

May 10, 2024

BID Addendum-01

Project No.
JCDT23-0185

Title
Bid Clarification 01

Project Name
St Clair County Heath Dept Relocation

Owner
St Clair County, Michigan

Distribution

Name	Company / Company Abbr.	Email
Jennifer Posey	St Clair County - Administrative Services Manager	JPosey@stclaircounty.org

Bid Clarification

No.	Item	Response
1.	Are there any existing photos of the project space.	At this time photos for the existing space are not available for upload to MNIT.
2.	We did not see any electrical drawings for the garage. Will these be forthcoming?	Extent of Electrical scope is on the arch plans.
3.	Regarding the solid core wood doors, they're calling out to be stained in the door schedule. Is their further clarification for the wood doors that you can provide? What should we quote as the wood door veneer? Please advise.	Wood door to be Red Oak Veneer to match existing doors to remain. Updated Spec TOC and added missing section 081416 Flush Wood Doors will be issued as a part of Bid Addendum 01
4.	Please confirm that the Low Voltage Data is by the owner and all we are required to provide is raceways & boxes.	Bids should include the back boxes and raceways stubbed above accessible ceilings. Separate RFP will be issued for the cabling vendor to provide any sleeves, j-hooks, D-rings needed for their cabling.
5.	Please confirm that Furniture is by the Owner.	Correct FF&E by owner. Separate RFP will be issued for this related.
6.	Alternates Form indicates Alternate #1 through Alternate #8, but the drawings only indicate Alternate #1 through Alternate #6. Please clarify.	Additional lines can be crossed off if not used. Complete Alternate lines #1 through #6.
7.	<ol style="list-style-type: none"> Are the Reheat Coil (RH-1 through RH-22) Space Thermostats provided by equipment manufacturer or T.C.C.? The Location of Reheat Coil Space Thermostats on floorplans. Are the Reheat Coil Space Thermostats to have BACnet compatibility or stand alone? 	<ol style="list-style-type: none"> Controls Contractor Indicated on the floor plans M50-01 and M50-02 BACnet compatibility In the schedule, it's indicated these are Constant Volume Terminals. They are the same model as the VAV, the

	<p>4. Definition of the CAV's on Equipment Schedules. 5. The location of VAV-A through VAV-F on floorplans. 6. The location of the CAV's Space Temperature Sensors indicated on floorplans. 7. Existing TU-7 Relocated twice on M53-01. Which location is correct? 8. Location of Heat Pumps-1 through 4 Space Temperature Sensors indicated on floorplans. 9. Is a BMS to be provided?</p>	<p>designation "C" is only an indication that it's constant flow and not variable. 5. Indicated on floor plans M50-01 and M50-02, if not shown, they are not being used. 6. Indicated on floor plans M50-01 and M50-02 7. Assume for now that one location requires a new VAV the same capacity as a TU-7 8. Indicated on floor plans M50-01 and M50-02 9. Controls Contractor to provide controllers and a panel compatible with existing to interface. A new BAS control panel will be provided to tie into existing building control system.</p>
<p>8.</p>	<p>The garage building roof calls out for shingles, but the roof appears to be roughly a 1:12 pitch. Shingle manufacturers typically will not give a warranty for their products to be applied to anything less than at least a 2:12 or 3:12 pitch. Can you verify that shingle roofing is intended on this application?</p>	<p>Garage roof to be using a Fully Adhered 0.60 EPDM roofing system. Specification 075323 Single-Ply Roofing issued as a part of the 5/9/2024 Bid Addendum.</p>
<p>9.</p>	<p>Regarding the demolition on the second floor, please clarify if the light fixtures and the acoustical ceiling tile are to be removed.</p>	<p>Extend of 2nd Floor ceiling (Keynote AC50) is limited to location where the new lab is being installed. Remainder of existing ACT ceiling and Grid to remain. All lighting fixtures are being removed and replace per electrical plan E81-02.</p>
<p>10.</p>	<p>Spec Section 102800 indicates to match the building/owner standards for the following, (Toilet Paper Dispenser, Soap Dispenser, Toilet Seat Cover Dispenser, Sanitary Napkin Dispenser, Paper Towel Dispenser), please provide manufacture and model numbers for building/owner standards.</p>	<p>See Toilet Accessory Schedule on sheet A60-04 for manufacture and model numbers for building/owner standards.</p>
<p>11.</p>	<p>Can we assume that all the medical equipment (i.e., Lab Freezers, Lab Refrigerators, Meter Scale, Diagnostic, Sharps Container, Bio-Haz Waste Bins, undercounter fridges and Larger Copiers, etc.) will be provided and installed by the owner?</p>	<p>Yes, all medical equipment will be provided and installed by owner.</p>
<p>12.</p>	<p>Drawing A60-2 indicates a Commercial Refrigerator and Commercial Microwave, please provide manufacturer and model numbers.</p>	<p>Refrigerator and Microwave are not commercial and will be relocated and installed by owner.</p>
<p>13.</p>	<p>Drawing A91-01 indicates Corner Guards WP-01 & WP-02 please provide clarification between WP-01 & WP-02.</p>	<p>Sheet A90-01 Revised wall tag to coordinate with locations where WP-01 should have indicated WP-03. Sheet A90-00 Material Schedule has been revised clarify WP-01 & WP-02</p>

14.	Please advise if there is an existing warranty on the Roof and who the manufacture is.	Garage roof to be using a Fully Adhered 0.60 EPDM roofing system. Specification 075323 Single-Ply Roofing issued as a part of the 5/9/2024 Bid Addendum.
15.	Will the permit fees be waived?	Permit Fee will not be waived.
16.	Please provide a specification for the Asphalt Shingles and roof underlayment.	See Bid Response Items #8 and #14 above.
17.	Drawing A20-1 Note #14 indicates to provided card or keypads access and all associated electrical work at door, referring to Door Schedule. Please confirm that the owner will be responsible for the card or keypads access and confirm that we will only provide raceways and boxes.	Yes, card or keypad access will be provided and installed by the owner's vendor. GC to provide raceways and box in coordination with the owner's vendor (Dyck Security).
18.	Please identify what of the existing asphalt is to be removed on Drawing A10-0. Also please provide Civil Drawings per the note for the electrical trench	SCC HD Garage sheet A10-01 has been revised to clarify area of new concrete paving. Asphalt is being re-stripped. Provide allowance for estimated civil scope bid assessment.
19.	Drawing A60-02 indicates Chair Rail WP-04, please provide information for WP-04 as it is not indicated on drawing A90-00/A70 Material Schedule.	Sheets A90-00 has been revised to include chair rail WP-04.
20.	Upon review, we did not find any written specifications for these (garage) doors; please clarify. The elevations and section 5 on A40-01 are shown to be sectional doors with windows and section 1 on A42-01 with the door schedule indicates coiling doors. Please clarify which type is required. If there is coiling, does the owner want vision panels; please clarify. Will the owner accept alternate manufacturers seeing there is only one indicated on the door schedule; please clarify	Specifications 08 3323-RIB-Overhead Coiling Doors issued as part of Bid Addendum. Overhead Coiling door to be used. Vision panels are not required. Alternate manufactures are acceptable.
21.	Drawing E10-01 show disconnects for the VAV's on the drawings, but the circuit numbers, panel schedules are blank, and the mechanical drawings give no electrical info for these on the VAV schedule. Do the VAV require electrical, please clarify.	The reheat coils require a disconnect.
22.	VAV box schedule doesn't show any coil information, the sound data is unclear, it says refer to the drawings for counts however the VAV boxes do not line up with the new VAV boxes tags that are scheduled; please clarify.	The coil information is on a separate schedule. If the VAV tags are not used, then they are not used. The sound data is on the VAV schedule.
23.	Fire alarm. Does this existing building have National Time voice evacuation already on the panel?	Existing building is horn and strobes only. There is no PA system.
24.	My fire suppression contractor is not clear as to the extent of fire suppression work required for this project. He has	Fire suppression plans have been included in the Bid Addendum 01.

NORR

	been unable to locate anything on the drawings that would indicate the scope of work. Please advise.	
25.	There is a sam.gov form requesting our UEI number. I believe we are still in process of obtaining that number. Is this something we can provide at a later date?	UEI # not required at the time of Bid. Bidder should be able to certify that they are not on the suspension and debarment list through the federal government.
26.	Is the garage a separate line item or is it to be included in our base bid?	Section 00 2113-3 (Basis of Bid) Two (2) Segregated bids lump sum proposals are being entertained for the complete work of this proposal. 1. 220 Fort Street Interior Renovation Proposal 2. 220 Fort Street Emergency Preparedness Garage and Site Work Proposal
27.	I wanted to confirm that there are no wage requirements for this project.	SCC does not have wage requirements for this project.
28.	Would we be getting our permits through local agencies or the State of Michigan?	Permits will be issued by the City of Port Huron, Michigan.
29.	The drawings show six alternates, the bid form has eight listed. Is there two additional alternates not shown?	Only (6) alternates. The other (2) are not required.
30.	The RCPs list the ceiling tile as 2x2 ACT in most rooms. The finish schedule lists the tiles as ACT or ACT(E). The specs list ACT-1 and ACT-2. The material schedule shows AC-01 through AC-09. AC-03 through AC-09 appears to be noted on the RCPs. Which tiles go in what locations?	ACT are locations of new tiles. ACT(E) are existing to remain tiles. Provide bid per material schedule AC-03 through AC-09. Coordinate with room finish schedule.
31.	Elevations show chair rail WP-04. This is not listed on the material schedule. Please advise.	Sheets A90-00 has been revised to include chair rail WP-04.
32.	The equipment schedules do not contain much information. Who is supplying what equipment?	FF&E supplied and installed by owner.

NORR, LLC

Brian Colburn – Project Manager

Signature

May 9, 2024

Date

SPECIFICATIONS

Revised Specification Sections:

Section 075323 - CARL EPDM Thermoset Single-Ply Roofing - 2p

Section 081416 - RIB-Flush Wood Doors - 5p

Section 083323 - RIB-Overhead Coiling Doors - 9p

**SECTION 07 5323
EPDM THERMOSET SINGLE-PLY ROOFING - CARLISLE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Adhered roof system with ethylene propylene diene monomer (EPDM) roofing membrane.

1.02 REFERENCE STANDARDS

- A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2015, with Editorial Revision (2022).
- C. ASTM E1980 - Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces; 2011 (Reapproved 2019).
- D. NRCA (RM) - The NRCA Roofing Manual; 2024.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer's written information listed below.
 - 1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
- C. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.
- D. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.
- E. Warranty:
 - 1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
 - 2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.
- F. Manufacturer's Qualification Statement.
- G. Installer's Qualification Statement.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum twenty (20) years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section:
 - 1. With minimum five years documented experience.
 - 2. Approved by membrane manufacturer.
 - 3. Extend manufacturer's labor and materials guarantee.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
- B. Protect products in weather protected environment, clear of ground and moisture.
- C. Protect foam insulation from direct exposure to sunlight.
- D. Keep Safety Data Sheets (SDS) at the project site at all times during transportation, storage, and installation of materials.
- E. Comply with requirements from Owner to prevent overloading or disturbance of the structure when loading materials onto the roof.

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1.06 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather. Refer to manufacturer's written instructions.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F or above degrees F.
- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- E. Proceed with work so new roofing materials are not subject to construction traffic as work progresses.
- F. Do not allow grease, oil, fats, or other contaminants to come into direct contact with membrane.

1.07 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
 - 1. Warranty Term: 25 years.
 - 2. For repair and replacement include costs of both material and labor in warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.
- B. Substitutions: See Section 01 6000 - Product Requirements.

2.02 ROOFING APPLICATIONS

- A. EPDM Membrane Roofing: One ply membrane, fully adhered.
- B. Roofing Assembly Performance Requirements and Design Criteria:
 - 1. Solar Reflectance Index (SRI): Minimum of 64 based on three-year aged value; if three-year aged data is not available, minimum of 82 initial value.
 - a. Calculate SRI in accordance with ASTM E1980.
 - b. Field applied coating may not be used to achieve specified SRI.
 - 2. Wind Uplift:
 - a. Designed to withstand wind uplift forces calculated with ASCE 7.
 - b. Design Wind Speed: In accordance with local building code and authorities having jurisdiction (AH).
 - 3. Drainage: No standing water within 48 hours after precipitation.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane:
 - 1. Material: Ethylene propylene diene monomer (EPDM); ASTM D4637/D4637M, Type I (non-reinforced).
 - 2. Thickness: 60 mil, 0.060 inch, minimum.
 - 3. Sheet Width: Factory fabricated into largest sheets possible.
 - 4. Color: Black.
 - 5. Products:
 - a. Carlisle SynTec Systems; Sure-Seal.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Flexible Flashing Material: Same material as membrane.
- D. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

2.04 ACCESSORIES

- A. Prefabricated Flashing Accessories:
 - 1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
 - 2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.
 - 3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.
 - 4. Carlisle SynTec Systems; Sure-Seal Pressure-Sensitive Reinforced Universal Securement Strip (RUSS):
- B. Membrane Adhesive: As recommended by membrane manufacturer.
- C. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- D. Sealants: As recommended by membrane manufacturer.
- E. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.
- F. Edgings and Terminations: Manufacturer's standard edge and termination accessories.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.02 PREPARATION, GENERAL

- A. Clean substrate thoroughly prior to roof application.
- B. Do not begin work until other work that requires foot or equipment traffic on roof is complete.
- C. Apply manufacturer's recommended vapor retarder or temporary roof before roof installation.

3.03 WOOD DECK PREPARATION

- A. Verify flatness and tightness of joints of wood decking. Verify that all wood decking edges are fully supported. Fill knot holes with latex filler or completely cover with securely nailed sheet metal.

3.04 INSTALLATION - GENERAL

- A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- F. Coordinate the work with installation of associated counterflashings installed by other sections as the work of this section proceeds.
- G. When substrate preparation is responsibility of another installer, notify Architect of unsatisfactory conditions before proceeding.

3.05 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Fully Adhered Application: Apply adhesive at manufacturer's recommended rate. Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.
- D. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches. Seal permanently waterproof.
- E. At intersections with vertical surfaces:
 - 1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
 - 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- F. Coordinate installation of roof drains and sumps and related flashings, locate field splices away from low areas and roof drains, and lap upslope sheet over downslope sheet.
- G. Daily Seal: Install daily seal per manufacturer's instructions at the end of each workday. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

3.06 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements for general requirements for field quality control and inspection.
- B. Require site attendance of roofing and insulation material manufacturers daily during installation of this work.

3.07 CLEANING

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. Remove wrappings, empty containers, paper, and other debris from the roof daily. Dispose of debris in compliance with local, State, and Federal regulations.
- C. Remove bituminous markings from finished surfaces.
- D. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.
- E. Repair or replace defaced or damaged finishes caused by work of this section.

3.08 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION 07 5323

**SECTION 08 1416
FLUSH WOOD DOORS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Solid-core doors with wood-veneer faces (Type W)
- B. Factory finishing wood doors.
- C. Factory-fitted flush wood doors to frames and factory machining for hardware.

1.02 RELATED REQUIREMENTS

- A. Section 08 1213 - Hollow Metal Frames.
- B. Section 08 7100 - Door Hardware.
- C. Section 08 8000 - Glazing.
- D. Section 09 9300 - Staining and Transparent Finishing: Field finishing of doors.

1.03 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).
- B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.
- C. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2022.
- D. WDMA I.S. 1A - Interior Architectural Wood Flush Doors; 2021, with Errata (2022).

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.
- C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.
 - 1. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
- D. Samples: Submit two samples of door veneer, 2 by 3 inches in size illustrating wood grain, stain color, and sheen.
- E. Certificate: Submit labels and certificates required by quality assurance and quality control programs.

1.05 QUALITY ASSURANCE

- A. Woodwork Quality Assurance Program:
 - 1. Provide labels indicating that the installed work complies with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade or grades specified.
 - 2. Provide designated labels on shop drawings as required by quality assurance program.
 - 3. Provide designated labels on installed products as required by quality assurance program.
 - 4. Submit documentation upon completion of installation that verifies this work is in compliance with specified requirements.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Package, deliver and store doors in accordance with specified quality standard.
- B. Accept doors on site in manufacturer's packaging, and inspect for damage.
- C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might bleach veneer; seal top and bottom edges with tinted sealer if stored more than one week, and break seal on site to permit ventilation.

1.07 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.

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PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Wood Veneer Faced Doors:
 - 1. Masonite Architectural; Aspiro Select Wood Veneer Doors:
www.architectural.masonite.com/#sle.
 - 2. Oshkosh Door Company; www.oshkoshdoor.com.
 - 3. Substitutions: See Section 01 6000 - Product Requirements.

2.02 DOORS

- A. Doors: See drawings for locations and additional requirements.
 - 1. Quality Standard: Premium Grade, Heavy Duty performance, in accordance with AWMAC/WI (NAAWS), unless noted otherwise.
 - 2. Wood Veneer Faced Doors: 5-ply or 7-ply unless otherwise indicated.
- B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
 - 1. Provide solid core doors at each location.
 - 2. Wood veneer facing for field transparent finish as indicated on drawings.

2.03 DOOR AND PANEL CORES

- A. Non-Rated Solid Core and 20 Minute Rated Doors: Type staved lumber core (SLC), plies and faces as indicated.

2.04 DOOR FACINGS

- A. Veneer Facing for Transparent Finish: Red oak, HPVA Grade A, plain sliced (flat cut), with book match between leaves of veneer, center balance match of spliced veneer leaves assembled on door or panel face.
 - 1. Vertical Edges: Same species as face veneer.
 - 2. Running Match each pair of doors and doors in close proximity to each other.
 - 3. Pair Match each pair of doors; Set Match pairs of doors within 10 feet of each other when doors are closed.

2.05 DOOR CONSTRUCTION

- A. Fabricate doors in accordance with door quality standard specified.
- B. Cores Constructed with stiles and rails:
 - 1. Provide solid blocks at lock edge and top of door for closer for hardware reinforcement.
 - 2. Provide solid blocking for other throughbolted hardware.
- C. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.
- D. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
 - 1. Exception: Doors to be field finished.
- E. Provide edge clearances in accordance with the quality standard specified.

2.06 FINISHES - WOOD VENEER DOORS

- A. Finish work in accordance with AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
 - 1. Transparent:
 - a. System - 11, Polyurethane, Catalyzed.
 - b. Stain: As selected by Architect.
 - c. Sheen: Satin.

2.07 ACCESSORIES

- A. Hollow Metal Door Frames: See Section 08 1113.
- B. Glazing Stops: Wood, of same species as door facing, butted corners; prepared for countersink style tamper proof screws.

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- C. Astragals and Edges for Double Doors: Pairs of doors astragals, and door edge sealing and protection devices.
- D. Door Hardware: See Section 08 7100.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install doors in accordance with manufacturer's instructions and specified quality standard.
 - 1. Install fire-rated doors in accordance with NFPA 80 requirements.
- B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.
- C. Field-Finished Doors: Trimming to fit is acceptable.
 - 1. Adjust width of non-rated doors by cutting equally on both jamb edges.
 - 2. Trim maximum of 3/4 inch off bottom edges.
- D. Use machine tools to cut or drill for hardware.
- E. Coordinate installation of doors with installation of frames and hardware.
- F. Coordinate installation of glazing.

3.02 TOLERANCES

- A. Comply with specified quality standard for fit and clearance tolerances.
- B. Comply with specified quality standard for telegraphing, warp, and squareness.

3.03 ADJUSTING

- A. Adjust doors for smooth and balanced door movement.
- B. Adjust closers for full closure.

END OF SECTION 08 1416

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**SECTION 08 3323
OVERHEAD COILING DOORS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Overhead Rolling Door and Grille Openers
- B. Electric operators and control stations.
- C. Wiring from electric circuit disconnect to operators and control stations.

1.02 REFERENCE STANDARDS

- A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
- B. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- D. ITS (DIR) - Directory of Listed Products; Current Edition.
- E. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.
- F. NEMA ICS 2 - Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts; 2008 (Reaffirmed 2020).
- G. NEMA MG 1 - Motors and Generators; 2021.
- H. UL (DIR) - Online Certifications Directory; Current Edition.
- I. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

1.04 QUALITY ASSURANCE

- A. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for purpose specified.

1.05 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Manufacturer Warranty: Provide five-year manufacturer warranty for three-ply multifilament polyester fabric curtain. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Overhead Coiling Doors:
 - 1. Cornell Iron Works, Inc: www.cornelliron.com/#sle.
 - 2. Raynor Garage Doors; DuraCoil, Model HFF: www.raynor.com/#sle.
 - 3. Overhead Door Corp., 2501 S. State Hwy. 121, Suite 200, Lewisville, TX 75067. ASD. Tel. Toll Free: (800) 275-3290. Phone: (469) 549-7100. Fax: (972) 906-1499. Web Site: www.overheaddoor.com. E-mail: sales@overheaddoor.com.
 - 4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 COILING DOORS

- A. Exterior Coiling Doors Type 625 Storetite: Steel slat curtain. Heavy Duty Rolling Door and Grille Operator: Model RHX True Gear Head Type Door Operator.
 - 1. Capable of withstanding positive and negative wind loads of 20 psf without undue deflection or damage to components.
 - 2. Sandwich slat construction with insulated core of foamed-in-place polyurethane insulation; minimum R-value of 7.7.

30406 / St Clair County Health Department Relocation	08 3323 - 1	Overhead Coiling Doors
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3. Finish: Factory painted, RAL 7030 or equal color.
4. Guide, Angles: Galvanized steel.
5. Electric operation.
6. Mounting: Surface mounted.

2.03 MATERIALS AND COMPONENTS

- A. Metal Curtain Construction: Interlocking slats.
 1. Curtain Bottom for Slat Curtains: Fitted with angles to provide reinforcement and positive contact in closed position.
 2. Weatherstripping for Exterior Doors: Moisture and rot proof, resilient type, located at jamb edges, bottom of curtain, and where curtain enters hood enclosure of exterior doors.
 3. Steel Slats: Minimum thickness, 24 gauge, 2 inch; ASTM A653/A653M galvanized steel sheet.
- B. Guide Construction: Continuous, of profile to retain door in place with snap-on trim, mounting brackets of same metal.
- C. Guides - Angle: ASTM A36/A36M metal angles, size as indicated.
 1. Hot-dip galvanized in compliance with ASTM A123/A123M.

2.04 ELECTRIC OPERATION

- A. Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction.
 1. Provide interlock switches on motor operated units.
- B. Electric Operators:
 1. Mounting: Side mounted.
 2. Motor Enclosure:
 - a. Interior Coiling Doors: NEMA MG 1, Type 1; open drip proof.
 3. Motor Rating: 1/2 HP; continuous duty.
 4. Motor Voltage: 120 volts, single phase, 60 Hz.
 5. NEMA 48 for 1/2 hp single phase
 6. Controller Enclosure: NEMA IC6 Type 4.
 7. Opening Speed: 12 inches per second.
 8. Brake: Manufacturer's standard type, activated by motor controller.
 9. Manual override in case of power failure.
 10. See Section 26 0583 for electrical connections.
- C. Control Station: Provide standard three button, 'Open-Close-Stop' momentary-contact control device for each operator complying with UL 325.
 1. Push-button and key operated control stations with open, close, and stop buttons.
 2. Controls for both interior and exterior location.
 3. Special Operation:
 - a. Vehicle detector operation.
 - b. Card reader control.
 - c. Timer Close Module for unattended timed door closing. Auxiliary control inputs, safety inputs, timer hold input and automatic door closing feature with selectable time delay. Safety inputs can be configured using on board keypad.
 4. 24 volt circuit.
 5. Surface mounted, at exterior location as indicated on drawings.
 6. Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
 - a. Primary Device: Provide electric sensing edge, wireless sensing, NEMA 1 photo eye sensors, or NEMA 4X photo eye sensors as required with momentary-contact control device.
- D. Safety Edge: Located at bottom of coiling door, full width, electro-mechanical sensitized type, wired to stop and reverse door direction upon striking object, hollow neoprene covered.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that opening sizes, tolerances and conditions are acceptable.
- B. Coordinate door loading and with Pre-Engineered Metal Building Manufacture. Door jambs shall be designed to accomodate 2000 lb. door weight.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding

3.02 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. Coordinate installation of electrical service with Section 26 0583.
- F. Complete wiring from disconnect to unit components.

3.03 ADJUSTING

- A. Adjust operating assemblies for smooth and noiseless operation.
- B. Test for proper operation and adjust as necessary to provide proper operation without binding or distortion.

3.04 CLEANING

- A. Clean components using non-abrasive materials and methods recommended by manufacturer.
- B. Remove labels and visible markings.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 08 3323

30406 / St Clair County Health Department Relocation	08 3323 - 3	Overhead Coiling Doors
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Reason for Issue
Bid Addendum 01

Date
May 10, 2024

Project Information
St Clair County Health Department Relocation

NORR Project No.
JCDT23-0185

Intent

This **TRANSMITTAL** is issued to provide new and/or updated project documents to capture the Bid Addendum Clarifications as related to the St Clair County Health Department Relocation BID Plans issued to MNIT on 4/26/2024.

Drawings

The following **DRAWINGS** accompany and form a part of this **TRANSMITTAL**.

ARCHITECTURAL

Revised Drawings:

A00-00, A05-01, A20-01, A20-02, A90-00, A91-01

Added drawings: A20-00

Electrical

Revised Drawings:

E00-02, E10-01, E10-02, E10-03, E20-01, E20-02, E60-01, E60-02, E81-01, E81-02

Mechanical/Plumbing

Revised Drawings: M00-01, M00-03, M00-04, M00-06, M50-00, M50-01, M50-02, M50-03, M53-00, M53-01, M53-02

Added drawings: F40-01, F40-02, F80-01, F80-02

Specifications

Revised Specifications:

08 1416-RIB-Flush Wood Doors

ARCHITECTURAL DRAWING REVISIONS

1. **Sheet A00-00 – COVER**
 - a. Added Existing Pylon Sign Revision elevation to sheet.
 - b. Updated sheet index to include added sheets.

2. Sheet A05-01 – DOOR SCHEDULE, DOOR & FRAME DETAILS
 - a. Revised door schedule comments to include new door veneer type (Red Oak), to match existing.
3. Sheet A20-00 – PARTIAL FLOOR PLAN & PARTIAL REFLECTED CEILING PLAN - BASEMENT
 - a. Added sheet to show new mechanical work in basement.
4. Sheet A02-01 – FLOOR PLAN – LEVEL 01
 - a. Revised Keynote legend to include defibrillator note “NEW OWNER SUPPLIED / GC INSTALLED DEFIBRILLATOR CABINET AT SAME LOCATION AS A PREVIOUS ONE”.
 - b. Added location(s) of defibrillators to plan.
5. Sheet A02-02 – FLOOR PLAN – LEVEL 02
 - a. Revised Keynote legend to include defibrillator note “NEW OWNER SUPPLIED / GC INSTALLED DEFIBRILLATOR CABINET AT SAME LOCATION AS A PREVIOUS ONE”.
 - b. Added location(s) of defibrillators to plan.
6. Sheet A90-00 – MATERIAL SCHEDULE, NOTES AND DETAILS
 - a. Revised schedule to include chair rail WP-04 as indicated.
 - b. Revised legend to include chair rail WP-04 as indicated.
 - c. Revised schedule to include description for WP-02 as indicated.
7. Sheet A91-01 – FINISH PLAN - LEVEL 01
 - a. Added wall protection WP-03 at indicated locations.
 - b. Removed WP-01 at indicated locations where WP-03 has been added.
 - c. Revised legend to include chair rail WP-04 as indicated.

MECHANICAL/PLUMBING DRAWING REVISIONS

1. Dwg No F40-01
 - a. Added new sheet with fire protection new work scope.
2. Dwg No F40-02
 - a. Added new sheet with fire protection new work scope.
3. Dwg No F80-01
 - a. Added new sheet with fire protection demo scope.
4. Dwg No F80-02
 - a. Added new sheet with fire protection demo scope.
5. Dwg No M00-01
 - a. Added mechanical and plumbing symbol list.
 - b. Added sheet list.

6. Dwg No M00-03
 - a. Added new grille, registers & diffuser schedule.
 - b. Revised Air handling unit schedule
 - c.
7. Dwg No M00-04
 - a. Updated heat pump schedule with revised information.
 - b. Silencer schedule removed.
 - c. Added humidifier schedule
8. Dwg No M00-05
 - a. Removed sheet, humidifier schedule moved to M00-04
9. Dwg No M00-06
 - a. Removed interior insulation from heat pump/ drain pan detail.
10. Dwg No M50-00
 - a. AHU-1 relocated within basement with hydronic piping routing revised.
 - b. Ductwork added to ductwork and existing ductwork in shaft added.
 - c. Deleted note 3.
 - d. Changed the size of the outdoor air intake ductwork.
 - e. Deleted the motorized damper in EA/OA duct, as there is already a MD supplied by the AHU mfg. at the unit. Contractor to confirm with the supplier during for their bid, otherwise, include motorized dampers if the supplier is not providing.
11. Dwg No M50-01
 - a. HP-1,2,3 updated to show ceiling recessed modules.
 - b. Exhaust air ductwork included in labs and vaccine draw up. Routed to roof exhaust fans.
 - c. Airflow included on perimeter tags
 - d. Duct reheaters tagged on plan
 - e. Transfer ductwork added to rooms 121, 120, and 119.
 - f. PH&I EXAM 1 (ISO) ductwork revised.
 - g. Added Thermostats in the healthcare exam rooms and associated rooms.
12. Dwg No M50-02
 - a. HP-4 updated to show ceiling recessed module.
 - b. Exhaust ductwork included for laboratory 214. Routed to rooftop exhaust fan.
 - c. CAVV-A included for supply ductwork to laboratory 214.
 - d. Added thermostats.
13. Dwg No M50-03
 - a. Added CU-1,2 to rooftop plan.
 - b. Added EF-1,2,3 to rooftop plan

14. Dwg No M53-00
 - a. Adjusted hydronic piping and humidifier for new AHU-1 location.
 - b. Added isolation and drain valves for the new piping connections.
15. Dwg No M53-01
 - a. Updated condensing unit condensate piping on plan to be routed to nearest drain with indirect connection.
 - b. T-stats shown on plans connected to VAVs.
16. Dwg No M60-02
 - a. Added sheet with VAV box and perimeter heating ceiling panel control panel
 - b. Added control diagrams: Typical Constant Air Volume Terminals, Typical Variable Air Volume Terminal with Electric Reheat, Isolation Room Exhaust Fan, Needle Room Exhaust Fan, and Lab Constant Air Volume Terminal and Exhaust Fan Control Diagram.
 - c. Added BAS general notes.
17. Dwg No M00-05
 - a. Removed sheet, humidifier schedule moved to M00-04
18. Dwg No M80-11
 - a. Supply duct in shaft has been relocated within the shaft to avoid interference.
19. Dwg No M80-13
 - a. Supply duct in shaft has been relocated within the shaft to avoid interference.
20. Dwg No P00-03
 - a. Updated details and added new humidifier installation detail. Removed detail for the manifold in the duct.
 - b. Removed the Water Heater Detail, given there is no new water heater.
21. Dwg No P20-00
 - a. Added existing sump pump on plans.
 - b. Adjusted piping for relocated AHU-1.
22. Dwg No P20-01
 - a. HP-1,2,3 shown on plans with condensate drain.
23. Dwg No P20-02
 - a. HP-4 shown on plans with condensate drain.
24. Dwg No P50-01
 - a. Isometrics updated for plumbing/piping changes.
25. Dwg No P50-02
 - a. Isometrics updated for plumbing/piping changes.

ELECTRICAL DRAWING REVISIONS

1. Sheet E00-02 – ELECTRICAL RISER & SCHEDULES
 - a. Added light fixture and exit sign to schedule
 - b. Added existing riser diagram.
2. Sheet E10-00 – SOUTH WING -BASEMENT ELECTRICAL PLAN
 - a. Added power to basement AHU-1 & HU-1.
3. Sheet E10-00 – SOUTH WING – LEVEL 1 ELECTRICAL PLAN
 - a. Added circuiting for receptacles and mechanical equipment.
4. Sheet E10-02 – SOUTH WING – LEVEL 2 ELECTRICAL PLAN
 - a. Added circuiting for receptacles and mechanical equipment.
5. Sheet E10-03 – SOUTH WING – ROOF ELECTRICAL PLAN
 - a. Added circuiting for new roof mechanical equipment.
6. Sheet E20-01 – SOUTH WING – LEVEL 1 LIGHTING PLAN
 - a. Added circuiting for lighting.
 - b. Added emergency fixtures where required.
 - c. Added sensors and switches to areas where they weren't shown.
 - d. Added/revised exit signage layout.
7. Sheet E20-02 – SOUTH WING – LEVEL 2 LIGHTING PLAN
 - a. Added circuiting for lighting.
 - b. Added emergency fixtures where required.
 - c. Added sensors and switches to areas where they weren't shown.
 - d. Added/revised exit signage layout.
8. Sheet E60-01 – PANEL SCHEDULES – LEVEL 1
 - a. Populated panel schedules as circuited on plans.
9. Sheet E60-02 – PANEL SCHEDULES – LEVEL 2
 - a. Populated panel schedules as circuited on plans.
10. Sheet E81-01 – SOUTH WING LEVEL 1 – LIGHTING DEMOLITION PLAN
 - a. Clarified bathroom lighting demolition scope.
11. Sheet E81-02 – SOUTH WING LEVEL 2 – LIGHTING DEMOLITION PLAN
 - a. Clarified bathroom lighting demolition scope.

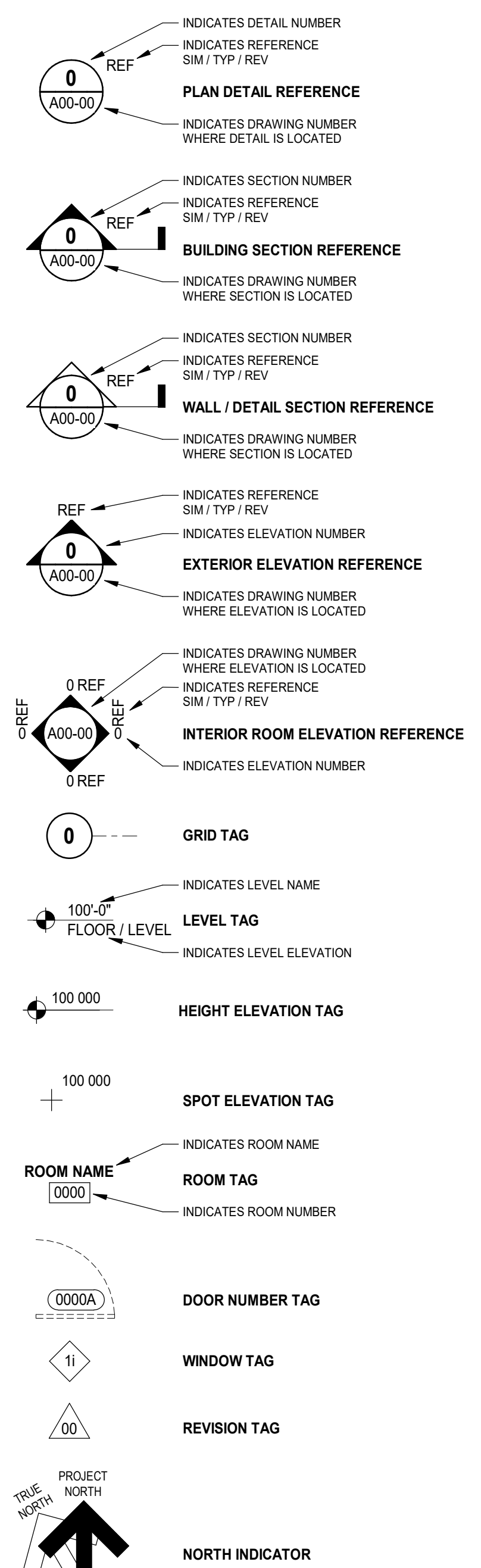
END OF BID ADDENDMUM WRITE-UP

ARCHITECTURAL DWG ABBREVIATIONS

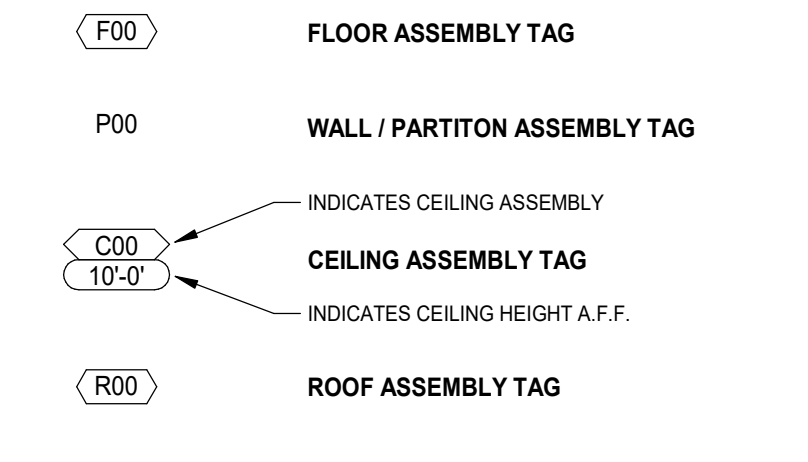
Table of architectural abbreviations including categories like ACCESSIBLE, ACCESS FLOOR, AREA DRAIN, ADJACENT, AFF, ALUMINUM, ANNUNCIATOR PANEL, ANODIZED, APPROX, ARCHITECTURAL, AUTOMATIC, AVB, AVM, B, BF, BLDG, BOL, BOM, BOLLARD, BUR, CABINET, CATCH BASIN, COILING DOOR, CORNER GUARD, CAST IN PLACE, CONTROL JOINT, CENTRE LINE, CEILING, CLEARANCE, COMPOSITE METAL PANEL, CONCRETE MASONRY UNIT, COLUMN, CUSTOMERS OWN MATERIAL, CONC, CONST, CONT, CORR, CPT, CPT-T, CS, CT, CW, CW, DL, DN, DNAR, DP, DR, DW, DWG, EA, EJ, ELEC, ELEV, EP, EPDM, EPX, EQ, ES, EXIST, EXP, EXP-S, EXT, EWS, F, FAAP, FAB, FC, FD, FDN, FE, FFE, F&E, FHC, FLR, FIO, FOC, FOG, FOS, FP, FRR, FT, G, GA, GALV, GB, GBN, GC, GL, GRD, GWB, GWS, GYP, HB, HC, HC, HD, HDR, HDW, HDWR, HM, HO, HOR, HR, HSKG, HSS, HT, HVAC, HVY, HW, ID, INFO, INSUL, INT, IMP, ISO, JAN, KIT, L, LAV, LINO

SYMBOL LEGEND

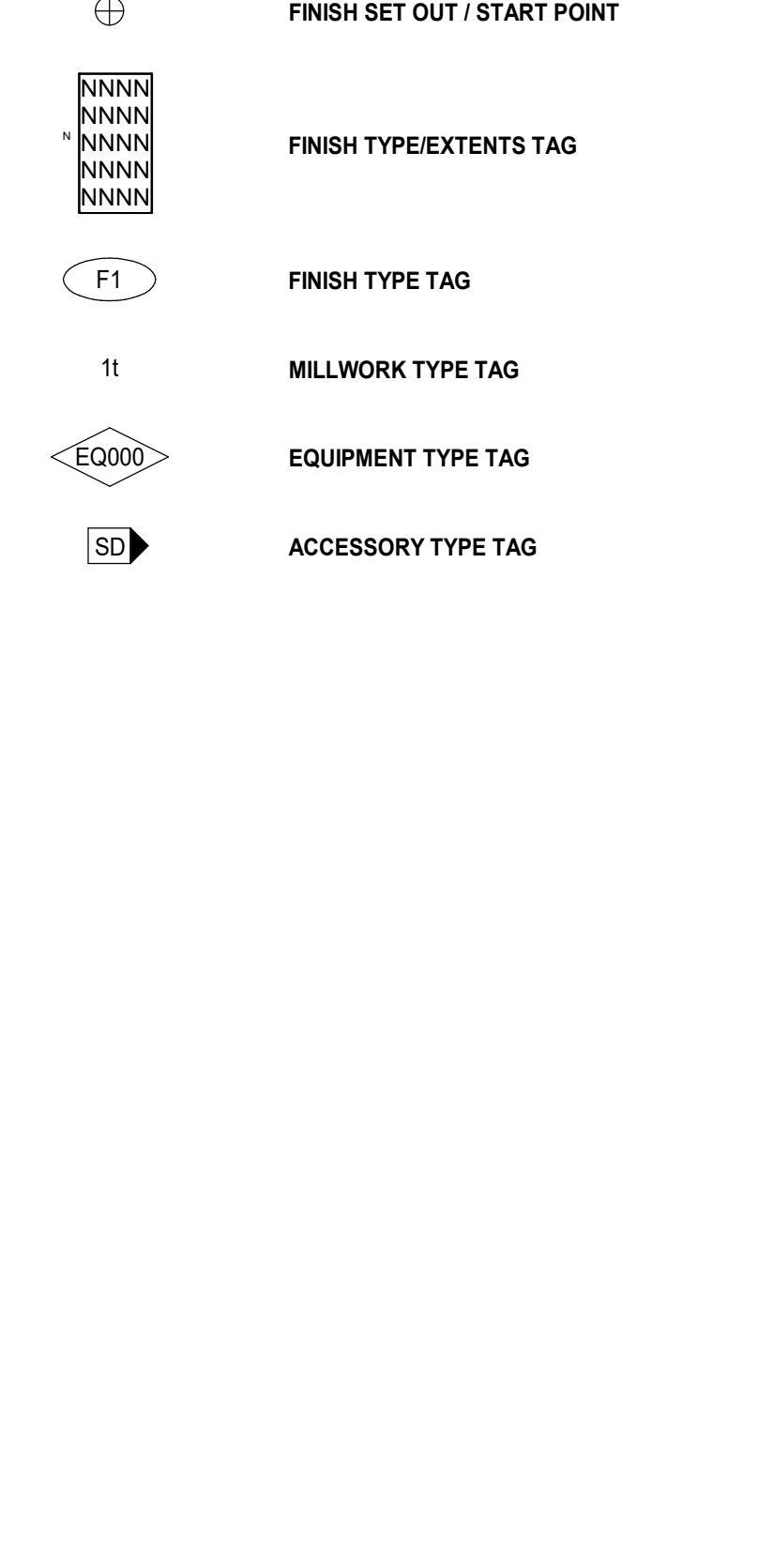
ANNOTATION SYMBOLS



ASSEMBLY SYMBOLS



FINISHES SYMBOLS



St. Clair County Health Department Relocation

220 FORT STREET
PORT HURON, MI
48060

PROJECT TEAM

OWNER

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CIVIL ENGINEER

TBD

CONTACT:
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EMAIL:

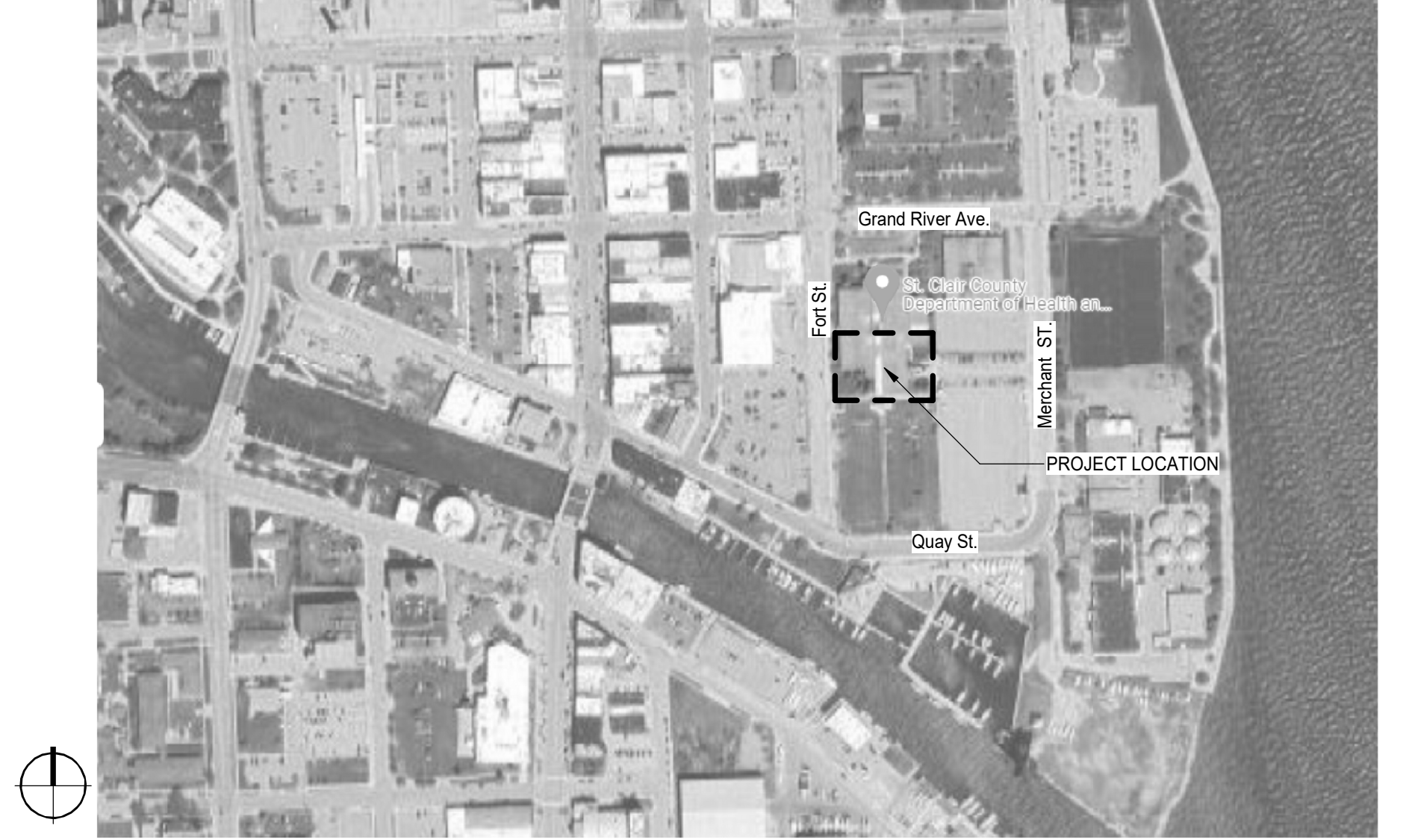
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VICINITY MAP



AHJ STAMP



FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO DETAILED DRAWINGS FOR CONSTRUCTION.

GENERAL CONDITIONS

- A. THE FOLLOWING ARE GENERAL CONDITIONS FOR THE PROJECT. IF THERE OCCURS A CONFLICT BETWEEN THESE NOTES AND OTHER CONTRACT REQUIREMENTS THE MORE STRICT SHALL GOVERN. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL PROJECT AS INDICATED OR IMPLIED BY THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE.
B. THE CONTRACTOR SHALL OBTAIN COPIES OF ALL RELATED BUILDING CODES FOR REFERENCE DURING CONSTRUCTION. ALL WORK SHALL MEET THE BUILDING CODES AND REGULATIONS LISTED UNDER CODE INFORMATION.
C. THE CONTRACTOR SHALL THOROUGHLY INSPECT THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE START OF THEIR WORK.
D. THESE DRAWINGS ARE PREPARED FOR THE PURPOSE OF CONSTRUCTION ONLY. THESE DRAWINGS ARE NOT TO BE USED FOR MAINTENANCE PURPOSES, AS ACTUAL CONDITIONS MAY VARY FROM THESE SHOWN DRAWINGS DUE TO CHANGE ORDERS, ALTERATIONS BY OTHERS, FIELD CONDITIONS, ETC.
E. THESE DOCUMENTS AND RELATED CONTENT ARE DIAGRAMMATICAL IN NATURE AND ARE NOT INTENDED TO INDICATE MEANS AND METHODS REQUIRED TO PROPERLY COMPLETE THE WORK. ALL WORK SHALL MEET ALL APPLICABLE CODES AND REGULATIONS.
F. PRIOR TO CONSTRUCTION, THE PREPARATION OF SHOP DRAWINGS AND THE FABRICATION OF ANY MATERIALS, VERIFY ALL DIMENSIONS IN FIELD. REFERRING TO EXISTING ADJACENT CONDITIONS, CONSTRUCTION MATERIALS, AND DETAILS IF ANY DISCREPANCIES ARE DISCOVERED, ASSUME CERTAIN MODIFICATIONS TO DETAILS AFFECTING EXISTING CONDITIONS ARE SUBJECT TO REVIEW BY THE ARCHITECT.
G. ALL WORK SHALL MEET THE CRITERIA OF THE RELATED PRODUCTS MANUFACTURER AS NEEDED TO MEET CODE AND AS NEEDED TO PROVIDE A WARRANTED INSTALLED ASSEMBLY. ANY INSTALL OF AN ASSEMBLY OVER, WITHIN OR ATTACHED TO A SURFACE, SUBSTRATE, OR OTHER PRODUCT ASSEMBLY SHALL INDICATE THE INSTALLER'S AND THE RELATED MANUFACTURER'S ACCEPTANCE OF ALL CONDITIONS AS BEING CODE COMPLIANT AND SUITABLE FOR A FULLY WARRANTED ASSEMBLY.
H. REMEDY, WITHOUT COST TO THE OWNER, ANY DEFECTS DUE TO FAULTY WORKMANSHIP.
I. ALL WORK SHALL BE DONE TO MEET OR EXCEED THE STANDARDS OF NORMAL CONSTRUCTION TRADE PRACTICES AND CURRENT GOVERNING CODE.
J. MAINTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS AT THE SITE FOR USE IN RECORDING AN AS-BUILT RECORD. UPDATE AS-BUILT NOTATIONS DAILY, PROTECT DOCUMENTS TO ENSURE THEIR COMPLETENESS AND LEGIBILITY, FOLLOWING COMPLETION OF THE PROJECT AS-BUILT DRAWINGS ARE TO BE GIVEN TO THE OWNER.
K. NOTE TO OWNER AND GENERAL CONTRACTOR: THE ARCHITECT ASSUMES THAT THE PERMIT PLAN REVIEW PERFORMED BY THE RELATED AUTHORITIES HAVING JURISDICTION (AHJ) IS THOROUGH, COMPLETE, AND ACCURATE. ANY CHANGES REQUESTED BY THE AHJ WHICH ARE MADE AFTER PROJECT PERMITTING SHALL BE DEEMED A CHANGE IN SCOPE. THE ARCHITECT/ENGINEERS SHALL ASSUME NO RESPONSIBILITY FOR ANY COSTS RELATED TO SUCH THINGS.
L. DEFERRED SUBMITTALS: PORTIONS OF THE WORK FOR THIS PROJECT ARE BEING DESIGNED AND ENGINEERED BY OTHERS OR THROUGH A DESIGN-BUILD PROCESS. THIS WORK SHALL BE PERMITTED SEPARATELY. PRIOR TO FABRICATION, SHIPPING, OR INSTALL OF THE FOLLOWING ITEMS, A SET OF DETAILED STAMPED/CERTIFIED DESIGN SHOP DRAWINGS SHALL BE PROVIDED BY A STATE LICENSED STRUCTURAL ENGINEER WHO IS EITHER HIRED OR EMPLOYED BY THE RELATED PRODUCT MANUFACTURER, SUPPLIER, SUBCONTRACTOR, OR INSTALLER. (DO NOT UNDERTAKE ANY RELATED WORK UNTIL SUCH SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND THE LOCAL PERMITTING AUTHORITIES HAVING JURISDICTION). ALL WORK SHALL MEET ALL RELATED CODES AND REGULATIONS.
- FIRE ALARM / FIRE SUPPRESSION
M. FACILITY SIGNAGE: FACILITY SIGNAGE IS NOT PART OF THIS PERMIT SUBMITTAL. PRIOR TO FABRICATION, THE SIGNAGE VENDOR SHALL SUBMIT DETAILED SHOP DRAWINGS INDICATING SIGNAGE TYPES, QUANTITIES, SIZES, COLORS, LOCATIONS, STRUCTURAL SUPPORT, FOUNDATIONS, AND UTILITY CONNECTIONS TO THE LOCAL PERMITTING AUTHORITIES FOR APPROVAL.

