100 A | 100 A | 61511 VA | |
| 2 | RTU-1A | 3 | 50 A | 50 A | 33240 VA | |
| 3 | RTU-1B | 3 | 40 A | 40 A | 24930 VA | |
| 4 | RTU-2A | 3 | 45 A | 45 A | 27423 VA | |
| 5 | RTU-2B | 3 | 45 A | 45 A | 27423 VA | |
| 6 | T-L1A | 3 | 125 A | 125 A | 59592 VA | |
| 7 | T-L2A | 3 | 70 A | 70 A | 46728 VA | |
| 8 | H2A | 3 | 100 A | 100 A | 58550 VA | |
| 9 | ELEV | 3 | 40 A | 40 A | 24082 VA | |
| | | | | **Total Conn. Load:** | 363477 VA | |
| | | | | **Total Amps:** | 437 A | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| HVAC | 5200 VA | 100.00% | 5200 VA | | |
| R | 78740 VA | 56.35% | 44370 VA | **Total Conn. Load:** | 363477 VA |
| L | 14079 VA | 125.00% | 17599 VA | **Total Est. Demand:** | 340935 VA |
| A | 360 VA | 100.00% | 360 VA | **Total Conn.:** | 437 A |
| E | 122621 VA | 100.00% | 122621 VA | **Total Est. Demand:** | 410 A |
| M | 142486 VA | 105.83% | 150796 VA | | |
| | | | | | |

**Notes:**

## Switchboard: INV

**Location:** MECH. / ELEC. 117
**Supply From:** H1A
**Mounting:** SURFACE
**Enclosure:** NEMA 1

**Volts:** 277 Single
**Phases:** 1
**Wires:** 2

**A.I.C. Rating:** TBD
**Mains Type:** MLO
**Mains Rating:** 20 A
**Disc. Rating:** 20 A

**Notes:**

| CKT | Circuit Description | # of Poles | Frame Size | Trip Rating | Load | Remarks |
|---|---|---|---|---|---|---|
| 1 | LVL 1 EM LTG | 1 | 20 A | 20 A | 534 VA | |
| 2 | LVL 2 EM LTG | 1 | 20 A | 20 A | 595 VA | |
| 3 | LVL 1 EM LTG | 1 | 20 A | 20 A | 293 VA | |
| 4 | LVL 2 EM LTG | 1 | 20 A | 20 A | 225 VA | |
| 5 | SPARE | 1 | 20 A | 20 A | 0 VA | |
| 6 | SPARE | 1 | 20 A | 20 A | 0 VA | |
| | | | | **Total Conn. Load:** | 1647 VA | |
| | | | | **Total Amps:** | 6 A | |

**Legend:**

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| L | 1647 VA | 125.00% | 2058 VA | | |
| | | | | **Total Conn. Load:** | 1647 VA |
| | | | | **Total Est. Demand:** | 2058 VA |
| | | | | **Total Conn.:** | 6 A |
| | | | | **Total Est. Demand:** | 7 A |

**Notes:**
INVERTER TO BE ACUITY BRANDS IOTA IIS-3000-277IN-277OUT-FT- * * - 6-1P277-20AMP-ON, OR APPROVED EQUIVALENT.


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD


# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

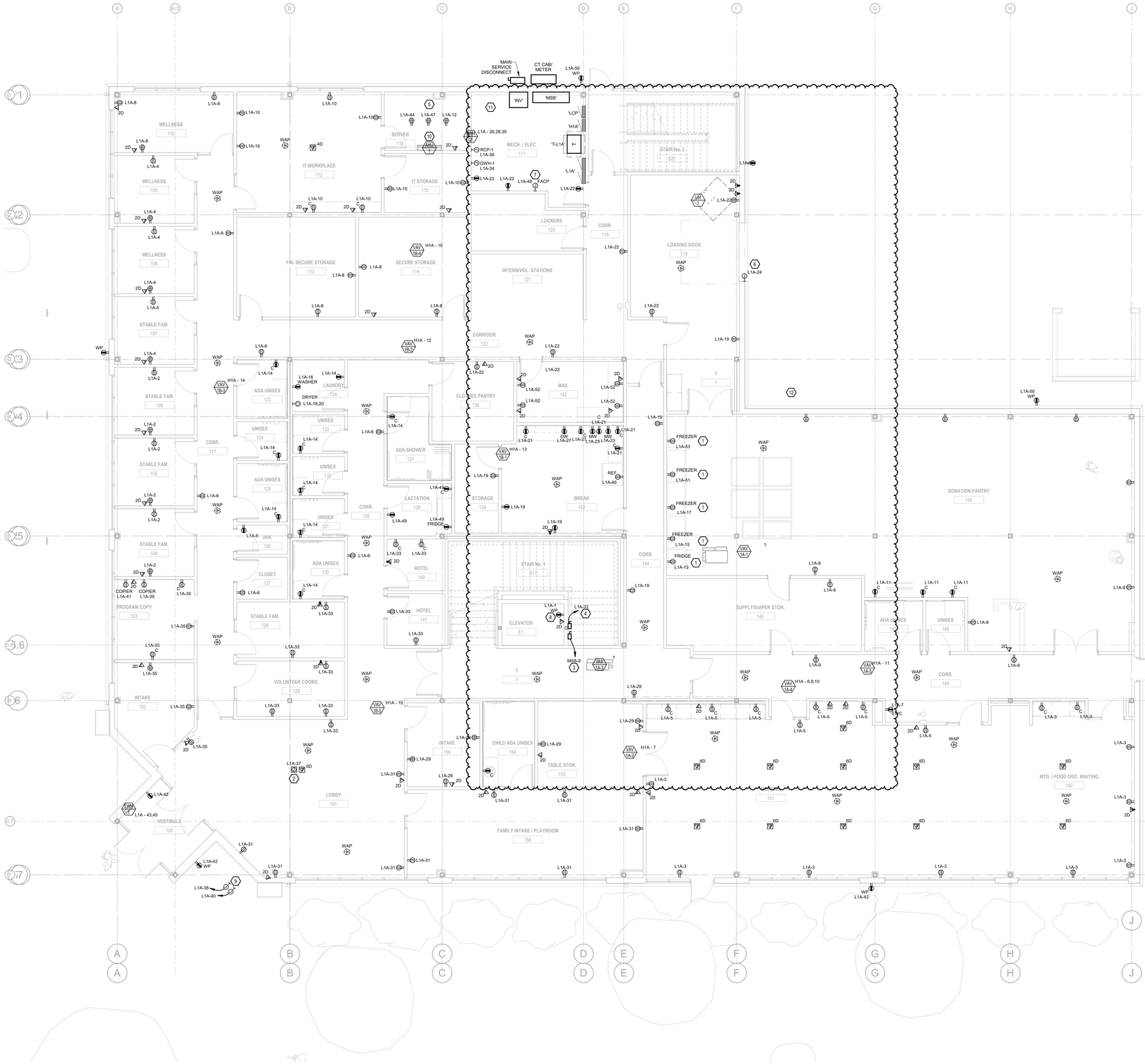
| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 3 | 02/20/26 | ADDENDUM No. 1 |