CODE INFORMATION SUMMARY

- 1. APPLICABLE CODES
2015 Michigan Rehabilitation Code for Existing Buildings
2012 NFPA 101 (Life Safety Code)
MBC 2015 (Michigan Building Code, 2015, as referenced by MRCEB 2015 update)
MPC 2018 (Michigan Plumbing Code, 2018)
MMC 2015 (Michigan Mechanical Code, 2015)
NEC 2017 (State of Michigan Electrical Code)
IFC 2015 (International Fire Code, 2015, as referenced by MBC 2015 update)
MEC 2015 (Michigan Energy Code, 2015, Ch. 4 & Part 10a.)
ICC A117.1-2009 (Accessible and Usable Buildings & Facilities)
2. JURISDICTION
PLANNING/ZONING CITY OF PORT HURON
CODE ENFORCEMENT CITY OF PORT HURON
FIRE DEPARTMENT CITY OF PORT HURON
REGULATIONS:
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
CURRENT REGULATIONS
BUILDING AND CONSTRUCTION TRADE STANDARDS
CURRENT STANDARDS
UNDERWRITERS LABORATORY (UL)
CURRENT ASSEMBLY CRITERIA
3. USE & OCCUPANCY
BUSINESS: B
4. SPECIAL REQUIREMENTS
N/A
5. BUILDING HEIGHT & AREA
MAX. ALLOWED: (AUTOMATIC SPRINKLER SYSTEM)
B = 3 STORIES, 35 FEET
6. TYPE OF CONSTRUCTION
TYPE I-B (FULLY SPRINKLERED)
FIRE RESISTANCE RATING REQUIREMENTS PER BUILDING ELEMENT:
PRIMARY STRUCTURAL FRAME = NONE
EXTERIOR BEARING WALLS = NONE
INTERIOR BEARING WALLS = NONE
ROOF = NONE
8. INTERIOR FINISHES
MIN. FLAME SPREAD INDEX (AUTOMATIC SPRINKLER SYSTEM)
B & S1 = CLASS C
9. FIRE PROTECTION SYSTEMS
FIRE SPRINKLER PROVIDED
FIRE ALARM PROVIDED
10. MEANS OF EGRESS
REFER TO LIFE SAFETY / EGRESS PLAN FOR SPECIFIC CALCULATIONS.
OCCUPANT LOAD: SEE LIFE SAFETY PLAN
NUMBER OF EXITS: SEE LIFE SAFETY PLAN

SHEET INDEX

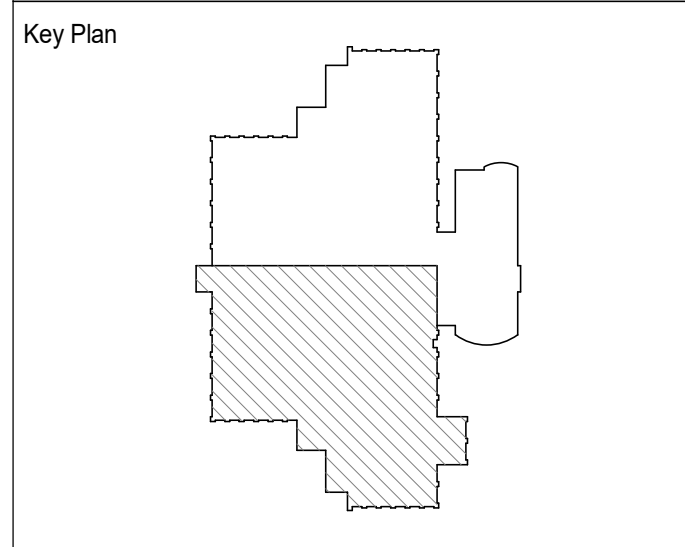
Table with columns: SHEET No., SHEET NAME, BUDGET PERMIT, and ADD. #. Lists sheets from 00 GENERAL to E61-02 SOUTH WING - LEVEL 2 LIGHTING DEMOLITION PLAN.

Table with columns: DATE, ISSUED FOR, REV. Shows dates 04-24-2024 and 05-10-2024, and revision 1.

This drawing has been prepared solely for the use of St. Clair County Health Department and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

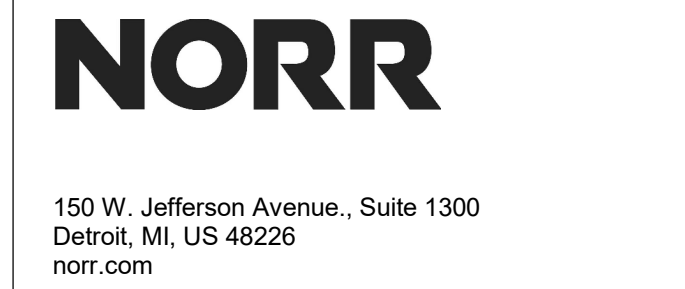
This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component



Consultants: Survey: Civil; Architecture: NORR; Mechanical: NORR; Electrical: NORR; Interiors: NORR; Landscape:

Seal(s)



Project Manager: B. Colburn; Drawn: B. Colburn; Project Leader: J. Strick; Checked: J. Strick; Checker:

Client: St. Clair County Health Department

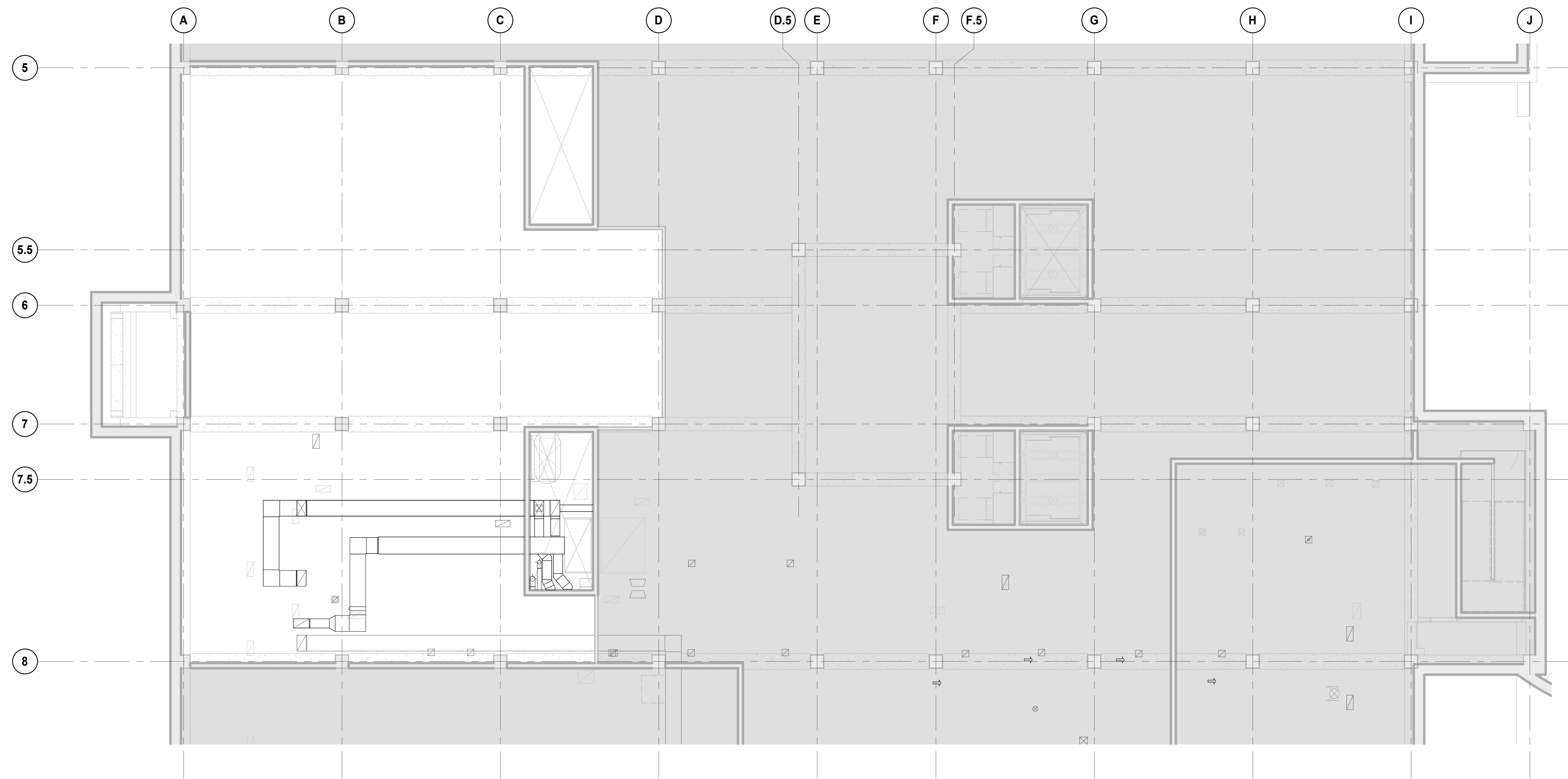
Project: St. Clair County Health Department Relocation

Drawing Title: COVER SHEET

Scale: As indicated

Project No.: JCDT23-0185

Drawing No.: A00-00



2 REFLECTED CEILING PLAN - BASEMENT
 SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - BASEMENT
 SCALE: 1/8" = 1'-0"

NOTE:
 SEE SHEET A30-01 FOR GENERAL REFLECTED CEILING PLAN NOTES.

RCP LEGEND			
	INDICATES CEILING ASSEMBLY		EXHAUST / RETURN GRILLE (SEE MECH.)
	INDICATES CEILING HEIGHT A.F.F.		SUPPLY AIR DIFFUSER (SEE MECH.)
	EXISTING PARTITION WALL TO REMAIN		ACCENT LIGHT FIXTURE (SEE ELEC.)
	NEW PARTITION WALL - REFER TO WALL TYPE SCHEDULE		LIGHT FIXTURE (SEE ELEC.)
	KEYNOTE DESIGNATION		RECESSED CAN LIGHT FIXTURE (SEE ELEC.)
	AREAS OF EXISTING BUILDING NOT IN CONTRACT		EMERGENCY EXIT
	EXISTING LAY-IN CEILING TO REMAIN		EMERGENCY LIGHTING

NOTE:
 SEE SHEET A20-01 FOR GENERAL FLOOR PLAN NOTES.

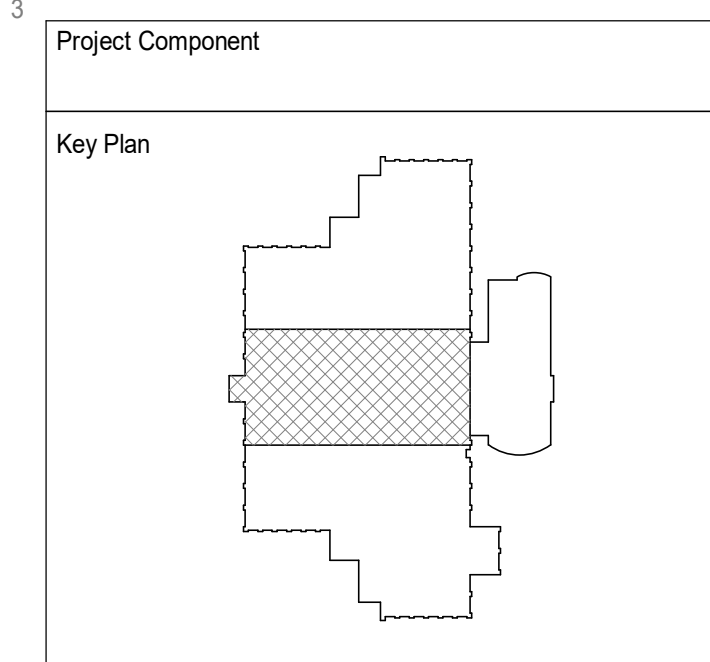
ARCHITECTURAL KEYNOTES	
Key Value	Keynote Text
A1	CONSTRUCT NEW WALL AS SHOWN/SCHEDULED. REFER TO WALL TYPES.
A2	INSTALL NEW DOOR AS SHOWN/SCHEDULED. REFER TO DOOR SCHEDULE FOR MORE INFORMATION.
A3	PATCH/REPAIR AND PREP FOR INFILL AS SHOWN/SCHEDULED. ALIGN SURFACE OF NEW WALL WITH EXISTING.
A4	CLEAN, PATCH, AND REPAIR EXISTING SURFACES, EACH SIDE OF WALL. PREP TO RECEIVE NEW FINISH AS SCHEDULED. REFER TO FINISH SCHEDULE FOR MORE INFORMATION.
A5	CLEAN, PATCH, AND REPAIR ALL LOCATIONS W/ VISIBLE WATER DAMAGE ON EXISTING SURFACES, WITHIN PROJECT SCOPE AREA. PREP TO RECEIVE NEW FINISH AS SCHEDULED. REFER TO FINISH SCHEDULE FOR MORE INFORMATION.
A6	INSTALL NEW MILLWORK AS SHOWN. REFER TO DETAILS AND MATERIAL SCHEDULE FOR MORE INFORMATION.
A7	INSTALL NEW SINK AND FAUCET AS SHOWN. REFER TO PLUMBING FOR MORE INFORMATION.
A8	PREP EXISTING COLUMN SURROUND FOR PAINT. PAINT PNT-01, U.O.N. - REFER TO MATERIAL SCHEDULE ON SHEET A90-00 FOR MORE INFORMATION.
A9	RELOCATED EXISTING DOOR AND FRAME CONSTRUCTION, INCLUDING HARDWARE AND ANCHORS AS SHOWN. REFER TO DOOR SCHEDULE FOR MORE INFORMATION.
A10	PROVIDE FIRE RATED PLYWOOD BACKER BOARD BETWEEN 3'-0" AND 7'-0" A.F.F. ON ALL WALLS OF DATA CLOSET.
A11	INSTALL NEW TOILET ROOM FIXTURES / ACCESSORIES. REFER TO PLUMBING.
A12	CONSTRUCT NEW WALLS AS SHOWN/SCHEDULED. ALIGN NEW GYP BD PARTITION WITH EXISTING CONSTRUCTION. REFER TO WALL TYPES.
A13	NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET MOUNTING LOCATION. REFER TO FIRE SEPARATION PLANS FOR MOUNTING DETAILS.
A14	PROVIDE CARD OR KEYPAD ACCESS AND ALL ASSOCIATED ELECTRICAL WORK AT DOOR. REFER TO DOOR SCHEDULE.
A15	INFILL WALL AT DEMOLISHED MAILBOX LOCATION. ALIGN FLUSH ON EACH SIDE OF WALL.
A16	INFILL OPENING IN WALL TO MATCH EXISTING. TOOTH IN NEW CMU AT REQUIRED LOCATIONS. ALIGN FLUSH ON EACH SIDE OF WALL.
A17	REMOVE AND REPLACE EXISTING TOILET ROOM HANDICAP PARTITION DOOR SWING MECHANISM. (TYP FOR ALL HC DOORS IN PROJECT SCOPE AREA)
A18	EXISTING WATER COOLER TO REMAIN. VERIFY FUNCTIONALITY. NOTIFY ARCHITECT OF ANY ISSUES.
A19	NEW OWNER SUPPLIED / GC INSTALLED DEFIBRILLATOR CABINET AT SAME LOCATION AS A PREVIOUS ONE.

FLOOR PLAN LEGEND	
	EXISTING PARTITION WALL TO REMAIN
	NEW PARTITION WALL - REFER TO WALL TYPE SCHEDULE
	EXISTING DOOR & FRAME TO REMAIN
	NEW DOOR & FRAME - REFER TO DOOR SCHEDULE
	AREAS OF EXISTING BUILDING NOT IN CONTRACT
	MILLWORK & CASEWORK

DATE	ISSUED FOR	REV
05-10-2024	ADDENDUM #1	1

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Consultants

Survey:	
Architecture:	NORR
Structural:	NORR
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Landscape:	

Seal(s)

NORR

150 W. Jefferson Avenue, Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager	Draw
B. Colburn	Author
Project Leader	Checked
J. Brock	Checker

Client
St. Clair County Health Department

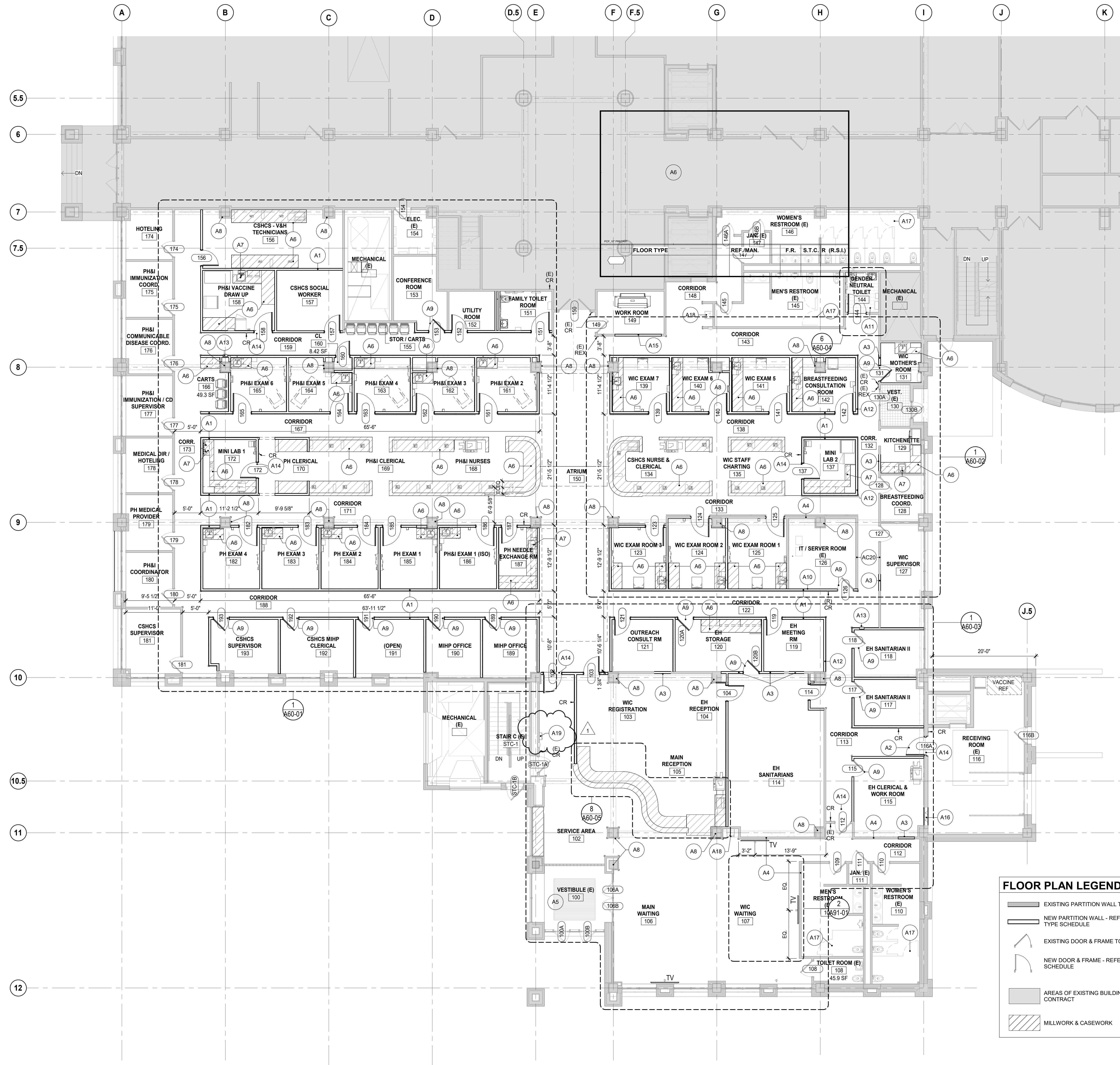
Project
St. Clair County Health Department Relocation
 220 Fort Street
 Post-Huron, MI
 48660

Drawing Title
PARTIAL FLOOR PLAN & PARTIAL REFLECTED CEILING PLAN - BASEMENT

Scale
 As indicated

Project No.
 JCDT23-0185

Drawing No.
A20-00



FLOOR PLAN GENERAL NOTES

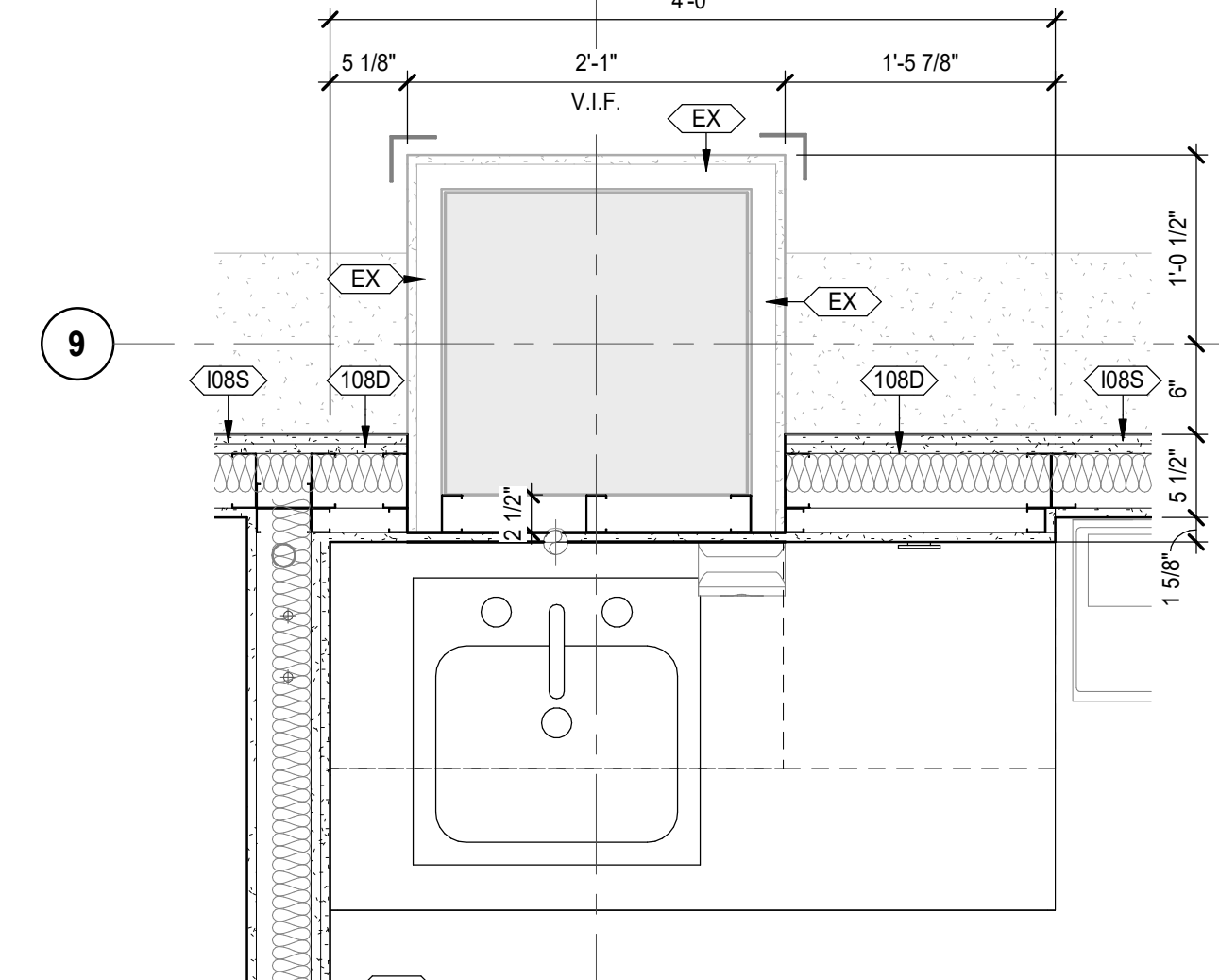
- ALL CONSTRUCTION TO COMPLY WITH MICHIGAN BUILDING CODE, REGULATIONS, RULES AND BY-LAWS SET BY THE AUTHORITY HAVING JURISDICTION. ALL CONSTRUCTION TO COMPLY WITH INDUSTRY TRADE STANDARDS, AS WELL AS MANUFACTURERS' RECOMMENDATIONS, TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN THE REQUIREMENTS CONTAINED IN THESE CONTRACT DOCUMENTS.
- IN THE PRESENCE OF ASBESTOS, ABATEMENT WORK SHALL BE COORDINATED WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL ACTIVITIES AS REQUIRED TO ENSURE EFFICIENT CORRECT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK TO AVOID CONFLICT IN THE TRADE WORK AND SCHEDULE.
- THE GENERAL CONTRACTOR SHALL PROTECT ALL EXISTING ADJACENT CONSTRUCTION TO REMAIN.
- THE GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED EXISTING CONSTRUCTION TO MATCH EXISTING.
- THE GENERAL CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND REPORT CONFLICTS IN WRITING TO THE OWNER / OWNERS REPRESENTATIVE.
- THE GENERAL CONTRACTOR SHALL ARRANGE FOR AND COORDINATE ALL INCOMING AND OUTGOING MECHANICAL AND ELECTRICAL SERVICES FOR THIS PROJECT.
- THE AREA OF WORK SHALL BE MAINTAINED IN A SECURED CONDITION AT ALL TIMES. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SECURE THE AREA OF WORK.
- VERIFY ALL CONDITIONS AND DIMENSIONS ON SITE PRIOR TO FABRICATION. PROMPTLY NOTIFY THE ARCHITECT OF ANY ERRORS OR OMISSIONS.
- ALL PLAN DIMENSIONS ARE TO FACE OF STUD, FACE OF MASONRY, COLUMN CENTERLINE, OR FACE OF EXISTING WALL, UNLESS OTHERWISE NOTED.
- NEW CONSTRUCTION PARALLEL TO AND ABUTTING EXISTING TO ALIGN UNLESS OTHERWISE NOTED.
- ALL WALLS, DOORS, AND WINDOWS WITHOUT A SYMBOL DESIGNATION ARE EXISTING TO REMAIN.
- PROVIDE AND MAINTAIN CONTINUOUS FIRE-SMOKE SEPARATIONS. FIRE STOP ALL SERVICE PENETRATIONS WITH APPROVED AND UL LISTED FIREPROOF SYSTEMS.
- PROVIDE AND MAINTAIN CONTINUOUS ACOUSTIC BARRIER SYSTEM. AVOID SOUND TRANSMISSION THROUGH DIRECT CONTACT AT ACOUSTICALLY TREATED SURFACES. COMPLETELY SEAL ALL PENETRATIONS WITH ACOUSTIC SEALANT, TAPE AND INSULATION AS REQUIRED TO PREVENT SOUND TRANSFER AND MAINTAIN THE REQUIRED STC RATINGS OF THE WALL SYSTEMS. PROVIDE APPROVED ISOLATION METHODS TO ALL NOISE GENERATING AND MOVING EQUIPMENT.
- ADD SUFFICIENT BLOCKING IN STUD WALLS TO SUPPORT ALL ITEMS OR EQUIPMENT SHOWN OR SPECIFIED TO BE ATTACHED TO WALLS, INCLUDING BUT NOT LIMITED TO: HANDRAILS, GUARDS, LADDERS, MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT, ETC. PROVIDE ADDITIONAL STRUCTURAL SUPPORT PLATES, ANGLES, CHANNELS, ETC. WITHIN WALLS WHERE WEIGHT OF ATTACHED ITEMS EXCEEDS WALL CAPACITY. PROVIDE BACKING PLATES OR BLOCKING FOR ANY OWNER FURNISHED OR INSTALLED ITEMS.
- ALL PARTITION WALLS ARE TO EXTEND AND SEAL AGAINST THE BOTTOM OF STRUCTURE ABOVE UNLESS OTHERWISE NOTED.
- INSTALL METAL TRIM ON ALL GYPSUM BOARD EDGES ABUTTING OTHER MATERIALS OR WHERE GYP BD STOPS SHORT OF OTHER MATERIALS TO FORM A REVEAL OR SCHEDULE. USE METAL CORNER BEAD ON ALL GYPSUM BOARD EXTERIOR CORNERS.
- ALL DOORS AND WINDOWS REFERENCED ON THE PLANS AND SCHEDULES ARE SHOWN NOMINAL SIZE. CONFIRM AND VERIFY ALL OPENING SIZE REQUIREMENTS WITH THE SELECTED PRODUCT MANUFACTURER AND SITE CONDITIONS PRIOR TO FABRICATION. REFER TO MANUFACTURERS INSTALLATION MANUAL.
- ALL INTERIOR DOOR OPENINGS IN STUD FRAMING WALLS TO BE SPACED A MINIMUM OF 4" FROM THE ADJACENT WALL, UNLESS NOTED OTHERWISE.
- ALL DOOR OPENINGS IN CONCRETE OR CONCRETE BLOCK WALLS TO BE 4" FROM THE ADJACENT WALL (OR FLUSH WITH FACE OF WALL IN TIGHT CONDITIONS), UNLESS NOTED OTHERWISE.
- PROVIDE WALL AND CEILING ACCESS DOORS AS MAY BE REQUIRED BY CODE OR TO PROPERLY SERVICE OR ADJUST ALL VALVES, DAMPERS, CLEAN OUTS, ELECTRICAL JUNCTION BOXES AND OTHER DEVICES.
- PAINT ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS IN ROOMS WHERE INDICATED ON PLANS OR ROOM FINISH SCHEDULE. PAINT BEHIND ALL MOVEABLE ITEMS ADJACENT TO WALLS RECEIVING PAINT AND RELOCATE ITEMS AS NECESSARY.
- REFER TO FLOOR AND REFLECTED CEILING PLANS AND MECHANICAL AND ELECTRICAL DRAWINGS FOR SPACE ALLOCATIONS IN ROUTING OF ALL MECHANICAL AND ELECTRICAL WORK INCLUDING DIFFUSERS, REGISTER, GRILLES, LIGHTS, ETC. THE REFLECTED CEILING PLAN LOCATIONS SHALL BE ADHERED TO UNLESS OTHERWISE NOTED ON DRAWINGS. EXCEPTIONS SHALL REQUIRE SPECIFIC WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE OR ARCHITECT/ENGINEER. NOTE THAT ELECTRIC LIGHT FIXTURE LOCATIONS AND DARKER HEADS SHALL TAKE PRECEDENCE OVER OTHER UTILITY ITEMS IN ANY AND ALL LOCATIONS FOR AREAS WITH OR WITHOUT CEILINGS. THE CONTRACTOR SHALL COORDINATE AS REQUIRED.
- MECHANICAL LINES ARE NOT TO BE IN CONTACT WITH THE STUD WALLS OR CONCRETE WALL OR FLOOR ASSEMBLIES. ISOLATE ALL PIPES TO AVOID SOUND TRANSMISSION. INSTALL NEOPRENE RUBBER PAD ON TOP OF SUBSTRATE SURFACE (BOTTOM PLATE, CONCRETE ETC.) BEFORE ALL MECHANICAL CLAMPS ARE TIGHTENED INTO PLACE.
- CONFIRM ALL ROUGH OPENING SIZES AND CONNECTION REQUIREMENTS FOR MECHANICAL, ELECTRICAL AND OWNER SUPPLIED EQUIPMENT. ADJUST ROUGH OPENING SIZES TO SUIT.
- INSTALL & CONNECT OWNER SUPPLIED EQUIPMENT OR APPLIANCES AS DIRECTED, CENTERED, LEVEL AND TRUE.

ARCHITECTURAL KEYNOTES

- | Key Value | Keynote Text |
|-----------|---|
| A1 | CONSTRUCT NEW WALL AS SHOWN/SCHEDULED. REFER TO WALL TYPES. |
| A2 | INSTALL NEW DOOR AS SHOWN/SCHEDULED. REFER TO DOOR SCHEDULE FOR MORE INFORMATION. |
| A3 | PATCH/REPAIR AND PREP FOR INFILL AS SHOWN/SCHEDULED. ALIGN SURFACE OF NEW WALL WITH EXISTING. |
| A4 | CLEAN, PATCH, AND REPAIR EXISTING SURFACES. EACH SIDE OF WALL. PREP TO RECEIVE NEW FINISH AS SCHEDULED. REFER TO FINISH SCHEDULE FOR MORE INFORMATION. |
| A5 | CLEAN, PATCH, AND REPAIR ALL LOCATIONS W/ VISIBLE WATER DAMAGE ON EXISTING SURFACES, WITHIN PROJECT SCOPE AREA. PREP TO RECEIVE NEW FINISH AS SCHEDULED. REFER TO FINISH SCHEDULE FOR MORE INFORMATION. |
| A6 | INSTALL NEW MILLWORK AS SHOWN. REFER TO DETAILS AND MATERIAL SCHEDULE FOR MORE INFORMATION. |
| A7 | INSTALL NEW SINK AND FAUCET AS SHOWN. REFER TO PLUMBING FOR MORE INFORMATION. |
| A8 | PREP EXISTING COLUMN SURROUND FOR PAINT. PAINT PNT-01, U.O.N. - REFER TO MATERIAL SCHEDULE ON SHEET A90-00 FOR MORE INFORMATION. |
| A9 | RELOCATE EXISTING DOOR AND FRAME CONSTRUCTION, INCLUDING HARDWARE AND ANCHORS AS SHOWN. REFER TO DOOR SCHEDULE FOR MORE INFORMATION. |
| A10 | PROVIDE FIRE RATED PLYWOOD BACKER BOARD BETWEEN 3'-0" AND 7'-0" A.F.F. ON ALL WALLS OF DATA CLOSET. |
| A11 | INSTALL NEW TOILET ROOM FIXTURES / ACCESSORIES. REFER TO PLUMBING. |
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FLOOR PLAN LEGEND

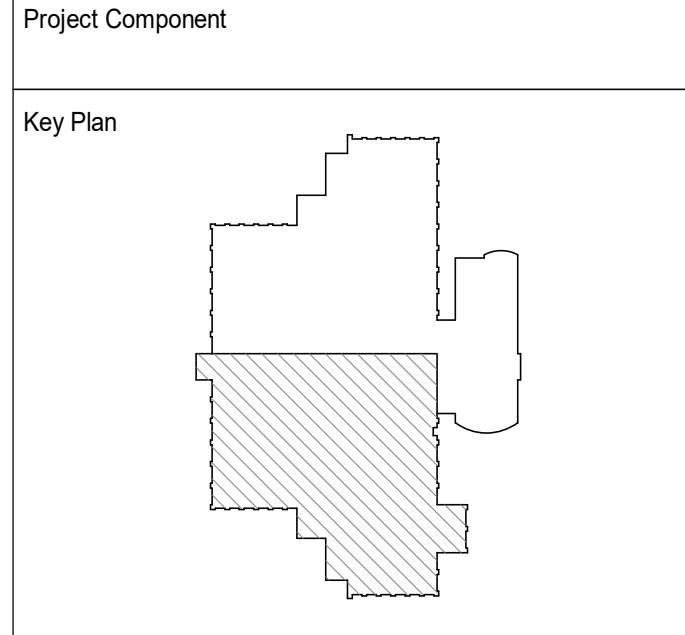
- EXISTING PARTITION WALL TO REMAIN
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- MILLWORK & CASEWORK



DATE	ISSUED FOR	REV
04-24-2024	BID / PERMIT	
05-10-2024	ADDENDUM #1	1

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Consultants

Survey:	
Civil:	
Architecture:	NORR
Structural:	NORR
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Landscape:	

Seal(s)

NORR

150 W. Jefferson Avenue, Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
J. Brock	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation

220 Fort Street
 Port Huron, MI
 48060

Drawing Title
FLOOR PLAN - LEVEL 01

Scale
 As indicated

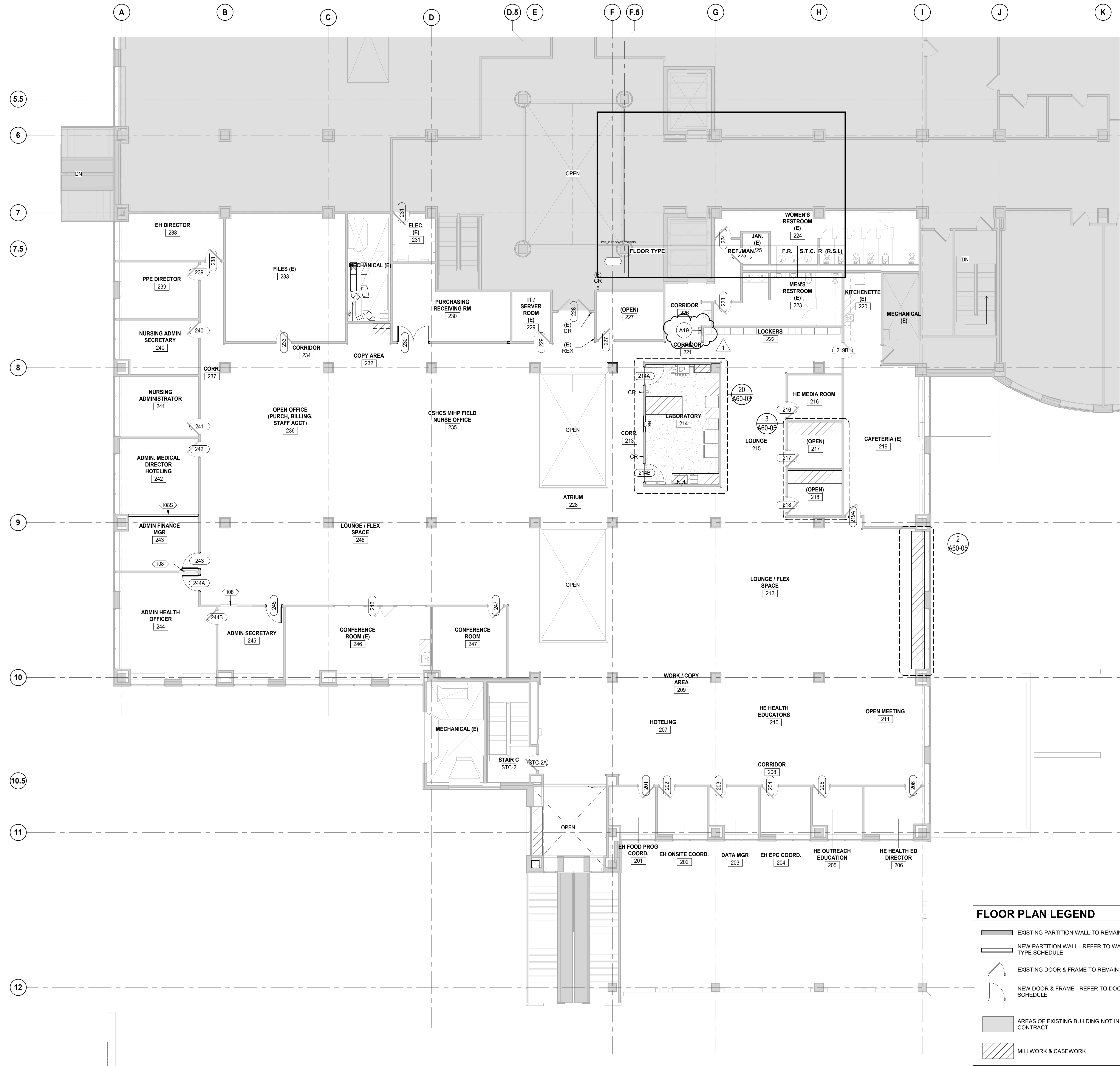
Project No.
 JCDT23-0185

Drawing No.
A20-01

ARCH E Title Block - v2023 - Rev (March 2023) - Copyright © 2023

1 FLOOR PLAN - LEVEL 01
 SCALE: 1/8" = 1'-0"

2 ENLARGED PH EXAM ROOM @ EXISTING COLUMN
 SCALE: 1" = 1'-0"



FLOOR PLAN GENERAL NOTES

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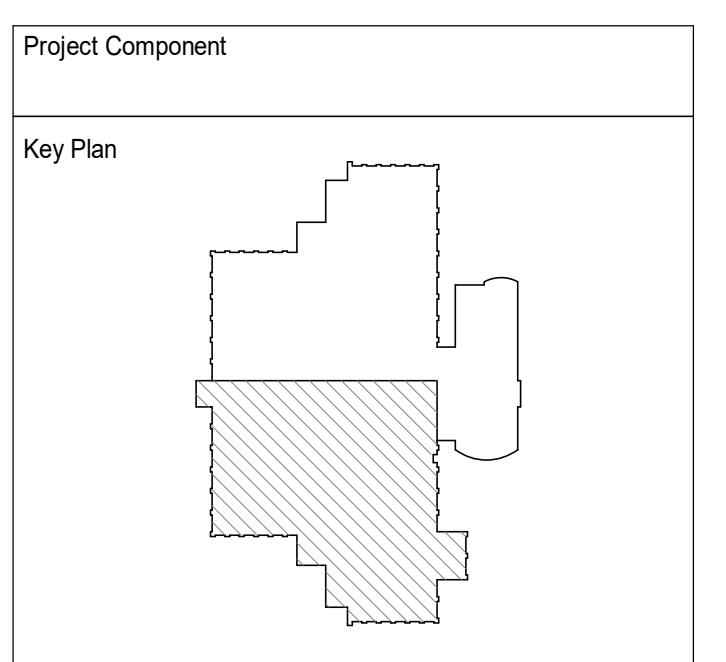
ARCHITECTURAL KEYNOTES

Key Value	Keynote Text
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A10	PROVIDE FIRE RATED PLYWOOD BACKER BOARD BETWEEN 3'-0" AND 7'-0" A.F.F. ON ALL WALLS OF DATA CLOSET.
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DATE	ISSUED FOR	REV
04-24-2024	BID / PERMIT	1
05-10-2024	ADDENDUM #1	

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Consultants

Survey:	
Civil:	
Architecture:	NORR
Structural:	NORR
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Landscape:	

Seal(s)

NORR

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 norr.com

Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
J. Strick	Checker
Client	
St. Clair County Health Department	

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

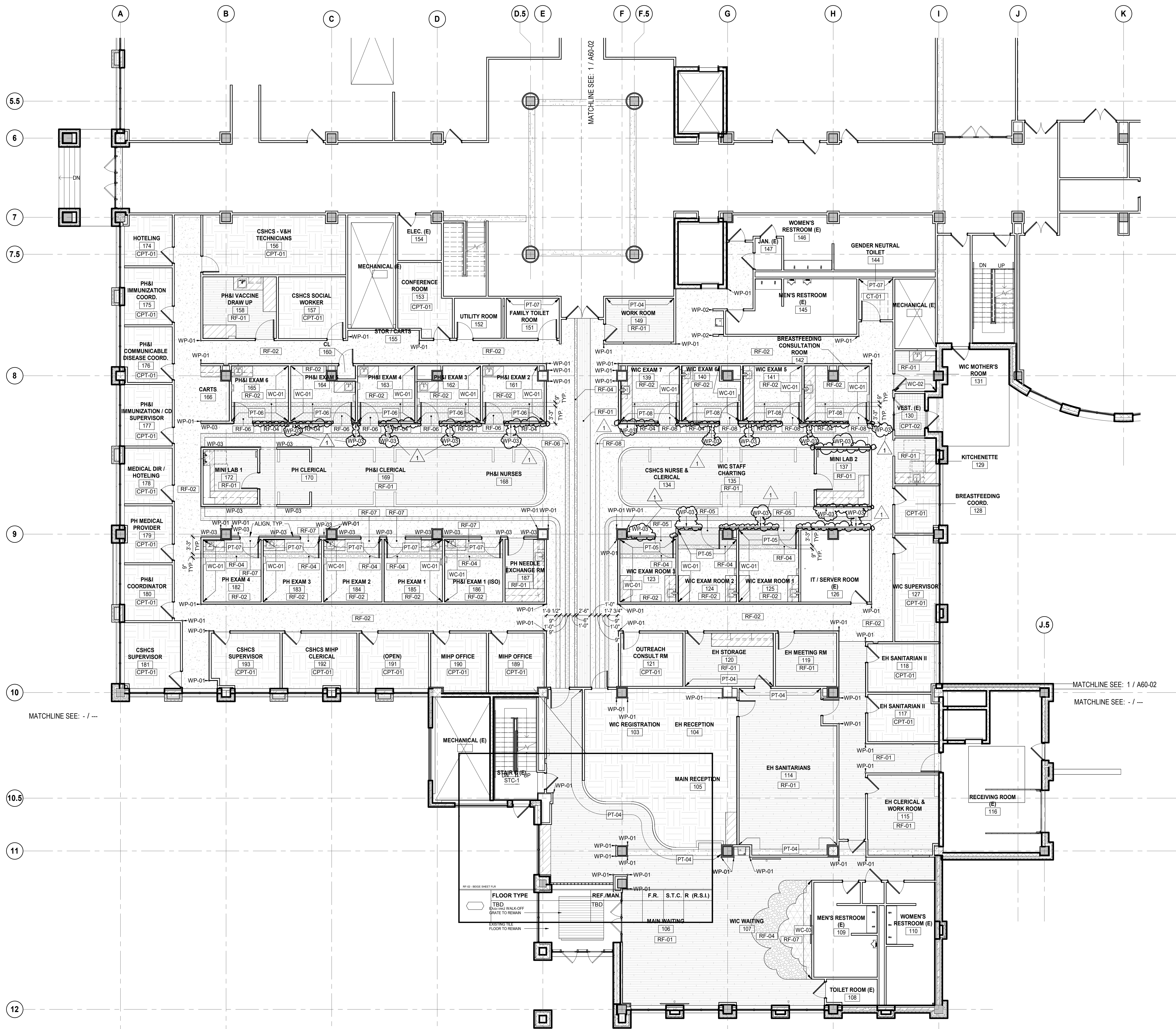
Drawing Title
FLOOR PLAN - LEVEL 02

Scale	As indicated
Project No.	JCDT23-0185
Drawing No.	A20-02

1 FLOOR PLAN - LEVEL 02
 SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

	EXISTING PARTITION WALL TO REMAIN
	NEW PARTITION WALL - REFER TO WALL TYPE SCHEDULE
	EXISTING DOOR & FRAME TO REMAIN
	NEW DOOR & FRAME - REFER TO DOOR SCHEDULE
	AREAS OF EXISTING BUILDING NOT IN CONTRACT
	MILLWORK & CASEWORK



1 FINISH PLAN - LEVEL 01
 SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

- A. ALL FINISHES INDICATED ARE BASIS OF DESIGN.
- B. ALL FINISHES SHALL BE PROVIDED AS SPECIFIC. NO SUBSTITUTIONS, U.O.N.
- C. ANY NOTE REFERRING TO "MATCH EXISTING" REQUIRES EXISTING FINISH DETAILS TO BE REPLICATED IN FULL.
- D. UPON COMPLETION OF THE WORK IN THE GIVEN AREA.
- E. DISCREPANCIES IN THE FINISH DESIGNATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESELECTION OR CLARIFICATION.
- F. WIREWAYS, ACCESS PANELS, MECHANICAL DEVICES, ETC. SHALL BE FINISHED TO MATCH ADJACENT SURFACE U.O.N.
- G. PATCH AND REPAIR ALL EXISTING FINISHES / SURFACES THAT MAY BE AFFECTED BY NEW CONSTRUCTION.
- H. DIFFUSERS LOCATED IN ACOUSTIC CEILING APPLICATIONS TO MATCH CEILING SUSPENSION SYSTEM.
- I. EXISTING WINDOW TREATMENTS AT EXTERIOR WINDOWS THROUGHOUT TO REMAIN. PROTECT DURING CONSTRUCTION & CLEAN UPON COMPLETION.

FLOORING NOTES

- F1. REFER TO FINISH PLANS FOR FLOOR PATTERN INTENT.
- F2. EXTEND FLOORING INTO TOE SPACES AND KNEE SPACES AS NEEDED.
- F3. ALL GROUT JOINTS TO ALIGN UNLESS NOTED OTHERWISE. CONTRACTOR TO SUBMIT PROPOSED GROUT / TILE LAYOUT TO ARCHITECT FOR REVIEW & APPROVAL.
- F4. PREPARE ALL FLOORING SUBSTRATES TO RECEIVE NEW FLOORING MATERIAL. MAKE ALL TRANSITIONS FLUSH AND CLEAN AS REQUIRED TO RECEIVE NEW FLOORING MATERIAL.
- F5. INSTALL FLOORING MATERIAL UNDER ALL FLOOR MOUNTED EQUIPMENT.
- F6. FLOORING CONTRACTOR TO SUBMIT SEAMING & INSTALLATION PATTERNS TO ARCHITECT FOR ACCEPTANCE PRIOR TO INSTALLATION.
- F7. TERMINATE FLOORING MATERIAL AT CENTER OF DOOR WHERE ADJACENT FINISH AND / OR COLOR IS DISSIMILAR U.O.N.
- F8. TRANSITION OR REDUCER STRIPS SHALL BE USED AT MATERIAL HEIGHT DIFFERENCES OR A DISSIMILAR MATERIAL TRANSITIONS AT CENTER OF DOORWAY OR OPENING, U.O.N.
- F9. REFER TO ROOM FINISH SCHEDULE AND FLOOR FINISH PLANS FOR WALL BASE LOCATIONS.

PAINT NOTES

- P1. ALL GYPSUM BOARD CEILINGS & SOFFITS SCHEDULED TO RECEIVE PAINT SHALL RECEIVE A FLAT FINISH U.O.N. ALL GYP CEILINGS & SOFFITS TO BE FINISHED AS INDICATED ON ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS.
- P2. WET AREA CEILINGS TO RECEIVE PAINT SHALL RECEIVE SEMI-GLOSS FINISH (E.G. TOILET ROOMS, LABS) U.O.N.
- P3. WALLS SCHEDULED TO RECEIVE PAINT AND ALL COLUMNS SHALL RECEIVE AN EGGSHELL FINISH U.O.N.
- P4. ALL DOORS AND FRAMES TO RECEIVE PAINT SHALL RECEIVE A SEMI-GLOSS FINISH.
- P5. TYPICAL CONDITIONS HAVE BEEN INDICATED ON DRAWINGS BUT DO NOT EXPRESS ALL CONDITIONS. THE INDICATION OF PAINTING DOES NOT PRECLUDE PAINTING ON OTHER AREAS NOT INDICATED ON DRAWINGS. REFER TO ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS.
- P6. PROVIDE ACCENT PAINT COLOR MOCKUP FOR ARCHITECT APPROVAL OF ACCENT PAINT COLORS AND LOCATIONS. REFER TO FINISH PLANS FOR LOCATIONS OF ACCENT PAINT COLORS.
- P7. SURFACES SCHEDULED TO RECEIVE PAINT SHALL RECEIVE PAINT BEHIND SCREENS, TACK BOARDS, MARKER BOARDS, AND OTHER APPLIED SURFACES.

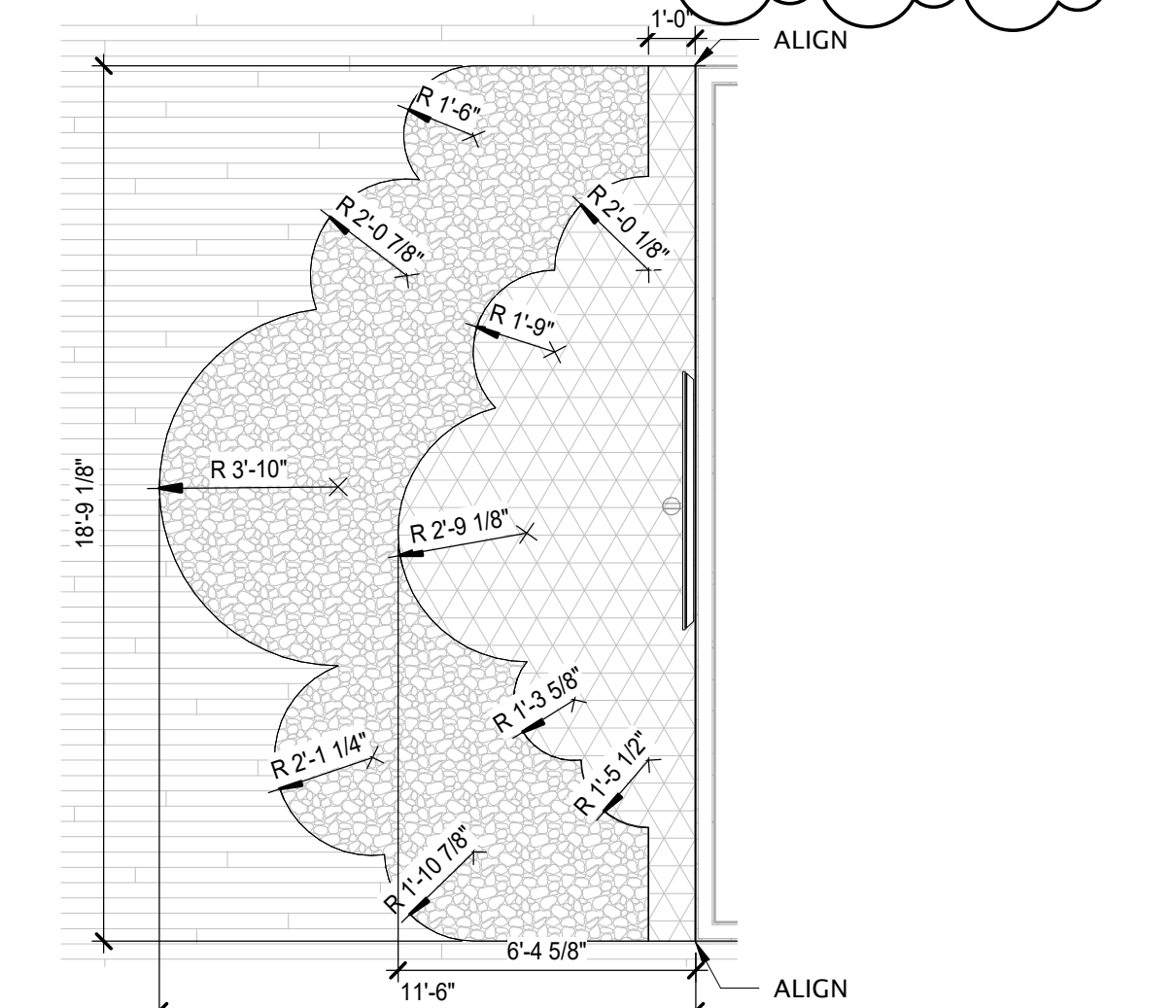
FLOOR FINISH LEGEND

	CPT-01		RF-03
	CPT-02		RF-04
	CT-01		RF-05
	RF-01		RF-06
	RF-02		RF-07
	RF-08		RF-08

← → DIRECTION OF FLOOR PATTERN

WALL FINISH LEGEND

WALL TILE	CT-02	ACCENT PAINT FINISH	PT-08
GENERAL PAINT FINISH	PT-01	RESILIENT WALL BASE	WB-01
ACCENT PAINT FINISH	PT-02	RESILIENT WALL BASE	WB-02
ACCENT PAINT FINISH	PT-03	WALLCOVERING	WC-01
ACCENT PAINT FINISH	PT-04	WALLCOVERING	WC-02
ACCENT PAINT FINISH	PT-05	WALLCOVERING	WC-03
ACCENT PAINT FINISH	PT-06	CORNER GUARDS	WP-01, WP-02
ACCENT PAINT FINISH	PT-07	WALL PROTECTION PANEL	WP-03
		CHAIR RAIL	WP-04

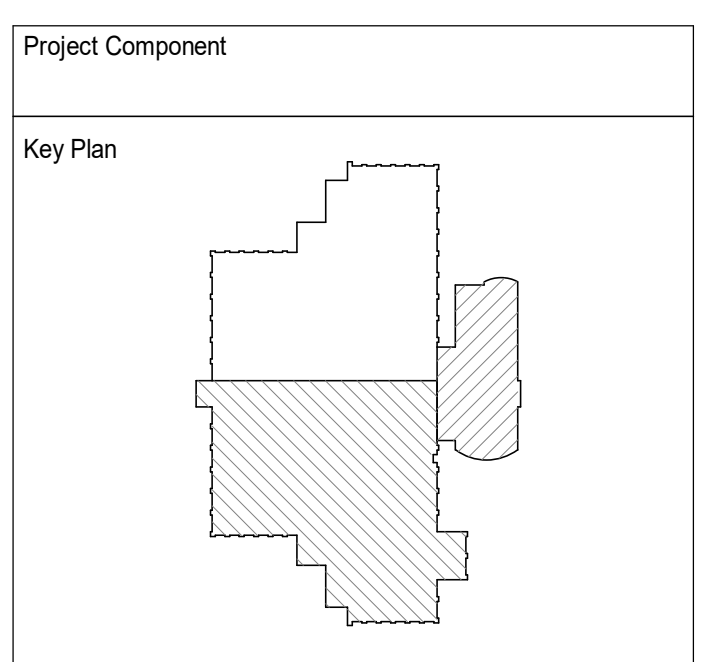


2 WAITING AREA - ENLARGED FLOOR FINISH PLAN
 SCALE: 1/4" = 1'-0"

DATE	ISSUED FOR	REV
04-24-2024	BID / PERMIT	
05-10-2024	ADDENDUM #1	1

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Consultants

Survey:	
Architecture:	NORR
Structural:	NORR
Mechanical:	NORR
Electrical:	NORR
Interiors:	NORR
Landscape:	

Seal(s)

NORR

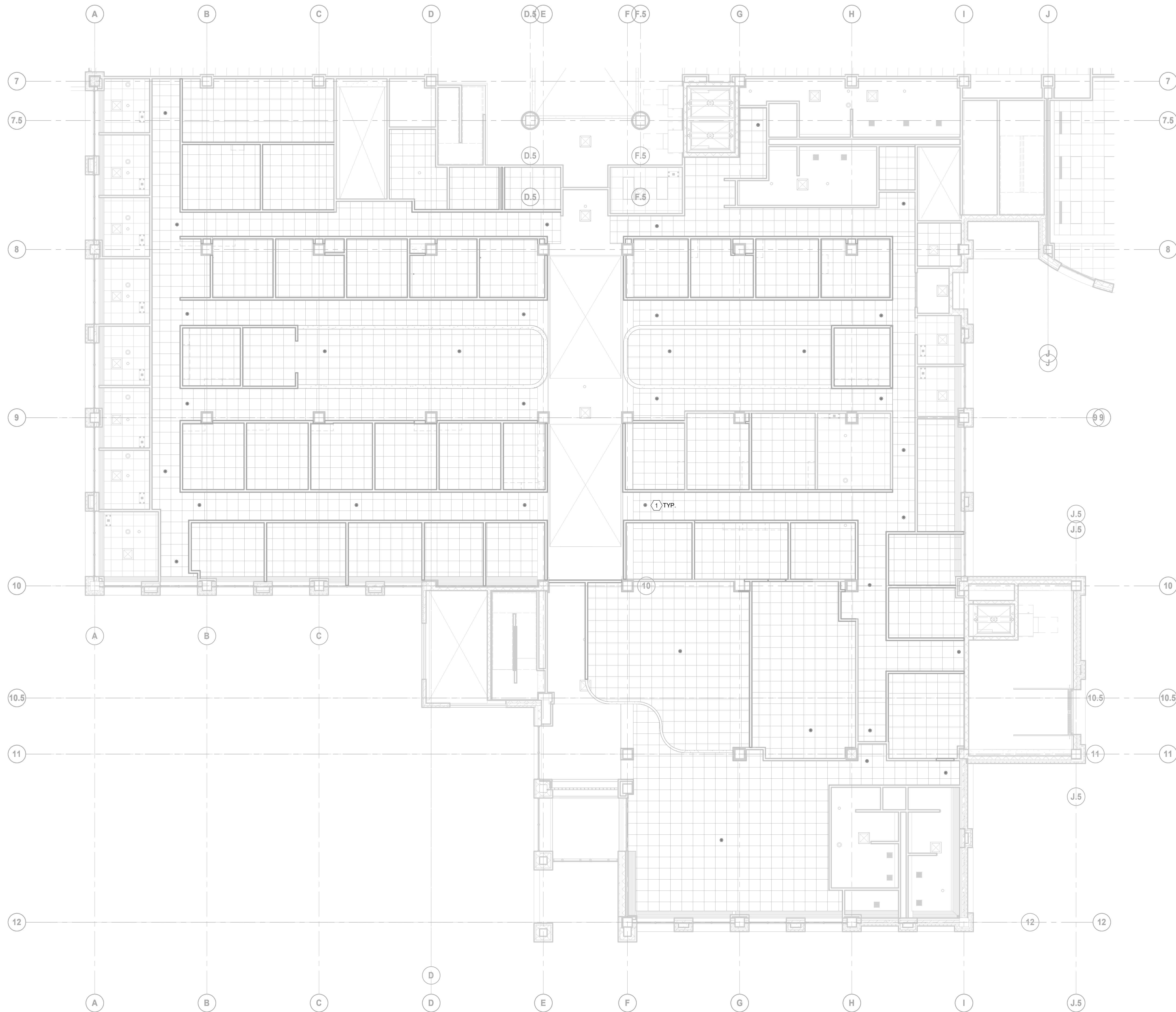
150 W. Jefferson Avenue, Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
J. Brock	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060
 Drawing Title
FINISH PLAN - LEVEL 01

Scale	As indicated
Project No.	JCDT23-0185
Drawing No.	A91-01



1 Fire Protection Plan - Floor 1 New Work
 F40-01 SCALE: 1/8" = 1'-0"

GENERAL KEYED NOTES

1. SPRINKLER PIPING WITHIN THE AREA OF WORK SHALL BE HYDRAULICALLY DESIGNED TO MATCH THE BASE BUILDING ALLOWANCES IN ACCORDANCE WITH NFPA 13. AREAS DESIGNED AS LABORATORY ROOM (ROOM #214), MECHANICAL OR ELECTRICAL ROOM, JANITOR CLOSETS, STORAGE TOILET ROOMS SHALL BE DESIGNED ORDINARY HAZARD GROUP 2, WITH A DENSITY OF 0.20 GPM/SQ.FT FOR THE MOST REMOTE 1,500 SQ.FT. ALL OTHER AREAS SHALL BE DESIGNED LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM/SQ.FT FOR THE REMOTE 1,500 SQ.FT.
2. PREPARE ALL WORKING PLANS AND HYDRAULIC CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER, AND SUBMIT TO THE OWNER'S INSURANCE UNDERWRITER AND TO THE MUNICIPAL BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
3. ALL COMPONENTS SHALL BE UL LISTED.
4. NEW SPRINKLER HEADS SHALL MATCH THE BASE BUILDING STANDARD, AND BE THE TYPE AS INDICATED ON THE DRAWINGS. COLOR/FINISH SELECTION OF SPRINKLER HEADS AND OF SPRINKLER COVERS TO BE APPROVED BY THE INTERIOR DESIGNER.
5. COORDINATE SPRINKLER HEAD LOCATIONS WITH FINAL REFLECTED CEILING PLANS AND OTHER CEILING MOUNTED COMPONENTS. ALIGN HEADS IN CEILING TILES IN BOTH DIRECTIONS.
6. CONTRACTOR SHALL CORRODINATE FIRE PROTECTION PIPING WITH THE WORK WITH ALL OTHER TRADES. FIRE PROTECTION PIPING SHALL NOT BE LOCATED BELOW AIR TERMINAL UNITS, AIR TERMINAL UNIT HEATING COILS, FILTERS, ETC.
7. KEEP EXISTING FIRE PROTECTION AND LIFE SAFETY SYSTEMS IN OPERATION AT ALL TIMES. ARRANGE FOR A FIRE WATCH IF A SHUT-DOWN OF THESE SYSTEMS IS REQUIRED.
8. FIRE PROTECTION PIPING SHALL BE CARBON STEEL SCHEDULE 40 COMPLETE WITH THREADED COUPLING AND FITTINGS UP TO 50MM DIA. AND WELDED FOR 65MM AND UP. GROOVED COUPLINGS AND FITTINGS OR SCHEDULE 10 SPRINKLER PIPING MAY BE USED WHEN ACCEPTABLE FOR THE AUTHORITIES HAVING JURISDICTION AND FOR THE OWNER.
9. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ADDITIONAL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM IN ACCORDANCE WITH NFPA AND FMRC.

SHEET KEYED NOTES

1. NEW CAPPED SPRINKLER HEAD TO BE INSTALLED. CONNECT TO EXISTING FIRE SUPPRESSION SYSTEM AND VERIFY LOCATION AND SCOPE OF SPRINKLER HEAD.

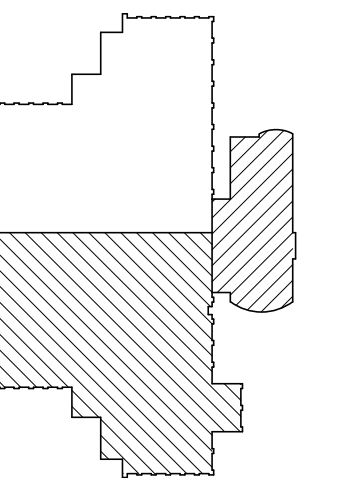
DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Project Component

Key Plan



Consultants

- Survey:
- Civil:
- Architecture:
- Structural:
- Mechanical:
- Electrical:
- Interiors:
- Landscape:

Seal(s)

NORR

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

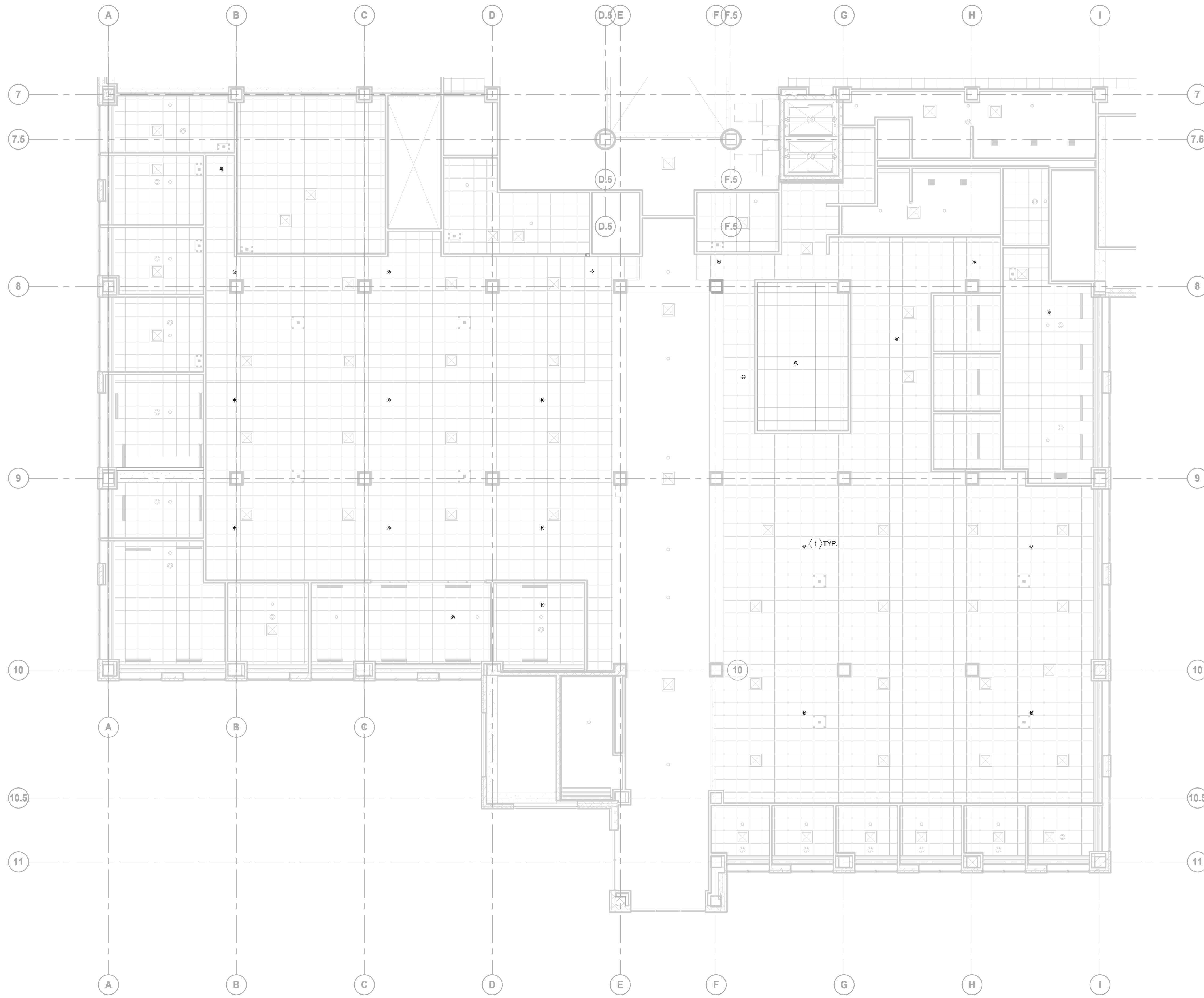
Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - FIRE PROTECTION PLAN - FLOOR 1 NEW WORK

Scale
 1/8" = 1'-0"

Project No.
 JCCT23-0185

Drawing No.
F40-01



1 Fire Protection Floor Plan - Floor 2 New Work
 F40-02 SCALE: 1/8" = 1'-0"

GENERAL KEYED NOTES

- 1 SPRINKLER PIPING WITHIN THE AREA OF WORK SHALL BE HYDRAULICALLY DESIGNED TO MATCH THE BASE BUILDING ALLOWANCES IN ACCORDANCE WITH NFPA 13. AREAS DESIGNED AS LABORATORY ROOM (ROOM #214), MECHANICAL OR ELECTRICAL ROOM, JANITOR CLOSETS, STORAGE TOILET ROOMS SHALL BE DESIGNED ORDINARY HAZARD GROUP 2, WITH A DENSITY OF 0.20 GPM/SQ.FT FOR THE MOST REMOTE 1,500 SQ.FT. ALL OTHER AREAS SHALL BE DESIGNED LIGHT HAZARD OCCUPANCY WITH A DENSITY OF 0.10 GPM/SQ.FT FIR THE REMOTE 1,500 SQ.FT.
- 2 PREPARE ALL WORKING PLANS AND HYDRAULIC CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER, AND SUBMIT TO THE OWNER'S INSURANCE UNDERWRITER AND TO THE MUNICIPAL BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 3 ALL COMPONENTS SHALL BE UL LISTED.
- 4 NEW SPRINKLER HEADS SHALL MATCH THE BASE BUILDING STANDARD, AND BE THE TYPE AS INDICATED ON THE DRAWINGS. COLOR/FINISH SELECTION OF SPRINKLER HEADS AND OF SPRINKLER COVERS TO BE APPROVED BY THE INTERIOR DESIGNER.
- 5 COORDINATE SPRINKLER HEAD LOCATIONS WITH FINAL REFLECTED CEILING PLANS AND OTHER CEILING MOUNTED COMPONENTS. ALIGN HEADS IN CEILING TILES IN BOTH DIRECTIONS.
- 6 CONTRACTOR SHALL CORODINATE FIRE PROTECTION PIPING WITH THE WORK WITH ALL OTHER TRADES. FIRE PROTECTION PIPING SHALL NOT BE LOCATED BELOW AIR TERMINAL UNITS, AIR TERMINAL UNIT HEATING COILS, FILTERS, ETC.
- 7 KEEP EXISTING FIRE PROTECTION AND LIFE SAFETY SYSTEMS IN OPERATION AT ALL TIMES. ARRANGE FOR A FIRE WATCH IF A SHUT-DOWN OF THESE SYSTEMS IS REQUIRED.
- 8 FIRE PROTECTION PIPING SHALL BE CARBON STEEL SCHEDULE 40 COMPLETE WITH THREADED COUPLING AND FITTINGS UP TO 50MM DIA. AND WELDED FOR 50MM AND UP. GROOVED COUPLINGS AND FITTINGS OR SCHEDULE 10 SPRINKLER PIPING MAY BE USED WHEN ACCEPTABLE FOR THE AUTHORITIES HAVING JURISDICTION AND FOR THE OWNER.
- 9 DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ADDITIONAL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SPRINKLER HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM IN ACCORDANCE WITH NFPA AND FMRC.

SHEET KEYED NOTES

- 1 NEW CAPPED SPRINKLER HEAD TO BE INSTALLED. CONNECT TO EXISTING FIRE SUPPRESSION SYSTEM AND VERIFY LOCATION AND SCOPE OF SPRINKLER HEAD.

DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Project Component

Key Plan

Consultants

Survey:
 Civil:
 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

Seal(s)

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Project Manager
 B. Colburn
 Draw
 F. PAN

Project Leader
 J. Brock
 Checked
 D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - FIRE PROTECTION PLAN - FLOOR 2 NEW WORK

Scale
 1/8" = 1'-0"

Project No.
 JC23-0185

Drawing No.
F40-02

DATE	ISSUED FOR	REV
05-10-2024	BID ADDENDUM 01	1

4

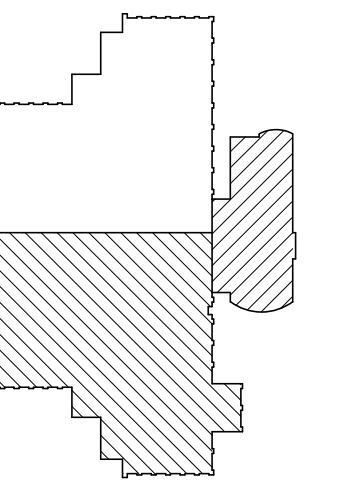
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3

Project Component

Key Plan



Consultants

Survey:
 Civil:
 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

Seal(s)

2

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Strick	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation

220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - FIRE PROTECTION PLAN - FLOOR 1 DEMO

Scale
 1/8" = 1'-0"

Project No.
 JCDT23-0185

Drawing No.
F80-01



SHEET KEYED NOTES
 1 EXISTING SPRINKLER HEADS TO BE REMOVED AND EXISTING PIPING CAPPED.

1 Fire Protection Plan - Floor 1 Demo
 F80-01 SCALE: 1/8" = 1'-0"



SHEET KEYED NOTES

① EXISTING SPRINKLER HEADS TO BE REMOVED AND EXISTING PIPING CAPPED.

1 Fire Protection Floor Plan - Floor 2 Demo
 F80-02 SCALE: 1/8" = 1'-0"

DATE	ISSUED FOR	REV
05-10-2024	BID ADDENDUM 01	1

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Project Component

Key Plan

Consultants

Survey:
 Civil:
 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

Seal(s)

NORR

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Strick	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - FIRE PROTECTION PLAN - FLOOR 2 DEMO

Scale
 1/8" = 1'-0"

Project No.
 JCDT23-0185

Drawing No.
F80-02

ABBREVIATIONS AIR CONDITIONING. Table with 2 columns: DESIGNATION, DESCRIPTION. Lists various units like AC, AD, AFS, AHU, AI, AO, AP, BD, BDD, CVB, CC, DG, DI, DO, EA, EF, EG, ER, FCU, FD, FMS, FPB, FSD, FSF, GC, HE, MAU, NC, NO, OA, RA, RF, RG, RH, RR, SA, SD, SF, SMD, SR, VAV, VD, WMS.

ABBREVIATIONS PLUMBING/FIRE PROTECTION. Table with 2 columns: DESIGNATION, DESCRIPTION. Lists components like AD, ABV, EW/SH, BFP, BMS, BOP, CB, CFRD, CO, CS, CTE, DCW, DF, DHW, DHWR, DN, ELEV, FA, FB, FD, FFD, HB, HD, INV, JS, L, NFWH, NIC, RCP, RD, RWL, S, SAN, SD, SH, SS, SST, STV, TA, TB, T.O.P., TSP, U, U/C, U/G, V, VPTR, VST, WC, WFS, WM, WST.

DUCTWORK SYMBOLS. Table with 2 columns: SYMBOL, DESCRIPTION. Includes diagrams and text for flexible duct connections, rise/drop in duct, duct silencers, turning vanes, duct capped connections, open ended ducts, flexible pipes, reheat coils, removal of existing ducts, supply ducts up/down, return/exhaust ducts, backdraft dampers, fire dampers, motorized control dampers, volume dampers, balancing dampers, smoke dampers, light troffer diffusers, supply air diffusers, relocated diffusers, fans, wall propeller fans, unit heaters, apparatus hung from roof, heating/cooling coils, air sampling sensors, humidistats, thermostats, equipment switches, control transformers, relocated thermostats, VAV boxes, VAV bypass, constant volume boxes, relocated VAV boxes, CO2 detectors, T/CO2 sensors.

EQPM TAGS/SYMBOLS. Table with 2 columns: SYMBOL, DESCRIPTION. Shows symbols for diffuser/register type, equipment tags, point types, wall fin zones, heating capacity, wall fin length, and wall fins.

PIPING SYMBOLS. Table with 2 columns: SYMBOL, DESCRIPTION. Lists various valves and components like gate valves, ball valves, globe valves, butterfly valves, lockshield valves, plug valves, 2-way control valves, check valves, pressure reducing valves, backwater valves, 3-way control valves, circuit balancing valves, solenoid valves, relief valves, float level control valves, automatic air vents, vacuum breakers, valve actuators, unions, capped connections, expansion joints, anchor points, pipe sleeves, pressure gauges, thermometers, water hammer arrestors, strainers, float level switches, pipe DN/UP, roof drains, and automatic balancing valves.

PIPING SYMBOLS. Table with 2 columns: SYMBOL, DESCRIPTION. Shows symbols for hose end drain valves, test cocks, cleanout turned up through floor, cleanout above grade, running traps, backflow preventors, hose bibbs, non freeze wall hydrants, and pumps.

PIPING LEGEND. Table with 2 columns: SYMBOL, DESCRIPTION. Lists return and supply lines for chilled water, glycol, condenser water, reverse osmosis, dual temperature, glycol, heating water, and condensate.

ABBREVIATIONS HEATING / COOLING. Table with 2 columns: DESIGNATION, DESCRIPTION. Lists heating and cooling components like BBH, CBV, CH, CHWR, CHWS, CHW/GR, CHW/GS, COND., CR, CS, FC, GLR, GLS, HC, HW/GR, HW/GS, HWR, HWS, P, PH, PRV, UH, VB, WF, WH, ROW.

ABBREVIATIONS HEATING / COOLING. Table with 2 columns: DESIGNATION, DESCRIPTION. Lists heating and cooling components like BBH, CBV, CH, CHWR, CHWS, CHW/GR, CHW/GS, COND., CR, CS, FC, GLR, GLS, HC, HW/GR, HW/GS, HWR, HWS, P, PH, PRV, UH, VB, WF, WH, ROW.

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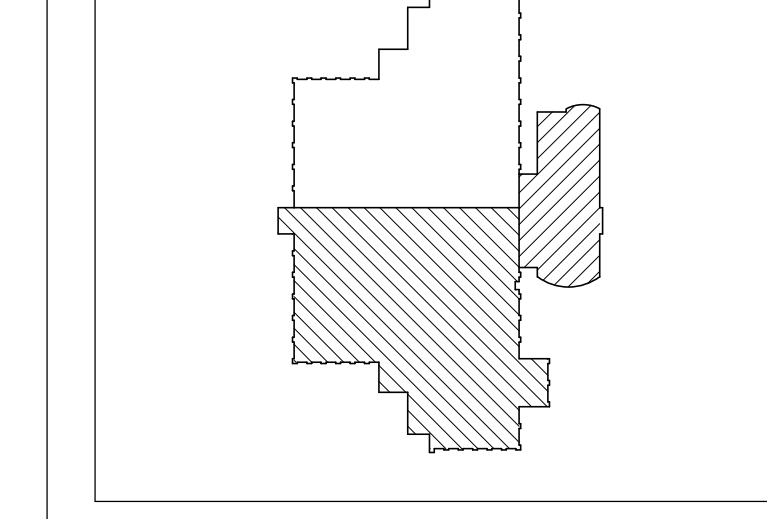
ABBREVIATIONS HEATING / COOLING. Table with 2 columns: DESIGNATION, DESCRIPTION. Lists heating and cooling components like BBH, CBV, CH, CHWR, CHWS, CHW/GR, CHW/GS, COND., CR, CS, FC, GLR, GLS, HC, HW/GR, HW/GS, HWR, HWS, P, PH, PRV, UH, VB, WF, WH, ROW.

Sheet List. Table with 2 columns: Sheet Number, Sheet Name. Lists sheets F40-01 through P50-02, including fire protection plans, mechanical notes, schedules, details, and riser diagrams.

DATE ISSUED FOR REV. Table with 3 columns. Shows dates 04-24-2024 and 05-10-2024, issue types BID and BID ADDENDUM 01, and revision numbers 1 and 2.

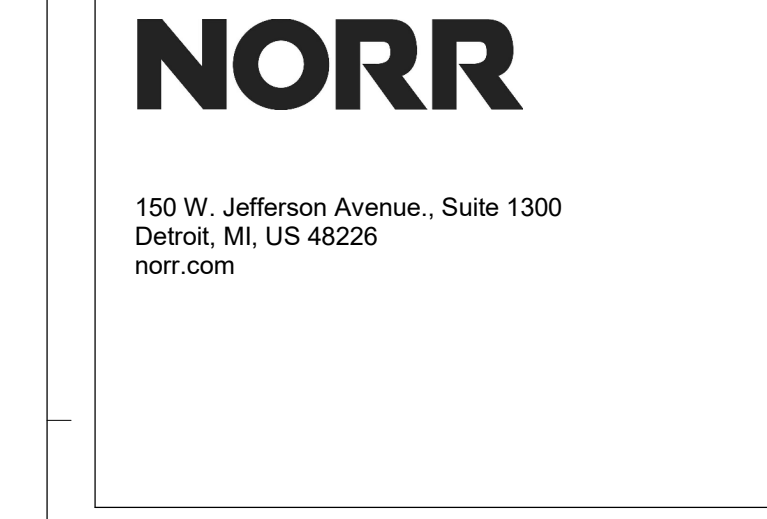
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Consultants. Table listing roles and names: Survey: Civil; Architecture: Structural; Mechanical; Electrical; Interiors; Landscape.

Seal(s). Large empty rectangular box for the professional seal.



Project Manager, Project Leader, Client. Table listing B. Colburn, J. Strick, and St. Clair County Health Department.

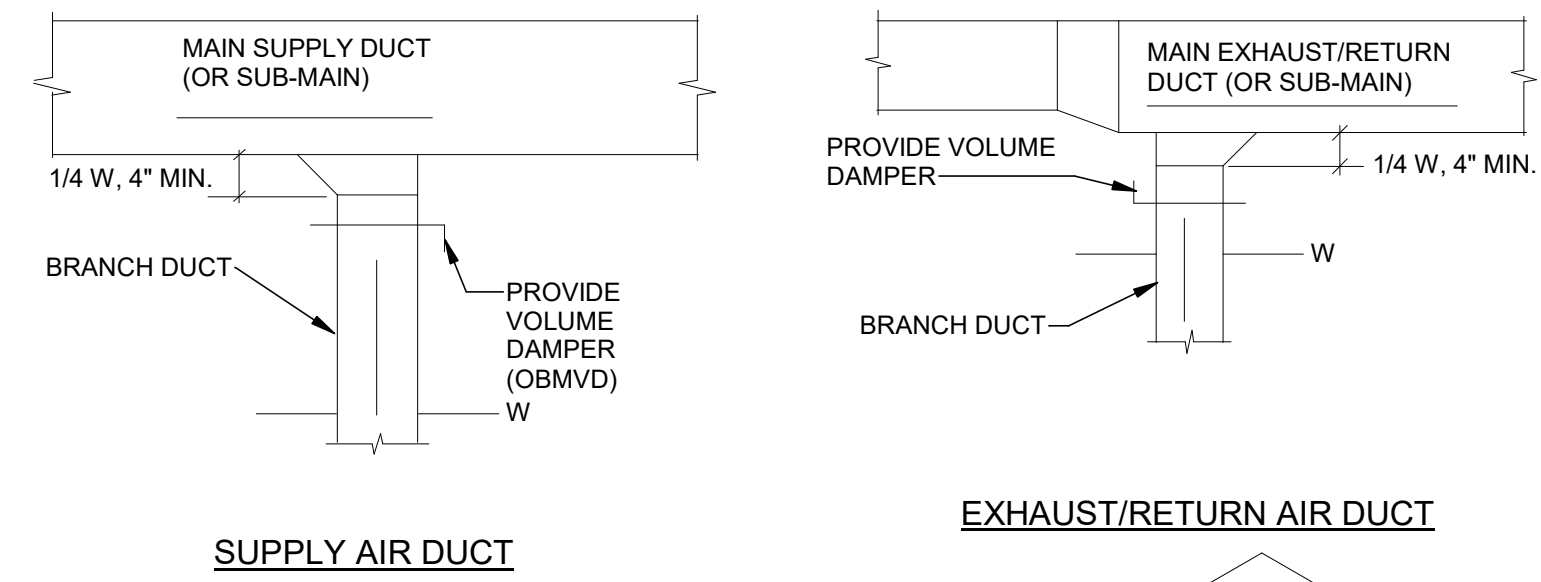
St. Clair County Health Department. Project title and department name.

Project: St. Clair County Health Department Relocation. 220 Fort Street, Port Huron, MI 48060.

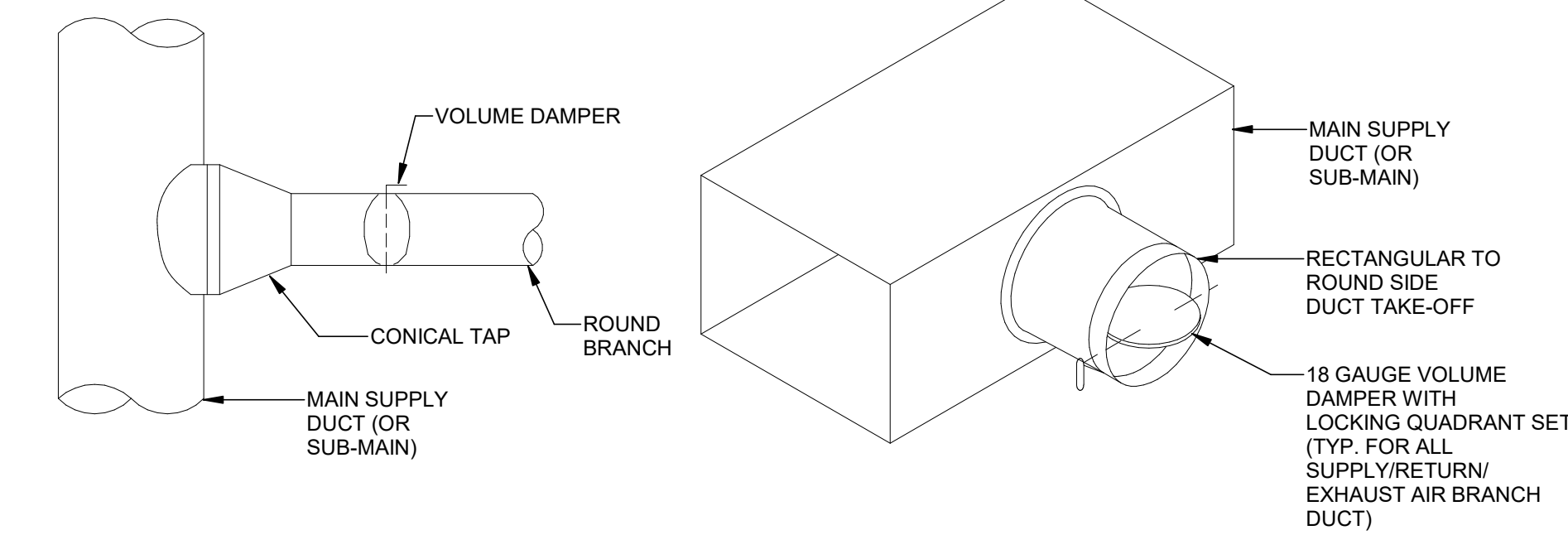
Drawing Title: MECHANICAL NOTES AND LEGENDS.

Scale: 1/8" = 1'-0". Project No.: JC23-0185.

Drawing No.: M00-01. ARCH/E Title Block - © 2023 - Rev. March 2023 - Copyright © 2023.



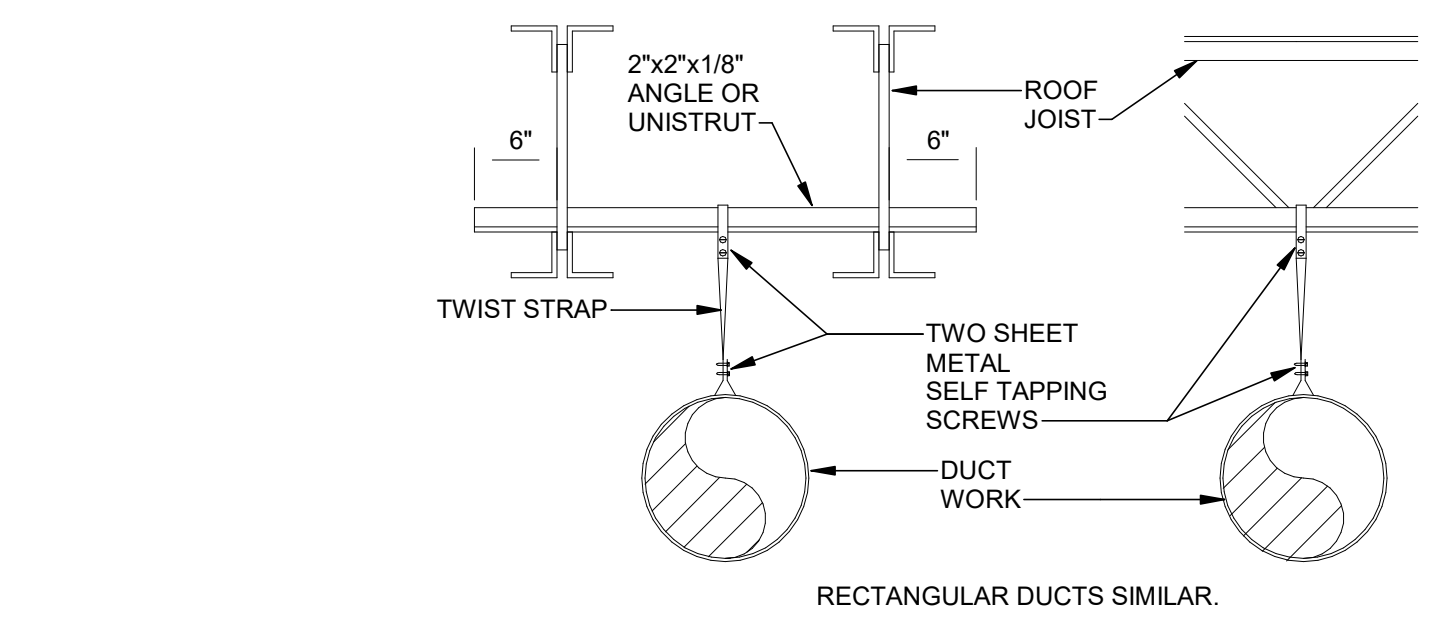
1 BRANCH TAKE-OFF DETAIL
SCALE: 1/8" = 1'-0"



2 CEILING DIFFUSER/RETURN GRILLE CONNECTION
SCALE: 1/8" = 1'-0"

DETAIL NOTES

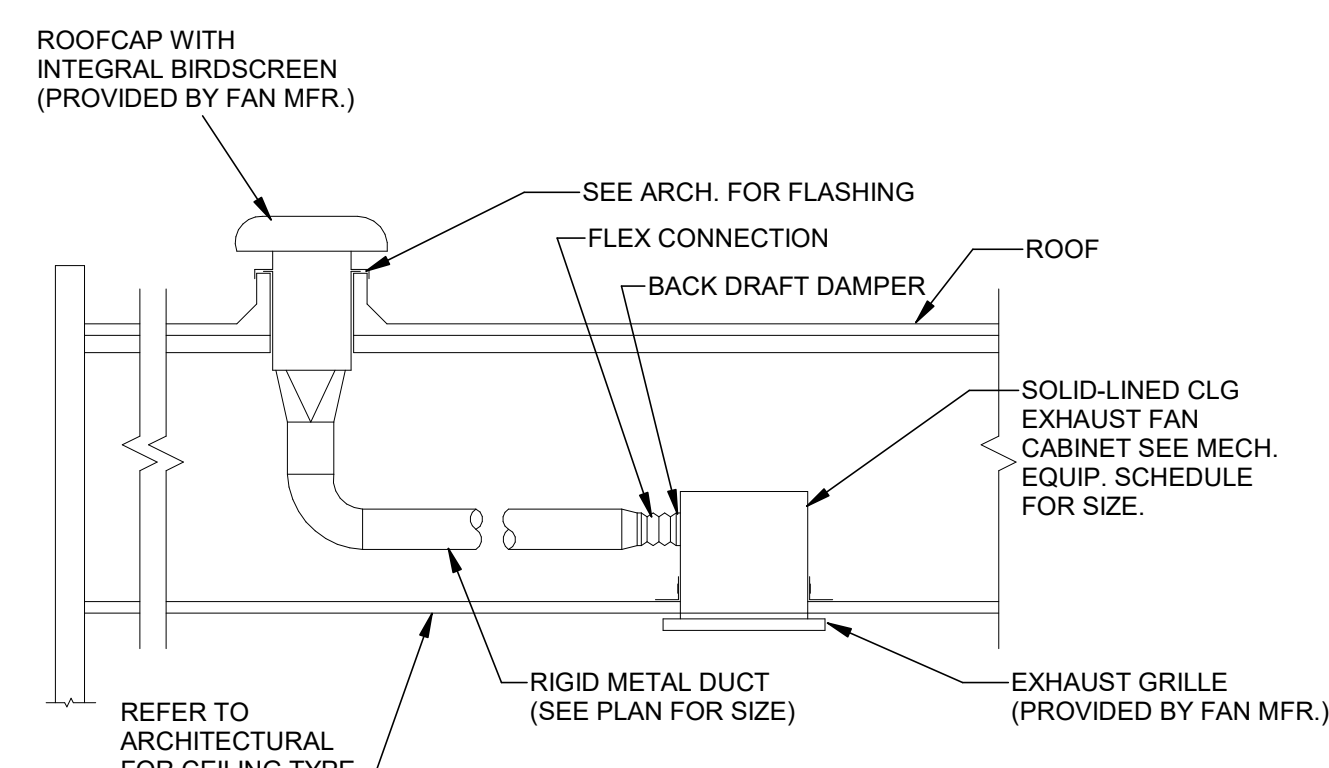
- TWO INSTALLATION OPTIONS ARE SHOWN. PROVIDE THE MOST SUITABLE OPTION BASED UPON ACTUAL DUCT LAYOUT, DIFFUSER LOCATION, AND FIELD CONDITIONS. WHERE FLEXIBLE DUCT RUN EXCEEDS THE MAXIMUM ALLOWABLE LENGTH, PROVIDE THE LONG RUN, SIDE TAP INSTALLATION.
- FLEXIBLE DUCT: U.L. LISTED CLASS 1 AIR DUCT, TESTED IN ACCORDANCE WITH U.L. 181. MAXIMUM LENGTH ALLOWED IS 5 FEET.
- SPIN-IN FITTING: FLARED TYPE WITH BUTTERFLY DAMPER AND INDICATING HANDLE. PROVIDE STRAIGHT-IN TYPE SPIN-IN FITTING ONLY WHERE TRUNK DUCT SIZE WILL NOT ALLOW THE INSTALLATION OF A FLARED TYPE FITTING. INSTALL DUCT INSULATION SO THAT DAMPER HANDLE IS ACCESSIBLE AND VISIBLE ON THE BOTTOM OR SIDE OF THE SPIN-IN FITTING.
- PROVIDE ACCESS TO DAMPERS LOCATED IN CEILINGS OTHER THAN LAY-IN TYPE CEILINGS.
- PROVIDE MINIMUM LENGTH OF FLEXIBLE DUCT WITH NO EXCESS LENGTH BETWEEN CONNECTION POINTS. INSTALL FULLY EXTENDED, NOT COMPRESSED.
- EXTEND FLEXIBLE DUCT A MINIMUM LENGTH OF ONE DUCT DIAMETER STRAIGHT FROM CONNECTION POINTS BEFORE BENDING. MAKE SMOOTH BENDS WITHOUT DEFORMING DUCT CROSS-SECTION.
- PROVIDE ROUND-TO-RECTANGULAR INSULATED SHEET METAL TRANSITION AT THE NECK OF THE CEILING AIR DEVICE AS NECESSARY FOR RECTANGULAR AIR NECK DIFFUSERS/GRILLES.
- SUPPORT FLEXIBLE DUCT AS RECOMMENDED BY MANUFACTURER USING A MINIMUM OF 1-1/2 INCH WIDE BAND CLAMP. MAXIMUM HANGER SPACING IS 4 FEET WITH A MAXIMUM PERMISSIBLE SAG OF 1/2-INCH PER FOOT BETWEEN SUPPORTS. HANGERS MUST MAINTAIN ROUND DUCT SHAPE.