**PROJECT #:** 6568
**DRAWN:** Author **CHECKED:** Checker


rtm engineering consultants
915 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.736.4188 : WWW.RTMEC.COM


**ELECTRICAL PANEL SCHEDULES**

**E002**




1 FIRST FLOOR - POWER NEW
E101
3/16" = 1'-0"

## GENERAL NOTES - POWER

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
3. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
4. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
5. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
6. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
7. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
8. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
9. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

## FIRE ALARM - DELEGATED DESIGN

1. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
2. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
3. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS; RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC, ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AN EMERGENCY RESPONDER COMMUNICATION SYSTEM PER 2024 OBC 918.1.

Keynote Legend

| Key Value | Keynote Text |
|---|---|
| 1 | COORDINATE EQUIPMENT LOCATIONS WITH FF&E DRAWINGS PRIOR TO ROUGH-IN. |
| 2 | PROVIDE ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE IN THIS AREA. COORDINATE EXACT LOCATION, ELECTRICAL CONNECTION REQUIREMENTS, AND INSTALLATION REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. |
| 3 | PROVIDE 480V/3P, 40A DISCONNECT FOR ELEVATOR. COORDINATE EXACT ELEVATOR ELECTRICAL REQUIREMENTS WITH APPROVED SUBMITTAL/SHOP DRAWINGS PRIOR TO ROUGH-IN. COORDINATE DISCONNECT LOCATION AND CLEARANCES WITH ELEVATOR MANUFACTURER AND APPOVED SUBMITTAL/SHOP DRAWINGS PRIOR TO ROUGH-IN. |
| 4 | PROVIDE 120V/1P, 20A DISCONNECT FOR ELEVATOR CAB LIGHTING/POWER. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND DISCONNECT LOCATION WITH APPROVED ELEVATOR SUBMITTAL/SHOP DRAWINGS PRIOR TO ROUGH-IN. |
| 5 | PROVIDE (3) DEDICATED CIRCUITS FOR IT SERVER ROOM. FIELD LOCATE RECEPTACLES/POWER CONNECTION LOCATIONS. |
| 6 | PROVIDE DEDICATED, 120V/1P, 20A CIRCUIT FOR LOADING DOCK MOTORIZED DOOR. COORDINATE EXACT LOCATION, CONTROLS, AND INSTALLATION REQUIREMENTS WITH APPROVED SUBMITTAL/SHOP DRAWING PRIOR TO ROUGH-IN. |
| 7 | PROVIDE DEDICATED, 120V/1P, 20A CIRCUIT FOR FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH DELEGATED DESIGN DRAWINGS PRIOR TO ROUGH-IN. |
| 8 | COORDINATE EXACT LOCATION OF ELEVATOR PIT RECEPTACLE WITH APPROVED ELEVATOR SUBMITTAL/SHOP DRAWINGS AND IN FIELD. |
| 9 | PROVIDE (2) DEDICATED 120V, 20A CIRCUITS FOR SPRINKLER/SUMP PUMP HOT BOX. COORDINATE EXACT ROUTING, LOCATION, AND ELECTRICAL REQUIREMENTS WITH ARCHITECT, OWNER, AND CIVIL DRAWINGS PRIOR TO ROUGH-IN. |
| 10 | INDOOR MECHANICAL UNIT POWERED BY OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULES. |
| 11 | COORDINATE ELECTRICAL EQUIPMENT PLACEMENT IN THIS AREA WITH WATER SERVICE ENTRY EQUIPMENT. CONFIRM ALL CLEARANCES ARE MAINTAINED PRIOR TO ROUGH-IN. |
| 12 | INSTALL CONDUITS FROM PANEL 12A FOR FUTURE COOLER AND FREEZER. VERIFY CONDUIT SIZE WITH ARCHETECT AND COOLER FREEZER SPEC SHEETS. |

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 3 | 02/20/26 | ADDENDUM No. 1 |
| 4 | 03/05/26 | PERMIT RESPONSE |
| 5 | 03/24/2026 | Addendum #5 |