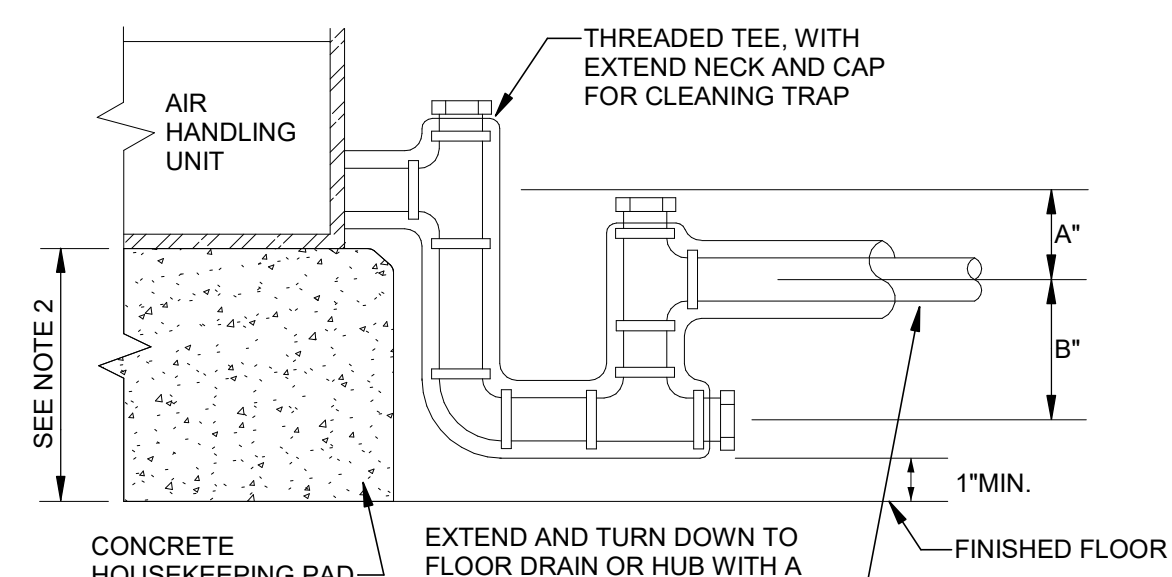
HANGER DETAIL NOTES:
THE FOLLOWING GUIDELINES SHALL BE FOLLOWED WHEN ATTACHING ITEMS TO BAR JOISTS:

- DO NOT HANG ANY TYPE OF CRANE OR HOIST FROM BAR JOISTS.
- OBTAIN CONCENTRATED LOADS FROM CERTIFIED EQUIPMENT DRAWINGS AND MANUFACTURER'S DATA.
- DO NOT HANG ANY LOAD OVER 50 POUNDS FROM JOIST BRACES.
- DO NOT HANG ANY LOADS OVER 50 POUNDS FROM THE TOP OR BOTTOM CHORD OF THE BAR JOIST BETWEEN JOINTS. ALWAYS HANG OVER A DIAGONAL-TO-CHORD JOINT.
- DO NOT DRILL OR WELD ANY PART OF THE BAR JOIST.
- DO NOT HANG ANY LOAD OVER 50 POUNDS FROM ONE SIDE OF THE BAR JOIST CHORD. THIS ECCENTRICITY CAN SERIOUSLY IMPAIR THE MEMBER'S STRUCTURAL PERFORMANCE.
- DO NOT HANG LOAD GREATER THAN 1000 POUNDS FROM ONLY ONE JOIST BECAUSE OF HANGER DEFICIENCY. HANG BETWEEN TWO JOISTS TO DISTRIBUTE THE LOAD AND GIVE A STRONGER, MORE STABLE HANGING SYSTEM.
- DO NOT HANG ANY LOAD OVER 10 POUNDS/LINEAR FOOT CONTINUOUSLY ALONG ONE BAR JOIST UNLESS THAT JOIST IS CAPABLE OF CARRYING THE APPLIED LOAD IN ADDITION TO THE REQUIRED BUILDING LIVE LOAD.
- COORDINATE HANGER LOADS WITH THE GENERAL CONTRACTOR CONSTRUCTION MANAGEMENT.
- LOCATION OF HANGER LOADS SHALL BE APPROVED BY GENERAL CONTRACTOR.
- ALL DUCTS & SUPPORTS SHALL BE INSTALLED PER SMACNA STANDARDS.

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



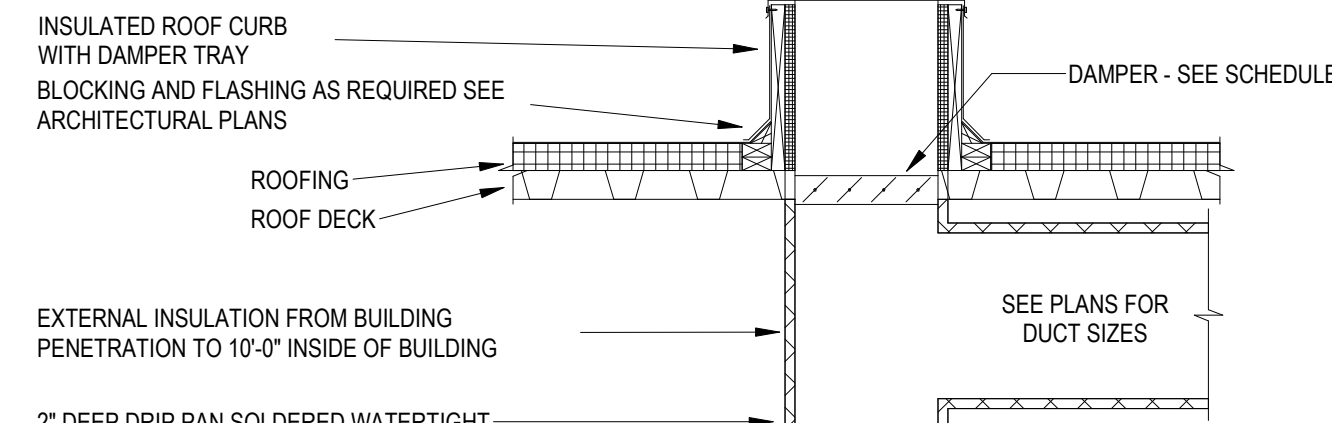
4 TOILET ROOM EXHAUST FAN
SCALE: 1/8" = 1'-0"



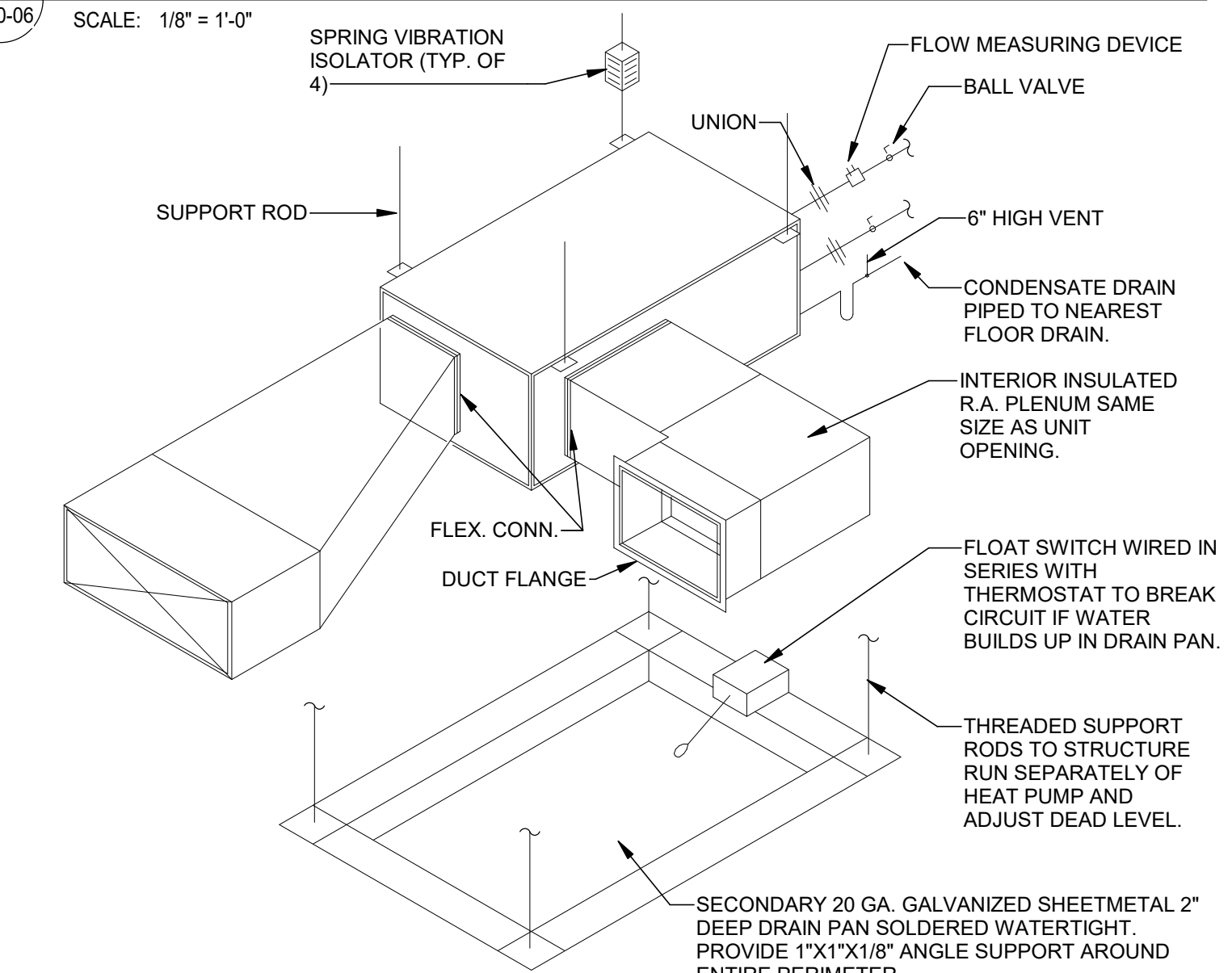
5 CONDENSATE DRAIN TRAP
SCALE: 1/8" = 1'-0"

NOTE:

- ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION AND FLASHING WITH THE GENERAL CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL COORDINATE ROOF OPENING AND CURB SIZE REQUIRED FOR DUCT PENETRATION.



6 GRAVITY ROOF VENTILATOR DETAIL - RELIEF/EXHAUST
SCALE: NO SCALE



7 HEAT PUMP/ DRAIN PAN DETAIL
SCALE: 1/8" = 1'-0"

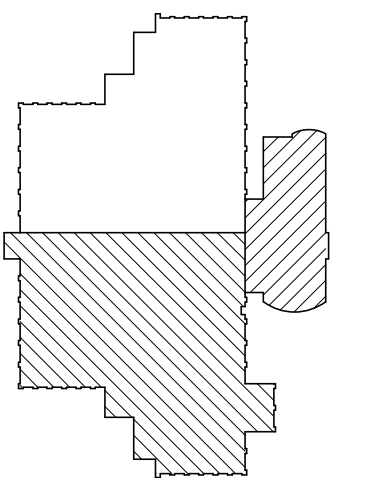
DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Project Component

Key Plan



Consultants

- Survey:
- Civil:
- Architecture:
- Structural:
- Mechanical:
- Electrical:
- Interiors:
- Landscape:

Seal(s)

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Project Manager B. Colburn	Draw N. KENT
Project Leader J. Strick	Checked D. DOVAS

Client
St. Clair County Health Department

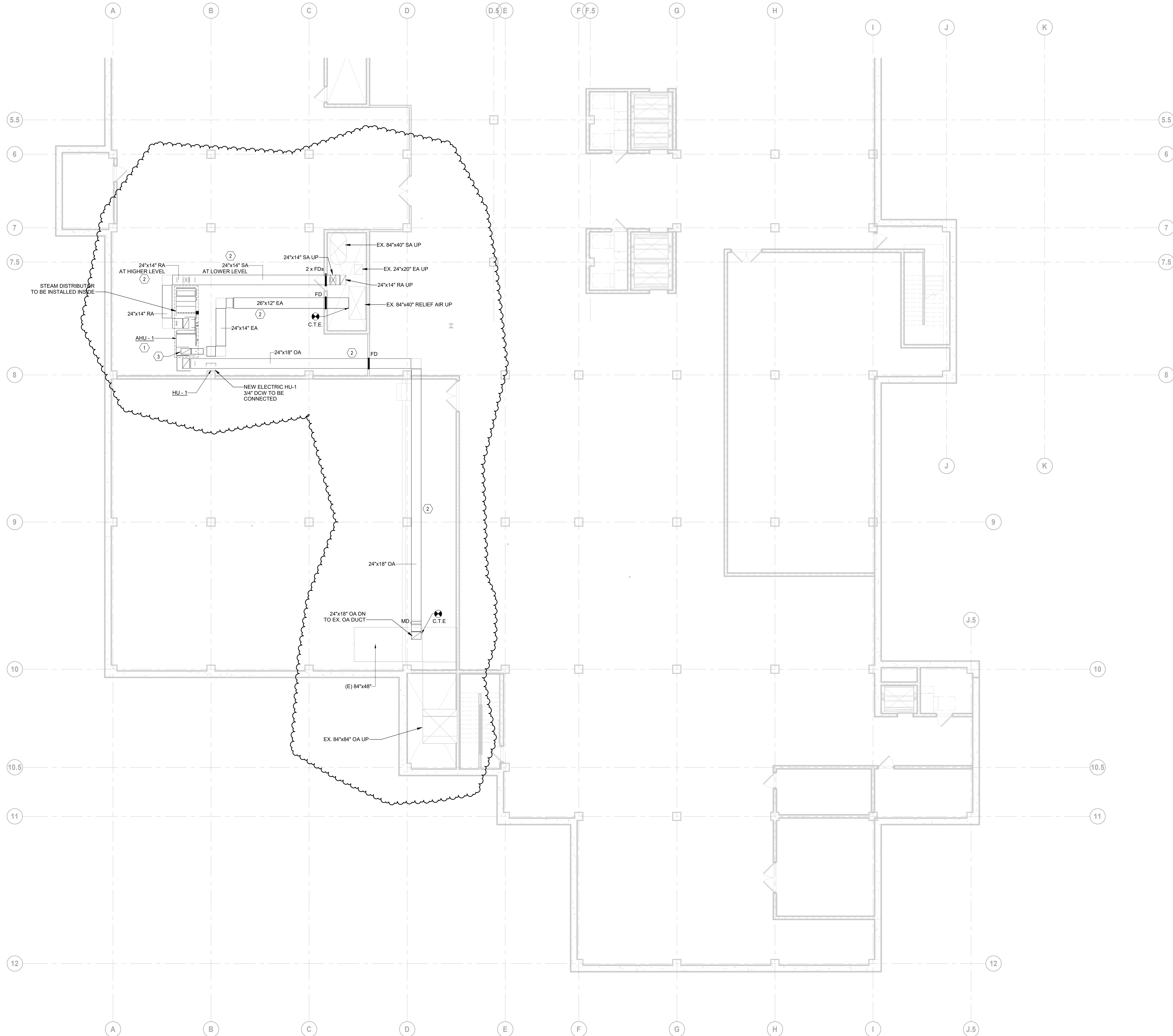
Project
St. Clair County Health Department Relocation
220 Fort Street
Port Huron, MI
48060

Drawing Title
MECHANICAL DETAILS

Scale
1/8" = 1'-0"

Project No.
JCDT23-0185

Drawing No.
M00-06



GENERAL NOTES FOR NEW HVAC WORK

1. THIS DRAWING IS DIAGRAMMATIC & INDICATED THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL MECHANICAL SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, FITTINGS, WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS.
2. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
3. CORRODINATE FLOOR, WALL, AND ROOF PENETRATIONS, ETC. WITH ARCHITECTURAL TRADES IF ANY.
4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF DUCTWORK AND EQUIPMENT WITH ALL OTHER TRADES.
5. BRANCH DUCTWORK TO TERMINAL BOXES SHALL BE BOX INLET SIZE AS NOTED IN RELEVANT MECHANICAL SCHEDULE.
6. CONTRACTOR SHALL MOUNT ANY THERMOSTATS/DIGITAL TEMPERATURE SENSORS 48" A.F.F.
7. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR GRILLE, REGISTER AND DIFFUSERS LOCATIONS.
8. COORDINATE WITH ARCHITECTURAL AND PROVIDE ACCESS DOORS IN GYMSUM BOARD CEILING AREAS FOR ACCESS TO TERNIAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, SMOKE DETECTORS, ETC.

SHEET KEYED NOTES

- 1 NEW AHU-1 TO BE LOCATED INTO EXISTING MAINTENANCE OFFICE. C/W 4" HIGH CONCRETE HOUSEKEEPING PAD, AND 2 x 6" RAILS.
- 2 ALL NEW DUCTWORKS & PIPING SERVING "AHU-1" TO BE ROUTED CLEAR OF ANY EXISTING DUCTS, PIPING & OBSTRUCTIONS, ETC. AT BASEMENT LEVEL EVEN IF NOT BEING SHOWN. CONTRACTOR TO VERIFY ON SITE AND OFFSET DUCTS PROPERLY IF REQUIRED, TYPICALLY.
- 3 RELIEF AIR DUCT TO BE CONNECTED TO RELIEF AIR OPENING ON THE TOP, DOWNSTREAM OF THE RETURN FAN.

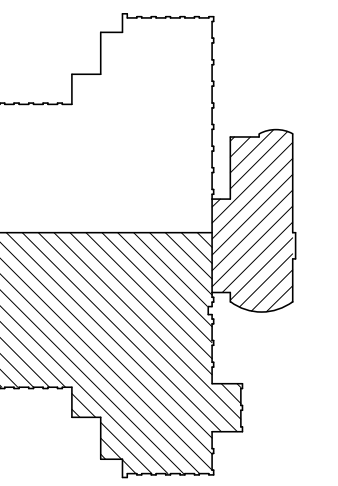
DATE	ISSUED FOR	REV
04-24-2024	BID	1
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Project Component

Key Plan



Consultants

Survey:
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Architecture:
Structural:
Mechanical:
Electrical:
Interiors:
Landscape:

Seal(s)

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Project Manager
B. Colburn
Project Leader
J. Brock

Drawn
F. PAN
Checked
D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation

220 Fort Street
Port Huron, MI
48060
Drawing Title
SOUTH WING - BASEMENT HVAC PLAN

Scale
1/8" = 1'-0"

Project No.
JC23-0185

Drawing No.
M50-00

1 SOUTH WING - BASEMENT HVAC PLAN
SCALE: 1/8" = 1'-0"

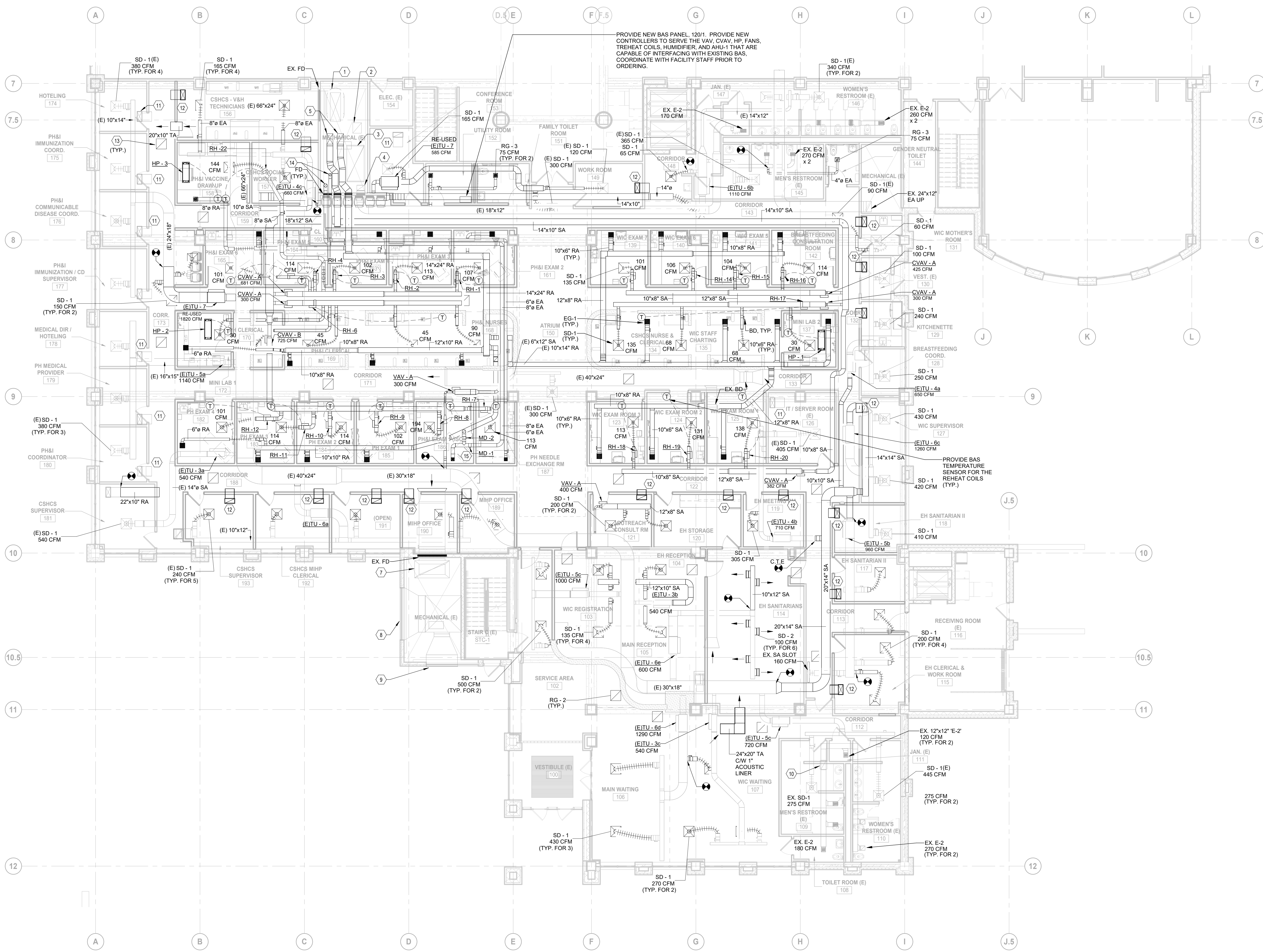
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SHEET KEYED NOTES

- EX 84"x40" SA DN & 66"x24" SA UP.
- EX 24"x20" UP & DN.
- EX 84"x40" UP & DN.
- EX 18"x12" EA UP.
- NEW 14"x24" SA & RA FROM NEW AHU-1 IN BASEMENT.
- EX 24"x12" RETURN GRILLE & ASSOCIATED DUCT, TYP.
- EX 84"x40" RA DN & 66"x24" RA UP.
- EX 84"x36" OA DUCT-TRANSITION TO 120"x72" OA LOUVER.
- EX 36"x24" OA DUCT-TRANSITION TO 72"x72" OA LOUVER-BLANK-OFF & INSULATE UNUSED PORTION OF LOUVER.
- UP TO EX EF-4 ON ROOF.
- EX 24"x12" RETURN AIR GRILLE & ASSOCIATED DUCT TO REMAIN IN PLACE.
- NEW 24"x12" RETURN AIR EGGRATE GRILLE & ASSOCIATED "L" TYPE AIR TRANSFER DUCT C/W 1" ACOUSTIC LINER.
- NEW 24"x24" RETURN AIR EGGRATE GRILLE.
- NEW 6" & 8" EA UP TO NEW ROOF EXHAUST FANS.
- THE EXHAUST MOTORIZED DAMPER (MD-1) NORMALLY CLOSED, PROVIDE MANUAL SWITCH LOCATED AT NURSE CLERICAL AREA WITH LIGHT SIGNAL IN ROOM. UPON ACTIVATION, THE DAMPER PROVES OPENS, ENGAGES EXHAUST FAN, CLOSES MD-2, AND SIGNAL IN ROOM INDICATES GREEN.



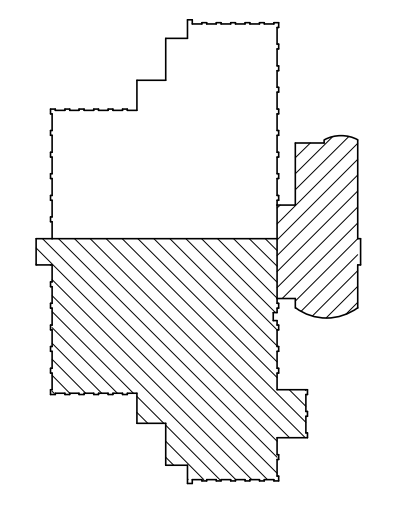
1 LEVEL 1 - SOUTH WING - HVAC PLAN
 SCALE: 1/8" = 1'-0"

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Project Component

Key Plan



Consultants

- Survey:
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- Architecture:
- Structural:
- Mechanical:
- Electrical:
- Interiors:
- Landscape:

Seal(s)

2

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Strick	Checked D. DOVAS

Client
St. Clair County Health Department

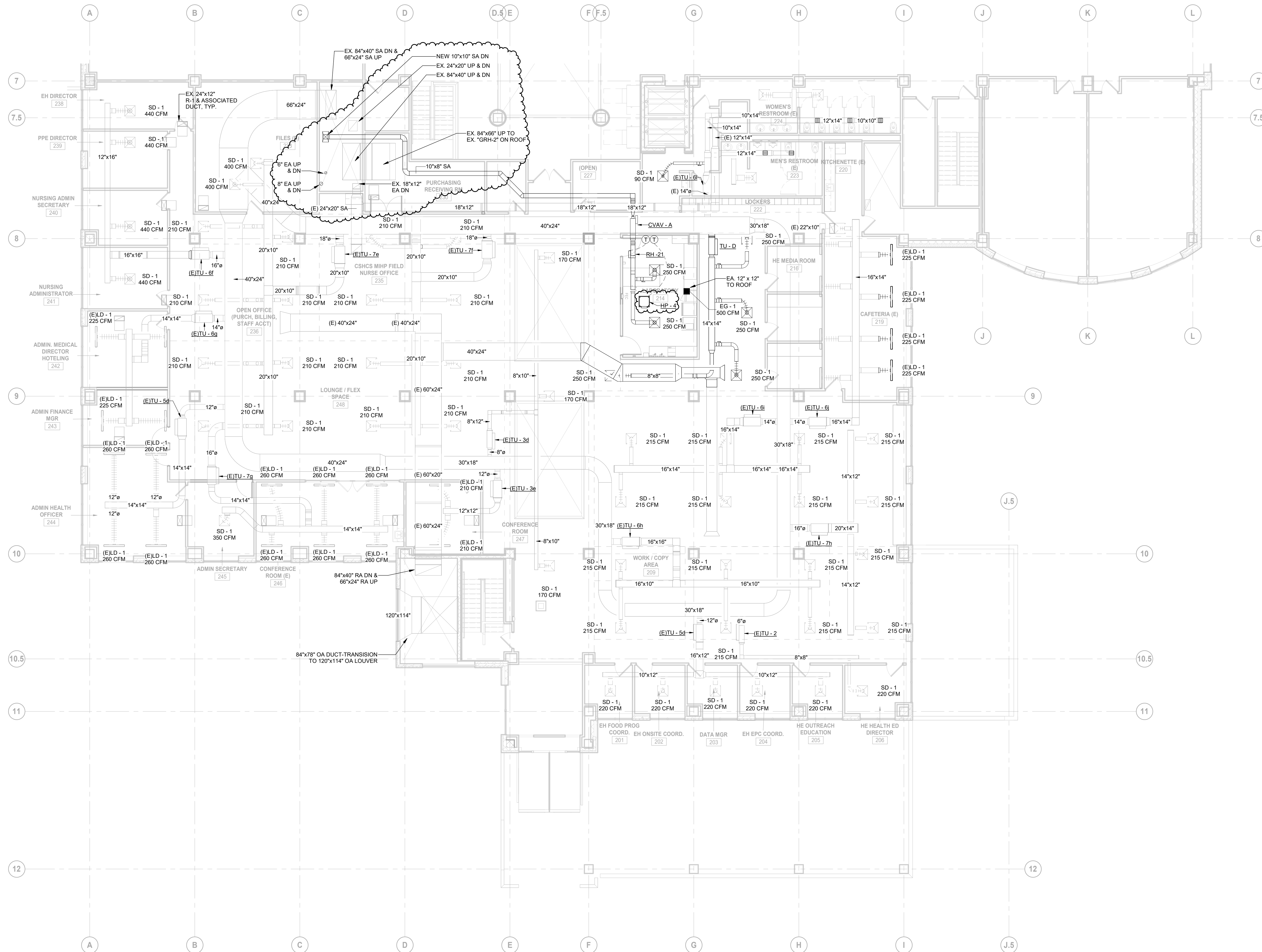
Project
St. Clair County Health Department Relocation

220 Fort Street
Port Huron, MI
48060
Drawing Title
**SOUTH WING - LEVEL 1
HVAC PLAN**

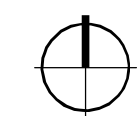
Scale
1/8" = 1'-0"

Project No.
JCDT23-0185

Drawing No.
M50-01



1 SOUTH WING - LEVEL 2 HVAC PLAN
 M50-02 SCALE: 1/8" = 1'-0"



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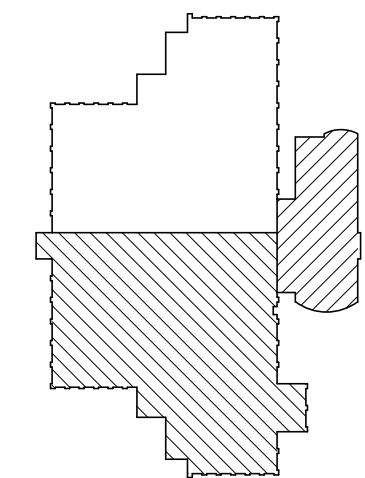
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Project Component

Key Plan



Consultants

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- Structural:
- Mechanical:
- Electrical:
- Interiors:
- Landscape:

Seal(s)

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Project Manager
 B. Colburn
 Project Leader
 J. Sirock
 Client
St. Clair County Health Department

Drawn
 N. KENT
 Checked
 D. DOVAS

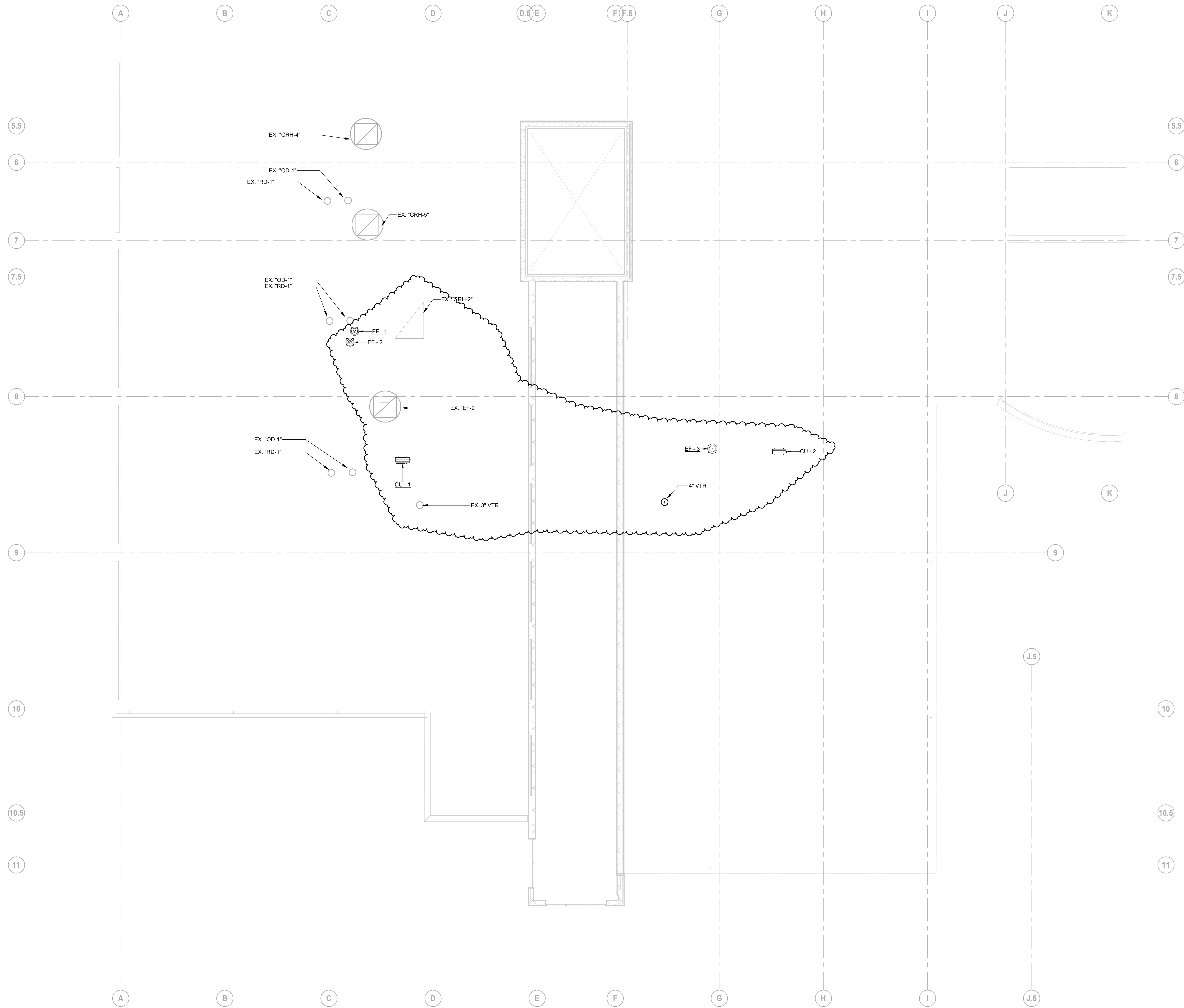
Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - LEVEL 2 HVAC PLAN

Scale
 1/8" = 1'-0"

Project No.
 JC23-0185

Drawing No.
M50-02



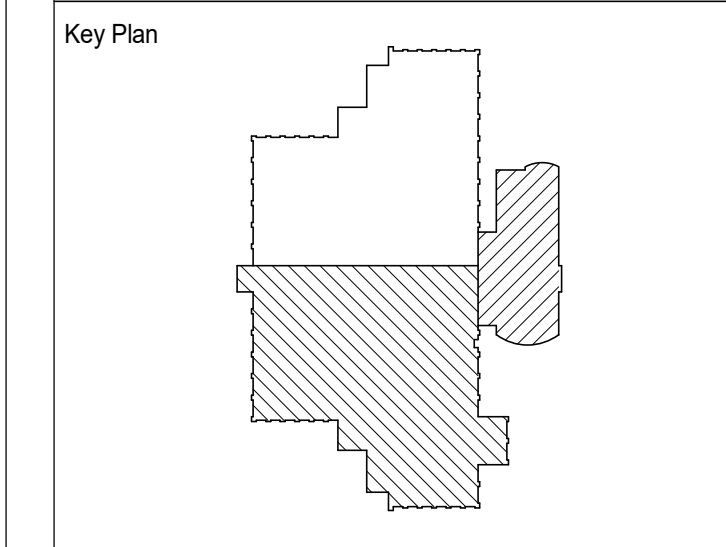
1 ROOF HVAC PLAN
 SCALE: 1/8" = 1'-0"

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 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

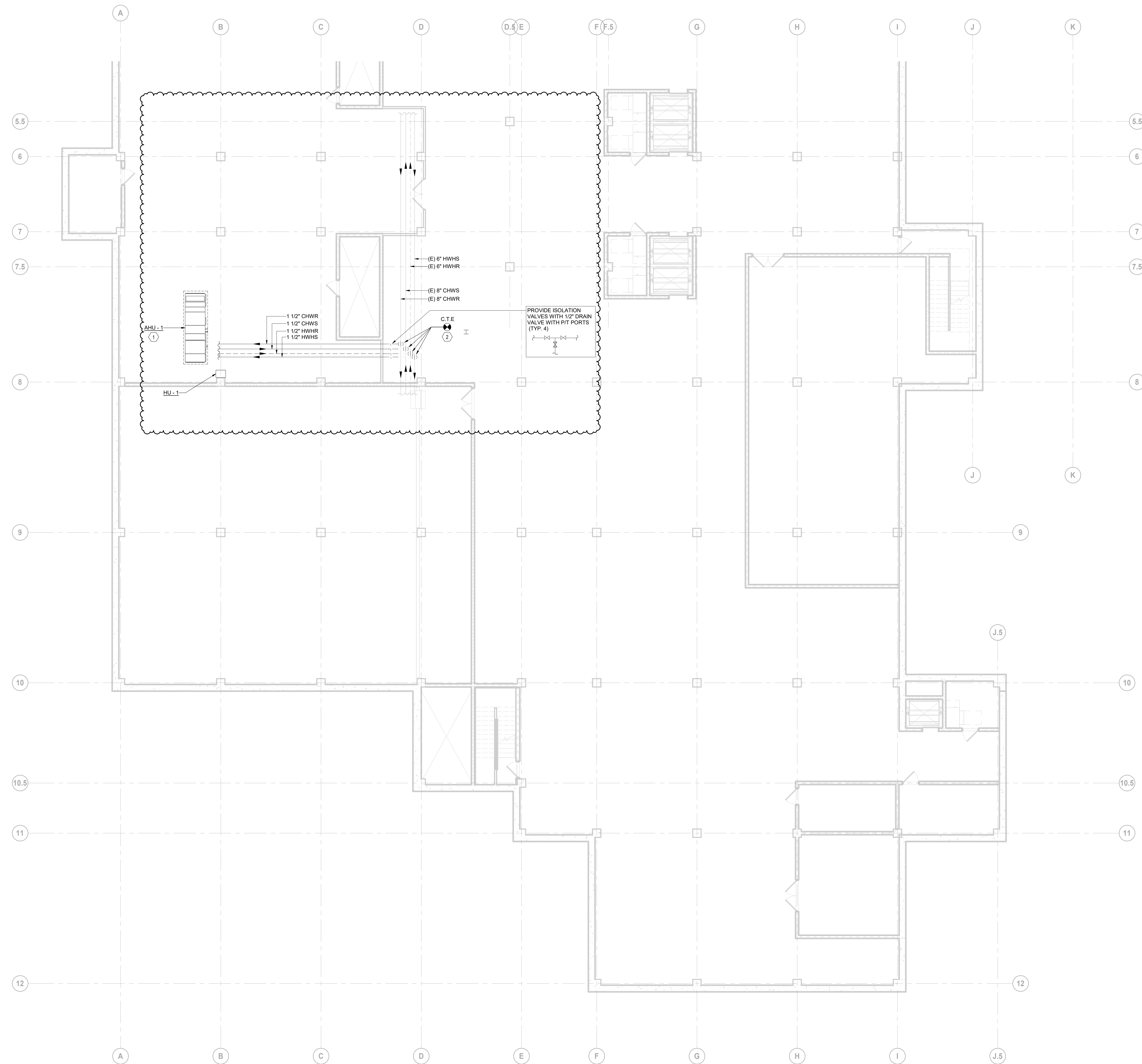
Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - ROOF MECHANICAL PLAN

Scale
 1/8" = 1'-0"

Project No.
 JCDT23-0185

Drawing No.
M50-03



GENERAL NOTES FOR NEW HYDRONIC PIPING WORK

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2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PIPING AND EQUIPMENT WITH ALL OTHER TRADES.
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4. CONTRACTOR SHALL MOUNT ANY THERMOSTATS/DIGITAL TEMPERATURE SENSORS 48" A.F.F.
5. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR SUPPORTS, ANCHORS, AND GUIDES.
6. FOR NEW EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT, REFER TO DETAILS AND PIPING DIAGRAMS.
7. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, WHERE PIPING PASSING OVER ELECTRICAL CABLE TRAY OR PANELS, PROVIDE DRIP PAN SHIELD.
8. ALL EXISTING PERIMETER RADIANT WATER HEATING CEILING PANELS IN & ASSOCIATED PIPING, VALVES AND CONTROLS TO REMAIN IN PLACE INTACT.
9. ALL EXISTING ENTRANCE WATER HEATING UNITS & ASSOCIATED PIPING, VALVES & CONTROLS TO REMAIN IN PLACE, INTACT TO REMAIN, INCLUDING FINNED TUBE RADIATION UNITS, CONVECTOR UNITS, CABINET UNIT HEATERS AND UNIT HEATERS.
10. UPON RELOCATION OF EXISTING VAV BOX, ITS ASSOCIATED REHEAT COIL, HEATING WATER SUPPLY & RETURN PIPING, VALVES & CONTROLS TO BE RELOADED AND REROUTED AS WELL TO SUIT THE NEW APPLICATION.

SHEET KEYED NOTES

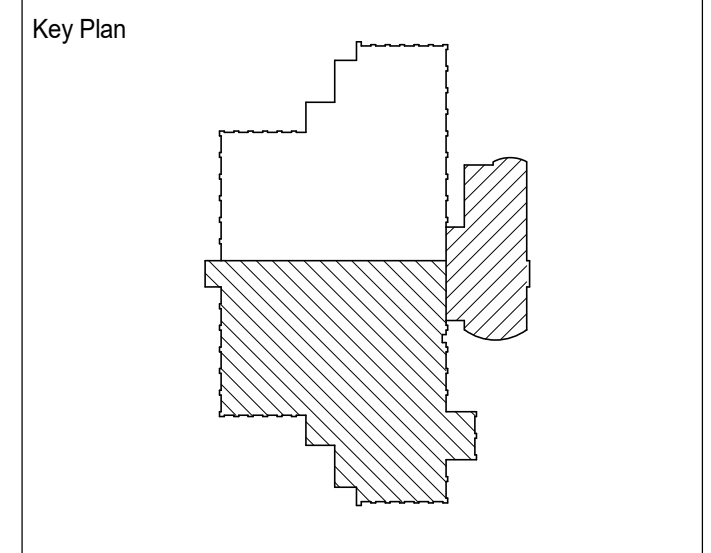
1. TO CONNECT NEW 1-1/2" CHILLED WATER SUPPLY/RETURN AND HEATING WATER SUPPLY/RETURN PIPING TO NEW AHU-1. PROVIDE 2-WAY FLOW CONTROL VALVE ON WATER SUPPLY SIDE.
2. TO TAKE NEW 1-1/2" BRANCHES FOR CHILLED WATER SUPPLY/RETURN AND HEATING WATER SUPPLY/RETURN PIPING TO SERVE NEW AHU-1. ALL NEW DUCTWORKS & PIPING SERVING "AHU-1" TO BE ROUTED CLEAR OF ANY EXISTING DUCTS, PIPING & OBSTRUCTIONS, ETC. AT BASEMENT LEVEL EVEN IF NOT BEING SHOWN. CONTRACTOR TO VERIFY ON SITE, TYPICALLY.

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Project Manager
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 Project Leader
 J. Brock

Drawn
 F. PAN
 Checked
 D. DOVAS

Client
St. Clair County Health Department

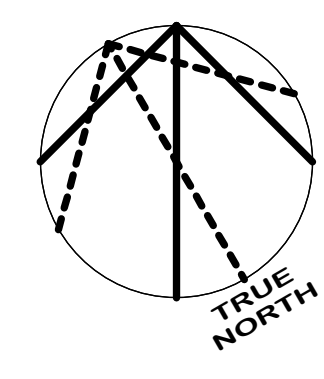
Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - BASEMENT HYDRONIC PLAN

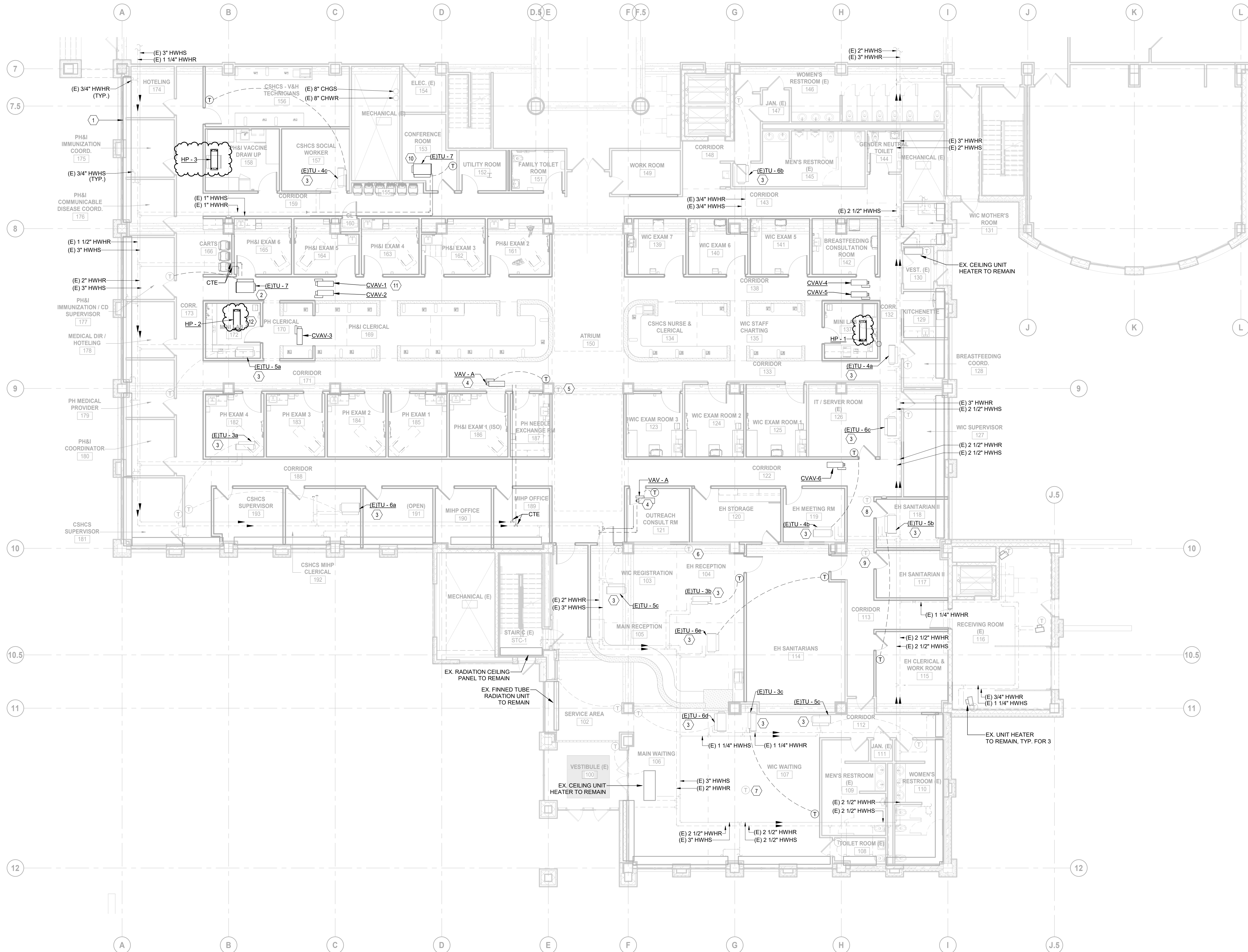
Scale
 1/8" = 1'-0"

Project No.
 JCDT23-0185

Drawing No.
M53-00



1 SOUTH WING - BASEMENT HYDRONIC PLAN
 SCALE: 1/8" = 1'-0"



1 SOUTH WING - LEVEL 1 HYDRONIC PLAN
 M53-01 SCALE: 1/8" = 1'-0"

GENERAL NOTES FOR NEW HYDRONIC PIPING WORK

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- CONTRACTOR SHALL MOUNT ANY THERMOSTATS/DIGITAL TEMPERATURE SENSORS 48" A.F.F.
- CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR SUPPORTS, ANCHORS, AND GUIDES.
- FOR NEW EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT, REFER TO DETAILS AND PIPING DIAGRAMS.
- PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. WHERE PIPING PASSING OVER ELECTRICAL CABLE TRAY OR PANELS, PROVIDE DRIP PAN SHIELD.
- ALL EXISTING PERIMETER RADIANT WATER HEATING CEILING PANELS IN & ASSOCIATED PIPING, VALVES AND CONTROLS TO REMAIN IN PLACE INTACT.
- ALL EXISTING ENTRANCE WATER HEATING UNITS & ASSOCIATED PIPING, VALVES & CONTROLS TO REMAIN IN PLACE INTACT TO REMAIN, INCLUDING FINNED TUBE RADIATION UNITS, CONVECTOR UNITS, CABINET UNIT HEATERS AND UNIT HEATERS.
- UPON RELOCATION OF EXISTING VAV BOX, ITS ASSOCIATED REHEAT COIL, HEATING WATER SUPPLY & RETURN PIPING, VALVES & CONTROLS TO BE RELOCATED AND REROUTED AS WELL TO SUIT THE NEW APPLICATION.