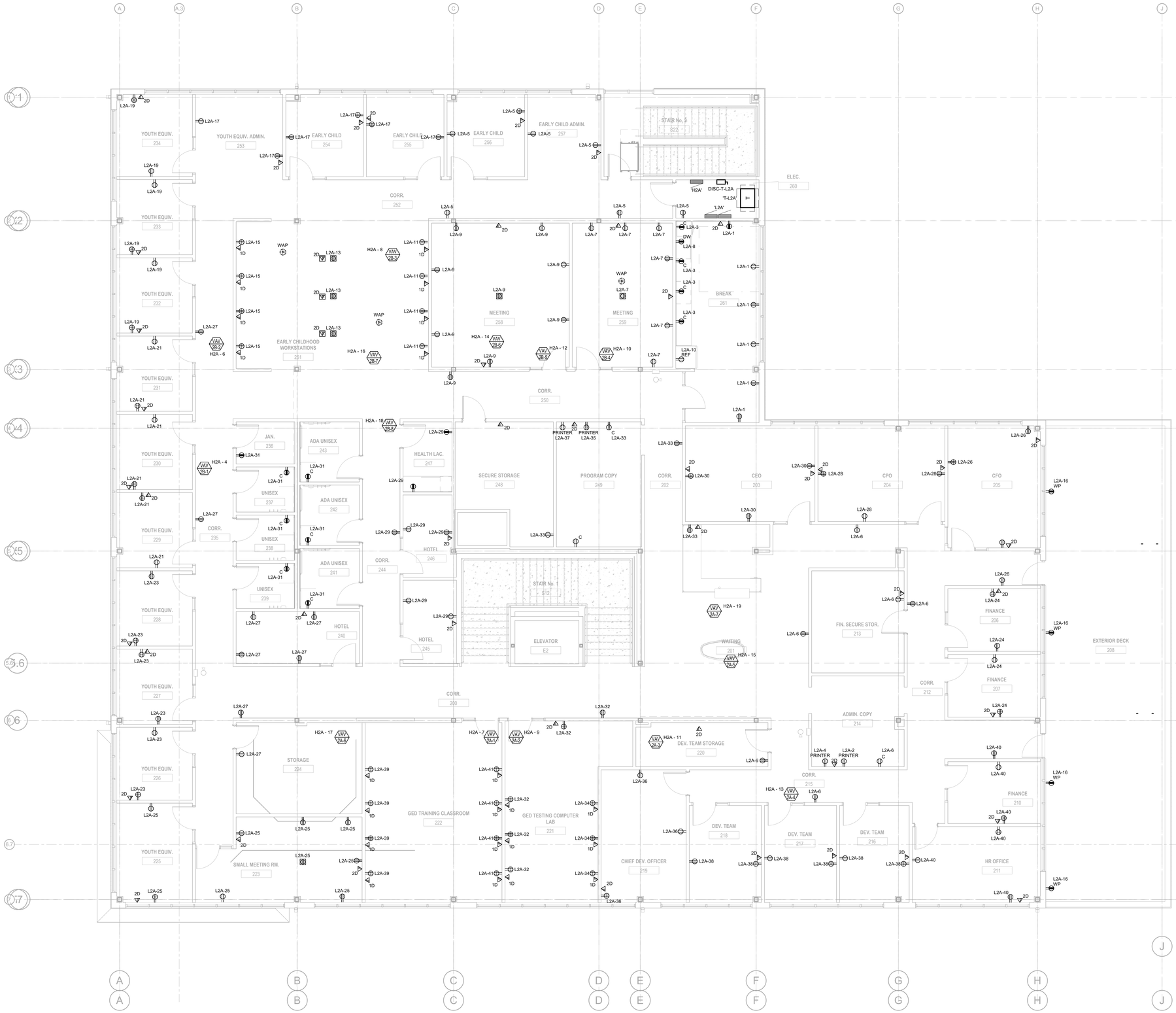
**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker

rtm engineering consultants
915 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.736.4188 : WWW.RTMEC.COM

## FIRST FLOOR - POWER

# E101




1 SECOND FLOOR - POWER NEW
E102 3/16" = 1'-0"

## GENERAL NOTES - POWER

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
3. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
4. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
5. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
6. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
7. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
8. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
9. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

## FIRE ALARM - DELEGATED DESIGN

1. COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA CONTAINED ON DRAWINGS. RESPONSIBILITY FOR PROVIDING A COMPLIANT, OPERATIONAL FIRE ALARM SYSTEM LIES WITH THIS CONTRACTOR. REFER TO ARCHITECT'S CODE SHEET FOR USE GROUP AND OCCUPANT INFORMATION WHEN PROVIDING THE FIRE ALARM DESIGN. VERIFY REQUIREMENTS SPECIFIC TO PROJECT LOCALITY AND INCLUDE IN SCOPE.
2. INSTALLING CONTRACTOR SHALL FURNISH ALL REQUIRED DRAWINGS AND CALCULATIONS REQUIRED FOR FIRE ALARM PERMIT. DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN INDIVIDUAL CARRYING ALL CERTIFICATIONS REQUIRED BY THE AGENCY RESPONSIBLE FOR REVIEW AND APPROVAL.
3. REQUIRED COMPONENTS THAT ARE NOT SHOWN ON DRAWINGS SUCH AS: RELAY MODULES MONITOR MODULES, BOOSTER PANELS, ANNUNCIATORS, ETC. ARE THE RESPONSIBILITY OF THIS CONTRACTOR AND ARE INCLUDED IN THIS SCOPE OF WORK.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE AN EMERGENCY RESPONDER COMMUNICATION SYSTEM PER 2024 OBC 918.1.

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |


ATA ARCHITECTS
1093 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 4 | 03/05/26 | PERMIT RESPONSE |

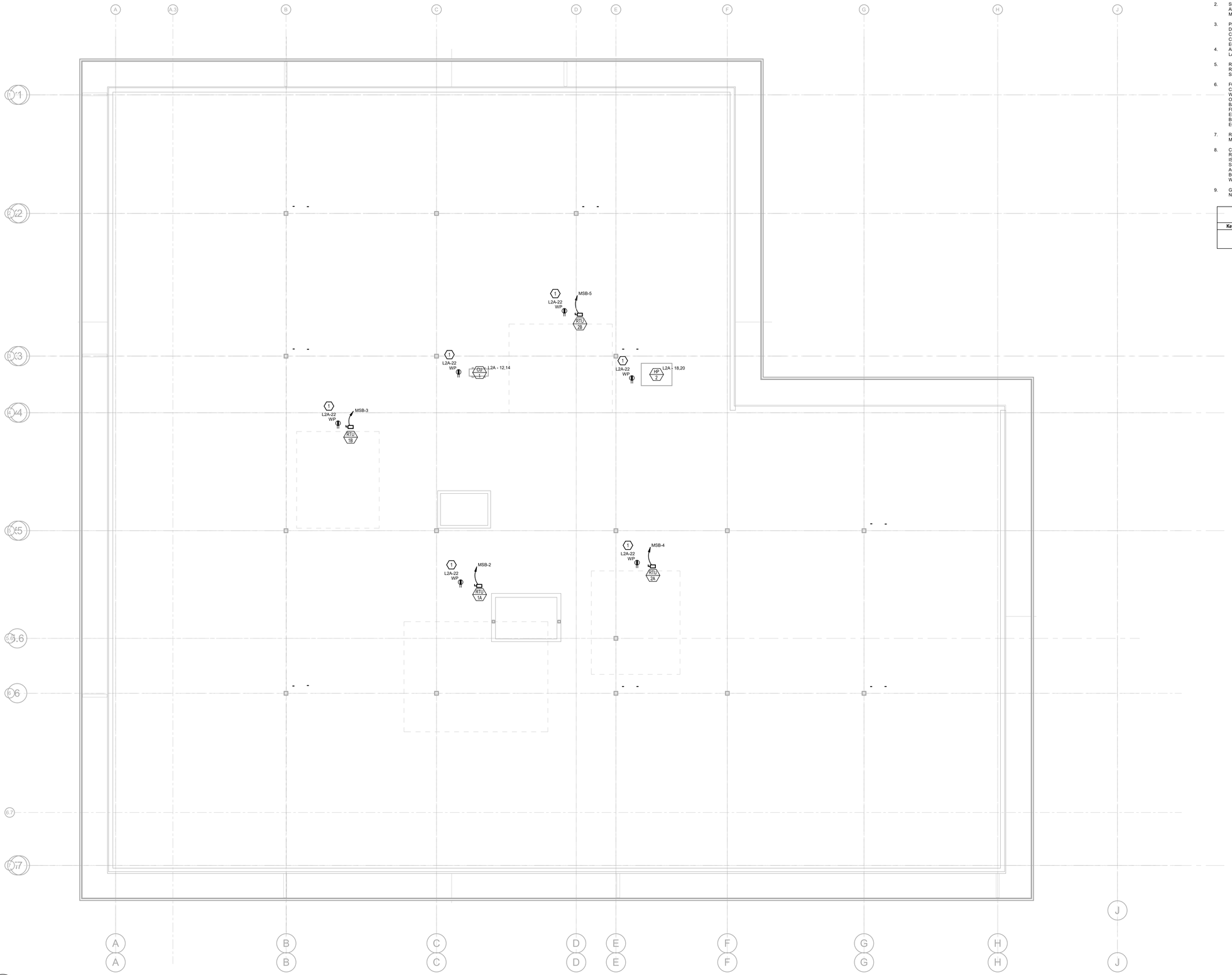
**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker


rtm engineering consultants
315 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM


**SECOND FLOOR - POWER**

**E102**




1 ROOF - POWER NEW
E103
3/16" = 1'-0"

## GENERAL NOTES - POWER

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT/CABLE ROUTING. COORDINATE ROUTING WITH ALL OTHER TRADES AND BUILDING CONDITIONS.
2. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC.
3. PROVIDE MOTOR STARTERS FOR EQUIPMENT AS INDICATED ON DRAWINGS. COORDINATE ANY INTERLOCKING WIRING WITH HVAC CONTRACTOR AND PROVIDE WIRING, COILS, AND AUXILIARY CONTACTS AS NECESSARY. SIZE ALL CIRCUITS FOR ACTUAL EQUIPMENT TO BE CONNECTED.
4. ALL PANELS AND DISCONNECTS LOCATED OUTDOORS SHALL BE LABELED NEMA 3R.
5. ROOF MOUNTED AND OUTDOOR EQUIPMENT SHALL HAVE 120V RECEPTACLE MOUNTED WITHIN 25' OF EACH PIECE. RECEPTACLES SHALL BE IN WEATHER PROOF BOX AND HAVE GFCI PROTECTION.
6. FOR ITEMS FURNISHED BY OTHER TRADES, ELECTRICAL CONTRACTOR TO FULLY COORDINATE BREAKER AND WIRE SIZES WITH ACTUAL EQUIPMENT BEING CONNECTED PRIOR TO ROUGH-IN, OR INSTALLATION. THE SIZES ON PANEL SCHEDULES REFER TO BASIS OF DESIGN SELECTIONS, AND ACTUAL ITEMS MAY DEVIATE FROM BASIS OF DESIGN. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONFIRM REQUIRED WIRE AND BREAKER SIZES WITH THE CONTRACTOR FURNISHING THE EQUIPMENT.
7. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING HEIGHTS.
8. CONTRACTOR TO PROVIDE GROUNDING AND BONDING AS REQUIRED FOR ELECTRICAL SYSTEMS. GROUNDING AND BONDING IS CONSIDERED MEANS AND METHODS OF CONSTRUCTION, AND SHOULD BE COMPLETED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH NEC 250. GAS PIPING SYSTEMS MUST BE BONDED PER UTILITY PROVIDER'S INSTALLATION GUIDELINES WHERE REQUIRED.
9. GFCI DEVICES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND NOT PLACED BEHIND EQUIPMENT.

Keynote Legend

| Key Value | Keynote Text |
|---|---|
| 1 | PROVIDE PEDESTAL MOUNTED WEATHERPROOF SERVICE RECEPTACLE NEAR ROOFTOP EQUIPMENT. COORDINATE MOUNTING AND EXACT LOCATION IN FIELD. |

ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R SIRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker

rtm engineering consultants
513 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.581.7050 F: 847.756.4106 WWW.RTMEC.COM

**ROOF - POWER**

**E103**

## GENERAL NOTES - LIGHTING

1. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
2. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
3. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
4. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
5. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA TIMECLOCK, LOCATED IN THE MAIN ELECTRICAL ROOM. FIELD COORDINATE EXACT LOCATION.
6. CIRCUIT ALL EXIT SIGNS TO THE NEAREST EMERGENCY INVERTER CIRCUIT.

Keynote Legend

| Key Value | Keynote Text |
|---|---|
| 1 | COORDINATE COVE LIGHTING LENGTHS AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S DRAWINGS, AND IN FIELD. |
| 2 | 'F1' COVE LIGHTING TO BE CONTROLLED VIA OCCUPANCY SENSOR LOCATED ON SECOND FLOOR CEILING. |
| 3 | PROVIDE JUNCTION BOX WITH DEDICATED 277V/1P, 20A CIRCUIT FOR FUTURE EXTERIOR SIGNAGE. COORDINATE POWER REQUIREMENTS AND EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. |
| 4 | PROVIDE (2) 277V/1P, 20A CIRCUITS FOR SITE LIGHTING. COORDINATE LIGHTING LAYOUTS, SPECIFICATIONS, CONTROLS, AND ELECTRICAL REQUIREMENTS WITH CIVIL DRAWINGS PRIOR TO ROUGH-IN. |