SHEET KEYED NOTES

- EXISTING PERIMETER WATER HEATING RADIANT CEILING PANEL TO REMAIN IN PLACE, TYP.
- RELOCATED EXISTING VAV BOX "TU-7" AT APPROXIMATE LOCATION. PROVIDE NEW 3/4" WATER PIPING & CONTROL WIRING AS INDICATED.
- EXISTING VAV BOX W/ ASSOCIATED WATER HEATING REHEAT COIL TO REMAIN IN PLACE.
- PROVIDE PIPING, THERMOSTAT & CONTROL AS INDICATED FOR NEW VAV BOX W/ WATER HEATING REHEAT COIL.
- EXISTING THERMOSTAT SERVING EXISTING TU-3 TO BE RELOCATED IN NEW ROOM #104 AS INDICATED.
- EXISTING THERMOSTAT SERVING EXISTING TU-6 TO BE RELOCATED IN NEW ROOM #114 AS INDICATED.
- EXISTING THERMOSTAT SERVING EXISTING TU-3 TO BE RELOCATED IN NEW ROOM #107 AS INDICATED.
- EXISTING THERMOSTAT SERVING EXISTING TU-4 TO BE RELOCATED IN NEW ROOM #126 AS INDICATED.
- EXISTING THERMOSTAT SERVING EXISTING TU-5 TO BE RELOCATED IN NEW ROOM #115 AS INDICATED.
- RELOCATED EXISTING VAV BOX "TU-7" AT APPROXIMATE LOCATION. PROVIDE NEW 3/4" WATER PIPING & CONTROL WIRING AS INDICATED.
- NEW CAVV BOX W/O WATER HEATING, TYP. FOR 6.
- NEW SPLIT AC INDOOR UNIT, TYP. FOR 3.

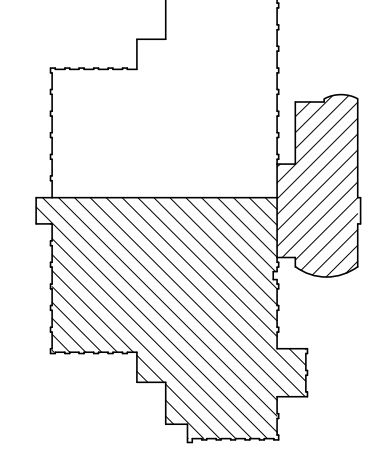
DATE	ISSUED FOR	REV
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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Brock	Checked D. DOVAS

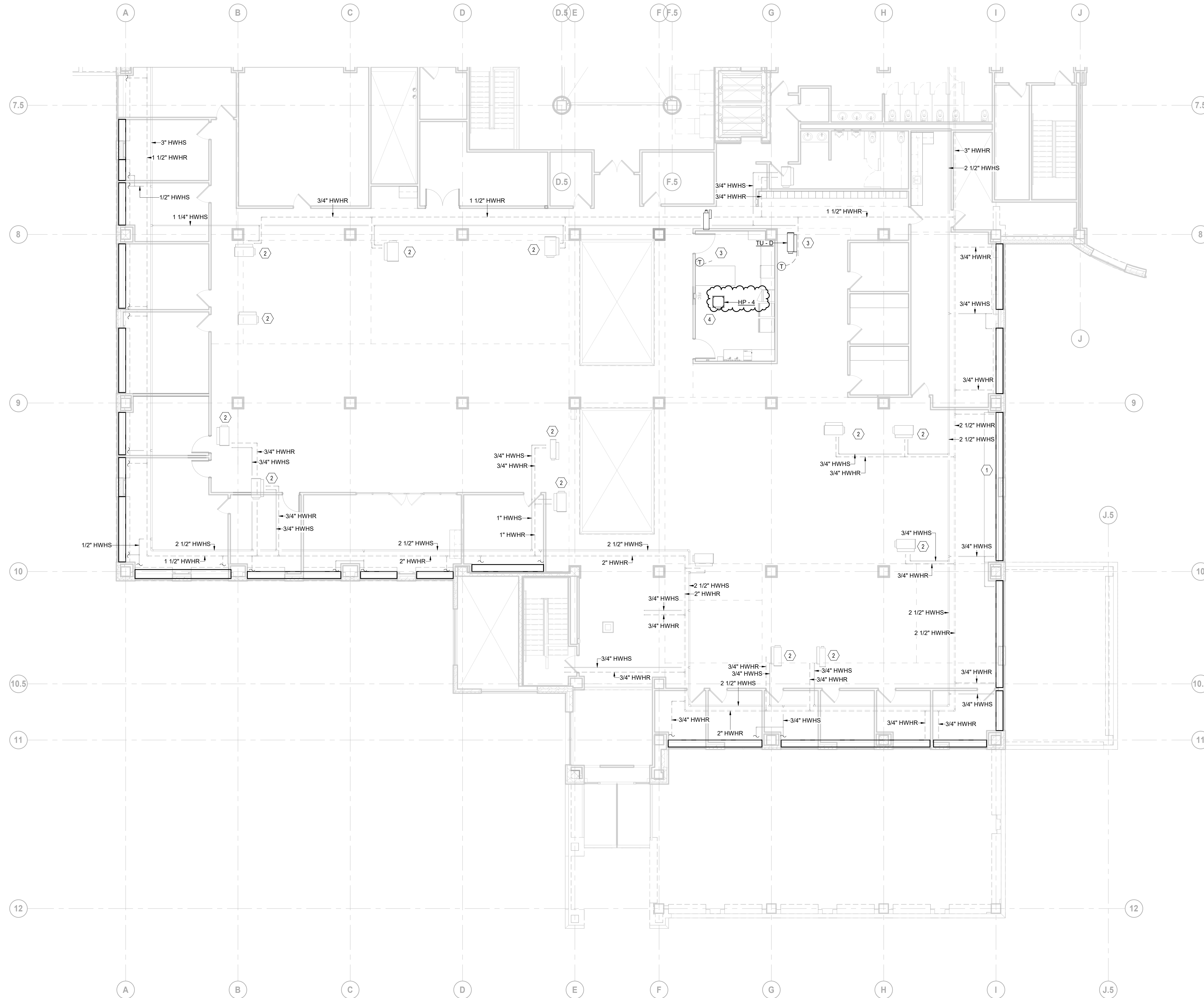
Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI 48060
 Drawing Title
SOUTH WING - LEVEL 1 HYDRONIC PLAN

Scale
 1/8" = 1'-0"

Project No.
 JCDT23-0185

Drawing No.
M53-01



1 SOUTH WING - LEVEL 2 HYDRONIC PLAN
 SCALE: 1/8" = 1'-0"

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6. FOR NEW EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT, REFER TO DETAILS AND PIPING DIAGRAMS.
7. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT, WHERE PIPING PASSING OVER ELECTRICAL CABLE TRAY OR PANELS, PROVIDE DRIP PAN SHIELD.
8. ALL EXISTING PERIMETER RADIANT WATER HEATING CEILING PANELS IN & ASSOCIATED PIPING, VALVES AND CONTROLS TO REMAIN IN PLACE INTACT.
9. ALL EXISTING ENTRANCE WATER HEATING UNITS & ASSOCIATED PIPING, VALVES & CONTROLS TO REMAIN IN PLACE INTACT TO REMAIN, INCLUDING FINNED TUBE RADIATION UNITS, CONVECTOR UNITS, CABINET UNIT HEATERS AND UNIT HEATERS.
10. UPON RELOCATION OF EXISTING VAV BOX, ITS ASSOCIATED REHEAT COIL, HEATING WATER SUPPLY & RETURN PIPING, VALVES & CONTROLS TO BE RELOCAED AND REROUTED AS WELL TO SUIT THE NEW APPLICATION.

SHEET KEYED NOTES

1. EXISTING PERIMETER WATER HEATING RADIANT CEILING PANEL TO REMAIN IN PLACE, TYP.
2. EXISTING VAV BOX W/ ASSOCIATED WATER HEATING REHEAT COIL TO REMAIN IN PLACE.
3. PROVIDE PIPING, THERMOSTAT & CONTROL AS INDICATED FOR NEW VAV BOX W/ WATER HEATING REHEAT COIL.
4. NEW SPLIT AC INDOOR UNIT, TYP. FOR 3.

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Project Component

Key Plan

Consultants

Survey:	
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Architecture:	
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Mechanical:	
Electrical:	
Interiors:	
Landscapes:	

Seal(s)

NORR

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Project Manager B. Colburn	Draw N. KENT
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

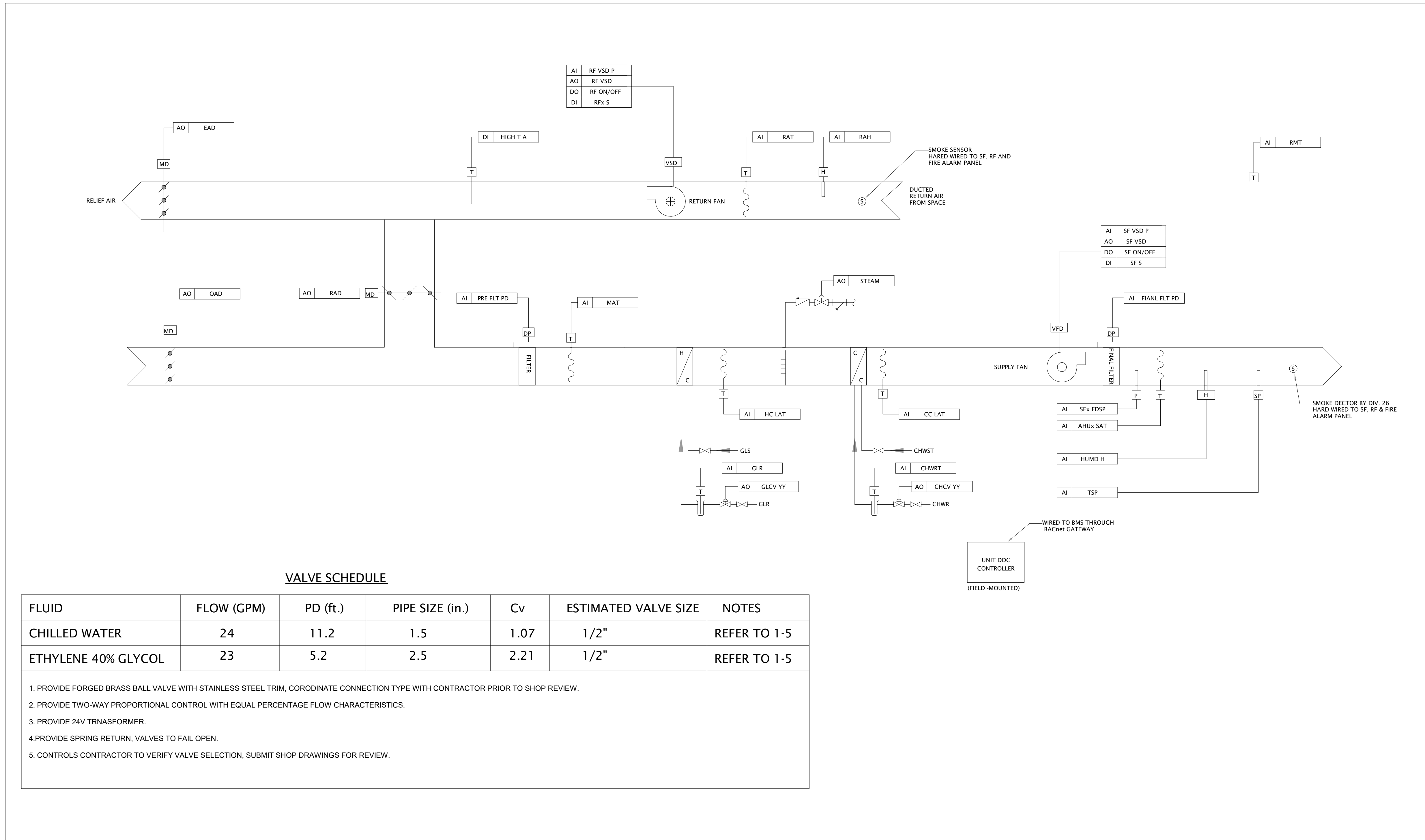
Drawing Title
SOUTH WING - LEVEL 2 HYDRONIC PLAN

Scale
 1/8" = 1'-0"

Project No.
 JCDT23-0185

Drawing No.
M53-02

DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

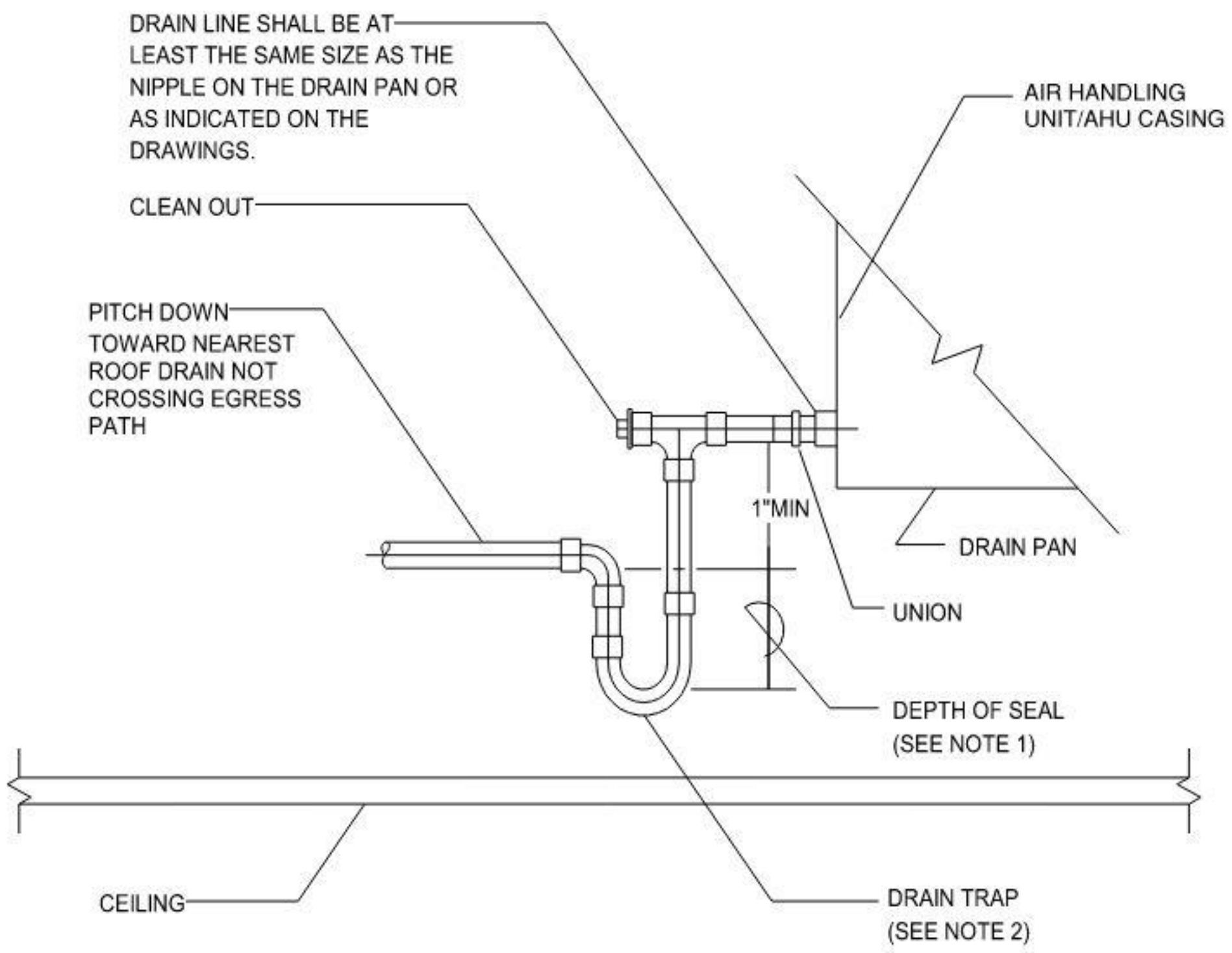


VALVE SCHEDULE

FLUID	FLOW (GPM)	PD (ft.)	PIPE SIZE (in.)	Cv	ESTIMATED VALVE SIZE	NOTES
CHILLED WATER	24	11.2	1.5	1.07	1/2"	REFER TO 1-5
ETHYLENE 40% GLYCOL	23	5.2	2.5	2.21	1/2"	REFER TO 1-5

1. PROVIDE FORGED BRASS BALL VALVE WITH STAINLESS STEEL TRIM. COORDINATE CONNECTION TYPE WITH CONTRACTOR PRIOR TO SHOP REVIEW.
2. PROVIDE TWO-WAY PROPORTIONAL CONTROL WITH EQUAL PERCENTAGE FLOW CHARACTERISTICS.
3. PROVIDE 24V TRANSFORMER.
4. PROVIDE SPRING RETURN, VALVES TO FAIL OPEN.
5. CONTROLS CONTRACTOR TO VERIFY VALVE SELECTION, SUBMIT SHOP DRAWINGS FOR REVIEW.

1 AHU-1 CONTROL
SCALE: NTS



- NOTES:
1. THE DEPTH OF THE SEAL SHALL BE A MINIMUM OF THE AIR HANDLING UNIT. TOTAL STATIC PRESSURE IN INCHES OF WATER PLUS 1".
 2. MANUALLY PRIME FILL TRAP PRIOR TO START-UP OF UNIT.

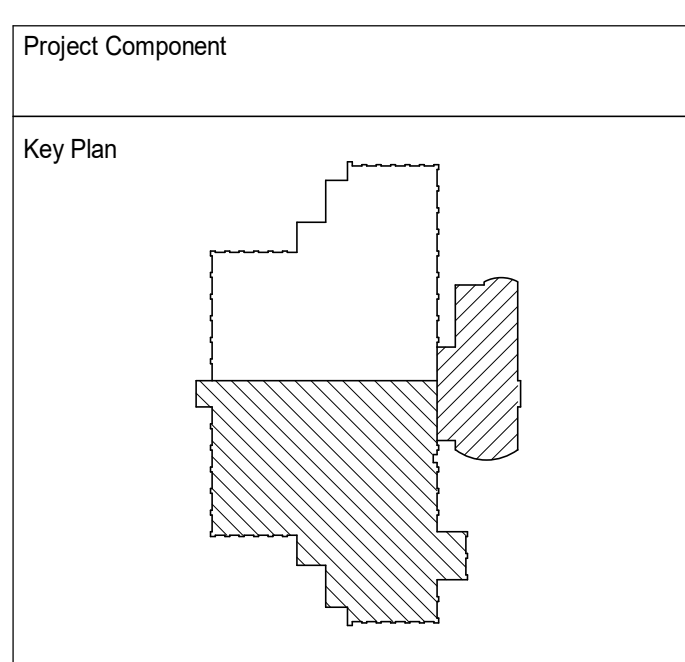
COOLING COIL DRAIN TRAP DETAIL

AIR HANDLER UNIT OPERATION (AHU-1)

- AIR HANDLER UNIT OPERATION (AHU-1)**
- 1. SYSTEM START:**
THE START SHALL BE INITIATED BY OPERATOR COMMAND AT THE BAS OR THROUGH TIME SCHEDULE. UPON SIGNAL TO START THE SYSTEM SUPPLY AND RETURN FAN SHALL START. UNIT'S INTERNAL CONTROLS SHALL BE ENABLED. AFTER THE OUTSIDE AIR DAMPER (OAD) COMMAND TO OPEN IS SENT, THE OAD WILL OPEN AND UNIT WILL START WHEN THE OUTSIDE AIR DAMPER END SWITCH (OAD-ES) HAS PROVEN OPEN STATUS. UPON SIGNAL TO START THE SYSTEM RETURN FANS SHALL START WITH THE VARIABLE FREQUENCY DRIVES (VFDs) AT MINIMUM POSITION. THE SUPPLY FANS SHALL BE STARTED WITH A SPECIFIED TIME DELAY WITH THE VFDs AT MINIMUM POSITION.
 - ii. NORMAL OPERATION:**
 1. THE SUPPLY FAN AND RETURN FAN SHALL RUN CONTINUOUSLY IN THE OCCUPIED MODE (TO BE COORDINATED WITH THE CLIENT).
 2. THE SUPPLY AIR STATIC PRESSURE CONTROL LOOP SHALL MAINTAIN THE SUPPLY AIR STATIC SET POINT BY MODULATING THE SUPPLY FAN VARIABLE SPEED DRIVE. THE STATIC PRESSURE SENSOR SHALL BE LOCATED APPROXIMATELY 2/3 OF THE TOTAL SUPPLY FAN RUN. THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE AIR BALANCING CONTRACTOR TO DETERMINE THE MINIMUM STATIC PRESSURE SET POINT TO MEET THE DESIGN AIRFLOW.
 3. THE FAN TRACKING CONTROL LOOP SHALL MAINTAIN THE SET-POINT VOLUME BETWEEN THE SUPPLY AIR AND RETURN BY MODULATING THE RETURN FAN VARIABLE SPEED DRIVE. THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE AIR BALANCING TO MAINTAIN THE FIXED DIFFERENTIAL AIR VOLUME.
 4. THE OUTSIDE, RELIEF AND RETURN AIR DAMPERS WILL OPERATE IN MINIMUM POSITION AND MODULATE AS REQUIRED TO INTERFACE WITH THE FAN TRACKING CONTROL LOOP. THE MOTORIZED DAMPER FOR EACH SHALL BE INTERLOCKED TO OPEN WHEN THE FAN STARTS. THE END SWITCH SHALL START THE FAN WHEN THE DAMPER PROVES OPEN.
 5. THE BAS SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND ENABLE AND MODULATE THE COOLING AND HEATING OPERATION AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SET POINT. THE CHILLED WATER AND GLYCOL CONTROL VALVES SHALL MODULATE TO MAINTAIN THE SUPPLY AIR DISCHARGE TEMPERATURE. THE SUMMER OPERATION SAT IS 54F (ADJ.) AND THE WINTER SAT IS 58F (ADJ.).
 6. SHOULD HIGH STATIC PRESSURE SWITCH LOCATED AFTER THE SUPPLY FAN DETECT SUPPLY PRESSURE HIGHER THAN SET-POINT, THE SYSTEM SHALL BE SHUT DOWN.
 7. THE HUMIDIFIER SHALL BE ENABLED WHEN THE RETURN AIR SPECIFIC HUMIDITY IS LESS THAN THE SUPPLY AIR SPECIFIC HUMIDITY SET POINT.
 8. THE OUTSIDE AIR DAMPER SHALL BE SET TO THE MINIMUM POSITION TO ALLOW FOR 40% OF THE SUPPLY AIR TO BE OUTSIDE AIR. THE RELIEF DAMPER SHALL BE SET TO THE MINIMUM POSITION TO ALLOW FOR 21% OF THE RETURN AIR TO BE RELIEVED. THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE AIR BALANCING CONTRACTOR TO DETERMINE THE MINIMUM DAMPER POSITIONS.
 - iii. SPACE SET POINTS**
 1. OCCUPIED SET POINT: 72F HEATING, 75F COOLING.
 - iv. AIR SIDE ECONOMIZER MODE:**
 1. IN ECONOMIZER MODE, THE BAS CONTROLS SHALL MODULATE THE OUTSIDE AIR, RETURN AIR DAMPER, AND EXHAUST AIR DAMPER TO MAINTAIN SET-POINT. THE ECONOMIZER SHALL OPERATE WHEN THE OUTSIDE AIR DRY BULB TEMPERATURE IS LESS THAN THE SUPPLY AIR SET POINT.
 - v. UNOCCUPIED MODE:**
 1. THE SYSTEM IS SHUT DOWN. THERE ARE NO OFF-HOUR OPERATIONS. THE BAS SHALL DISABLE THE HEATING COILS.
 - vi. SYSTEM STOP:**
 1. THE SYSTEM STOP IS INITIATED BY THE OPERATOR COMMAND AT THE BAS OR THROUGH TIME SCHEDULE. UPON SIGNAL TO STOP THE SYSTEM, THE SUPPLY AND RETURN FANS SHALL STOP. THE OUTSIDE AIR DAMPER SHALL CLOSE.
 - vii. SCHEDULE:**
 1. TO BE DETERMINED BY THE OWNER
 - viii. ALARMS:**
 1. SUPPLY FAN FEEDBACK FROM VFD.
 2. RETURN FAN FEEDBACK FROM VFD.
 3. SUPPLY AIR TEMPERATURE OUT OF RANGE.
 4. FILTER DIFFERENTIAL PRESSURE OUT OF RANGE.
 5. HIGH TEMPERATURE LIMIT IN SUPPLY TEMPERATURE.
 6. SUPPLY AND RETURN FAN TO ALARM ON FAILURE TO MATCH COMMAND AS INDICATED IN THE VFD OR DROP IN AMPERAGE TO 70% OF NORMAL DRAW (ADJUSTABLE).

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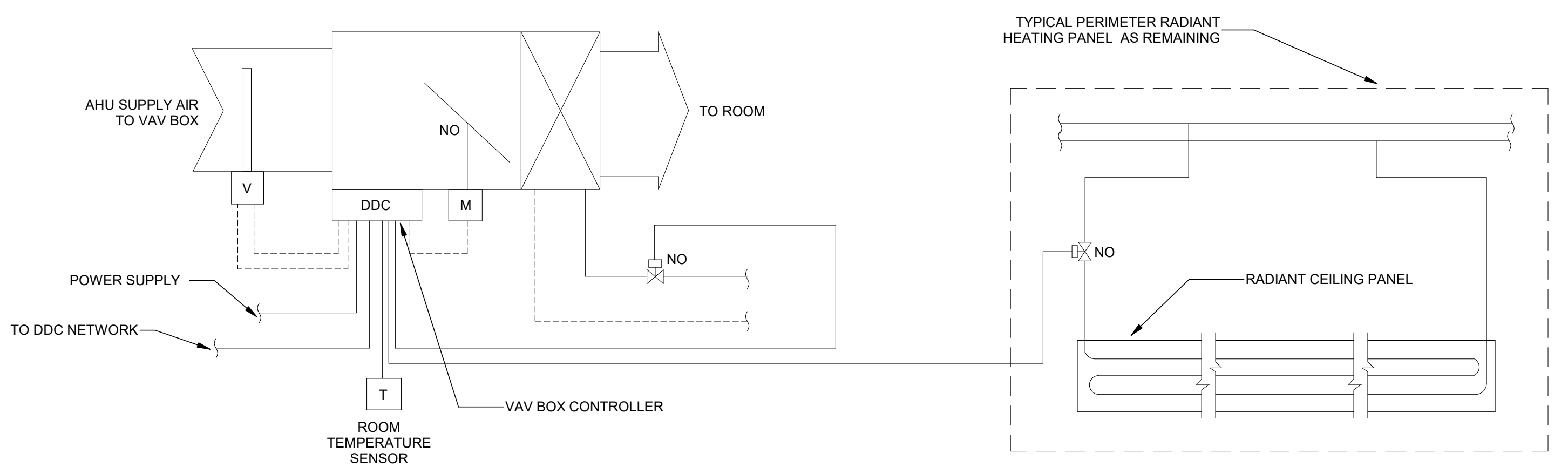
Project Manager	Drawn
B. Colburn	F. PAN
Project Leader	Checked
J. Brock	D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
220 Fort Street
Port Huron, MI
48060

Drawing Title
AHU-1 CONTROL DIAGRAM & DETAIL

Scale	NTS
Project No.	JCDT23-0185
Drawing No.	M60-01



VAV BOX & PERIMETER HEATING CEILING PANEL SEQUENCE OF OPERATION:

- THE SUPPLY AIR TERMINAL UNIT MINIMUM AND MAXIMUM AIR FLOWS ARE INDICATED IN RELEVANT VAV BOX SCHEDULES.
- AS THE ROOM TEMPERATURE FALLS BELOW THE SETPOINT, THE VAV BOX CONTROLLER SHALL KEEP THE SUPPLY AIR AT THE MINIMUM SETTING, AND SHALL MODULATE ASSOCIATED REHEAT COIL CONTROL VALVE AND PERIMETER RADIATION PANEL CONTROL VALVE IN UNISON TO MAINTAIN ROOM TEMPERATURE SETPOINT.
- AS THE ROOM TEMPERATURE RISES ABOVE THE SETPOINT, THE VAV BOX CONTROLLER SHALL KEEP THE REHEAT COIL CONTROL VALVE AND PERIMETER RADIANT PANEL CONTROL VALVES CLOSED AND SHALL MODULATE THE SUPPLY AIR FLOW BETWEEN ITS MINIMUM AND MAXIMUM SETTING TO MAINTAIN ROOM TEMPERATURE.
- ROOM TEMPERATURE SET POINTS THROUGH THE BAS:

UNOCCUPIED	HEATING 70 °F	COOLING 76°F
OCCUPIED	65 °F	80°F
- EACH VAV BOX DDC CONTROLLER SHALL AUTOMATICALLY RECALIBRATE ITS AIRFLOW SENSOR ONCE A WEEK.

1
M60-02
VAV BOX & PERIMETER HEATING CEILING PANEL CONTROL DIAGRAM
SCALE: N.T.S.

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Design Lead	Drawn F. PAN
Project Leader	Checked Checker

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Project
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Port Huron, MI 48060

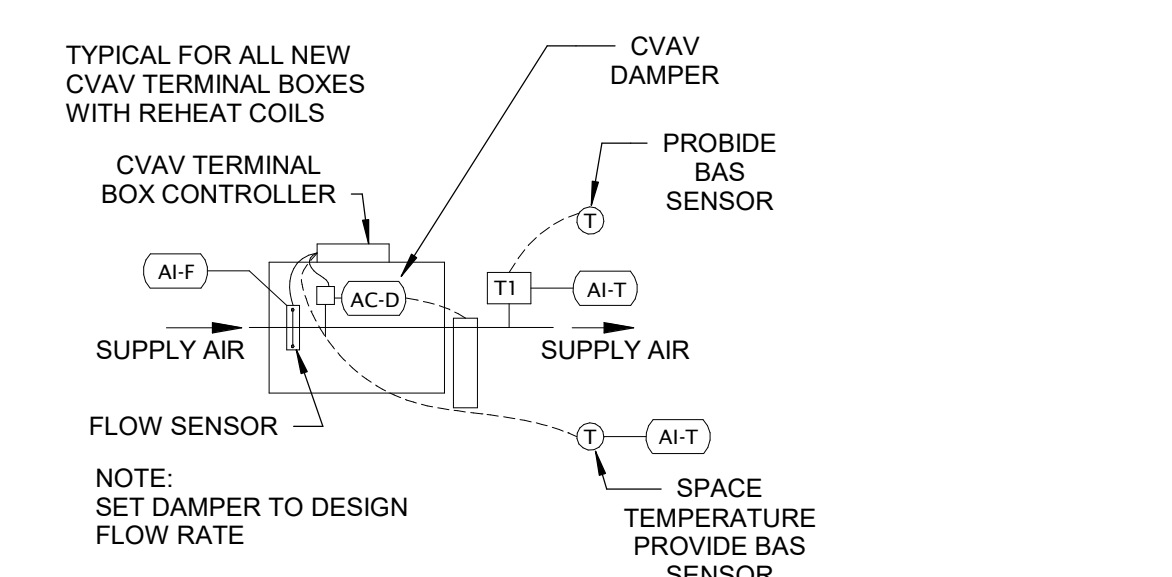
Drawing Title
CONTROL DIAGRAMS

Scale N.T.S.
Project No. JCDT23-0185
Drawing No. M60-02

PRELIMINARY - NOT FOR CONSTRUCTION

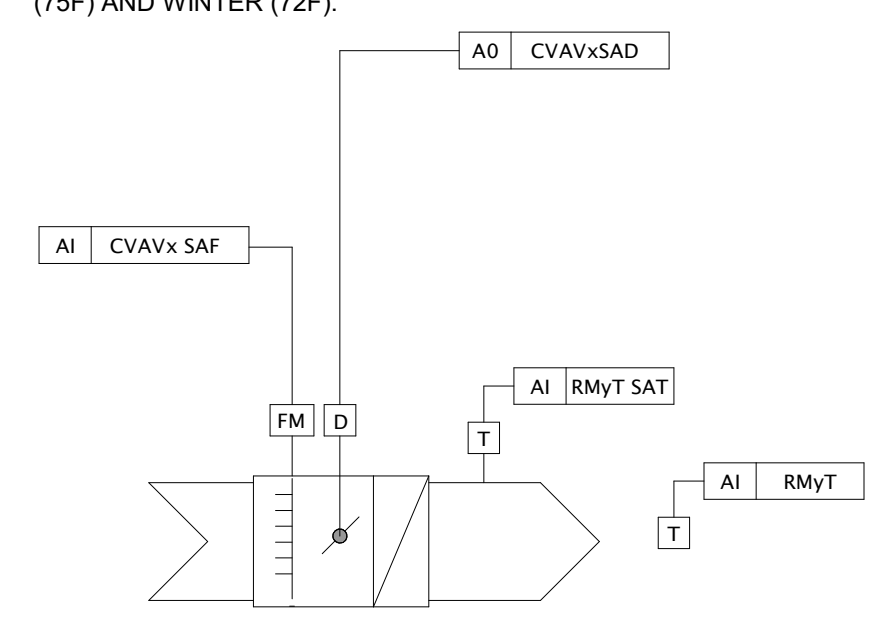
BUILDING AUTOMATION SYSTEM (BAS) NOTES:

- PROVIDE NEW EQUIPMENT WITH BAS COMPATIBILITY WITH EXISTING HONEYWELL ENTERPRISE BUILDINGS INTEGRATOR, RELEASE 500.1
- THE HVAC EQUIPMENT CONTROL CONTROLLERS SHALL BE CABLED TO A COMPATIBLE FIELD CONTROLLER.
- THE BAS CONTROLLERS SHALL UTILIZE THE BUILDING SYSTEMS NETWORK TO COMMUNICATE WITH THE SYSTEM HEAD-END AND BACK-END SERVERS AND WORKSTATIONS.
- THE BAS SHALL BE CONNECTED TO THE VFDs VIA ETHERNET.



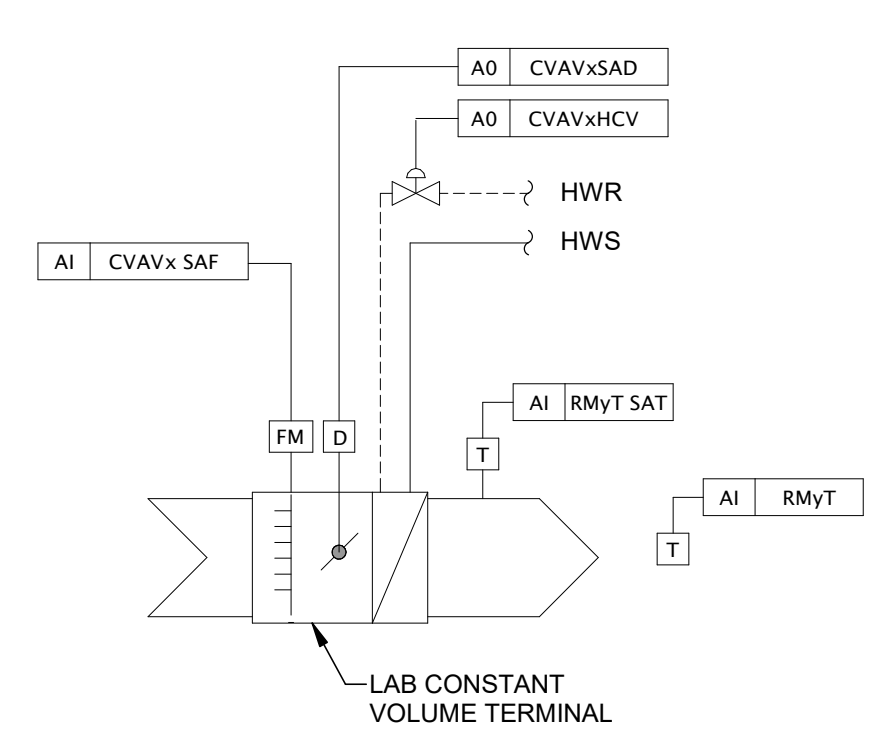
TYPICAL CONSTANT AIR VOLUME TERMINAL:

SEQUENCE OF OPERATION:
THE CVAV TO BE SEQUENCED WITH THE AHU-1 SCHEDULE OF OPERATION AS PROGRAMMED THROUGH THE BAS. THE ROOM TEMPERATURE SENSOR SHALL CONTROL THE HEATING COIL TO MAINTAIN THE SPACE TEMPERATURE SET POINT IN THE SUMMER (75F) AND WINTER (72F).



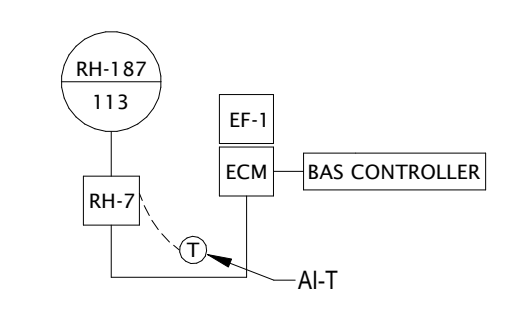
TYPICAL VARIABLE AIR VOLUME TERMINAL WITH ELECTRIC HEAT

SEQUENCE OF OPERATION:
THE VAV TO BE SEQUENCED WITH THE AHU-1 SCHEDULE OF OPERATION AS PROGRAMMED THROUGH THE BAS. THE ROOM TEMPERATURE SENSOR SHALL CONTROL MODULATE THE VAV AIRFLOW TO MAINTAIN SPACE TEMPERATURE. WHEN THE VAV SET POINT REACHES THE MINIMUM FLOW, THE HEATING COIL SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT IN THE SUMMER (75F) AND WINTER (72F).



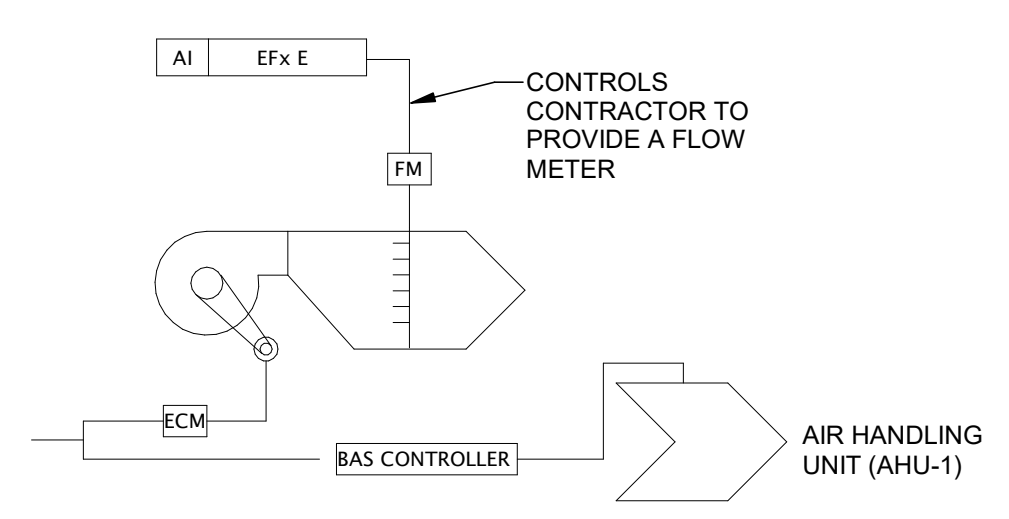
LAB CONSTANT AIR VOLUME TERMINAL AND EXHAUST FAN CONTROL DIAGRAM:

SEQUENCE OF OPERATION:
THE LAB EXHAUST FAN SHALL BE INTERLOCKED WITH AHU-1 SCHEDULE OF OPERATION AS PROGRAMMED THROUGH THE BAS. THE CONSTANT VOLUME TERMINAL AND EXHAUST FAN SHALL BE BALANCED TO ALLOW FOR A 20% AIRFLOW DIFFERENTIAL BETWEEN THE SUPPLY AND EXHAUST TRACKED BY THE CVAV AND EF FLOW METER. THE ROOM TEMPERATURE SENSOR SHALL CONTROL THE CVAV HEATING COIL TO MAINTAIN THE SPACE TEMPERATURE SET POINT IN THE SUMMER (75F) AND WINTER (72F).



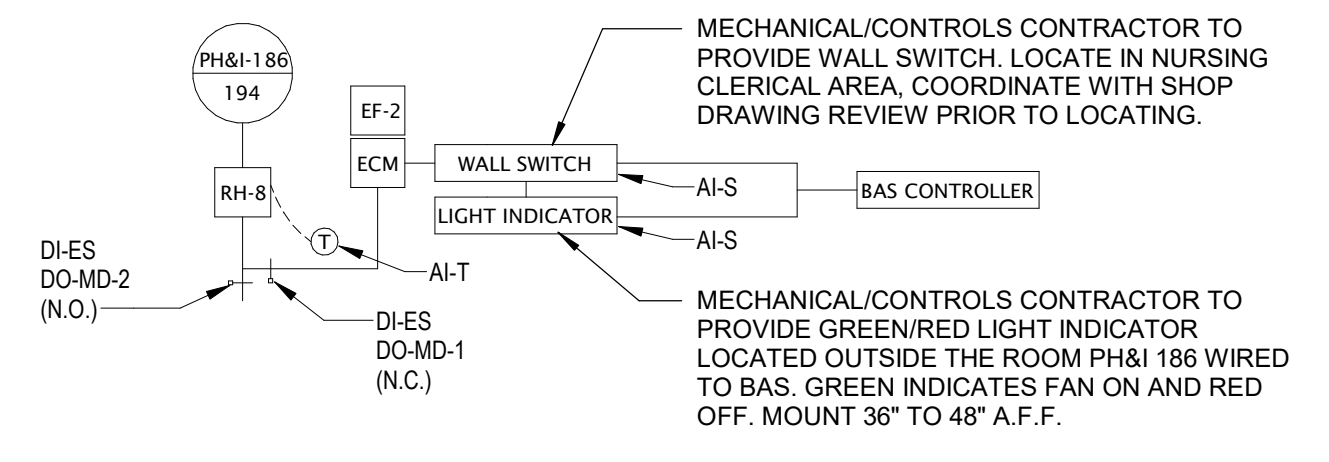
NEEDLE ROOM EXHAUST FAN:

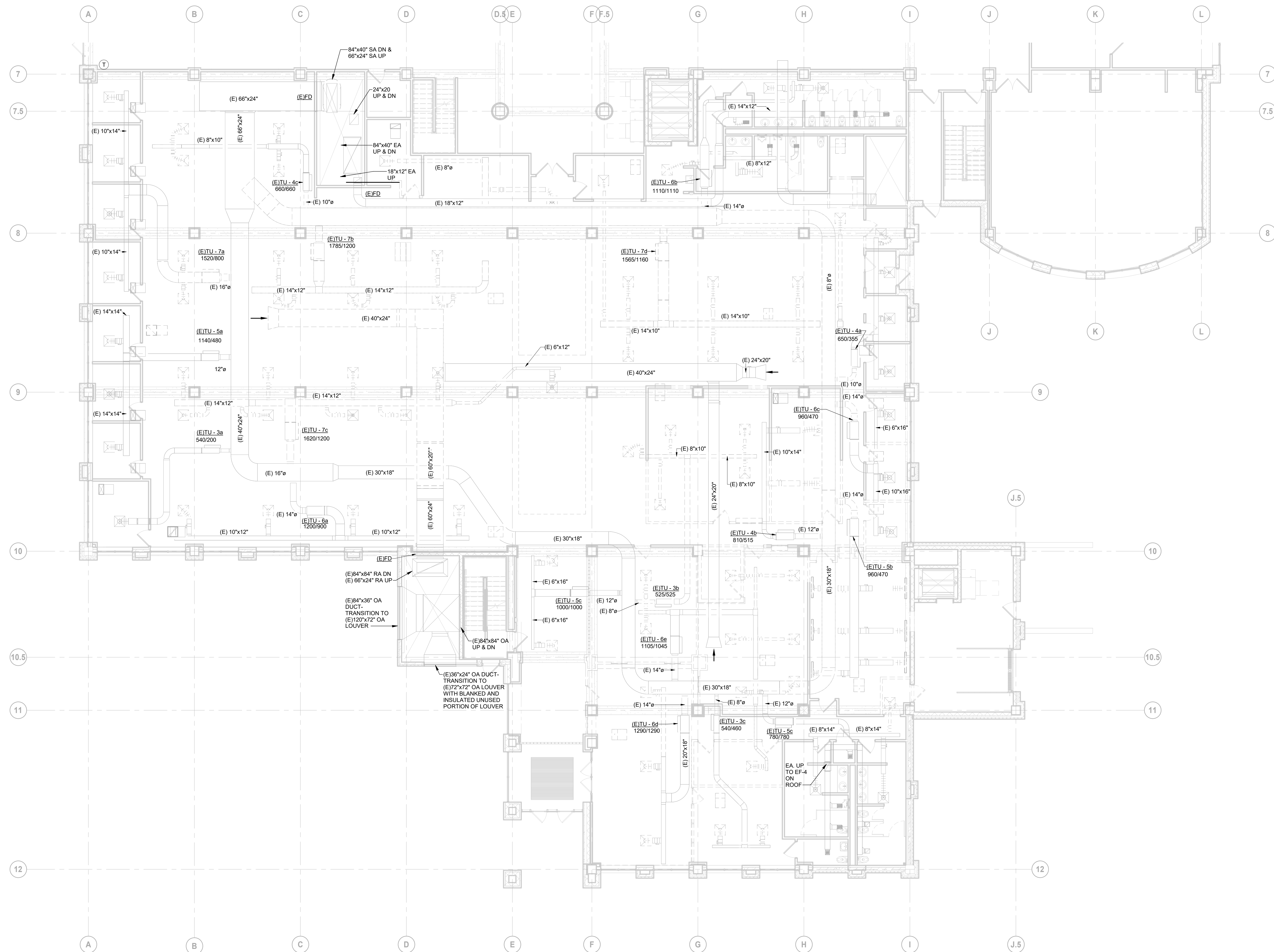
SEQUENCE OF OPERATION:
THE EXHAUST FAN SHALL BE INTERLOCKED WITH AHU-1 SCHEDULE OF OPERATION AS PROGRAMMED THROUGH THE BAS. THE ROOM TEMPERATURE SENSOR SHALL CONTROL THE HEATING COIL TO MAINTAIN THE SPACE TEMPERATURE SET POINT IN THE SUMMER (75F) AND WINTER (72F).



ISOLATION ROOM EXHAUST FAN:

SEQUENCE OF OPERATION:
THE EXHAUST FAN SHALL BE HARD WIRED TO A WALL SWITCH AND MONITORED BY THE BAS. WHEN THE FAN IS ON, THE MOTORIZED DAMPER MD-1 SHALL PROVE OPEN AND MD-2 SHALL PROVE CLOSE BEFORE STARTING THE FAN. WHEN THE FAN IS ON, THE LIGHT INDICATOR OUTSIDE THE ROOM WILL INDICATE GREEN (ON) AND RED (OFF) AND MONITORED BY THE BAS. THE ROOM TEMPERATURE SENSOR SHALL CONTROL THE HEATING COIL TO MAINTAIN THE SPACE TEMPERATURE SET POINT IN THE SUMMER (75F) AND WINTER (72F).





GENERAL DRAWING NOTE:

- BREAK LINES TO INDICATE THE STUFF TO BE DEMOLISHED. CONTRACTOR TO CLEAN & CHECK REMOVED SQUARE DIFFUSERS, BALANCING DAMPERS & VAV BOXES, AND RE-USED FOR NEW WORK IF THEY ARE IN GOOD CONDITION.
- SOLID LINED TO INDICATED THE STUFF TO REMAIN IN PLACE INTACT, TO BE RE-USED FOR NEW WORK.