1 FIRST FLOOR - LIGHTING NEW
E201 3/16" = 1'-0"


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. STRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 5 | 03/24/2026 | Addendum #5 |

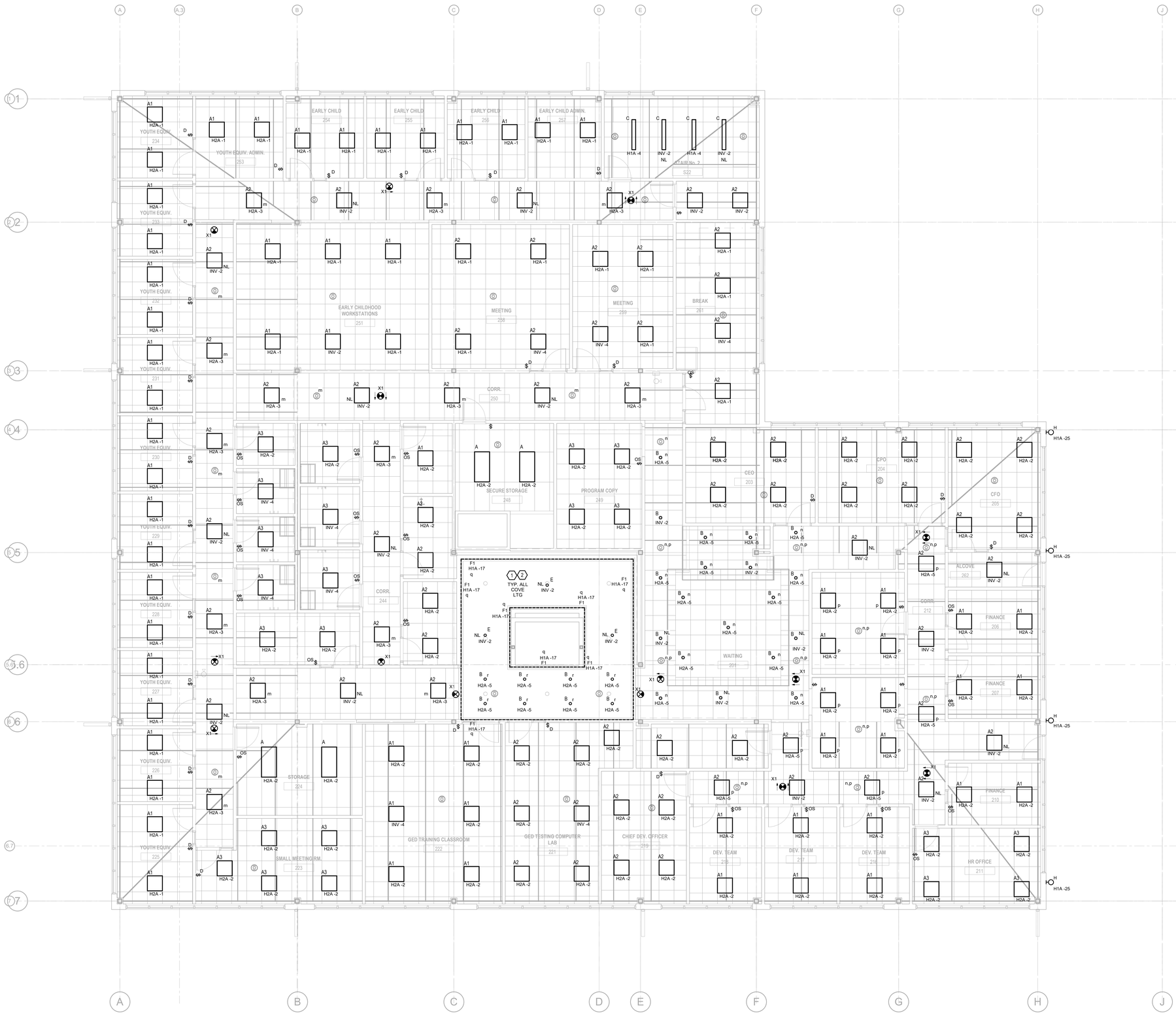
**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker


rtm engineering consultants
315 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 : WWW.RTMEC.COM


## LIGHTING - FIRST FLOOR

## E201




## GENERAL NOTES - LIGHTING

1. REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.
2. PROVIDE HOLD-ON-TYPE BREAKERS FOR EGRESS/EMERGENCY LIGHTING CIRCUITS. WIRE ALL EGRESS/EMERGENCY FIXTURES AHEAD OF ANY LOCAL SWITCHING.
3. LIGHT FIXTURES CONTROLLED BY SWITCH IN SAME ROOM UNLESS OTHERWISE NOTED.
4. WHERE DIMMERS AND/OR DIMMING SYSTEMS ARE REQUIRED, CONTRACTOR TO FURNISH DIMMERS THAT ARE COMPATIBLE WITH FIXTURE SOURCE AND RATED FOR THE WATTAGE OF THE DIMMING ZONE. PROVIDE ADDITIONAL DIMMERS AS REQUIRED TO MEET ZONE LOAD REQUIREMENTS.
5. ALL EXTERIOR LIGHTING TO BE CONTROLLED VIA TIMECLOCK, LOCATED IN THE MAIN ELECTRICAL ROOM. FIELD COORDINATE EXACT LOCATION.
6. CIRCUIT ALL EXIT SIGNS TO THE NEAREST EMERGENCY INVERTER CIRCUIT.

| Keynote Legend | |
|---|---|
| **Key Value** | **Keynote Text** |
| 1 | "F1" COVE LIGHTING TO BE CONTROLLED VIA OCCUPANCY SENSOR LOCATED ON SECOND FLOOR CEILING. |
| 2 | COORDINATE COVE LIGHTING LENGTHS AND INSTALLATION REQUIREMENTS WITH ARCHITECT'S DRAWINGS, AND IN FIELD. |

ATA ARCHITECTS
1093 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5560 www.ATA-B.com

SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |

**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker

rtm engineering consultants
519 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 | WWW.RTMEC.COM