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Project Component

Key Plan

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- Interiors:
- Landscape:

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
**SOUTH WING - LEVEL 1
 HVAC DEMOLITION PLAN**

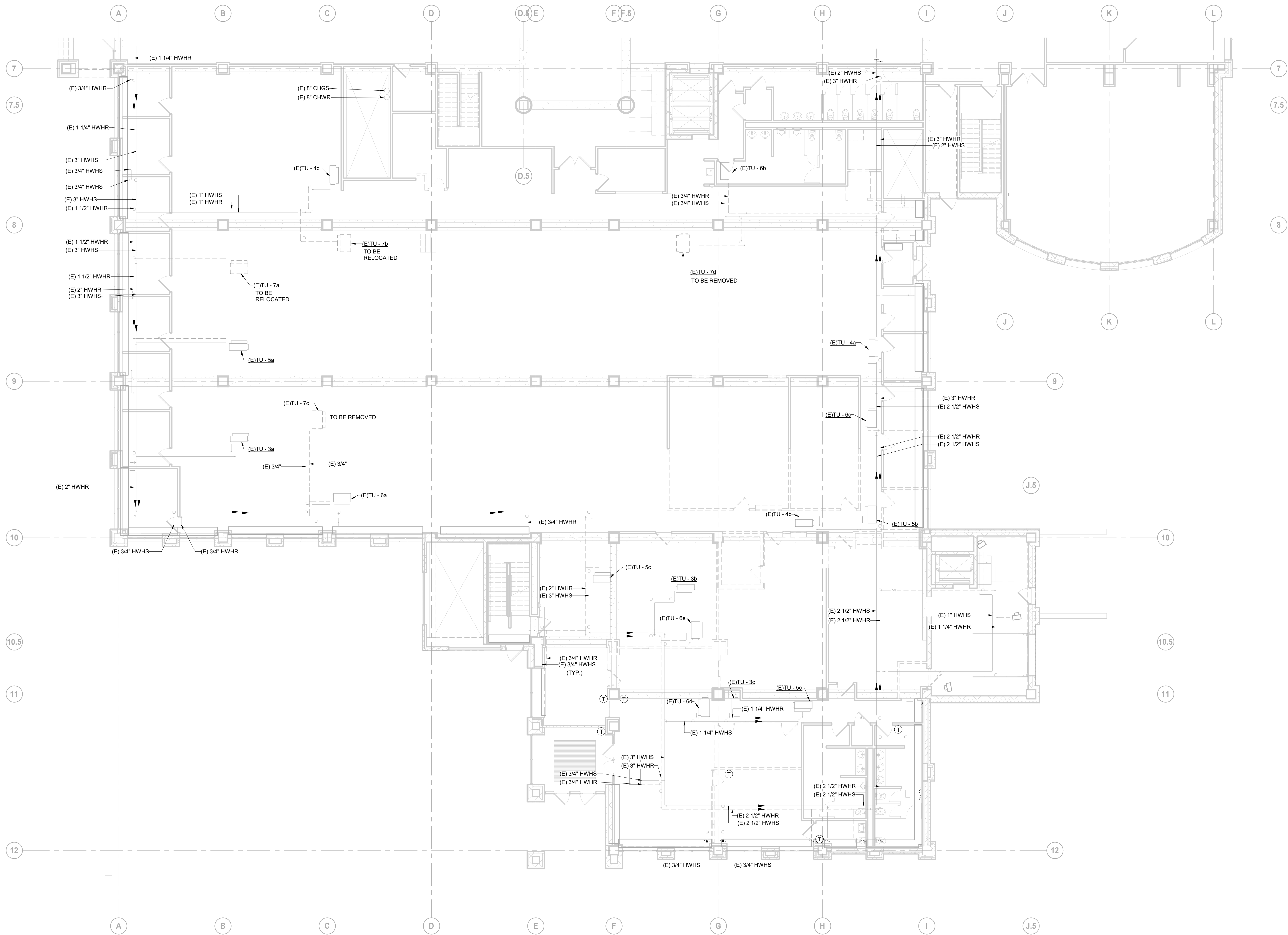
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Project No.
JCDT23-0185

Drawing No.
M 80-11

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1 SOUTH WING - LEVEL 1 HVAC DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



GENERAL NOTES FOR HYDRONIC PIPING DEMOLITION WORK:

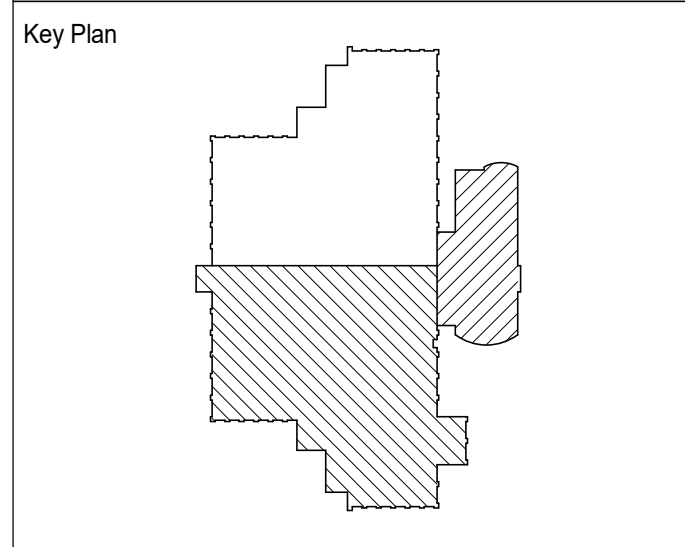
1. ALL EXISTING PERIMETER RADIANT HEATING PANELS & ASSOCIATED PIPING & CONTROLS TO REMAIN IN PLACE INTACT.
2. HEATING WATER SUPPLY & RETURN PIPING SERVING RHEAT COIL AT EXISTING VAV BOX TO BE RELOCATED TO SUIT THE NEW LOCATION OF RE-USED VAV BOX IF APPLIED.
3. ALL EXISTING ENTRANCE HEATING UNITS & ASSOCIATED PIPING TO REMAIN.
4. REMOVE HYDRONIC PIPING & ASSOCIATED ACCESSORIES AND CAP FOR ANY DEMOLISHED REHEAT COIL SERVING DEDICATED EXISTING VAV BOX.

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Project Manager B. Colburn	Drawn F. PAN
Project Leader J. Brock	Checked D. DOVAS

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Drawing Title
**SOUTH WING - LEVEL 1
HVAC PIPING DEMOLITION PLAN**

Scale
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Project No.
JCDT23-0185

Drawing No.
M 80-12

SOUTH WING - LEVEL 1 HVAC PIPING DEMOLITION PLAN

1
M 80-12
SCALE: 1/8" = 1'-0"

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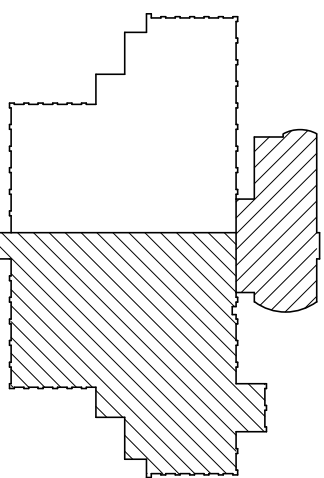
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Project Component

Key Plan

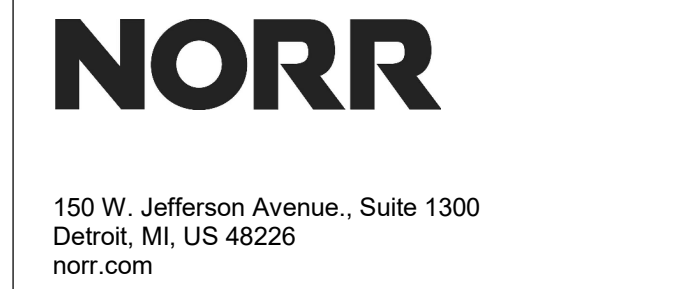


Consultants

- Survey:
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- Architecture:
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- Mechanical:
- Electrical:
- Interiors:
- Landscape:

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2



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Project Leader J. Brock	Checked D. DOVAS

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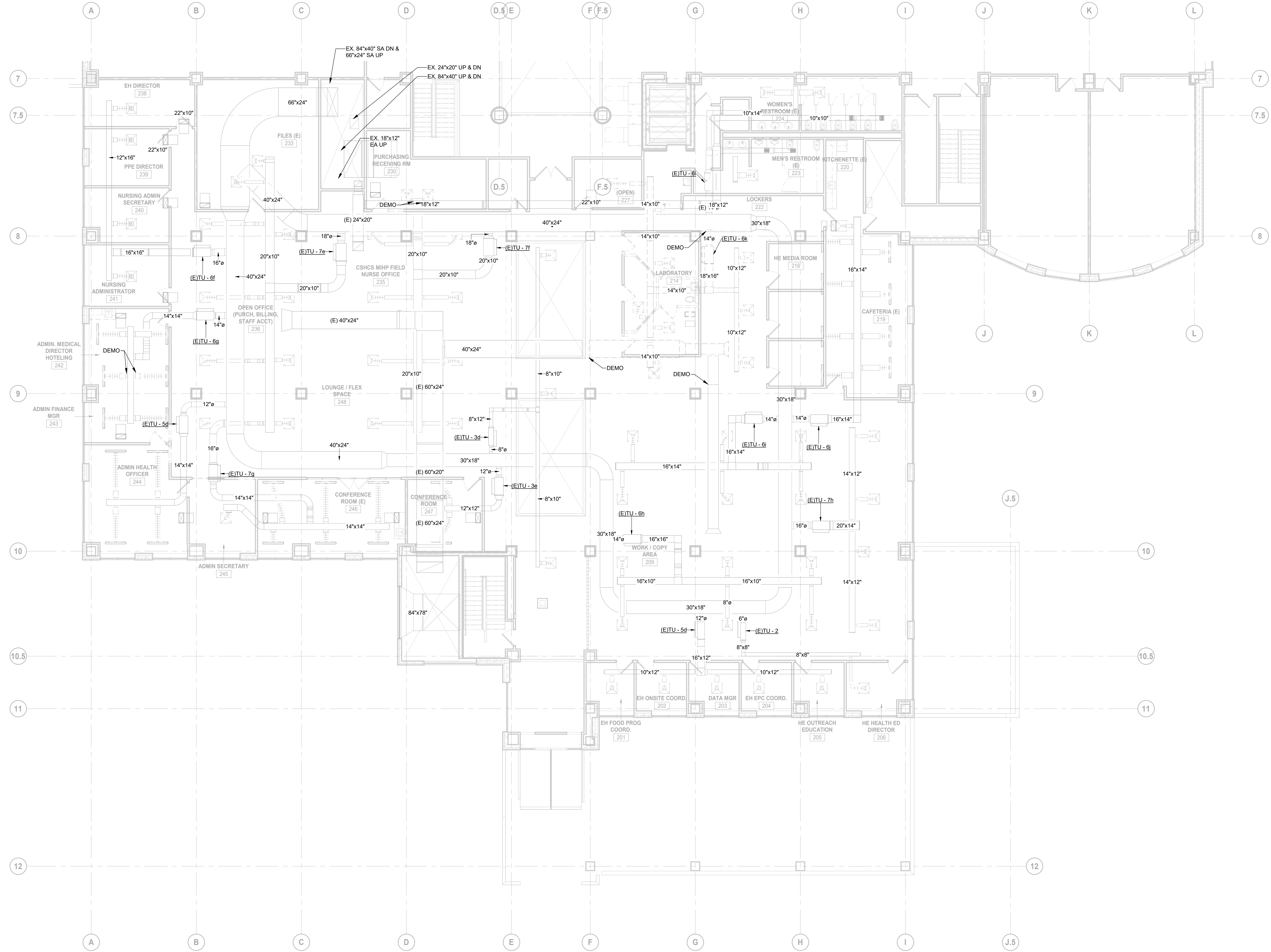
Project
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Drawing Title
**SOUTH WING - LEVEL 2
HVAC DEMOLITION PLAN**

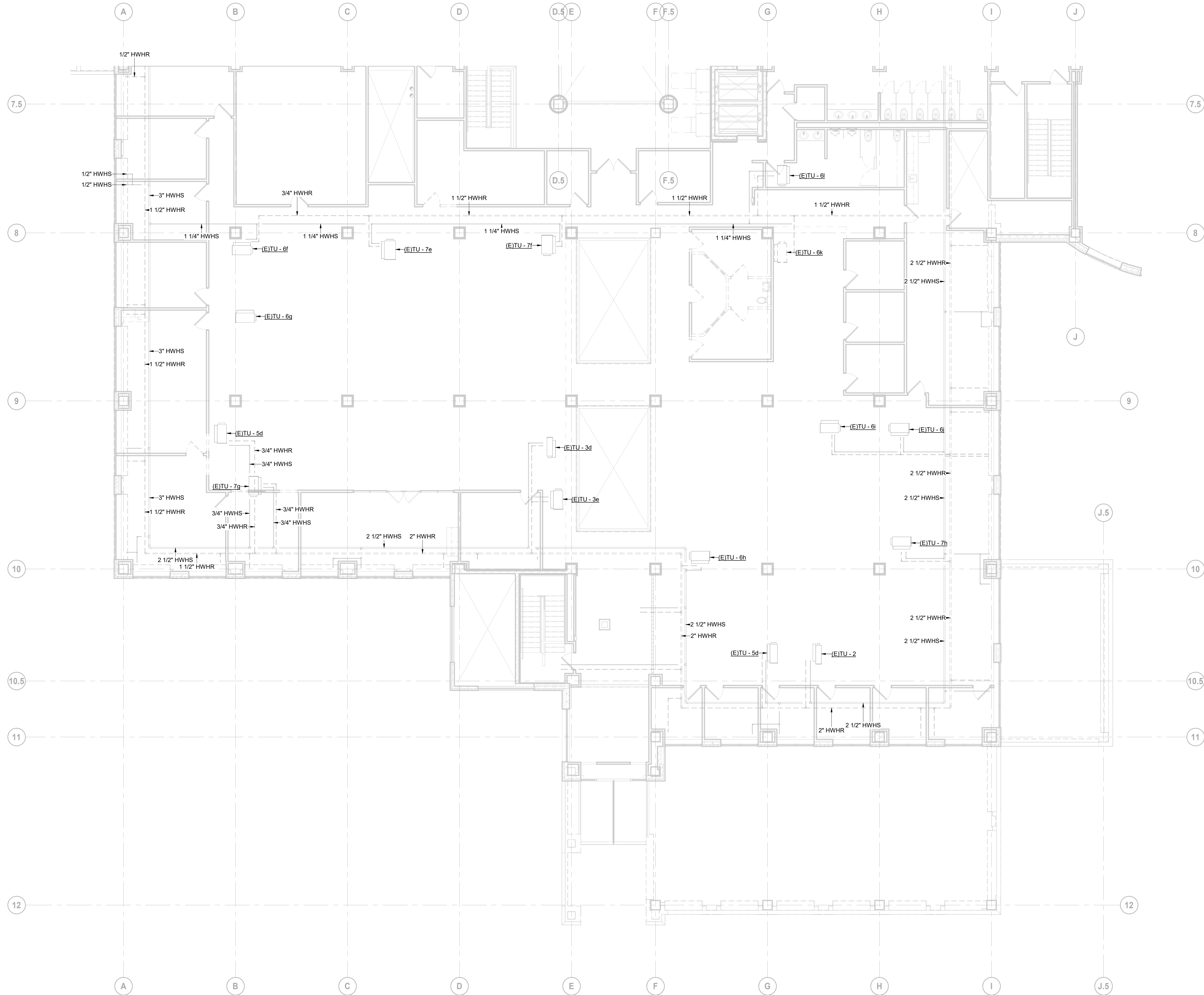
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Drawing No.
M 80-13



1 SOUTH WING - LEVEL 2 HVAC DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



1
M 80-14
SOUTH WING - LEVEL 2 HYDRONIC DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

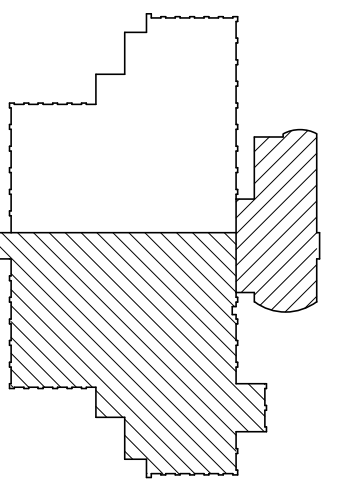
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Project Leader J. Strick	Checked D. DOVAS

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Drawing Title
SOUTH WING - LEVEL 2 HVAC PIPING DEMOLITION PLAN

Scale
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Drawing No.
M 80-14

PLUMBING GENERAL NOTES

- PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. PLUMBING DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.
- ALL PIPING AND EQUIPMENT SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY.
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. APPLICABLE PLUMBING CODE IS THE 2018 NATIONAL STANDARD PLUMBING CODE. CONFORM TO APPLICABLE BUILDING CODES AND THE OWNER'S INSURANCE AGENCY. PROCURE ALL LICENSES, PERMITS, CERTIFICATIONS, AND AGENCY APPROVALS PRIOR TO COMMENCING FABRICATION OR INSTALLATION. PROVIDE ALL REQUIRED DOCUMENTS, CALCULATIONS AND DRAWINGS.
- PLUMBING SYSTEMS SHALL NOT BE LOCATED IN ELEVATOR SHAFTS AND ELEVATOR PIT ROOMS EXCEPT FLOOR DRAINS, SUMP PUMPS AND SUMP PUMP DISCHARGE PIPING DEDICATED TO THE SHAFT AND LOCATED AT THE BASE OF THE SHAFT.
- PLUMBING SYSTEMS SHALL NOT BE LOCATED IN ELECTRICAL EQUIPMENT ROOMS, TRANSFORMER VAULT, ELECTRICAL CLOSETS, TELE DATA ROOMS OR SIMILAR AREAS CONTAINING ELECTRICAL EQUIPMENT.
- DO NOT INSTALL PIPING OVER, AROUND, IN FRONT OF, BEHIND OR DIRECTLY BELOW ELECTRICAL EQUIPMENT, SWITCHES, TERMINALS OR SIMILAR ELECTRICAL EQUIPMENT. MAINTAIN 42" IN FRONT OF 480VAC EQUIPMENT. 36" IN FRONT OF 240VAC EQUIPMENT. CONFORM TO NEC.
- NO PLUMBING SYSTEMS SHALL PENETRATE INTO OR PASS THROUGH STAIRWAYS UNLESS IT IS FOR SERVICING THE STAIRWAY.
- INSTALL PIPING IN A CONCEALED MANNER. STRAIGHT, AND PLUMB FORM RIGHT ANGLES PARALLEL WITH BUILDING WALLS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER. PIPE WILL BE LOCATED TO PERMIT ACCESS FOR SERVICE VALVES.
- CONCRETE PADS AND PITS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY FLOW, STATIC AND RESIDUAL PRESSURE BE PERFORMING A HYDRANT FLOW TEST OF THE EXISTING STREET MAIN AT THE POINT OF NEW CONNECTION OR AS CLOSE AS POSSIBLE.
- COORDINATE PLUMBING SYSTEM SHUT DOWN REQUIREMENTS WITH OWNER. NOTIFY OWNER A MINIMUM 00 48 HOURS PRIOR TO SYSTEM SHUT DOWN.
- NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ONLY CAST IRON PIPING FOR SANITARY AND VENTING SHALL BE INSTALLED IN PLENUM SPACES. THE PLUMBING CONTRACTOR SHALL VERIFY / COORDINATE THE EXACT PLENUM SPACES WITH THE HVAC PLANS AND CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- CHECK ARCH, ELEC, MECHANICAL, & FP DRAWINGS FOR WORK SHOWN TO BE DONE BY PC.
- COORDINATE PLUMBING WORK WITH OTHER DISCIPLINES. SEE SPECIFICATIONS FOR INFORMATION REGARDING COORDINATION DRAWINGS. PROVIDE DEDUCTIONS FOR ANY OWNER AGREED REDUCTIONS IN PIPING RUNS. COORDINATE ROUGH-IN INFORMATION WITH FIXTURES AND EQUIPMENT SUPPLIERS. COORDINATE PLUMBING FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS.
- COORDINATE ALL BELOW GRADE PLUMBING PIPING WITH FOUNDATION ELEVATIONS AND SITE UTILITY INVERTS. VERIFY EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
- PROVIDE PIPING PENETRATIONS WITH FIRE RATINGS EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED. COORDINATE PIPE PENETRATIONS WITH CONCRETE CONSTRUCTION. PROVIDE CORE DRILLED PENETRATIONS AT ALL LOCATIONS WHERE CONCRETE OR MASONRY WALLS OR FLOORS HAVE BEEN CONSTRUCTED PRIOR TO PLUMBING PIPING INSTALLATION. CORING SIZES AND LOCATIONS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER. EXTEND SLEEVES 2" ABOVE FLOOR SLAB IN ALL WET AREAS SUCH AS MECHANICAL ROOMS AND WASH AREA.
- PROVIDE FLUSH TYPE ACCESS DOORS OR PANELS FOR ALL VALVES OR APPARATUS LOCATED IN CHASES, WALLS, NON ACCESSIBLE CEILINGS OR FLOOR.
- PROVIDE CLEANOUTS FOR ALL HORIZONTAL SANITARY PIPING AT EVERY CHANGE IN DIRECTION AND AT THE BASE OF ALL STACKS.
- PROVIDE PIPE IDENTIFICATION LABELS WITH DIRECTIONAL FLOW ARROWS ON ALL HORIZONTAL RUNS EVERY 20ft.
- PROVIDE TRAP PRIMERS WITH 1/2" PIPING FOR ALL FLOOR DRAINS.
- SUPPORT ALL PIPING IN CONFORMANCE WITH SPECIFICATIONS AND THE PLUMBING CODE. SEE PLUMBING CODE FOR SPACING REQUIREMENTS. CONFORM TO THE BUILDING CODE AND MSS SP-127 FOR SEISMIC, WIND AND DYNAMIC FORCES
- PROVIDE BACKFLOW PREVENTION DEVICES ON ALL WATER CONNECTIONS TO HVAC EQUIPMENT AND IRRIGATION SYSTEMS
- PROVIDE WATER HAMMER ARRESTORS ON SUPPLY LINES TO FLUSH VALVES, SOLENOID VALVES AND AUTOMATIC VALVES, IN CONFORMANCE WITH PDI AND LOCAL ORDINANCES. INSTALL IN ACCESSIBLE LOCATIONS FOR MAINTENANCE.
- PROVIDE SHUT-OFF VALVES WITHIN 2ft. OF MAINS ON ALL BRANCH PIPING SERVING PLUMBING FIXTURES, EQUIPMENT OR CASEWORK. CONNECT SERVICE BRANCHES TO TOP OF MAINS.
- PROVIDE DRAIN VALVES AND HOSE CONNECTIONS AT ALL LOW POINTS IN SERVICE PIPING SYSTEM.
- SLOPE ALL PIPING IN CONFORMANCE WITH SPECIFICATIONS AND THE PLUMBING CODE.
- PROVIDE CLOSED CELL MOLDED VINYL INSULATION ON EXPOSED LAVATORY DRAINS AND SUPPLIES FOR HANDICAPPED.
- PROVIDE PIPING MATERIAL IN CONFORMANCE WITH THE SPECIFICATIONS AND THE PLUMBING CODE.
- TEST ALL PLUMBING SYSTEMS IN CONFORMANCE WITH THE SPECIFICATIONS AND THE PLUMBING CODE.
- DISINFECT DOMESTIC WATER SYSTEM IN CONFORMANCE WITH THE SPECIFICATIONS AND THE PLUMBING CODE
- INSTALL PLUMBING FIXTURES AND EQUIPMENT IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE PLUMBING CODE
- PROVIDE PIPE SLEEVES THROUGH CONCRETE BEAMS WHERE REQUIRED, COORDINATE WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- PROVIDE HEAT TRACING FOR PIPING LOCATED IN UNHEATED AREAS. PROVIDE 1" INSULATION AND JACKET AROUND ALL HEAT TRACING.
- PROVIDE RETENTION STRAPES ON ALL ABOVE & BELOW GROUND CAST IRON NO-HUB FITTINGS AT CHANGE OF DIRECTION IN PIPES OF 5" AND LARGER AS REQUIRED BY CISPI 301.
- THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THE ARCHITECTURAL REFLECTED CEILING, ELEVATION AND SECTION PLANS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION SUCH AS CEILING HEIGHTS, TYPES, SOFFITS AND OR OTHER DEVICE LOCATIONS.
- THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THE ELECTRICAL DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF LIGHT, AND CEILING MOUNTED DEVICES WHICH MAY INTERFERE WITH SPRINKLER HEAD LOCATIONS OR SPRAY PATTERNS.
- THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THE HVAC DIVISION DRAWINGS AND COORDINATE THE FIRE PROTECTION WORK WITH LOCATIONS OF CEILING MOUNTED DEVICES SUCH AS DIFFUSERS, GRILLS, REGISTERS, AND ALSO THE LOCATIONS OF HEAT PRODUCING EQUIPMENT AND DUCTWORK REQUIRING SPRINKLER PROTECTION BELOW IT.
- CONTRACTOR SHALL PROVIDE NEW ANGLE STOP VALVES AND SUPPLIES FOR ALL LAVATORY LOCATIONS. CONTRACTOR SHALL PROVIDE NEW ISOLATION VALVES FOR WATER CLOSETS AND SHOWER LOCATIONS TO BE LOCATED ABOVE CEILING.
- CONTRACTOR SHALL FIRE STOP ALL PIPE PENETRATIONS LOCATED IN BATHROOM RATED WALLS.

PLUMBING LEGEND

COLD WATER PIPE	----		
HOT WATER PIPE	----		
HOT WATER RETURN PIPE	----		
SANITARY PIPE	----		
VENT PIPE	----		
SERVICE SYSTEM PIPE	----		
X = SYSTEM ABBR (E)X = EXISTING SYSTEM	X		
G = NATURAL GAS <2PSIG			
2G = NATURAL GAS (2PSIG)			
RWC = RAINWATER / STORM WATER			
2-WAY VALVE		GLOBE VALVE	
3-WAY VALVE		GRADE CLEANOUT	
ACCESS PANEL		HOSE BIBB	
AIR ADMITTANCE VALVE		HOT WATER RETURN VALVES	
ANGLE VALVE			0.5 GPM
BACKFLOW PREVENTER (BALL DOUBLE CHECK)		INLINE PUMP	
BACKFLOW PREVENTER (GATE DBLE CHECK)		NEEDLE VALVE	
BACKFLOW PREVENTER (RPZ)		PLUG VALVE	
BALANCING VALVE		PRV	
BALL VALVE (2-PIECE)		RELIEF VALVE	
BALL VALVE (3-PIECE)		ROOF DRAIN	
BUTTERFLY VALVE		SOLENOID VALVE	
CAP		STRAINER	
CHECK VALVE		THERMOMETER	
CLEANOUT		UNION	
FLOOR CLEANOUT		WALL HYDRANT	
FLOOR DRAIN		WHA / SA	
GATE VALVE			

STANDARD PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	HW	DOMESTIC HOT WATER
AD	AREA DRAIN	HWR	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
AFG	ABOVE FINISHED GRADE	IN WC	INCH WATER COLUMN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	KW	KILOWATT
APPROX	APPROXIMATE	KWH	KILOWATT HOUR
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	LPG	LIQUID PROPANE GAS
AV	ACID VENT	LV	LAVATORY
AW	ACID WASTE	MAUJ	MAKEUP AIR UNIT
BAS	BUILDING AUTOMATION SYSTEM	MAX	MAXIMUM
BFP	BACKFLOW PREVENTER	MBH	1000 BTUH
BT	BATHTUB	MIN	MINIMUM
BTUJ	BRITISH THERMAL UNIT PER HOUR	MOCPP	MAXIMUM OVERCURRENT PROTECTION
BTUH	BRITISH THERMAL UNIT PER HOUR	MS	MIXING VALVE
BWV	BACK WATER VALVE	MV	MIXING VALVE
CA	COMPRESSED AIR	N	NITROGEN
CB	CATCH BASIN	NC	NORMALLY CLOSED
CFH	CUBIC FEET PER HOUR	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NITROUS OXIDE
CI	CAST IRON	NOM	NOMINAL
CO	CLEAN OUT	NTS	NOT TO SCALE
CO2	CARBON DIOXIDE	OCP	OVER CURRENT PROTECTION
CP	CIRCULATION PUMP	OD	OVERFLOW DRAIN
CW	DOMESTIC COLD WATER	OI	OIL INTERCEPTOR
DF	DRINKING FOUNTAIN	PC	PLUMBING CONTRACTOR
DI	DEIONIZED WATER	PRV	PRESSURE REGULATING VALVE
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DN	DOWN	RD	ROOF DRAIN
DS	DOWNSPOUT	RH	ROOF HYDRANT
DSN	DOWNSPOUT NOZZLE	RO	REVERSE OSMOSIS
EC	ELECTRICAL CONTRACTOR	RPZ	REDUCED PRESSURE ZONE VALVE
ET	EXPANSION TANK	RTU	ROOF TOP UNIT
EWC	ELECTRIC WATER COOLER	S	SANITARY
EWH	ELECTRIC WATER HEATER	SI	SOLIDS INTERCEPTOR
EX	EXISTING	SK	SINK
F	FAHRENHEIT	SK	SOFT WATER
FCO	FLOOR CLEAN OUT	SPEC	SPECIFICATION
FD	FLOOR DRAIN	SQ FT	SQUARE FOOT (FEET)
FFE	FINISHED FLOOR ELEVATION	ST	STORM PIPING
FLA	FULL LOAD AMPERES	TD	TRENCH DRAIN
FS	FLOOR SINK	TEMP	TEMPERATURE
FT	FEET	TMV	THERMOSTATIC MIXING VALVE
FW	FILTERED WATER	TP	TRAP PRIMER
G	GAS	UH	UNIT HEATER
GCO	GRADE CLEAN OUT	UR	URNAL
GW/H	GAS FIRED WATER HEATER	VAC	VACUUM
GPR	GREASE INTERCEPTOR	VFD	VARIABLE FREQUENCY DRIVE
GPD	GALLONS PER DAY	VP	VACUUM PUMP
GPH	GALLONS PER HOUR	VTR	VENT THRU ROOF
GPM	GALLONS PER MINUTE	WAGD	WASTE ANESTHESIA GAS
GPR	GAS PRESSURE REGULATOR	WB	WASHER BOX
GW	GREASE WASTE	WC	WATER CLOSET
H&CW	HOT & COLD WATER	WCO	WALL CLEAN OUT
HB	HOSE BIBB	WH	WALL HYDRANT
HC	HVAC CONTRACTOR	WF	WATER FILTER
HD	HUB DRAIN	YH	YARD HYDRANT
HP	HORSEPOWER		

GENERAL NOTES

- GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
- PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTIONS IN EFFECT ON THE DATE BIDS ARE RECEIVED.
- WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, AIR, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR OTHERS, THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

4

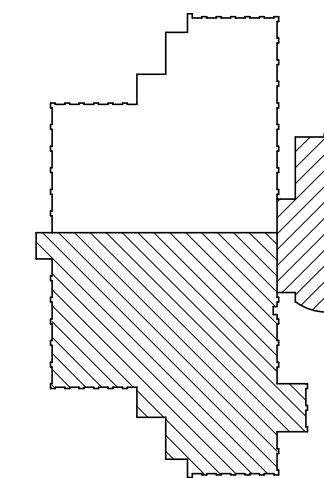
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3

Project Component

Key Plan



Consultants

- Survey:
- Civil:
- Architecture:
- Structural:
- Mechanical:
- Electrical:
- Interiors:
- Landscape:

Seal(s)

2

NORR

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Detroit, MI, US 48226
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Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation

220 Fort Street
Port Huron, MI
48060

Drawing Title
COVER SHEET - PLUMBING

Scale
1/8" = 1'-0"

Project No.
JCDT23-0185

Drawing No.
P00-01

PLUMBING SHEET LIST	
P00-01	COVER SHEET - PLUMBING
P00-02	PLUMBING SCHEDULES
P00-03	PLUMBING DETAILS
P20-00	SOUTH WING - BASEMENT PLUMBING PLAN
P20-01	SOUTH WING - LEVEL 1 PLUMBING PLAN
P20-02	SOUTH WING - LEVEL 2 PLUMBING PLAN
P50-01	DOMESTIC WATER RISER DIAGRAM
P50-02	SANITARY AND VENT PLUMBING RISER DIAGRAM

PLUMBING FIXTURE SCHEDULE			
TAG NO.	MANUFACTURER	MODEL NUMBER	REMARKS AND SPECIFICATIONS
MS-1	FIAT PRODUCTS	MSB 2424	MOP SINK. 24" X 24" X 10" MOLDED-STONE MOP SERVICE BASIN. SERVICE FAUCET (830-AA): CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. CHICAGO FAUCETS 897-RCF M ANNUAL SINK FAUCETS.
SK-1	WILSONAR	AV1513	EXAM ROOM SINK. STAINLESS STEEL SINK WITH AMERICAN STANDARD MODEL NUMBER 206B.105 SENSOR OPERATED PROXIMITY DECK MOUNTED HARD WIRED AND BATTERY BACK-UP FAUCET. "P" TRAP: 1-1/2". PVC HUB, HUB AND CLEANOUT PLUG. PROVIDE 3/8" ANGLE SUPPLIES WITH STOP. PLUMBER SHALL PROVIDE ALL NECESSARY APPURTENANCES. INSTALL THERMOSTATIC MIXING VALVE SIMILAR TO LFUSG-B-M2.
SK-2	WILSONAR	BD1630	LABORATORY ROOM SINK. DOUBLE EQUAL SINK, WITH CHICAGO FAUCET 8452-ABCP. EYEWASH FAUCET WITH PUSH PADDLE HANDLE, DECK MOUNTED 3/8" COMPRESSION INLET. "P" TRAP: 1-1/2". PVC HUB, HUB AND CLEANOUT PLUG. PROVIDE 3/8" ANGLE SUPPLIES WITH STOP. PLUMBER SHALL PROVIDE ALL NECESSARY APPURTENANCES. INSTALL THERMOSTATIC MIXING VALVE SIMILAR TO LFUSG-B-M2.
WC-1	KOHLER	K-4325	WALL MOUNTED WATER CLOSET. VITREOUS CHINA WITH ELONGATED BOWL. EQUIP WITH SLOAN FLUSHMATER-SLOAN VALVE COMPANY. 1.28 GPF (4.8.0 LPF). INCLUDE K-4650 ELONGATED TOILET SEAT. PROVIDE SIPHON JET : ZURN 1201-NR4, CARRIER: ZURN 1201NL4.
LAV-1	GREENWHICH	K-2032-N	RESTROOM SINK. VITREIOUS CHINA LAVATORY. SINGLE BOWL WALL MOUNTED ELECTRONIC WITH AMERICAN STANDARD MODEL NUMBER 605B.205 PROXIMITY LAVATORY FAUCET, HARD WIRED WITH BATTERY BACK-UP. INSTALL THERMOSTATIC MIXING VALVE SIMILAR TO LFUSG-B-M2 UNDER SINK GUARDIAN. FURNISH AND INSTALL "BROCAR" #C500R-B TRAP WRAP
P-1	LITTLE GIANT	VCL-45ULS	CONDENSATE PUMP: STAINLESS STEEL SHAFT, POLYPROPYLENE IMPELLER.FLOW ACTIVATED OVERFLOW DETECTION SWITCH WITH DUAL FUNCTION "NO" AND "NC" OPERATION. THERMALLY PROTECTED MOTOR (PSC) WITH MAXIMUM WATER TEMPERATURE 120 DEGREES F. FURNISH WITH CHECK VALVE, 380 GPH FLOW 15 FT. HEAD, 1/5 HP, 3.5 AMPS, 185 WATTS, 115/1/60
P-2	LITTLE GIANT	HT-VCL-30-P	HIGH TEMPERATURE CONDENSATE PUMP: STAINLESS STEEL MOTOR SHAFT, FLOW ACTIVATED OVERFLOW DETECTION SWITCH, MAXIMUM WATER TEMPERATURE 212 DEGREES F. FURNISH WITH BRASS CHECK VALVE. 275 GPH FLOW 15 FT. HEAD, 1/8 HP, 1.4 AMPS, 134 WATTS, 115/1/60. COMPLIANT TO UL 2043.
FD-2	ZURN	1870	HUB DRAIN: TYPE 304 STAINLESS HUB DRAIN, MEETS U.S. FDA STANDARD FOR CORROSION RESISTENCE.
FD-1	WADE	9013-LF-64-EG8	FLOOR DRAIN: 8" ROUND X 6" DEEP, WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME STRAINER, 3" PIPE SIZE, NO HUB, TRAP PRIMER TAPPING AND 4" X 9" OVAL NICKEL BRONZE FUNNEL.

SUPPLY FIXTURE UNITS			
TAG NO.	QUANTITY	RATE (GPM)	TOTAL GPM
MS-1	1	3	3
SK-1	21	1.75	36.75
SK-2	3	1.75	5.25
WC-1	2	25	50
LAV-1	2	0.24	0.48
FD-1	2	0	0
TOTAL			95.48

DRAINAGE FIXTURE UNITS			
TAG NO.	QUANTITY	FIXTURE UNIT RATE	TOTAL DFU
MS-1	1	2	2
SK-1	21	2	42
SK-2	3	2	6
WC-1	2	4	8
LAV-1	2	1	2
FD-1	2	2	4
TOTAL			64

CONNECTION SIZE			
TAG NO.	DOMESTIC WATER		SANITARY
	DCW	DHW	SAN
MS-1	3/4"	3/4"	2"
SK-1	3/4"	3/4"	1 1/2"
SK-2	3/4"	3/4"	1 1/2"
WC-1	1"	-	4"
LAV-1	3/4"	3/4"	1 1/4"
FD-1	-	-	2"

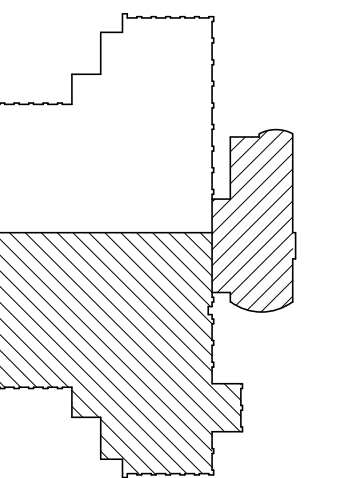
DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Project Component

Key Plan



Consultants

Survey:
Civil:
Architecture:
Structural:
Mechanical:
Electrical:
Interiors:
Landscape:

Seal(s)

NORR

150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
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Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation

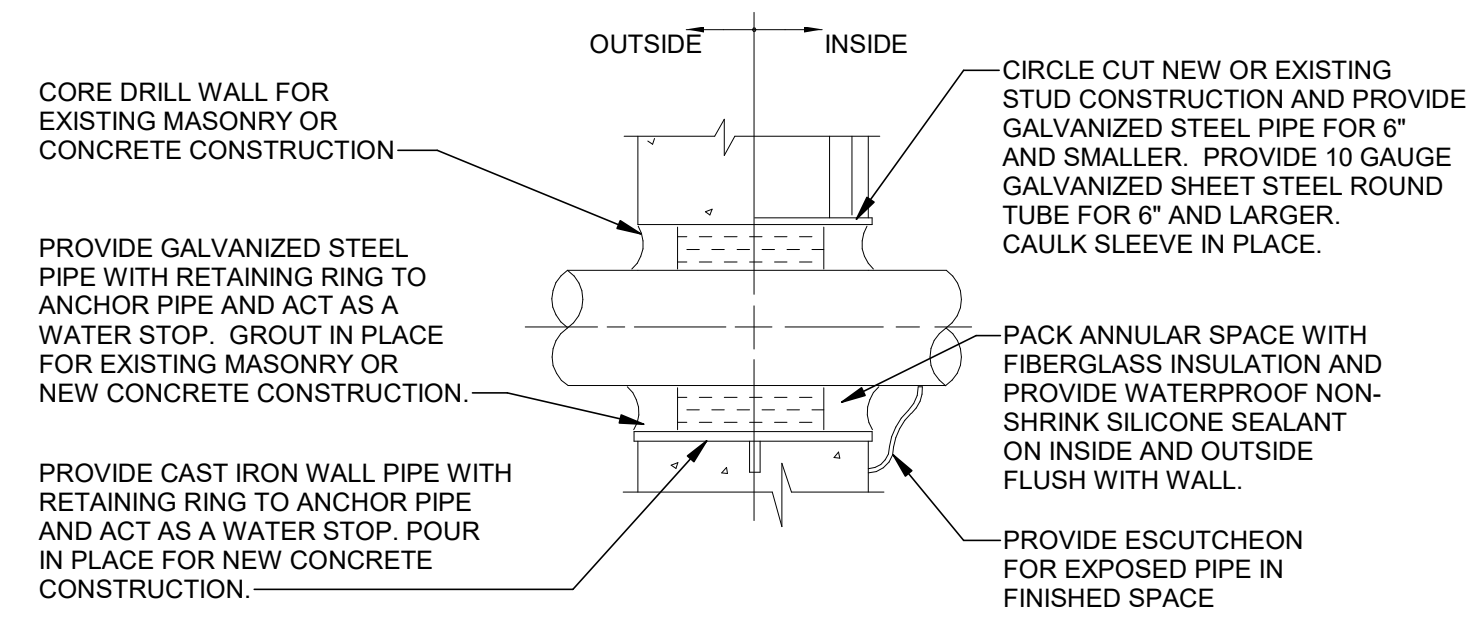
220 Fort Street
Port Huron, MI
48060

Drawing Title
PLUMBING SCHEDULES

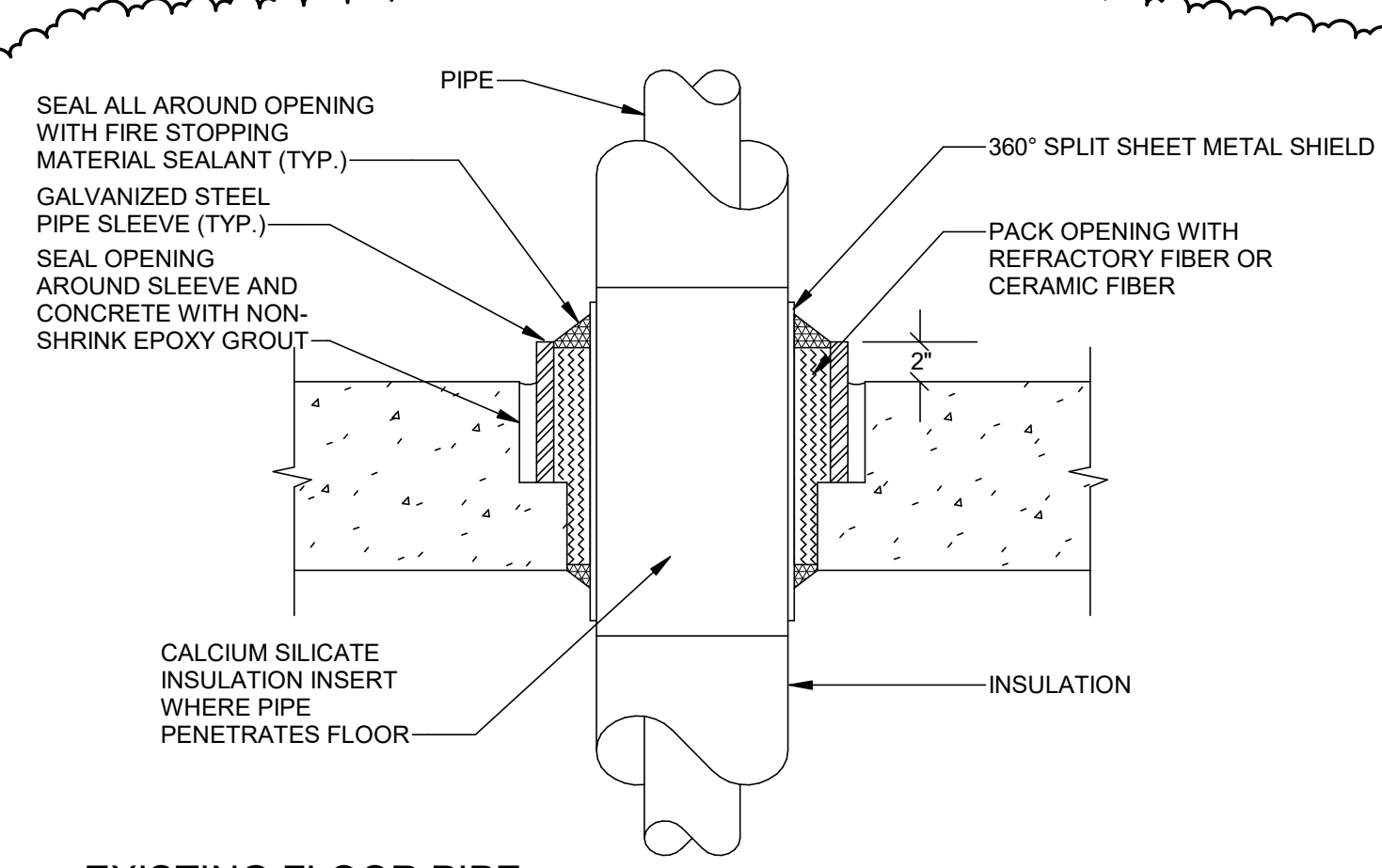
Scale

Project No.
JCDD23-0185

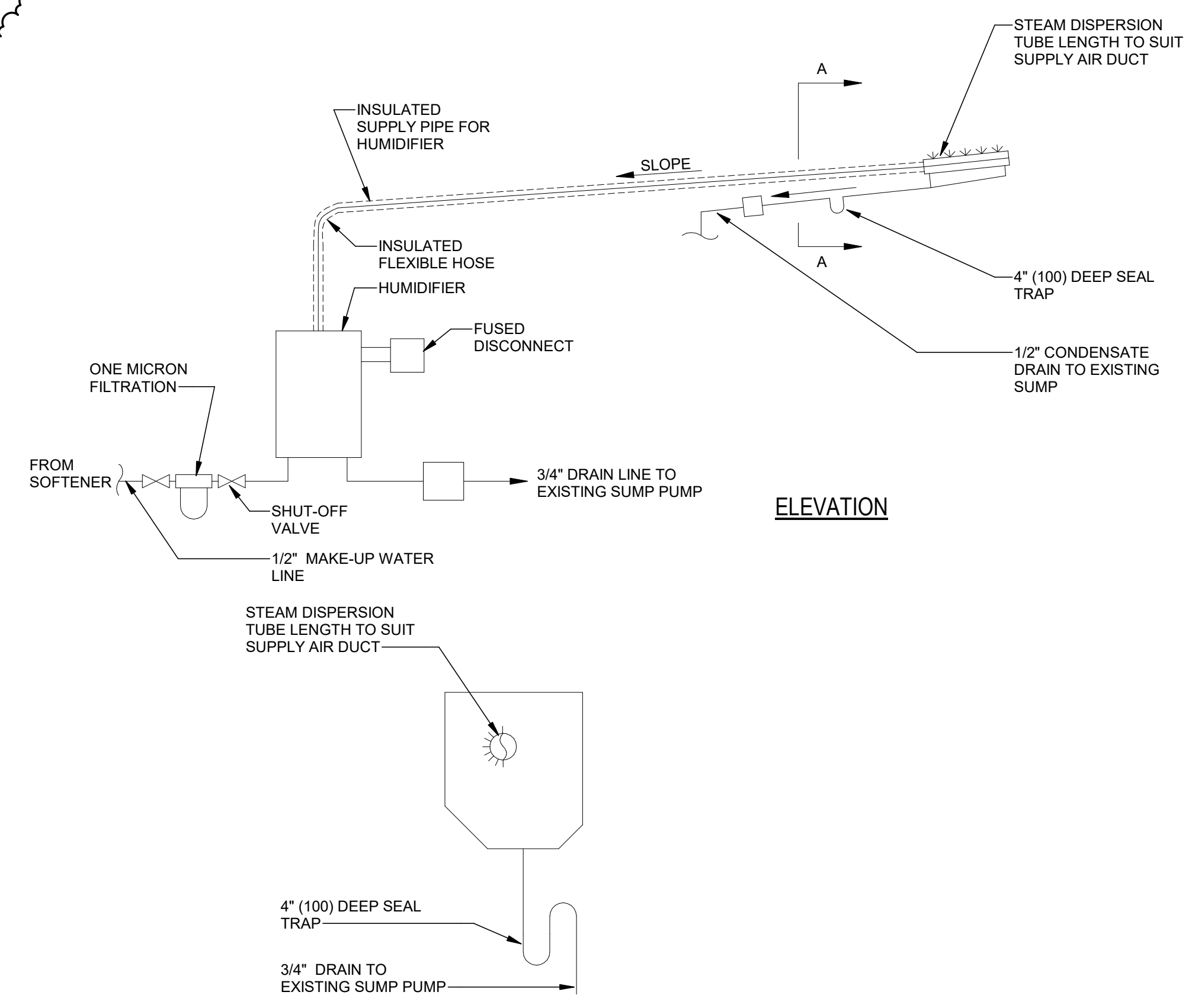
Drawing No.
P00-02



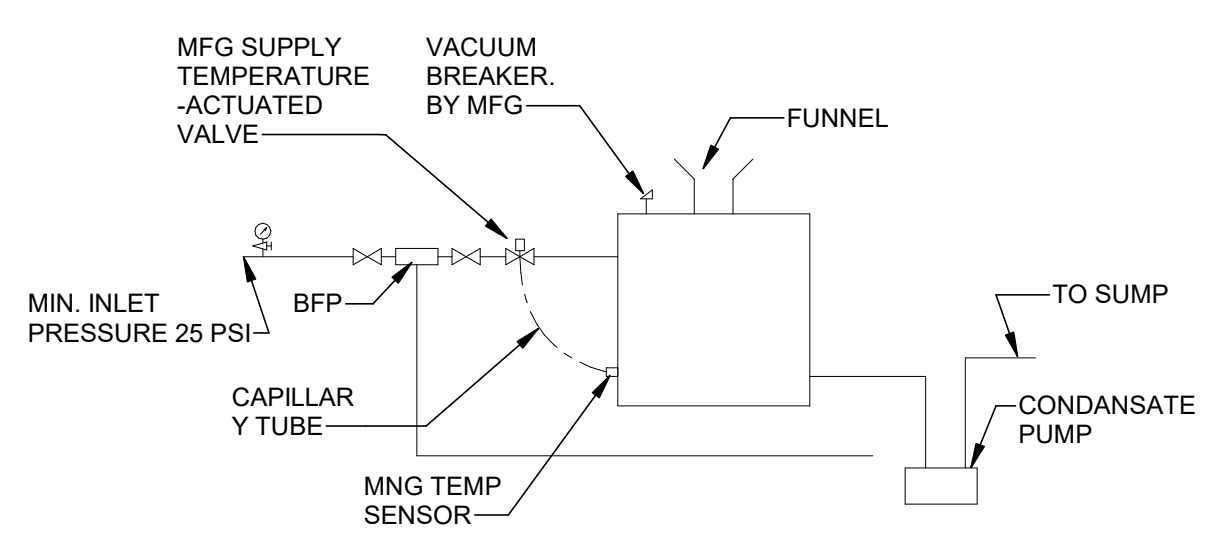
WALL PENETRATION DETAIL
N.T.S.