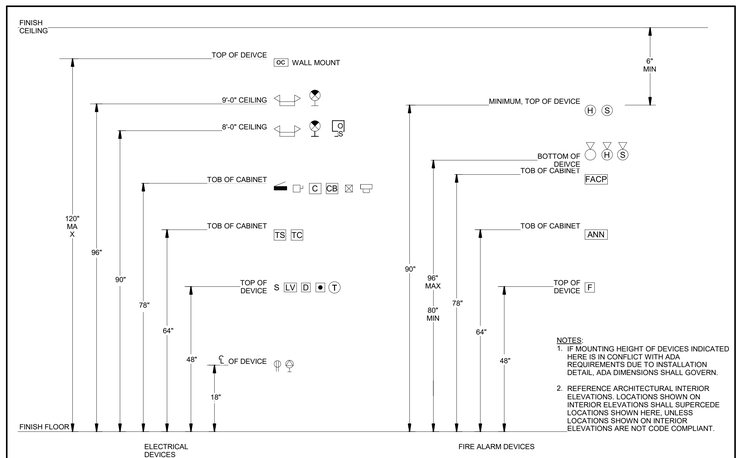
**LIGHTING - SECOND FLOOR**

**E202**

1 SECOND FLOOR - LIGHTING NEW
E202 3/16" = 1'-0"

**ELECTRICAL SPECIFICATIONS**

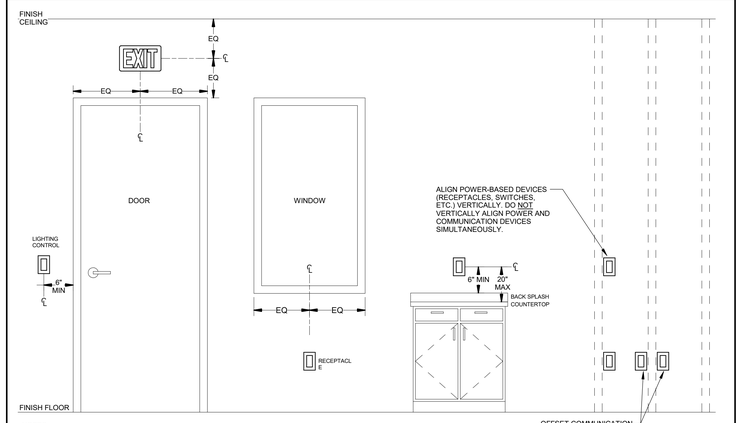
1. General Demolition
   a. Refer to architectural drawings, general notes, instructions to bidders, general conditions, supplementary general conditions, base building specifications and drawings, shop drawing manuals and as-built plans, except as noted herein, which apply in all respects to this section. The contractor shall visit the site and familiarize himself with all existing conditions prior to bidding the work
2. Use of Drawings And Specifications
   a. EBS drawings and specifications are intended to convey design intent only. All means and methods sequences, techniques, and procedures of construction as well as any associated safety precautions and programs, and all incidental and temporary devices required to construct the project, and to provide a complete and fully operational electrical system are the responsibility of the electrical contractor.
3. Standards
   a. Materials equipment and materials shall conform with appropriate provisions of NEC, ASTM, UL, ETL, NEMA, ANSI, as applicable to each individual unit or assembly.
4. Codes
   a. All work shall be performed in strict accordance with all applicable state and local codes and ordinances. In case of conflict between the drawings/specifications and the codes and ordinances, the highest standard shall apply. The electrical contractor shall satisfy code requirements as a minimum standard without any extra cost to owner.
5. Permits and Fees
   a. The electrical contractor shall procure and pay for all permits, fees and inspections necessary to complete the electrical work.
6. Warranty
   a. The electrical contractor shall unconditionally warrant all work to be free of defects in material and workmanship for a period of one (1) year from the date of final acceptance, and will repair or replace any defective work promptly and without charge and restore any other existing work damaged in the course of repairing defective materials and workmanship.
7. Site Examination
   a. The electrical contractor shall thoroughly examine all areas of work where equipment will be installed and shall report any condition that, in his opinion, prevents the proper installation of the electrical work prior to bid. He shall also examine the drawings and specifications of other branches of work making reference to them for details of new or existing building conditions.
   b. All work shall be done at times convenient to the owner and only during normal working hours, unless specified otherwise.
   c. Electrical contractor shall take his own measurements and be responsible for them.
   d. Access panels are not shown on drawings. During site examination, contractor shall identify all areas where access panels are required, and report to general contractor. Designation of who furnishes and who installs access panels must be coordinated with general contractor prior to starting work.
8. Contractor Coordination
   a. Coordination drawings showing system and component installation layout, routing, details, etc. Shall be produced by the electrical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable.
   b. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. Where the electrical contractor is making a connection to equipment/components that are furnished by others, electrical contractor to verify all connection requirements with actual equipment being connected, including but not limited to OCP size, means of disconnect, special connection requirements, or other items indicated on shop drawings, or manufacturer's installation instructions and/or installation diagrams, and furnish all labor and materials required for the installation and operation of the equipment. No allowances will be made for failure to coordinate, after electrical connections have been installed.
   c. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
   d. The architectural drawings shall take precedence over all other drawings. Do not scale distances off the electrical drawings; use actual building dimensions.
   e. Coordination drawings showing system and component installation layout, routing, details, etc. shall be produced by the electrical contractor and under the supervision of the general contractor/construction manager, or appropriate party as applicable. All systems installed by each sub-contractor shall be coordinated with one another and approved by general contractor/construction manager, etc. prior to installation and/or fabrication. If questions concerning design intent arise during coordination, EBS can assist where appropriate.
9. Utility Coordination
   a. Electrical contractor to verify installation of metering and utility demarcation equipment with utility provider prior to start of work and furnish and install required items per utility company's installation requirements and/or manuals.
1. Submittals
   a. Products installed by the electrical contractor and provided by others must be submitted for review prior to purchasing. Products shall not be selected based on permit drawings without express permission - products shall be selected based on construction drawings.
11. Record Drawing
   a. The electrical contractor shall be responsible for creating record drawings where required. Drawings shall be produced in Autocad 2004 format or later.
12. Shop Drawings
   a. Submit to the architect pdf file copies of complete & certified shop drawings, descriptive data, performance data & ratings, diagrams and specifications on all specified equipment, including accessories, and materials for review.
   b. The make, model number, type, finish & accessories of all equipment and materials shall be reviewed & approved by the electrical contractor & general contractor prior to submitting to the architect for their review & approval.
   c. Review of shop drawings does not relieve the electrical contractor/vendor from compliance with the requirements of the contract drawings, specifications & applicable codes.
1. Testing
   a. All electrical systems shall be tested for proper operation. Balance all branch circuit loads between the phases of the system to within 10% of the highest phase load in each panelboard.
14. Temporary Power
   a. The electrical contractor shall provide temporary electrical wiring for construction. The temporary service shall be a minimum of 60 amps, single phase, three wire, 120/208 volts fused at main disconnect. All receptacles on this temporary service shall be protected by a GFI breaker.
15. Mechanical Equipment
   a. All final connections to mechanical equipment shall be done by the electrical contractor.
16. Demolition
   a. The electrical contractor shall be responsible for deenergizing circuits in demolition areas to insure a safe condition. Electrical devices and associated wiring located within the demolition area that will no longer be used shall be removed and properly disposed of at contractor's expense unless otherwise noted.
17. Power Outages
   a. The electrical contractor shall schedule all electrical system(s) outages with the general contractor and owner at least 24 hours in advance. Unless approved otherwise all outages shall occur between 11:00pm and 5:00am.
18. Grounding and Bonding
   a. Contractor to provide grounding and bonding as required for electrical systems. Grounding and bonding is considered means and methods of construction, and should be completed by the electrical contractor in accordance with NEC 250.
   b. Any gas piping systems must be bonded per utility provider's installation guidelines where required.
1. Materials
   a. Provide all new material and equipment unless noted otherwise. All equipment shall be UL approved and labeled, or other approved testing organization which has acceptance by the local jurisdiction, for the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations. No substitution to materials specified will be allowed unless approved by the owner.
   b. Electrical contractor shall not order or purchase any materials or equipment until permit drawings have been approved. No allowances will be made for any changes that occur if permit drawings have not been approved prior to ordering.
20. Cutting and Fitting
   a. Perform cutting, coring, fitting, repairing and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural member shall be done without the consent of the owner. Properly fill, seal, fireproof, and waterproof all openings, sleeves, and holes in slabs, walls, and casework.
21. Wiring Methods
   a. Provide code approved wiring methods for branch circuiting indoors, such as NM cable (only where permitted by NEC 334). EMT conduit, or MC cable for mechanical equipment, lighting, and power.
   b. Conduit runs on exterior of building shall be rigid steel conduit with weather tight, corrosion-resistant fittings. Schedule 40 PVC is acceptable where permitted by code and or underground runs or concrete encasement where not exposed to physical damage.
   c. The minimum size of conduit shall be 3/4" unless otherwise noted. Conduit connectors shall be double locknut type, UL listed and labeled, with compression or set screw fittings.
   d. Rigid conduit shall be hot dipped galvanized.
   e. Where raceways are installed for others to use, or for future use, provide nylon pull string.
   f. Penetrations through fire rated construction shall be sealed using 3M fire barrier caulk, Nelson Electric Flameseal or T&B Flamesafe or other approved method.
22. Conductors and Terminations
   a. Branch conductors shall be copper, feeders as indicated on riser diagram. Conductors shall be insulated for 600v number 12 AWG minimum. Provide wires and cables as indicated listed and suitable for temperature, conditions, and location where installed.
23. Motors and Other Wiring
   a. The electrical contractor shall provide all required conduit, wiring, and safety switches for all motors, and other electrical equipment, even though the motors and electrical equipment may be supplied by others. The electrical contractor shall include all work and connections required to make the system complete and operational. Provide magnetic starters for equipment as indicated on the drawings.
   b. The electrical equipment may include but not be limited to such items as grille motors and interlocks, exterior and interior signage, starting devices, motor controllers, float switches, alarm devices or systems, push buttons, exhaust fans, data systems, intercoms and stereo systems. The electrical contractor shall verify equipment location and sizes with the trade supplying the equipment before installing the conduit or outlets.
24. Elevator(s)
   a. Furnish and install all required electrical components and connections for elevator operation. Refer to elevator shop drawings for complete information. Provide shunt-trip operation for elevator circuit where required. Include connections for shaft, sump pump, pit light, receptacle, cab light, etc. Basis of design hp and circuit characteristics shown on drawings must be verified with elevator supplier prior to rough-in or installation.
1. Devices
   a. Hubbell, ~~Leviton~~ or approved equal with matching coverplates.
   b. Provide commercial grade wiring devices, in types, characteristics, grades, colors, and electrical ratings ~~as specified~~ as indicated, which are UL-listed and which comply with NEMA WD1 and other applicable UL and NEMA standards. Verify color selections with architect. Provide device plates to match device colors.
   c. Provide GFCI protection for all kitchen 15 and 20-amp receptacles. Where the receptacle is rendered inaccessible by equipment provide GFCI protection at the circuit breaker.
26. Service entrance and distribution equipment
   a. Electrical contractor must submit drawings for permit and receive approval prior to ordering equipment. No allowances will be made for equipment changes that occur prior to receipt of approved plans.
1. Transformers
   a. Dry type transformers - 15kva to 500 kVA - 600 volts or less, single and three- phase. Concrete pads for transformers, properly sleeved for transformer tap compartments.
   b. All applicable material shall conform to NEMA standards. All applicable material shall bear UL labels.
   c. Transformers shall be ventilated type, single and/or three-phase, 60 hertz, dry type, air cooled, two winding, insulated, high efficiency, low sound level, as listed on the drawings. Provide transformers of same manufacturer as switchboards and panelboards.
   d. Coils shall utilize an underwriters' laboratory approved, 220 (C insulation system and the average temperature rise shall not exceed 115°c above a 40°c maximum ambient. All units shall have NEMA standard taps. 2-2 1/2% AN and 4-2 1/2% BN.
   e. Cores shall be manufactured with a high grade, non-aging silicon steel stacked without gaps and firmly clamped. The core and coil assembly shall be mounted on vibration pads and bolted to the enclosure. The enclosure for separately mounted transformers shall be provided with lifting eyes or brackets nema-3r outdoor, to prevent access to live parts. Top of case temperatures shall not exceed UL acceptable levels.
   f. Transformers shall be installed on minimum 3-1/2" concrete pads, plumb and level in accordance with the manufacturer's instructions and applicable codes.
   g. Terminate primary and secondary conductor with compression connectors. Grounding to be per NEC.
   h. Verify incoming voltage to transformer and set taps at the voltage level.
   i. Provide lockable breakers for feeders supplying transformers that are not located within site of the over-current protection. Transformers shall be field marked with the location of the over-current protection device.
28. Disconnects and Fused Switches
   a. Heavy duty type, horsepower rated with interlocking cover. NEMA 1 typical. Outdoor and wet location switches shall be raintight type NEMA 3R; All switches shall be lockable. Fuses in circuits rated at 600 amperes or less shall be UL class RK1 dual-element, time-delay, current limiting fuses. Fuses in circuits rated at 601 amperes or larger shall be UL class I time-delay, current limiting fuses.
29. Nameplates
   a. Provide permanent nameplate labeling on all disconnects. Include load served, voltage, phase, horsepower, fuse size, and type.
30. Mounting
   a. Mount independent of the mechanical unit housing unless specifically accepted by the local code authority. Provide Unistrut support channels mounted in coordination with roof penetration and patching work. Coordinate with general contractor.
31. Grounding and bonding for electrical systems and equipment
   a. Provide grounding and bonding for electrical service in accordance with NEC article 250.
   b. All major parts not carrying current, including but not limited to, secondary feeder circuit, equipment and panelboard enclosures, pull and junction boxes, shall be properly grounded. Metallic raceways shall utilize double locknuts and other fittings as required to provide ground continuity.
32. Lighting Contactors
   a. Provide lighting contactors as indicated on drawings. 30A, 12-pole lighting contactor in NEMA 1 enclosure.
33. Switchboards
   a. Switchboards shall be of the same manufacturer as the panelboards. The assembly shall be rated to withstand mechanical forces exerted during short circuit conditions when connected directly to a power source.
   b. Provide NEMA 1 enclosure where located indoors in dry locations. Provide NEMA 3R enclosures where located outdoors. All exterior and interior steel surfaces of the switchboard shall be properly cleaned and provided with a rust-inhibiting phosphatized coating. Color shall be ANSI 61 light gray. Provide 3.5" housekeeping pad for all switchboards.
34. Panelboards
   a. Provide branch circuit panelboard(s) as shown on the drawings and as specified herein. Panelboards shall have bolted, thermal and magnetic breakers with main lugs only or main breakers as required. Panelboards shall be Eaton, Square D, GE by ABB, or equal, and be enclosed in NEMA 1 type housing unless noted otherwise. Enclosure(s) shall be complete with a hinged door, cylinder lock, and a neatly typed directory under plastic cover in each panel door. All multiple pole breakers shall have a common trip handle. All panels and breakers shall be rated to withstand available fault current.
35. Lighting
   a. Provide a new lighting system complete and fully operational and in conformance with code and UL listing requirements. Clean all fixtures at time of job completion utilizing manufacturers approved or recommended cleaning solutions. All fixtures and lamps are provided by this contractor as scheduled unless noted otherwise. Contractor shall furnish all boxes, mounting kits, transformers, controllers, and other components necessary for a complete and fully functional installation.
   b. Where dimmers and/or dimming systems are required, contractor to furnish dimmers that are compatible with fixture source and rated for the wattage of the dimming zone. Provide additional dimmers as required to meet zone load requirements.
36. Telephone System
   a. Telephone wiring and system provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.
37. Data/Pos/A-V/System Notes
   a. Data, POS and/or A-V wiring and systems provided by owner. Verify system requirements and rough-in locations with owner prior to start of construction. Electrical contractor shall provide plaster ring and pull string from each device location to above accessible ceiling.
38. Fire Alarm System
   a. Fire alarm system to be design-build by contractor. Contractor shall provide all required drawings and submit to authorities. Refer to architect's code sheet for relevant design criteria. Submit drawings to Owner/Architect for review prior to submitting to authorities. Provide required items including but not limited to relay modules, monitor modules, return-air detectors, elevator recall, etc. Provide remote annunciator panel(s) at location(s) approved by Architect and authorities.




NOTES:
1. IF MOUNTING HEIGHT OF DEVICES INDICATED HERE IS IN CONFLICT WITH ADA REQUIREMENTS DUE TO INSTALLATION DETAIL, ADA DIMENSIONS SHALL GOVERN.
2. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS. LOCATIONS SHOWN ON INTERIOR ELEVATIONS SHALL SUPERCEDE LOCATIONS SHOWN HERE, UNLESS LOCATIONS SHOWN ON INTERIOR ELEVATIONS ARE NOT CODE COMPLIANT.

## TYPICAL DEVICE MOUNTING HEIGHTS

SCALE:
NONE




NOTES:
1. IF ALIGNMENT OF DEVICES INDICATED HERE IS IN CONFLICT WITH ADA REQUIREMENTS DUE TO INSTALLATION DETAIL, ADA DIMENSIONS SHALL GOVERN.
2. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS. LOCATIONS SHOWN ON INTERIOR ELEVATIONS SHALL SUPERCEDE LOCATIONS SHOWN HERE, UNLESS LOCATIONS SHOWN ON INTERIOR ELEVATIONS ARE NOT CODE COMPLIANT.

## TYPICAL DEVICE MOUNTING HEIGHTS

SCALE:
NONE


ATA ARCHITECTS
1063 Central Avenue Cincinnati Ohio, 45202
p: 513-241-4422 f: 513-241-5593 www.ATA-B.com


SANTA MARIA COMMUNITY SERVICES

modelgroup

JS|HELD

# SANTA MARIA COMMUNITY SERVICES

1048 CONSIDINE AVE.
CINCINNATI, OHIO 45205

CERTIFICATION

STATE OF OHIO
PAUL R. SPRONG
PE 74471
REGISTERED
PROFESSIONAL ENGINEER

**REVISIONS**

| # | DATE | DESCRIPTION |
|---|---|---|
| 2 | 01/30/2026 | PERMIT ISSUE |
| 3 | 02/20/26 | ADDENDUM No. 1 |

**PROJECT #:** 6568

**DRAWN:** Author **CHECKED:** Checker


rtm engineering consultants
519 MONMOUTH | 201 | NEWPORT, KY 41071
T: 859.500.7050 F: 847.756.4186 | WWW.RTMEC.COM


**ELECTRICAL SPECIFICATIONS**

**E300**