EXISTING FLOOR PIPE PENETRATION DETAIL
N.T.S.

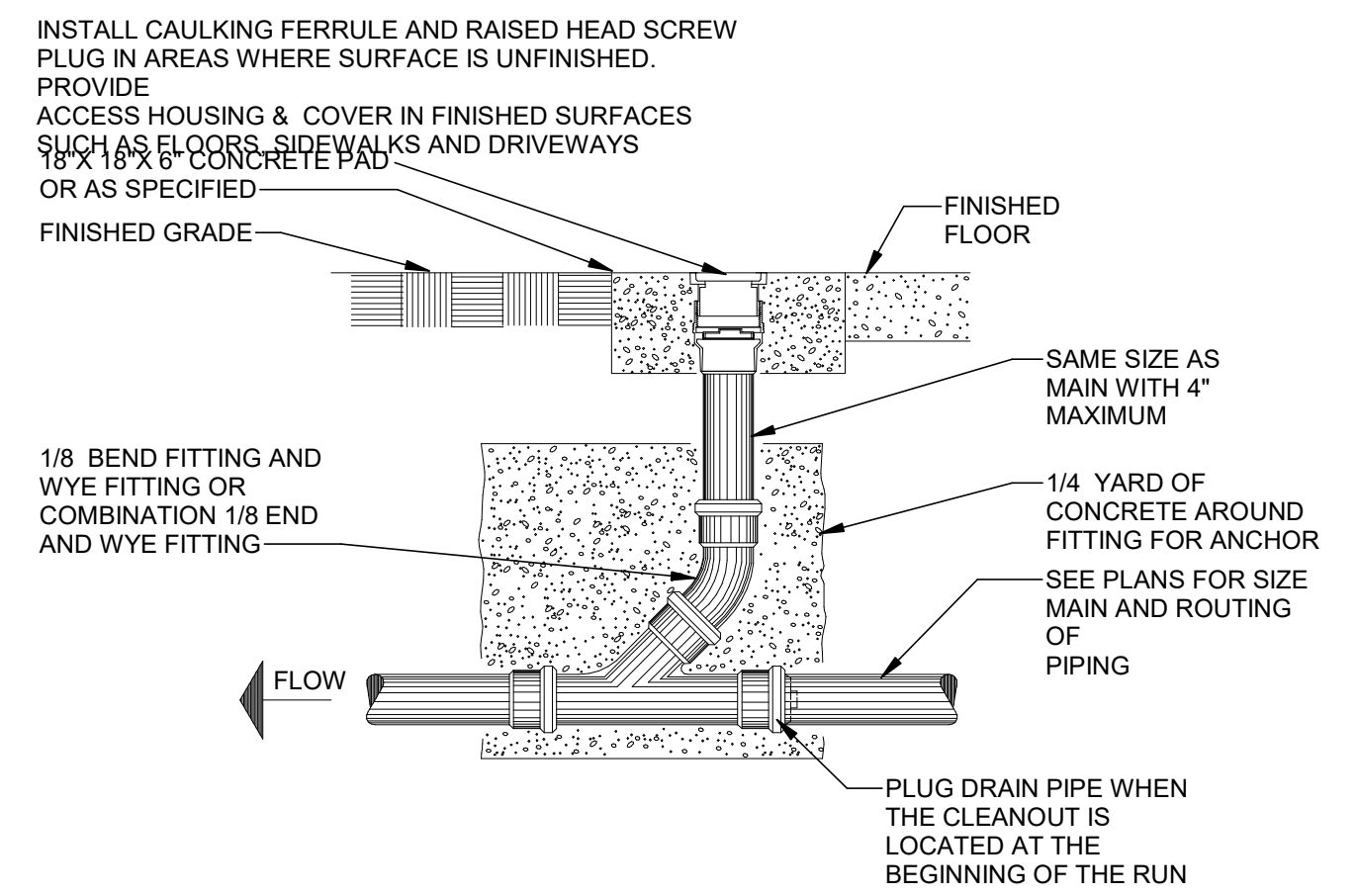


NOTE:
1. REFER TO DRANE KOOLER DETAIL FOR CONDENSATE CONNECTIONS.

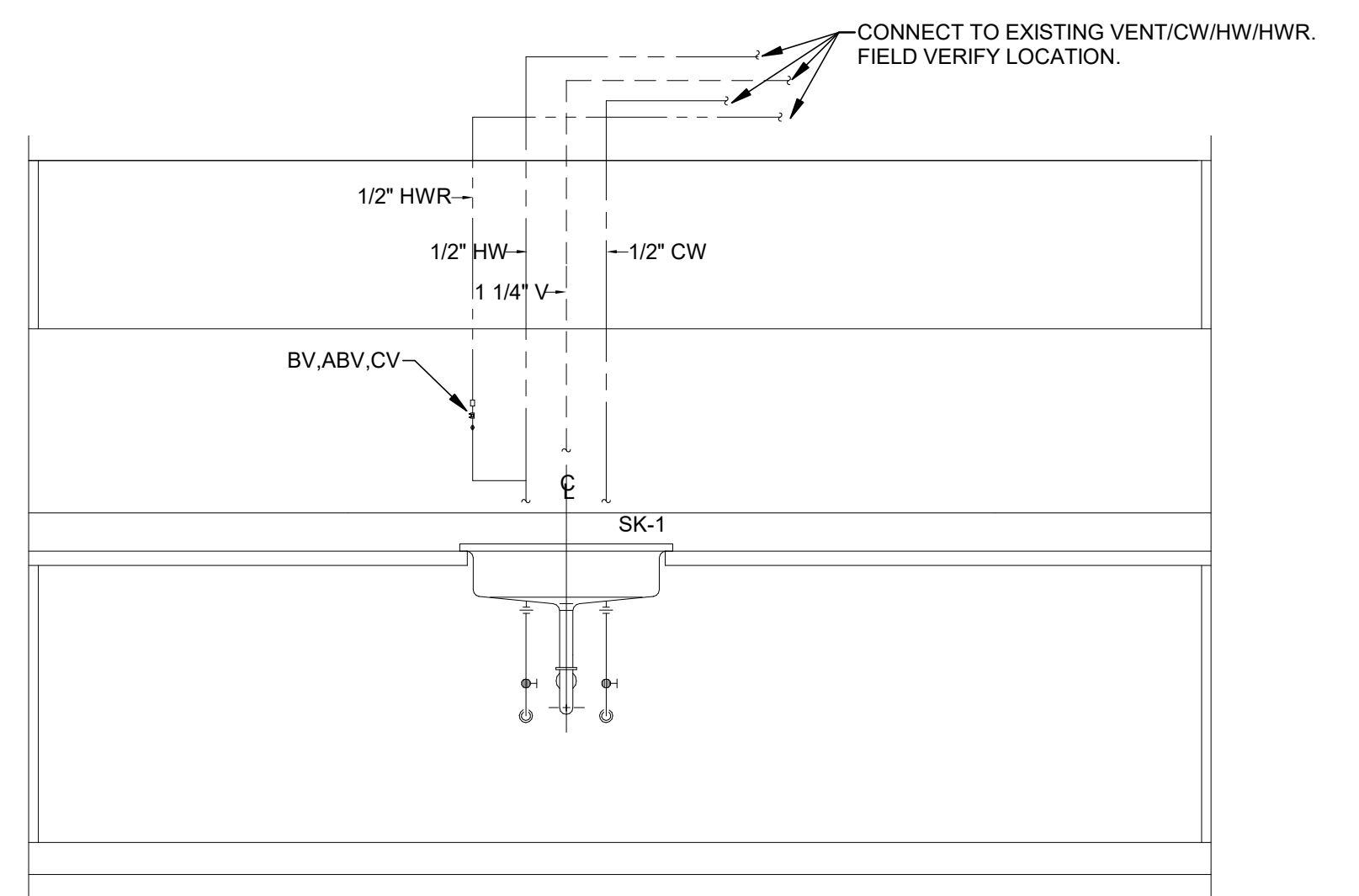


DRAINE DETAIL
N.T.S.

HUMIDIFIER INSALLATION DETAIL
N.T.S.

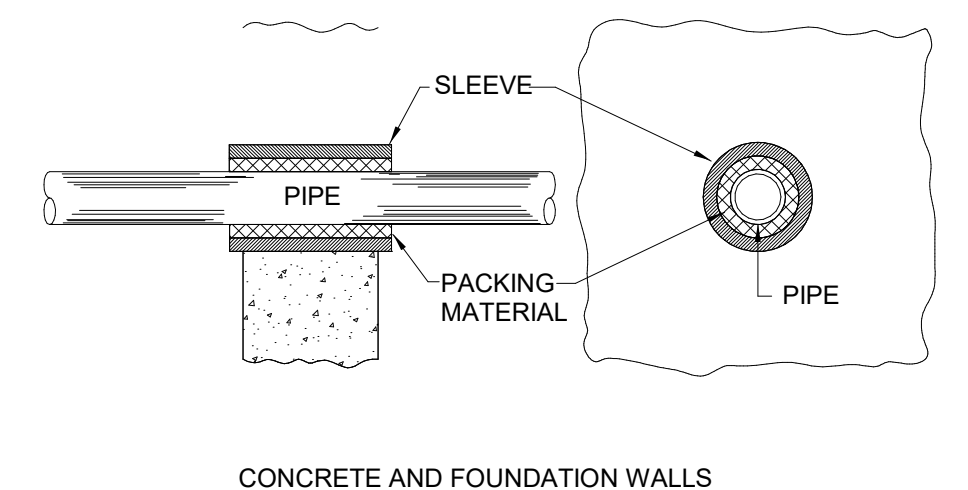


CLEANOUT
N.T.S.

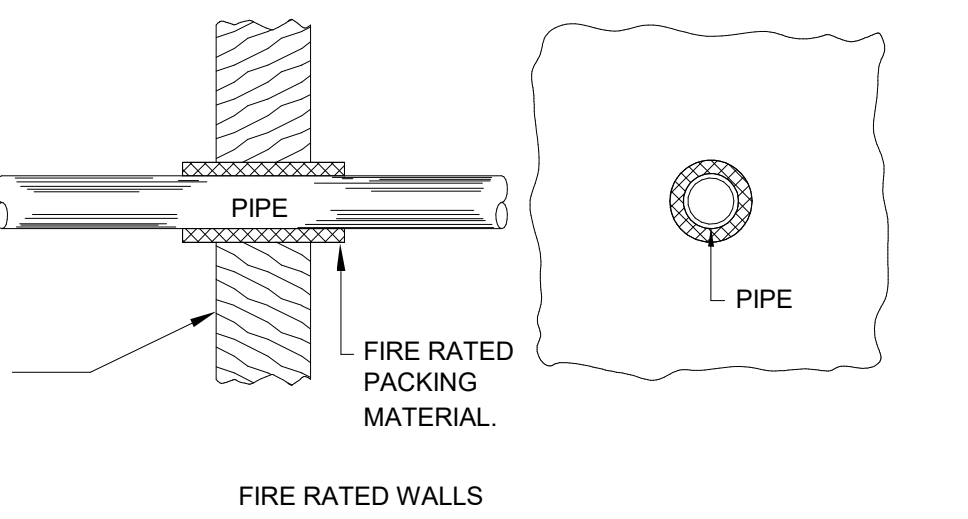


SINK DETAIL
N.T.S.

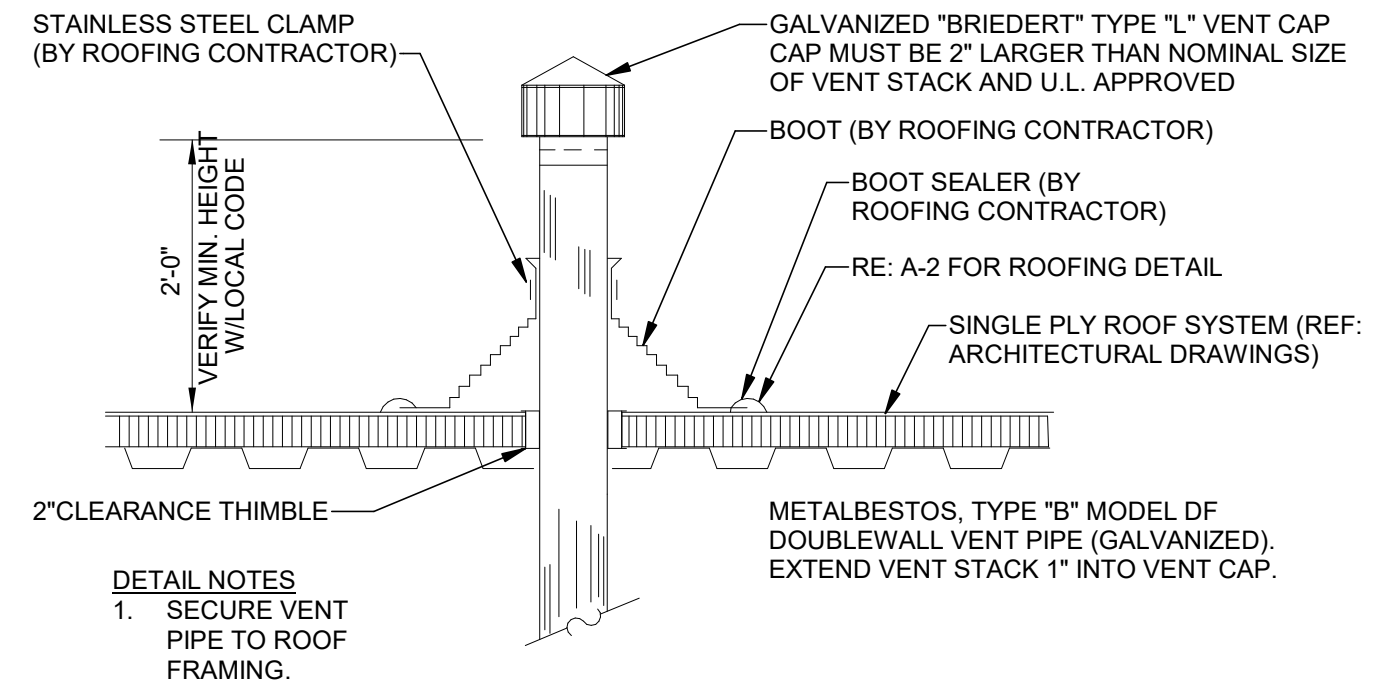
- NOTES:
- NO STRUCTURAL STRAIN SHOULD BE TRANSMITTED FROM ANY WALL TO THE PIPING SYSTEM. THE SLEEVING, RELIEVING ARCH, OR STRUCTURAL BEAM SUPPORT METHODS PROTECT THE PIPING FROM SUPERIMPOSED LOADS. THE "PACKING" MATERIAL AROUND THE PIPE IS FLEXIBLE ENOUGH TO RESPOND TO SETTLING IN THE STRUCTURE OR PIPING.
 - FIRE RATED PACKING MATERIAL TO BE BY 3M. CAULK CP 255/L
 - FOR ALL PIPING PASSING THRU MEZZANINE FLOOR PACK WITH 3M, CAULK CP 255/L
 - SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.



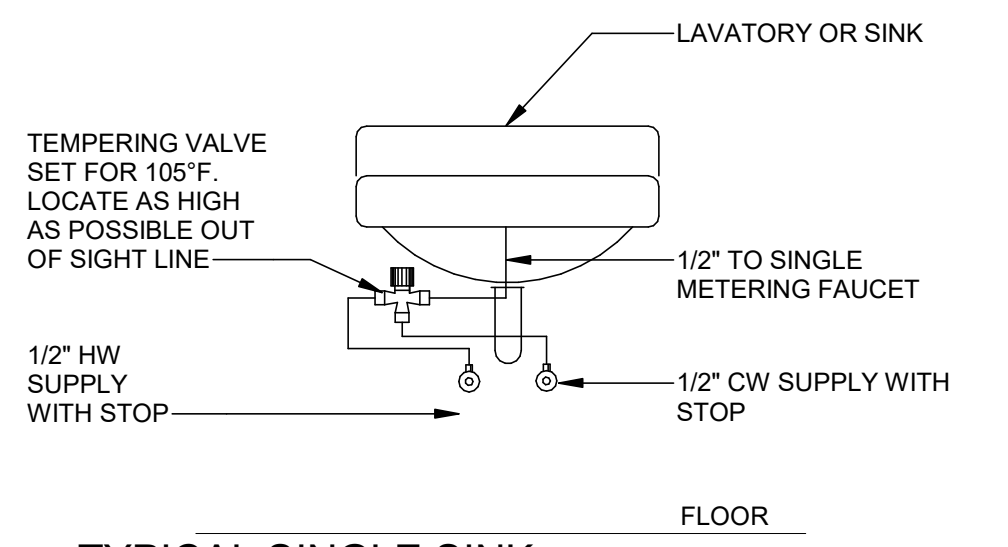
NOTE:
NO STRUCTURAL STRAIN SHOULD BE TRANSMITTED FROM ANY WALL TO THE PIPING SYSTEM. THE SLEEVING, RELIEVING ARCH, OR STRUCTURAL BEAM SUPPORT METHODS PROTECT THE PIPING FROM SUPERIMPOSED LOADS. THE "PACKING" MATERIAL AROUND THE PIPE IS FLEXIBLE ENOUGH TO RESPOND TO SETTLING IN THE STRUCTURE OR PIPING.



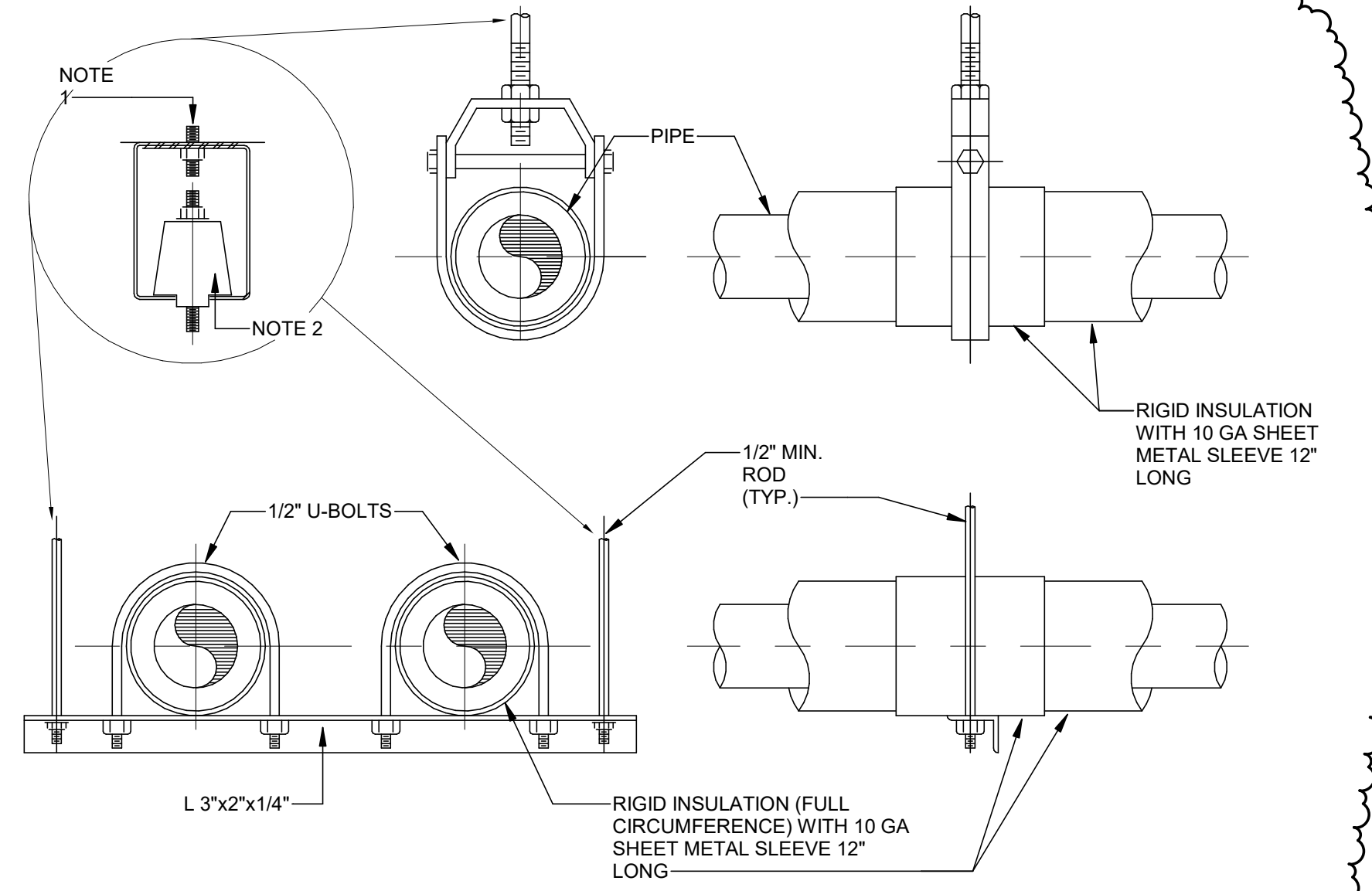
PIPE THRU WALL DETAIL
N.T.S.



VENT FLASHING DETAIL
N.T.S.



TYPICAL SINGLE SINK TEMPERING VALVE DETAIL
N.T.S.



- NOTE:
- ANCHOR BOLT OR BOLT ATTACHED TO STRUCTURAL MEMBER. NEOPRENE ISOLATOR. SUBMITT ANCHORING METHOD TO STRUCTURAL ENGINEER FOR APPROVAL.
 - 180° INSULATION SHIELDS MUST BE BANNED. USE STAINLESS STEE EACH L OR PLENUM RATED NYLON 2 PIECES.
 - SEE SPECIFICATION FOR PAINT REQUIREMENTS ON SUPPORTS.

MAXIMUM PIPE SUPPORT SPACING - FEET											
NOM. SIZE	THRU 3/4	1	1.25	1.5	2	2.5	3	4	5	6	8
PIPE	6 FT	6	6	10	10	10	10	10	10	10	10

COPPER PIPE ONLY

MAXIMUM PIPE SUPPORT SPACING - FEET											
NOM. SIZE	THRU 3/4	1	1.25	1.5	2	2.5	3	4	5	6	8
PIPE	12 FT	12	12	12	12	12	12	12	12	12	12

STEEL PIPE ONLY

TYPICAL PIPE HANGERS
N.T.S.

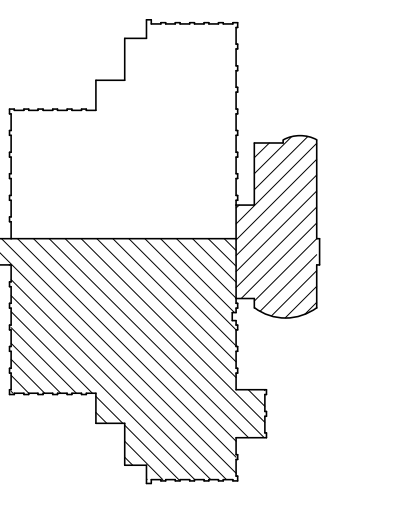
DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Project Component

Key Plan



Consultants

- Survey:
- Civil:
- Architecture:
- Structural:
- Mechanical:
- Electrical:
- Interiors:
- Landscaping:

Seal(s)

2

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Project Manager
B. Colburn

Drawn
I. FONAREV

Project Leader
J. Brock

Checked
D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation

220 Fort Street
Port Huron, MI
48060

Drawing Title
PLUMBING DETAILS

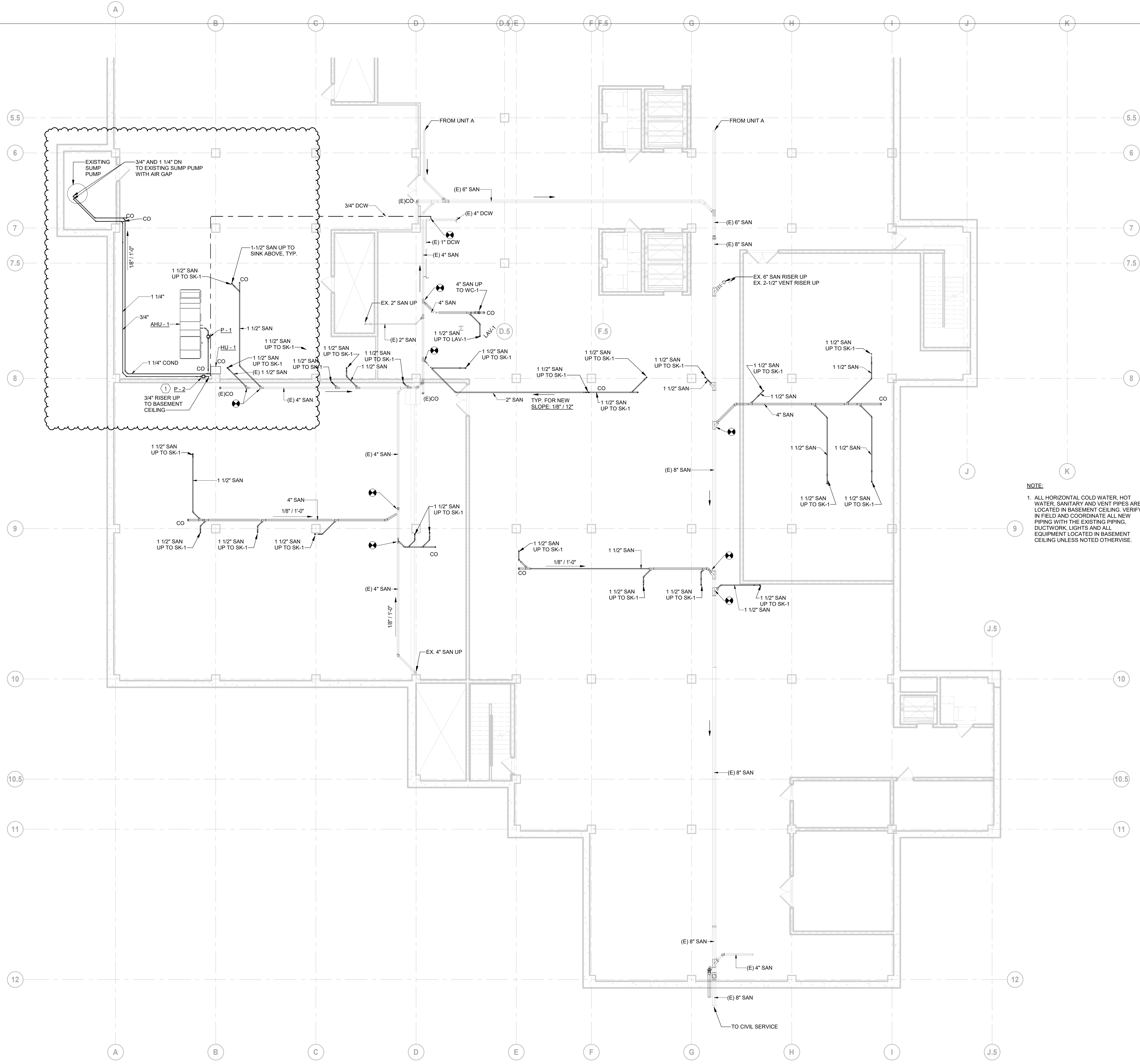
Scale
As indicated

Project No.
JCDT23-0185

Drawing No.
P00-03

5/10/2024 12:33:19 PM

Architect: St. Clair County Health Department
Project: St. Clair County Health Department Relocation
Drawing: SOUTH WING - BASEMENT PLUMBING PLAN



GENERAL NOTES

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTIONS IN EFFECT ON THE DATE BIDS ARE RECEIVED.
3. VERIFY THE OPENING LOCATION WITH STRUCTURAL AND SINK LOCATION PRIOR TO MAKING OPENING.
4. PROVIDE FIRESTOPPING AND SLEEVE FOR ALL FLOOR PENETRATIONS.
5. WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, AIR, NEC, STATE FIRE INSURANCE REGULATORY BODY, NFPA OR OTHERS, THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

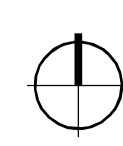
SHEET KEYED NOTES

1. INSTALL CONDENSATE DRAIN AND 3/4\"/>

NOTE:

1. ALL HORIZONTAL COLD WATER, HOT WATER, SANITARY AND VENT PIPES ARE LOCATED IN BASEMENT CEILING. VERIFY IN FIELD AND COORDINATE ALL NEW PIPING WITH THE EXISTING PIPING, DUCTWORK, LIGHTS AND ALL EQUIPMENT LOCATED IN BASEMENT CEILING UNLESS NOTED OTHERWISE.

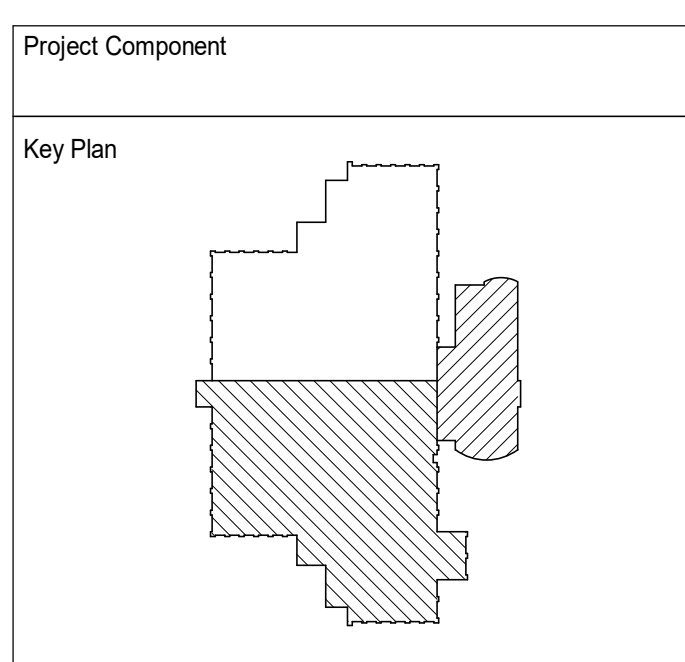
1 SOUTH WING - BASEMENT PLUMBING PLAN
SCALE: 1/8" = 1'-0"



DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Seal(s)

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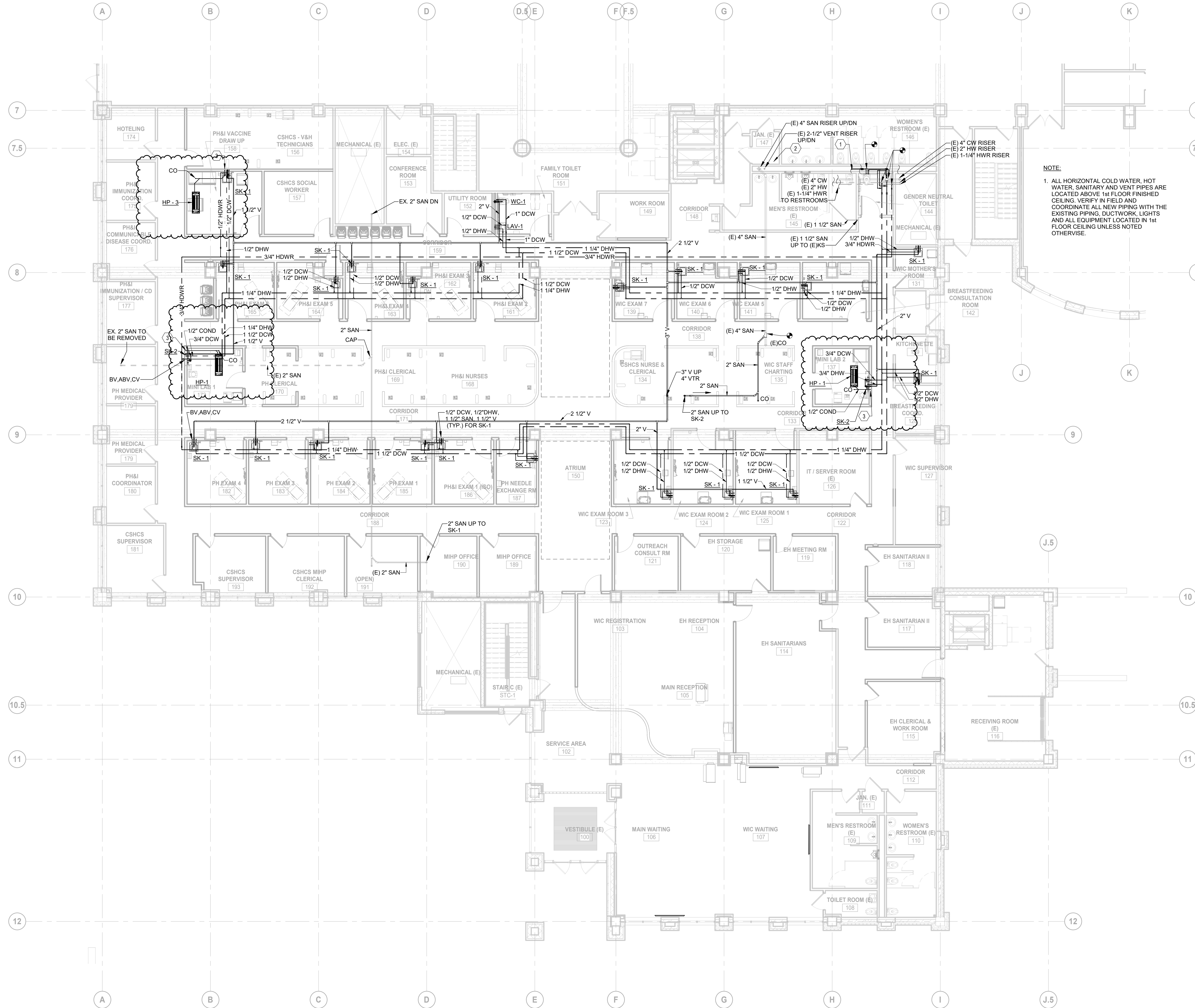
Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Strick	Checked D. DOVAS
Client St. Clair County Health Department	

Project
St. Clair County Health Department Relocation
220 Fort Street
Port Huron, MI
48060

Drawing Title
SOUTH WING - BASEMENT PLUMBING PLAN

Scale	1/8" = 1'-0"
Project No.	JCDT23-0185
Drawing No.	P20-00

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GENERAL NOTES

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SHEET KEY NOTES

- EXISTING SANITARY AND VENT HEADER IN PLUMBING CHASE TO REMAIN. NEW SANITARY AND VENT PIPES FROM NEW WATER CLOSET AND LAVATORY TO EXISTING HEADERS IN CHASE. CONTRACTOR FIELD VERIFY EXACT LOCATION AND POINTS OF CONNECTION. COORDINATE WITH ARCHITECTURAL FOR WALL PATCHING REQUIREMENTS.
- EXISTING SERVICE SINK TO BE REMOVED. REMOVE COLD WATER, HOT WATER, AND VENT PIPES AS REQUIRED FOR INSTALLATION OF THE NEW FLOOR MOUNTED MOP SINK. CONTRACTOR FIELD VERIFY EXACT LOCATION AND POINTS OF CONNECTION. COORDINATE WITH ARCHITECTURAL FOR WALL PATCHING REQUIREMENTS.
- ROUTE CONDENSATE PIPE DN AND CONN TO TAILPEACE OF SINK.

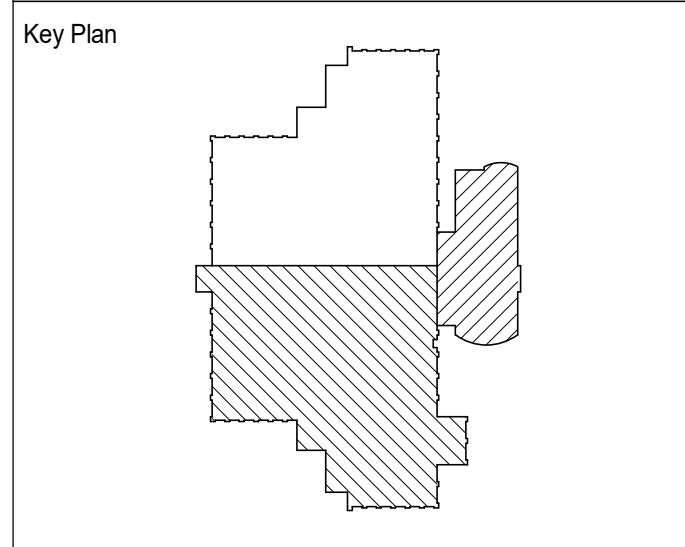
NOTE:
1. ALL HORIZONTAL COLD WATER, HOT WATER, SANITARY AND VENT PIPES ARE LOCATED ABOVE 1st FLOOR FINISHED CEILING. VERIFY IN FIELD AND COORDINATE ALL NEW PIPING WITH THE EXISTING PIPING, DUCTWORK, LIGHTS AND ALL EQUIPMENT LOCATED IN 1st FLOOR CEILING UNLESS NOTED OTHERWISE.

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Project Component



Consultants
 Survey:
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 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

Seal(s)

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Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Strick	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

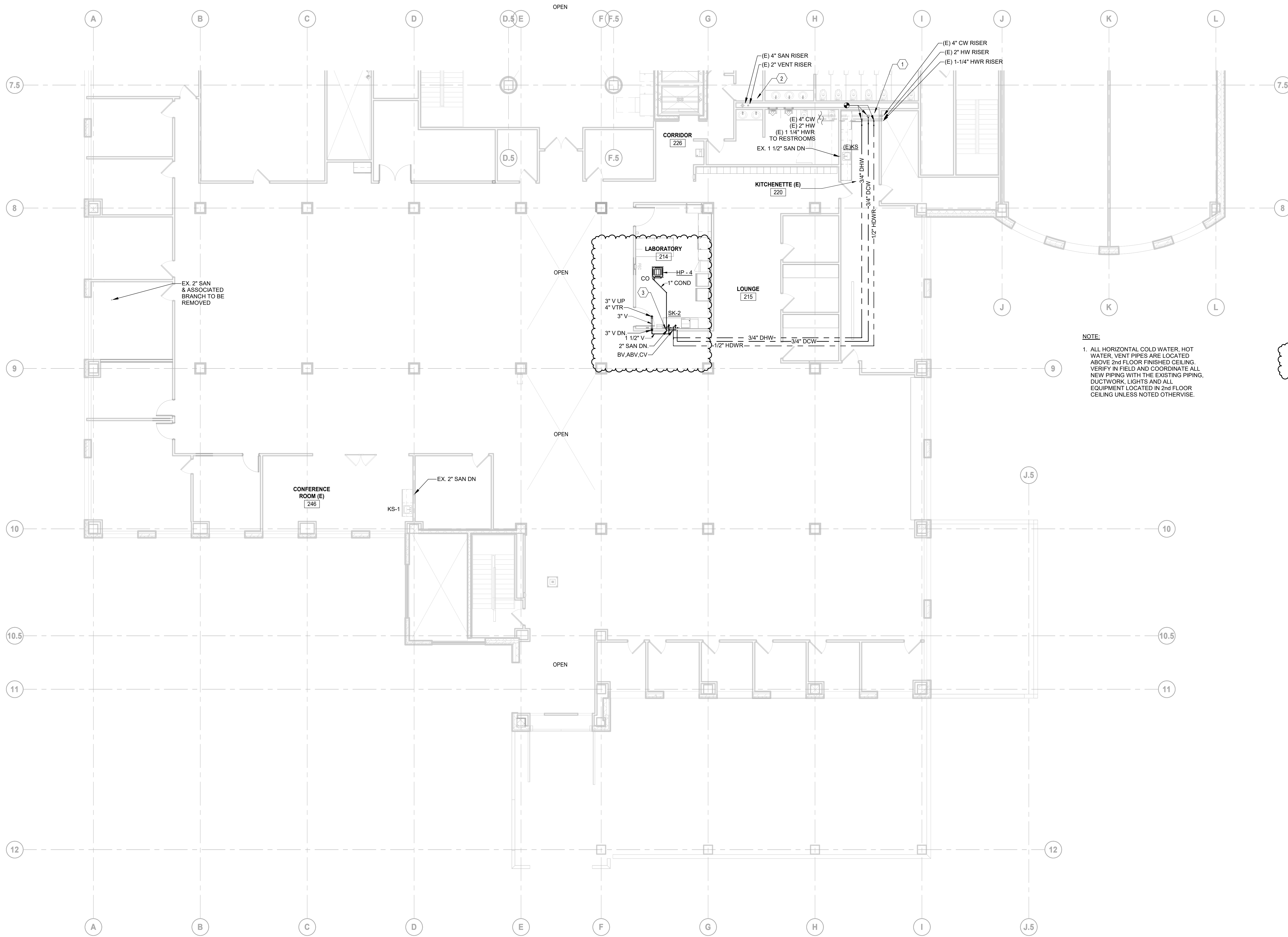
Drawing Title
SOUTH WING - LEVEL 1 PLUMBING PLAN

Scale
1/8" = 1'-0"

Project No.
JCDT23-0185

Drawing No.
P20-01

1 SOUTH WING - LEVEL 1 PLUMBING PLAN
 SCALE: 1/8" = 1'-0"



GENERAL NOTES

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3. ROUTE CONDENSATE PIPE DN AND CONNCT TO TAILPEACE OF SINK.

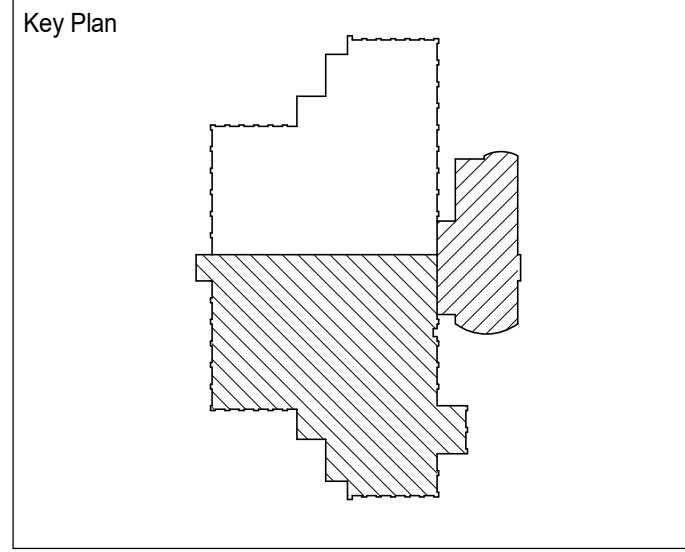
1 SOUTH WING - LEVEL 2 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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Project Component



Consultants
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 Electrical:
 Interiors:
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Seal(s)

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Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Strick	Checked D. DOVAS

Client
St. Clair County Health Department

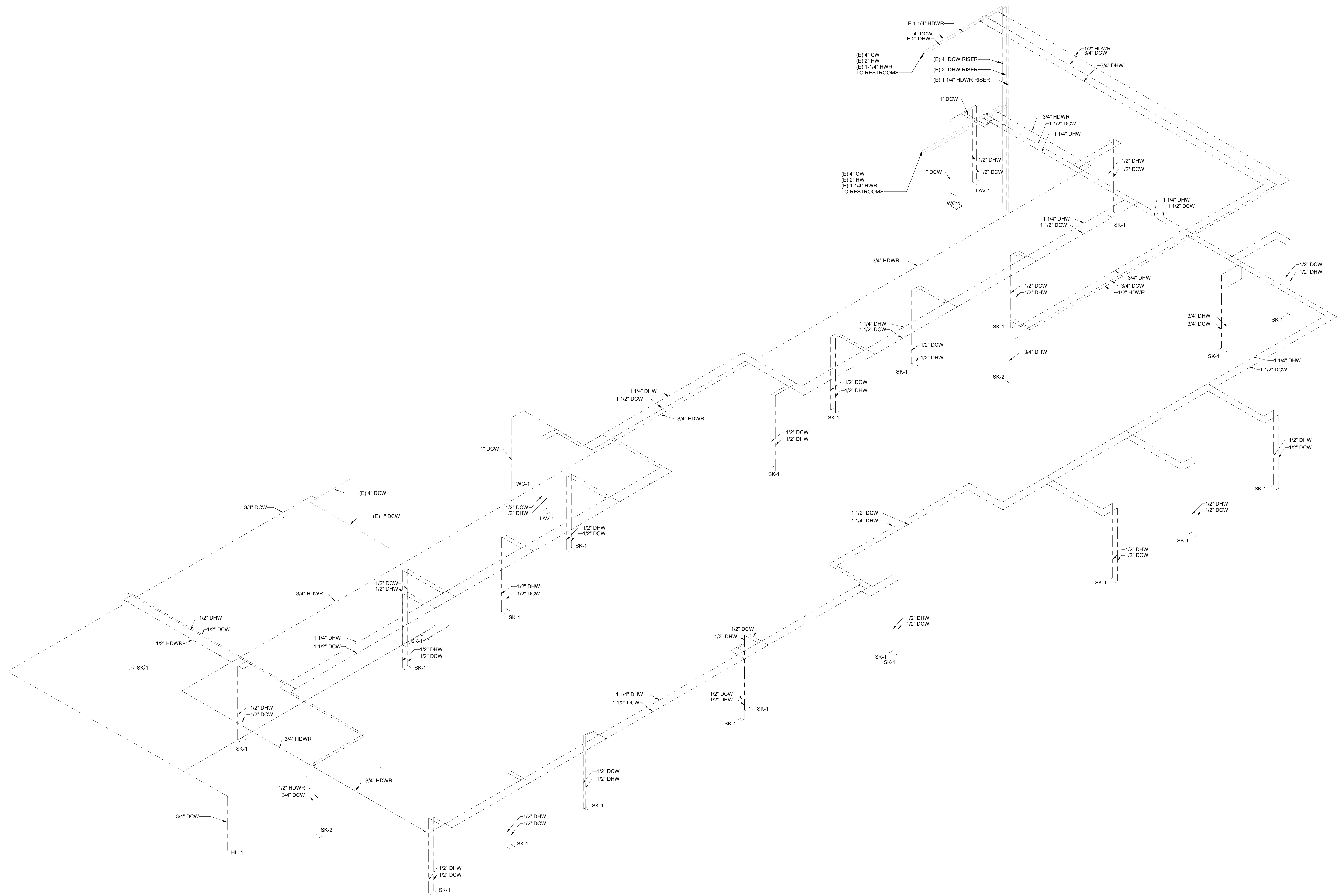
Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - LEVEL 2 PLUMBING PLAN

Scale
 1/8" = 1'-0"

Project No.
 JC23-0185

Drawing No.
P20-02



1 DOMESTIC WATER RISER DIAGRAM
 P50-01 SCALE:

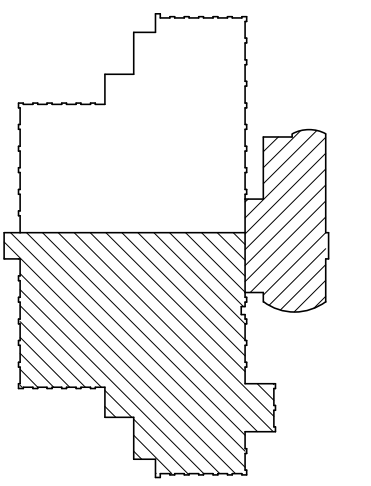
DATE	ISSUED FOR	REV
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Project Component

Key Plan



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- Mechanical:
- Electrical:
- Interiors:
- Landscape:

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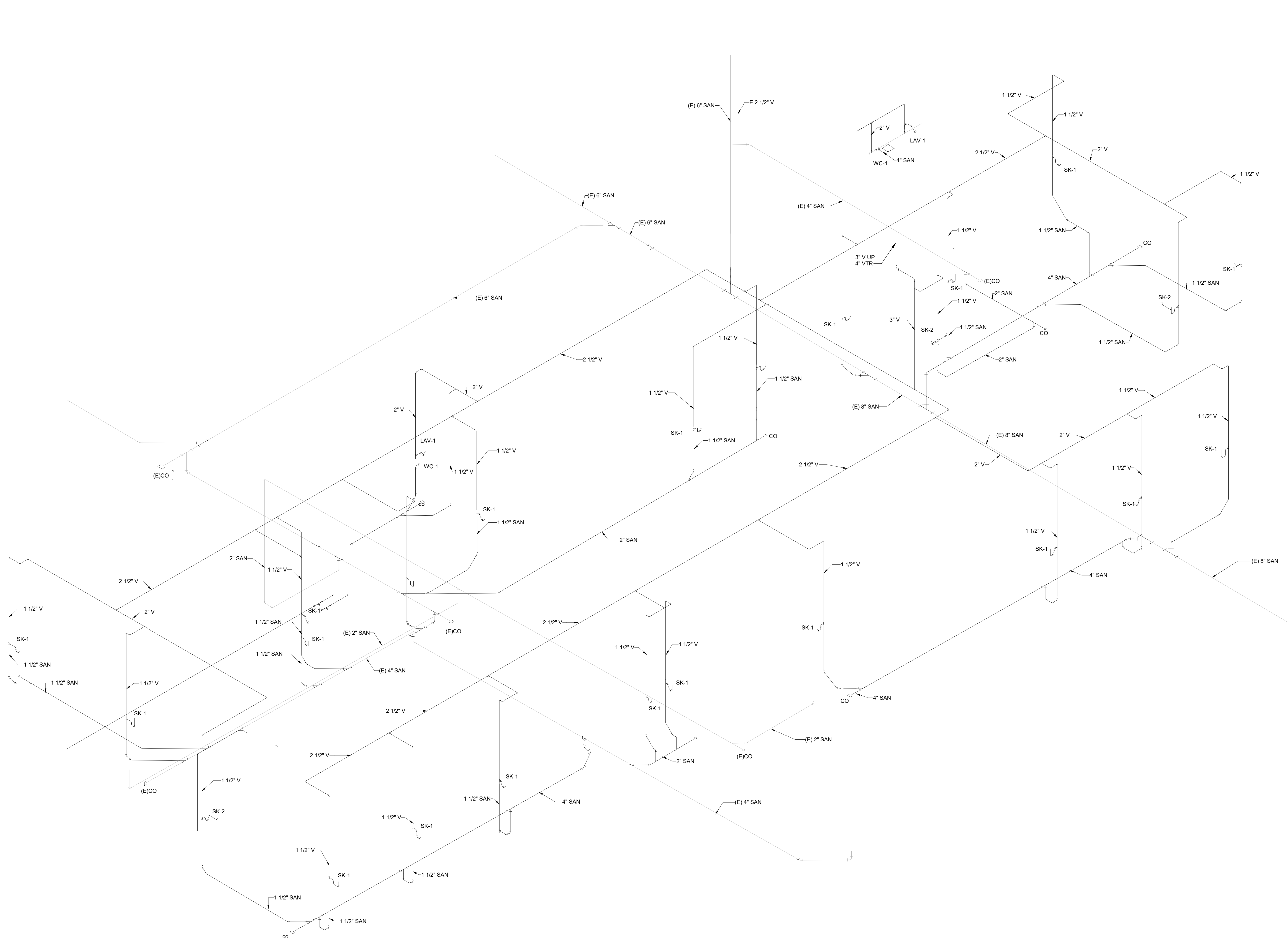
Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
DOMESTIC WATER RISER DIAGRAM

Project No.
 JCDT23-0185
 Drawing No.
P50-01



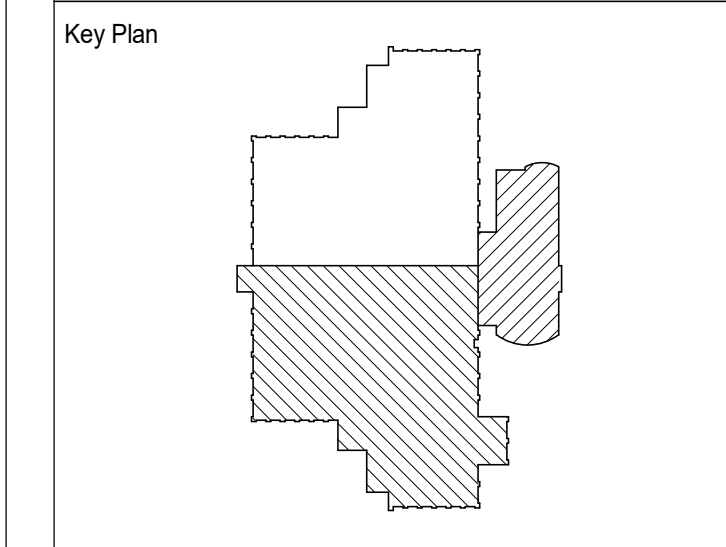
1 SANITARY AND VENT WATER RISER DIAGRAM
 P50-02 SCALE:

DATE	ISSUED FOR	REV
04-24-2024	BID	1
05-10-2024	BID ADDENDUM 01	2

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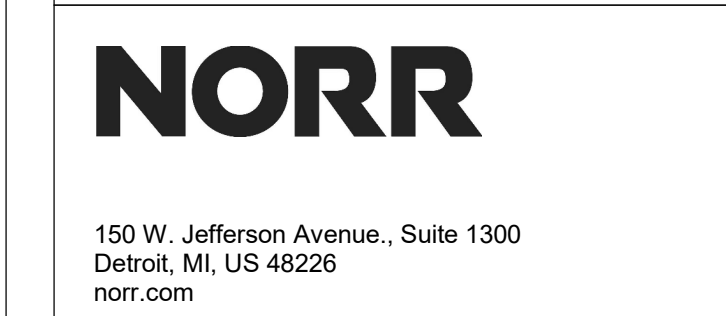
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Project Component



Consultants
 Survey:
 Civil:
 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

Seal(s)



Project Manager B. Colburn	Drawn I. FONAREV
Project Leader J. Brock	Checked D. DOVAS

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 220 Fort Street
 Port Huron, MI
 48060

Drawing Title
SANITARY AND VENT PLUMBING RISER DIAGRAM

Project No.
 JCDT23-0185

Drawing No.
P50-02

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	BID ADDENDUM 01	2

LIGHTING FIXTURE SCHEDULE

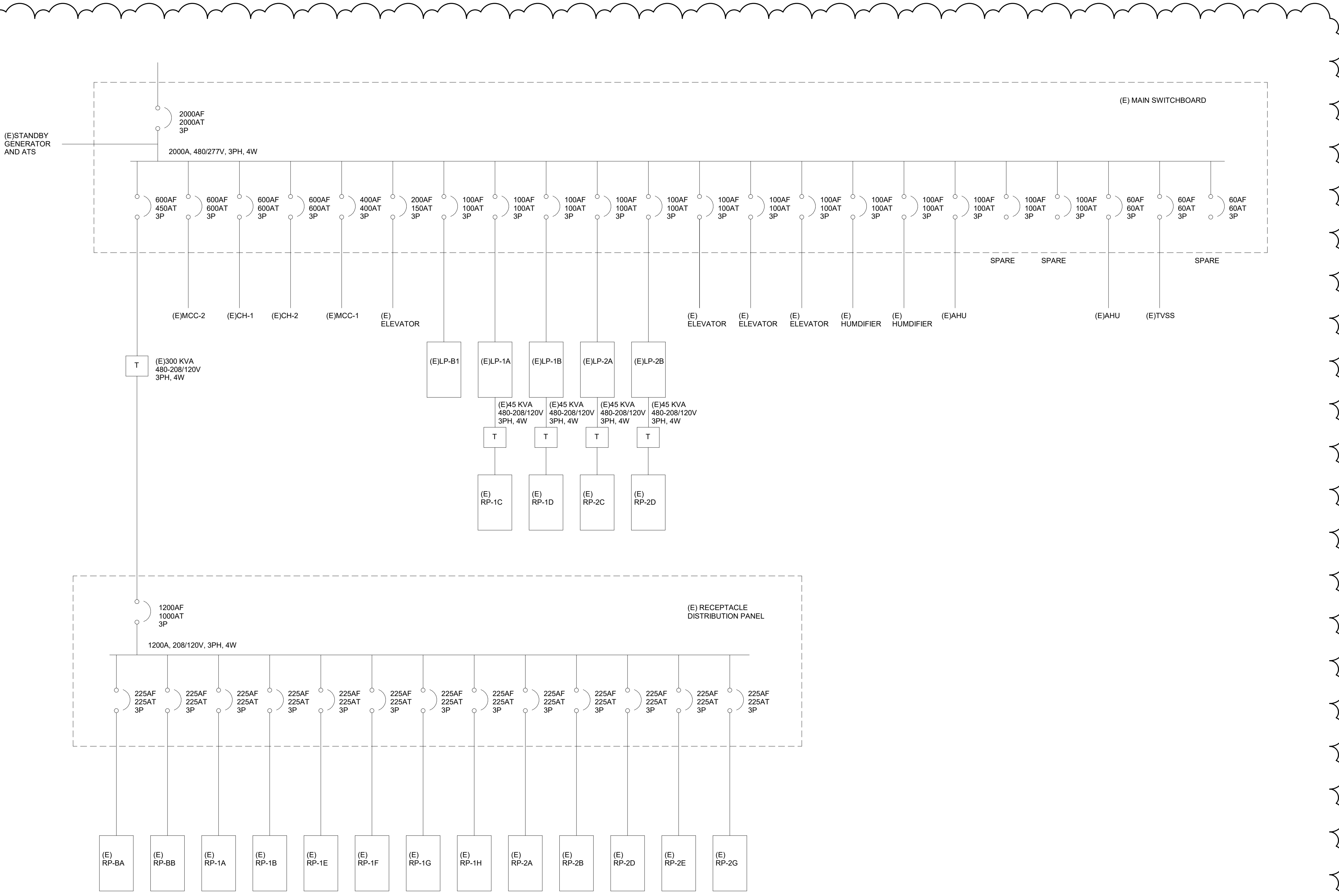
TYPE MARK	DESCRIPTION	MANUFACTURER	EPANEL	MODEL	VOLTAGE	WATTAGE	LAMP	COMMENTS
L1	2'X2' CONFIGURABLE EDGE-LIT LED FLAT PANEL	LITHONIA	EPANL		277		0-10V DIM: 3000L, 3500K CCT: 80CRI	PROVIDE EMERGENCY BALLAST IN FIXTURE DESIGNATED WITH 'EM'
L2	3'X3' SQUARE LED DOWNLIGHT RETROFIT KIT WITH WHITE TRIM, WHITE FLANGE WITH SEMI-SPECULAR FINISH	LITHONIA	LDNRV		277		0-10V DIM: 3000L, 3500K CCT: 80 CRI	PROVIDE EMERGENCY BALLAST IN FIXTURE DESIGNATED WITH 'EM'
L3	10" RECESSED LED DOWNLIGHT RETROFIT KIT WITH WHITE TRIM, WHITE FLANGE WITH SEMI-SPECULAR FINISH	LITHONIA	LDNRV		277		0-10V DIM: 3000L, 3500K CCT: 80 CRI	PROVIDE EMERGENCY BALLAST IN FIXTURE DESIGNATED WITH 'EM'
L4	31.5" DIA X 9.8" H ACUSTIC PENDANT IN BUZZTREVIRA CS FABRIC IN HAZY ORANGE #9404, HAZY PISTACHE #9702, HAZY BLUE #9501, HAZY YELLOW #9309, AND OCEAN #9591	BUZZI SPACE		BUZZI DOME	277			PROVIDE 78" CABLING FOR CEILING SUSPENSION
L5	8.25" DIA X 7.3" H BAMBOO FIBER AND POLYPROPYLENE PVC CORD PENDANT, WHITE FINISH.	MUUTO		GRAIN PENDANT LAMP	277			MOUNT 7'-0" AFF OR 6'-8" BOTTOM OF FIXTURE. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION
L6	30" (MEDIUM) ROUND ACUSTIC LIGHT FIXTURE WITH MILKY DIFFUSER, UGR 22 WITH 3D DROP PATTERN, FABRIC TO BE BUZZTREVIRA IN HAZY YELLOW #9309	BUZZI SPACE		BUZZI MOON ROUND	277			MOUNT BOTTOM OF FIXTURE 15'-4" AFF
L7	10" SLOT FLUSH MOUNTED RECESSED LINEAR FOR GYPSUM CEILING MOUNTING	MARK ARCHITECTURAL LIGHTING	SLOT 6 LED		277		0-10V DIM: 4000K-FT, 3500K CCT: 80 CRI	PROVIDE CONTINUOUS LENGTHS AS SHOWN ON PLANS
X	EXIT SIGN	LITHONIA (GASSER BUSH)	EDGEDGR-12-RMR-EL		277			PROVIDE DOUBLE FACED AND DIRECTIONAL ARROWS AS INDICATED ON PLAN

120V SINGLE-PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			#12AWG	#10AWG	#8AWG	#6AWG	#4AWG
20	4	480	220	349	556	882	-
	8	960	110	174	278	441	701
	12	1440	73	116	185	294	467
	16	1920	55	87	139	221	350
30	24	2880	-	58	93	147	234
	32	3840	-	-	70	110	175
50	40	4800	-	-	-	88	140
	48	5760	-	-	-	-	117

208V SINGLE-PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			#12AWG	#10AWG	#8AWG	#6AWG	#4AWG
20	4	832	380	605	964	-	-
	8	1664	190	302	482	765	-
	12	2496	127	202	321	510	810
	16	3328	95	151	241	382	607
30	24	4992	-	101	161	255	405
	32	6656	-	-	121	191	304
50	40	8320	-	-	-	153	243
	48	9984	-	-	-	-	202



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Project Component
Key Plan

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Mechanical:
Electrical:
Interiors:
Landscape:

Seal(s)

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 Detroit, MI 48226
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Project Manager	Drawn
B. Coburn	Author
Project Leader	Checked
	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 3415 28th Street
 Port Huron, MI 48060

Drawing Title
ONE LINE DIAGRAM AND ELECTRICAL SCHEDULES

Scale
 12" = 1'-0"

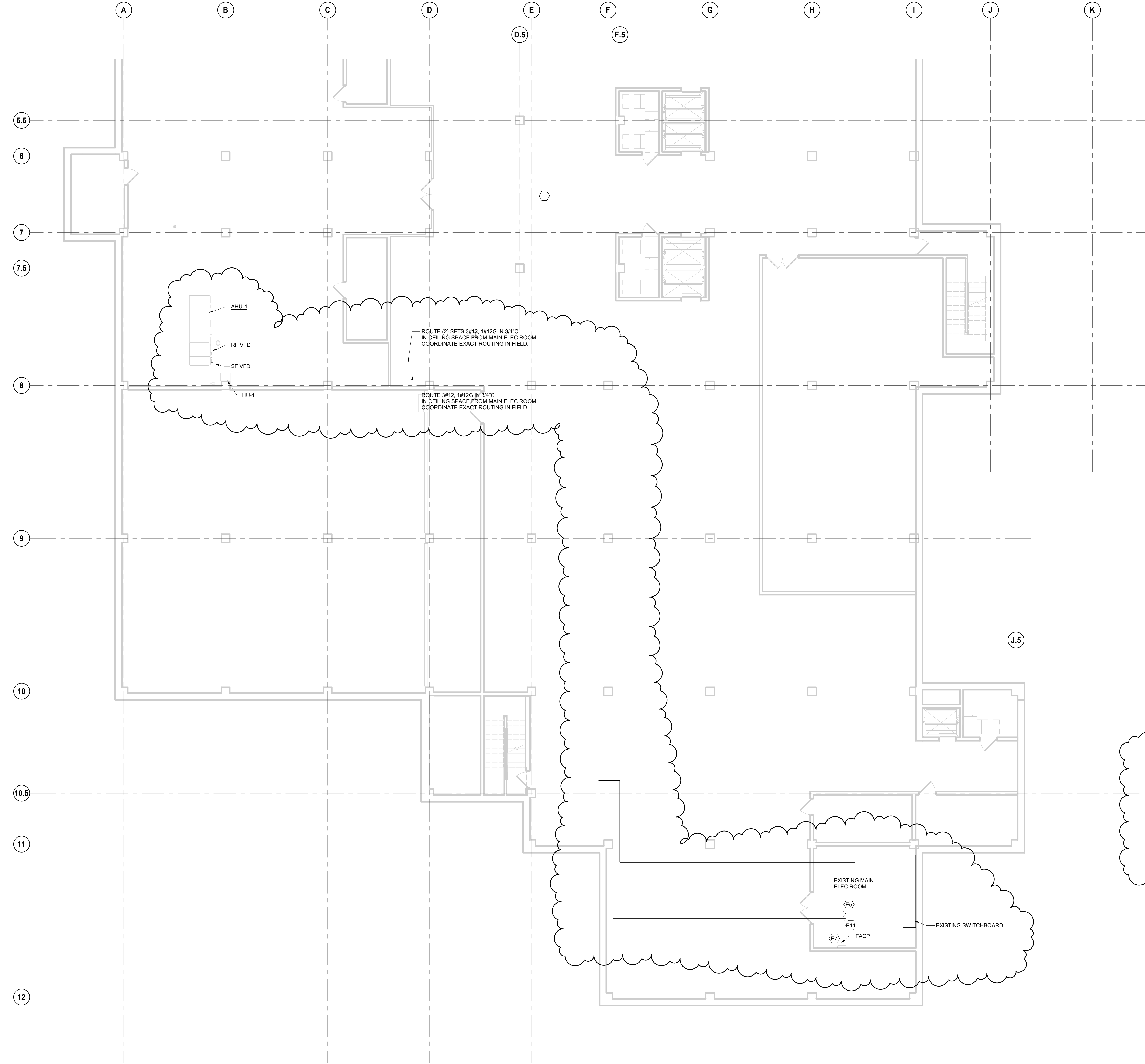
Project No.
 JCDT-23-0185

Drawing No.
E00-02

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	BID ADDENDUM 01	2
5/10/2024	PERMIT	3

GENERAL NOTES

- DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROXIMATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN. COORDINATE DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE AND INSTALLATION OF WORK.
- THE ELECTRICAL DRAWINGS ARE DIAGNOSTIC AND DO NOT NECESSARILY SHOW EVERY RACEWAY, BOX, CONDUCTOR, OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION. PROVIDE ITEMS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
- BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES AND CONFIGURATION. SINGLE CIRCUIT HOMERUNS SERVING FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION 26 SPECIFICATIONS, UNLESS INDICATED OTHERWISE. EXTEND AND CONNECT BRANCH CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED AT HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND CIRCUITING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZES PER IAWG.
- PROVIDE CORE DRILLS TO ACCOMMODATE SCOPE OF ELECTRICAL WORK INCLUDED WITHIN CONSTRUCTION DOCUMENTS. ARCHITECTURAL SLAB PENETRATION PLANS DO NOT SHOW ALL REQUIRED CORE DRILL LOCATIONS.
- CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 5%.



KEYNOTE LEGEND - NEW WORK	
Key Value	Keynote Text
E5	PROVIDE (2) 480V, 15A/3-POLE BREAKERS TO FEED NEW SUPPLY FAN & RETURN FAN VFD. UTILIZE SPACE AND REPLACE SPARE BREAKERS AS REQUIRED.
E7	EXISTING NATIONAL TIME AND SIGNAL FIRE ALARM PANEL SERVING SOUTH WING. COORDINATE REVISED FIRE ALARM WITH MANUFACTURER.
E11	PROVIDE (1) 480V, 15A/3-POLE BREAKERS TO FEED NEW HQ-1. UTILIZE SPACE AND REPLACE SPARE BREAKERS AS REQUIRED.

1 SOUTH WING - BASEMENT ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

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Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
3415 28th Street
Port Huron, MI 48000

Drawing Title
SOUTH WING - BASEMENT ELECTRICAL PLAN

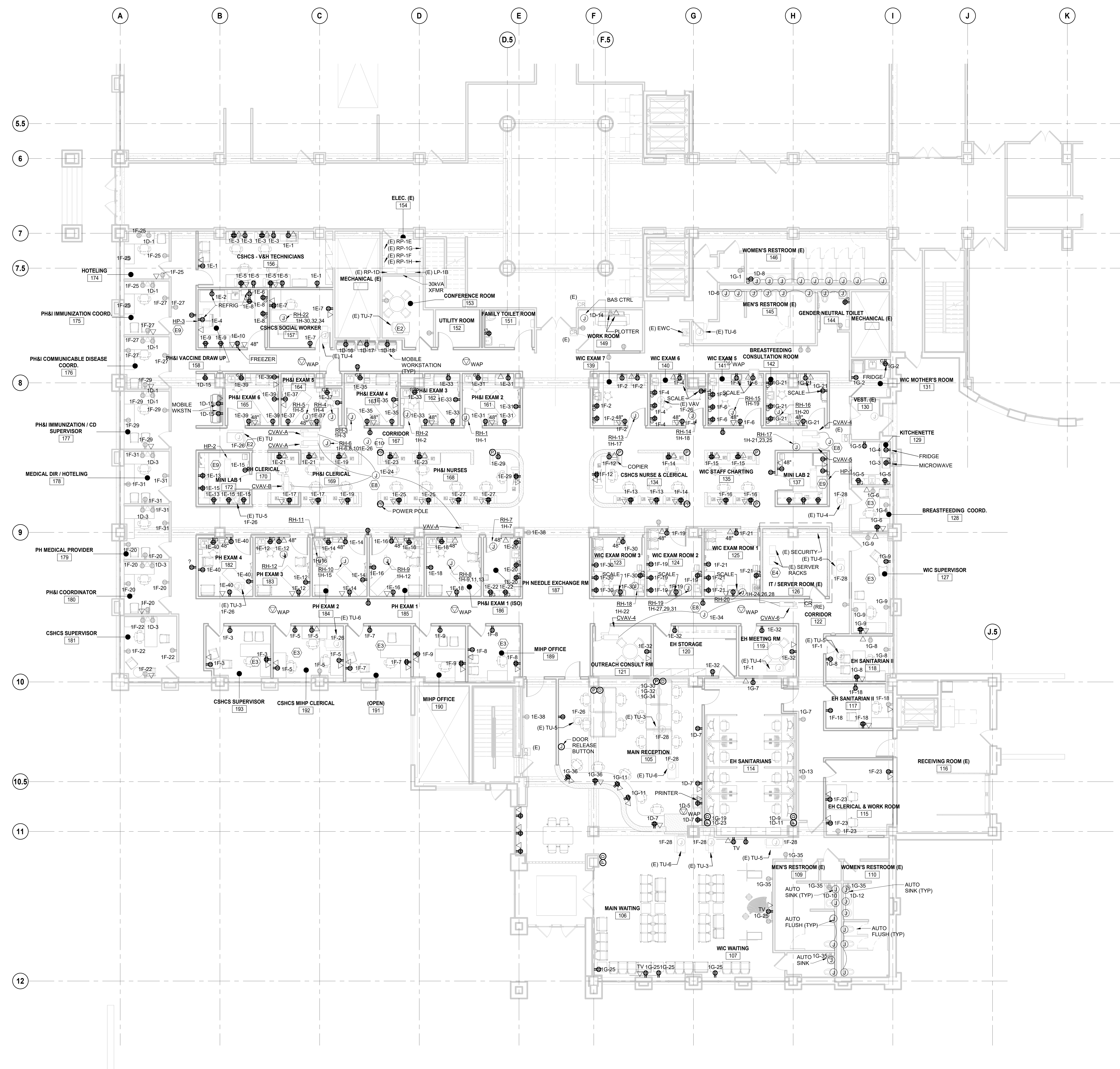
Scale	1/8" = 1'-0"
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Drawing No.	E10-00

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- BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES AND CONFIGURATION. SINGLE CIRCUIT HOMERUNS SERVED FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION 26 SPECIFICATIONS, UNLESS INDICATED OTHERWISE. EXTEND AND CONNECT BRANCH CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED IN HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND CIRCUITING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZE #12 AWG.
- PROVIDE CORE DRILLS TO ACCOMMODATE SCOPE OF ELECTRICAL WORK INCLUDED WITHIN CONSTRUCTION DOCUMENTS. ARCHITECTURAL SUB PENETRATION PLANS DO NOT SHOW ALL REQUIRED CORE DRILL LOCATIONS.
- CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 3%.

KEYNOTE LEGEND - NEW WORK	
Key Value	Keynote Text
E2	RELOCATED TU - EXTEND CIRCUIT AS REQUIRED TO NEW LOCATION.
E3	UTILIZE EXISTING CIRCUIT SERVING PERIMETER SPACE TO SERVE ANY RE-LOCATED OR NEW RECEPTACLES. REPLACE EXISTING TO REMAIN DEVICE COVER PLATES WITH NEW TO MATCH NEW DEVICES.
E4	EXISTING NETWORK RACKS, SECURITY PANELS, FIRE ALARM PANEL, AND ASSOCIATED CABLING TO REMAIN IN SERVER ROOM.
E8	CENTRALIZED JUNCTION BOX SERVING VAV(S). CONNECT CIRCUIT TO 120V INPUT OF VAV TRANSFORMER.
E9	HEAT PUMP SERVED BY CU. CONNECTIONS FROM CU TO HP BY MECHANICAL CONTRACTOR.
E10	CENTRALIZED JUNCTION BOX SERVING RH-1, RH-2, RH-3, RH-4, AND RH-5. CONNECT CIRCUIT TO 120V INPUT OF RH.



1 SOUTH WING - LEVEL 1 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

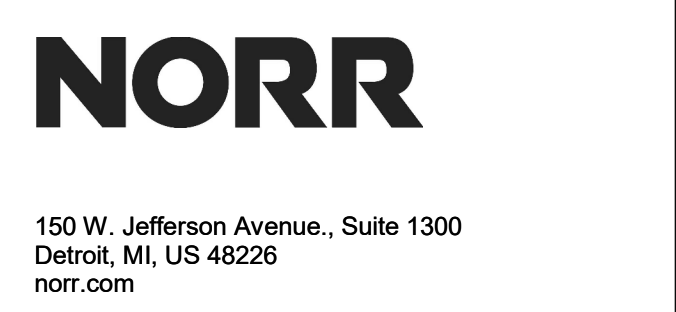
This drawing has been prepared solely for the use of St. Clair County Health Department and there are no representations of any kind made by

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component	
Key Plan	

Consultants	
Survey	
Civil	
Architecture	
Structural	
Mechanical	
Electrical	
Interiors	
Landscape	

Seal(s)



Project Manager	Drawn
B. Calum	Author
Project Leader	Checked
	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
3415 28th Street
Port Huron, MI 48060

Drawing Title
SOUTH WING - LEVEL 1 ELECTRICAL PLAN

Scale
1/8" = 1'-0"

Project No.
JCDT-23-0185

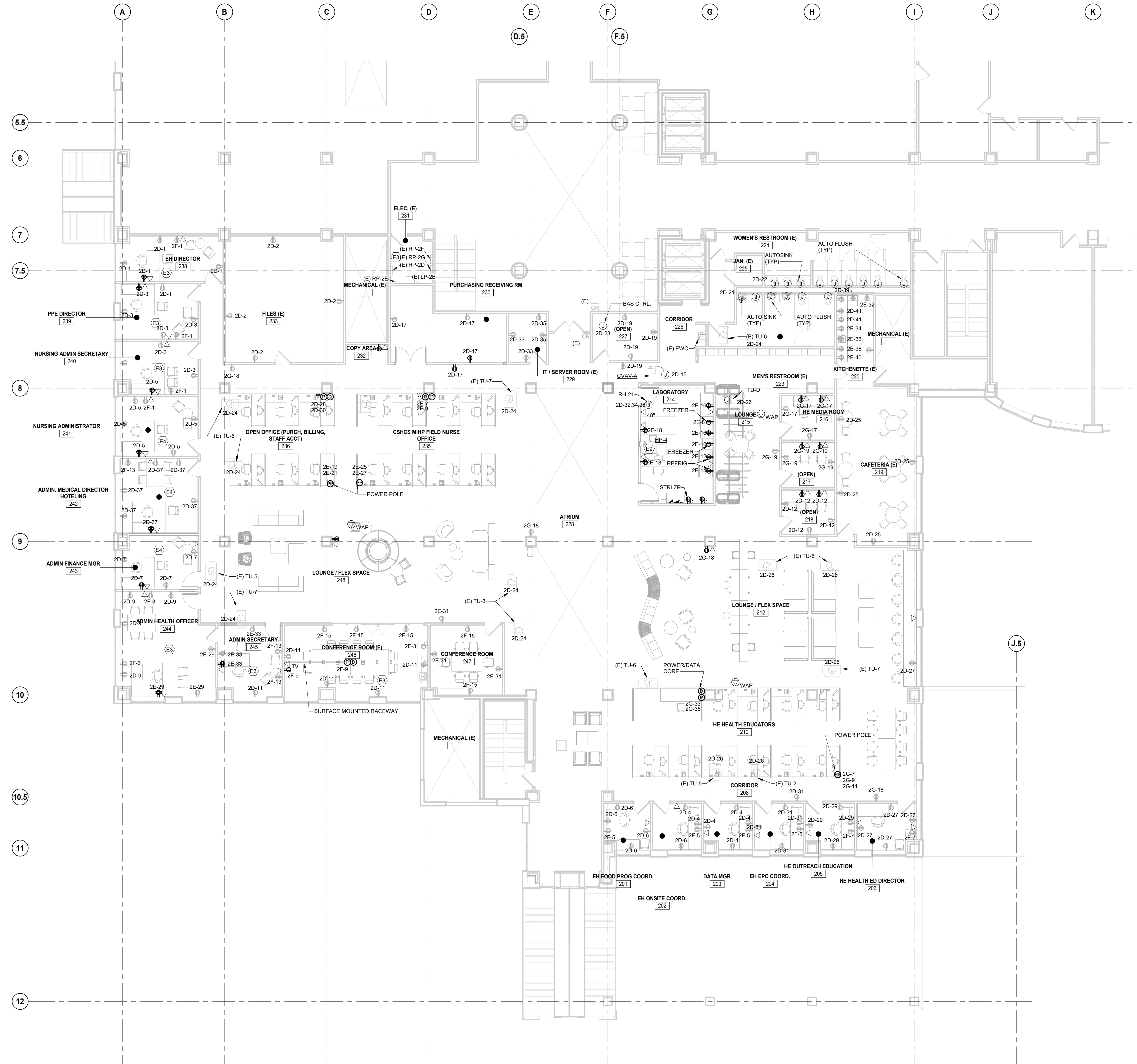
Drawing No.
E10-01

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	PERMIT	2

GENERAL NOTES

- DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK, SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO RUSH-IN. COORDINATE DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS PRIOR TO RUSH-IN.
- FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
- THE ELECTRICAL DRAWINGS ARE DIAGNOSTIC AND DO NOT NECESSARILY SHOW EVERY RACEWAY, BOX, CONDUCTOR, OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION. PROVIDE ITEMS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
- BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES AND CONFIGURATION. SINGLE CIRCUIT HOMERUNS SERVED FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION 26 SPECIFICATIONS UNLESS INDICATED OTHERWISE. EXTEND AND CONNECT BRANCH CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED AT HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND SIZING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZE #12 AWG.
- PROVIDE CORE DRILLS TO ACCOMMODATE SCOPE OF ELECTRICAL WORK INCLUDED WITHIN CONSTRUCTION DOCUMENTS. ARCHITECTURAL SUB PENETRATION PLANS DO NOT SHOW ALL REQUIRED CORE DRILL LOCATIONS.
- CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 3%.

KEYNOTE LEGEND - NEW WORK	
Key Value	Keynote Text
E3	UTILIZE EXISTING CIRCUIT SERVING PERIMETER SPACE TO SERVE ANY RE-LOCATED OR NEW RECEPTACLES. REPLACE EXISTING TO REMAIN DEVICE COVER PLATES WITH NEW TO MATCH NEW DEVICES.
E4	EXISTING NETWORK RACKS, SECURITY PANELS, FIRE ALARM PANEL, AND ASSOCIATED CABLEING TO REMAIN IN SERVER ROOM.
E9	HEAT PUMP SERVED BY CU. CONNECTIONS FROM CU TO HP BY MECHANICAL CONTRACTOR.



1 SOUTH WING - LEVEL 2 ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

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Project Component	Key Plan
-------------------	----------

Consultants	Survey: Civil: Architecture: Structural: Mechanical: Electrical: Interiors: Landscape:
-------------	---

Seal(s)

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150 W. Jefferson Avenue., Suite 1300
Detroit, MI 48226
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Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
3415 28th Street
Port Huron, MI 48000

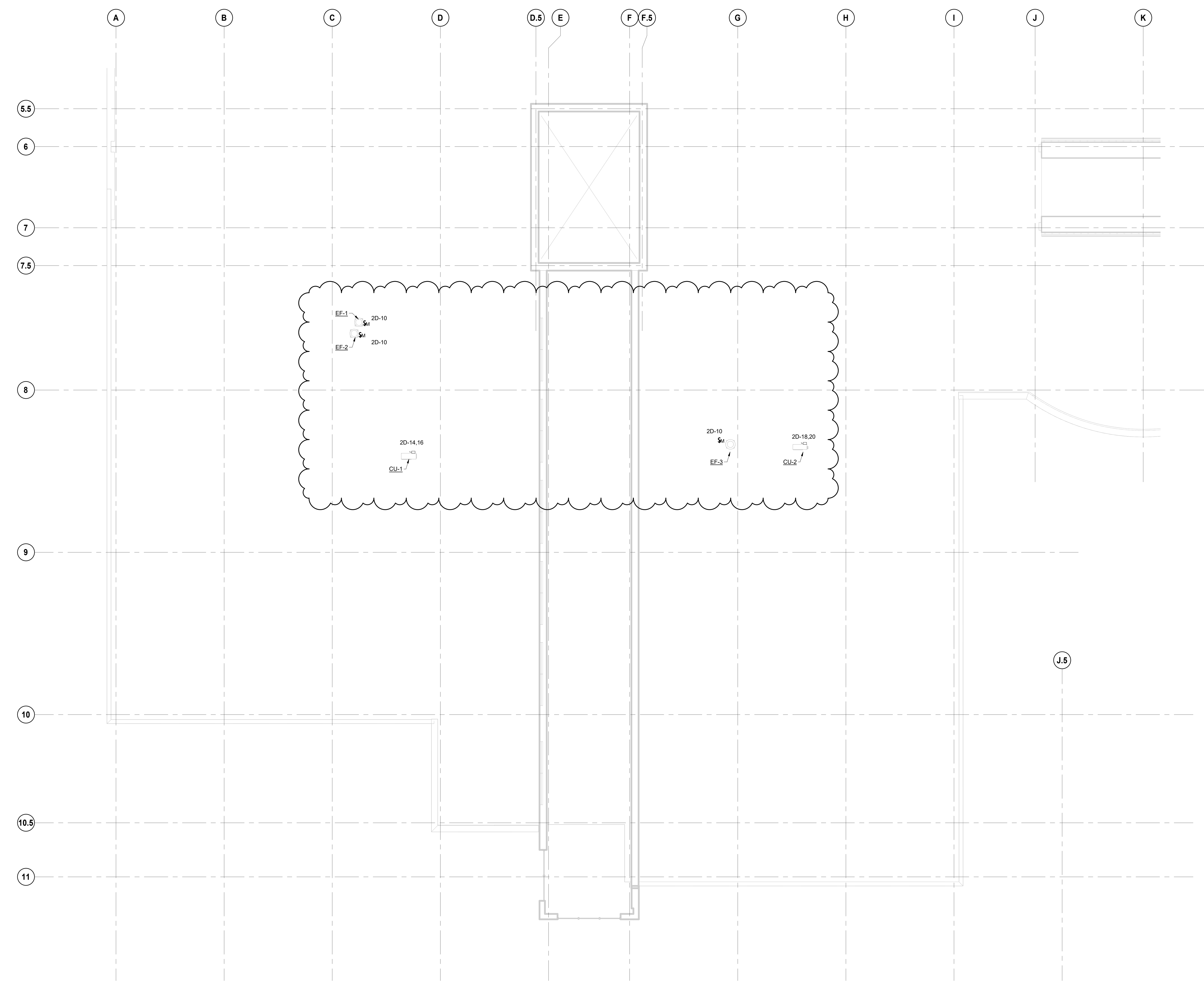
Drawing Title
SOUTH WING - LEVEL 2 ELECTRICAL PLAN

Scale	1/8" = 1'-0"
Project No.	JCDT-23-0185
Drawing No.	E10-02

Author: Project E10 - South Wing Health Department Relocation/23/23/24/06 - E10 - Electrical/HealthDept/1

GENERAL NOTES

1. DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING GASWORK SHOP DRAWINGS AND ARCHITECTS INTERIOR ELEVATIONS PRIOR TO ROUGH-IN. COORDINATE DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
2. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
3. COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
4. THE ELECTRICAL DRAWINGS ARE DIAGNOSTIC AND DO NOT NECESSARILY SHOW EVERY RACEWAY, BOX, CONDUCTOR, OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION. PROVIDE ITEMS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
5. BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES AND CONFIGURATION. SINGLE-CIRCUIT HOMERUNS SERVED FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION 25 SPECIFICATIONS. UNLESS INDICATED OTHERWISE, EXTEND AND CONNECT BRANCH CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED AT HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND CIRCUITING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZE #12 AWG.
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7. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 5%.



1 SOUTH WING - ROOF ELECTRICAL PLAN
E10-03
SCALE: 1/8" = 1'-0"

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Project Component
Key Plan

Consultants
Survey:
Civil:
Architecture:
Structural:
Mechanical:
Electrical:
Interiors:
Landscape:

Seal(s)

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Detroit, MI, US 48226
norrr.com

Project Manager B. Colburn	Drawn Author
Project Leader	Checked Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
3415 28th Street
Port Huron, MI
48060

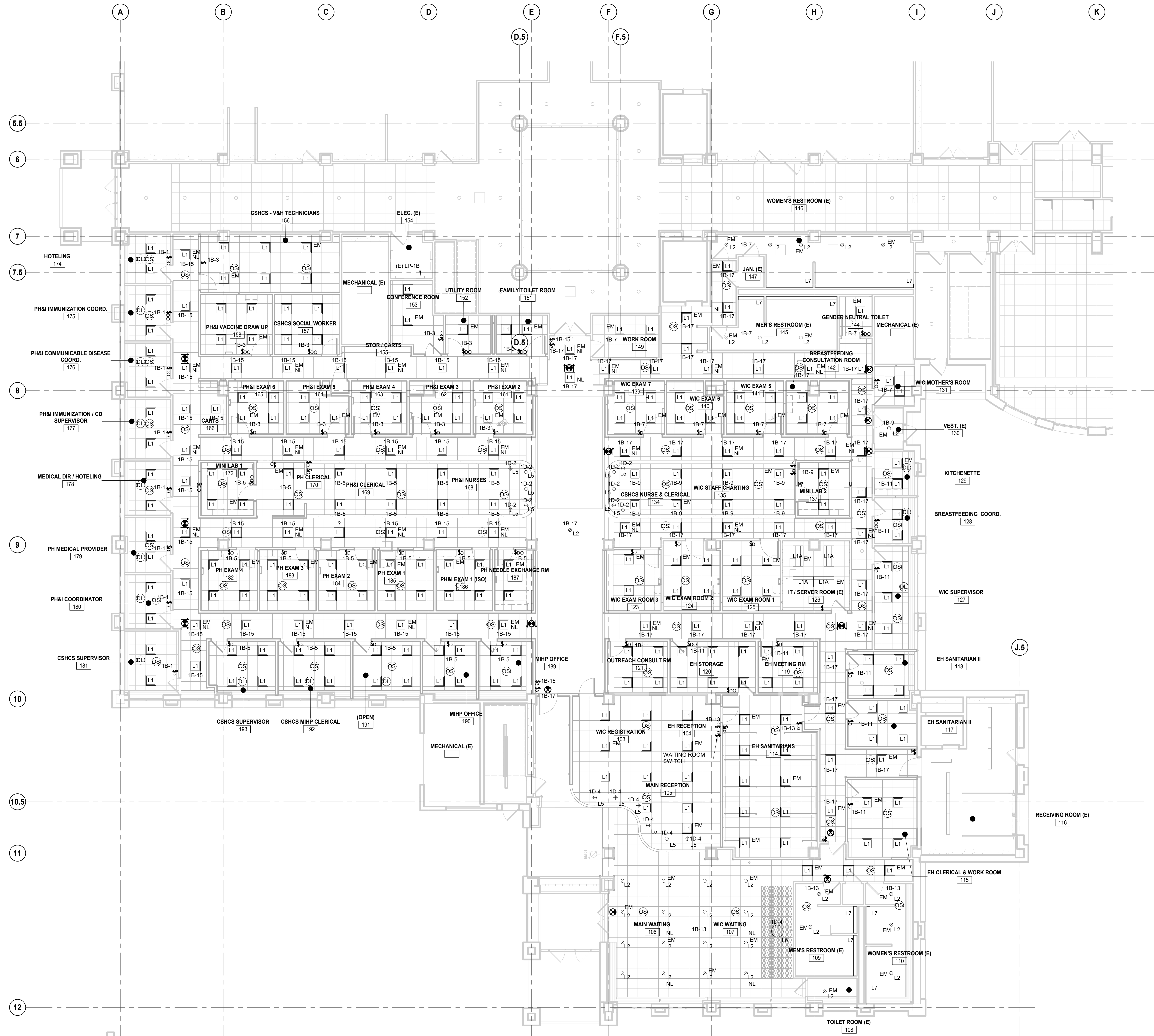
Drawing Title
SOUTH WING - ROOF ELECTRICAL PLAN

Scale
1/8" = 1'-0"

Project No.
JCDT-23-0185

Drawing No.
E10-03

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	BID ADDENDUM 01	2



1 LEVEL 1 LIGHTING - SHEET
 E20-01 SCALE: 1/8" = 1'-0"

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Project Component
Key Plan

Consultants
Survey:
Civil:
Architecture:
Structural:
Mechanical:
Electrical:
Interiors:
Landscape:

Seal(s)

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 150 W. Jefferson Avenue., Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
	Checker

Client
St. Clair County Health Department

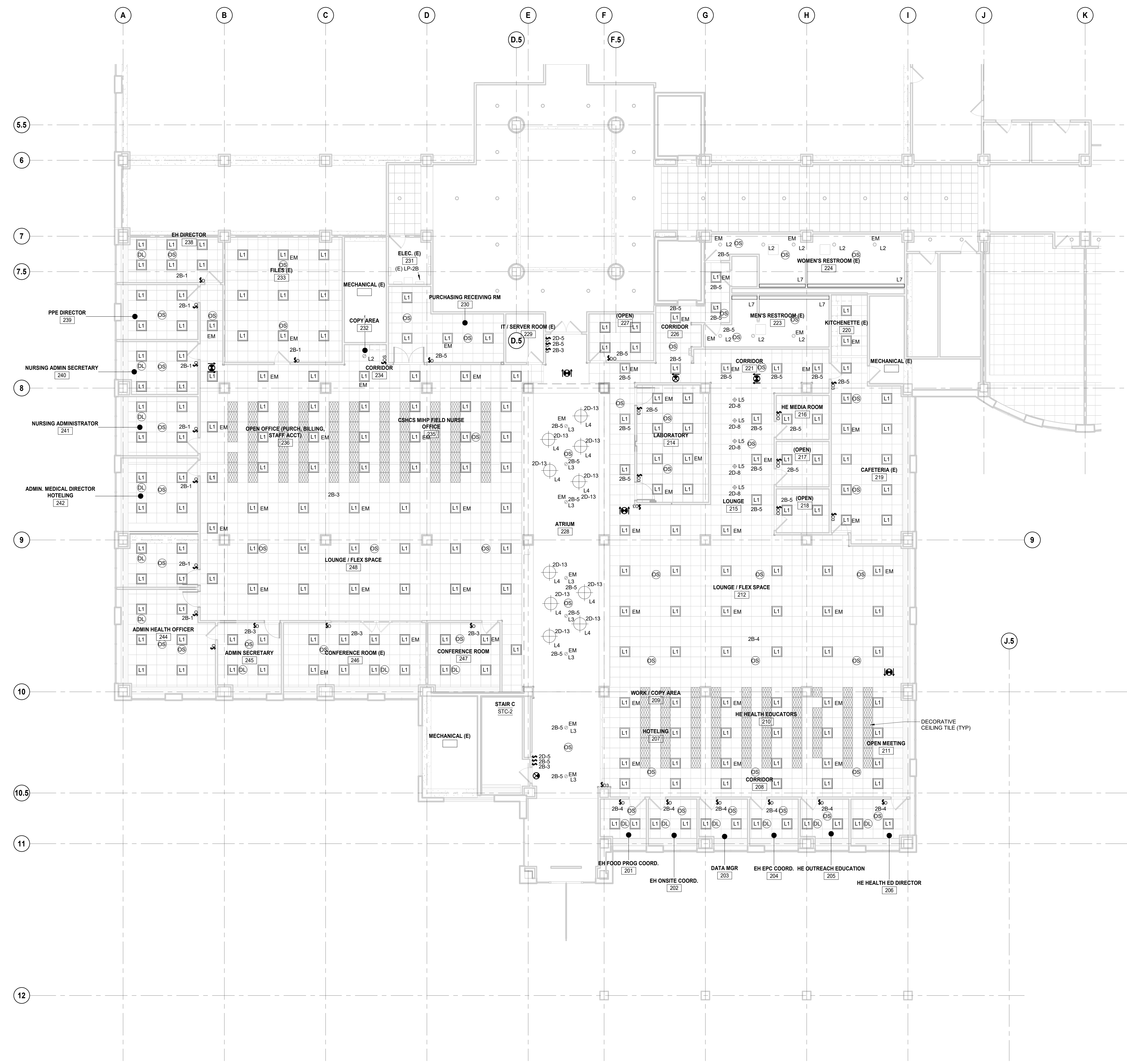
Project
St. Clair County Health Department Relocation
 3415 28th Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - LEVEL 1 LIGHTING PLAN

Scale
 1/8" = 1'-0"

Project No.
 JCDT-23-0185
 Drawing No.
E20-01

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	BID ADDENDUM 01	2



1 LEVEL 2 LIGHTING - SHEET
 E20-02 SCALE: 1/8" = 1'-0"

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Project Component	
Key Plan	

Consultants	
Survey:	
Civil:	
Architecture:	
Structural:	
Mechanical:	
Electrical:	
Interiors:	
Landscape:	

Seal(s)

NORR
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 Detroit, MI, US 48226
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Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
	Checker

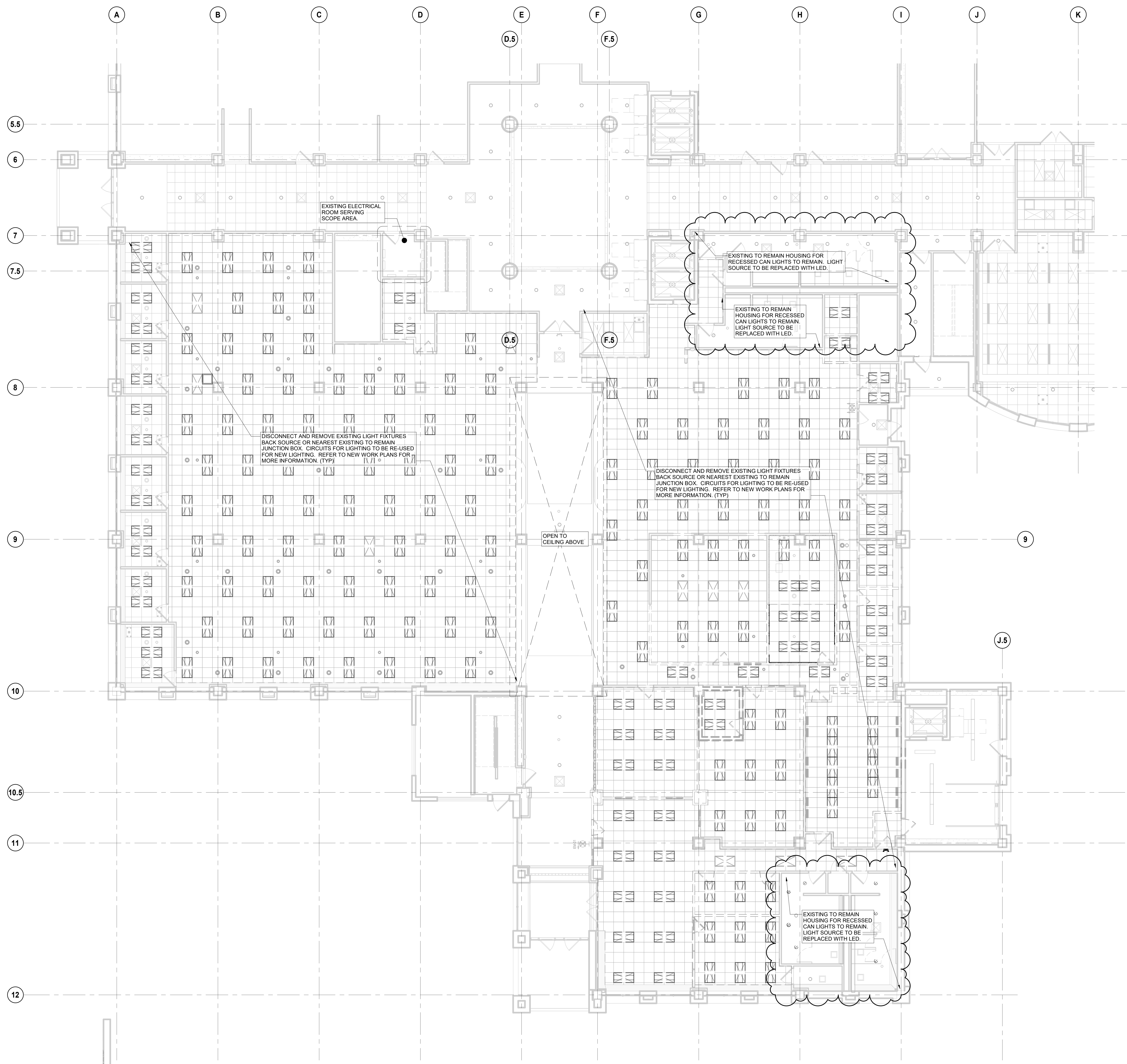
Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 3415 28th Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - LEVEL 2 LIGHTING PLAN

Scale	1/8" = 1'-0"
Project No.	JCDT-23-0185
Drawing No.	E20-02

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	BID ADDENDUM 01	2



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Project Component	
Key Plan	

Consultants	
Survey:	
Civil:	
Architecture:	
Structural:	
Mechanical:	
Electrical:	
Interiors:	
Landscape:	

Seal(s)

NORR
 150 W. Jefferson Avenue., Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager	Drawn
B. Colburn	Author
Project Leader	Checked
	Checker

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 3415 28th Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING LEVEL 1 - LIGHTING DEMOLITION PLAN

Scale
 1/8" = 1'-0"

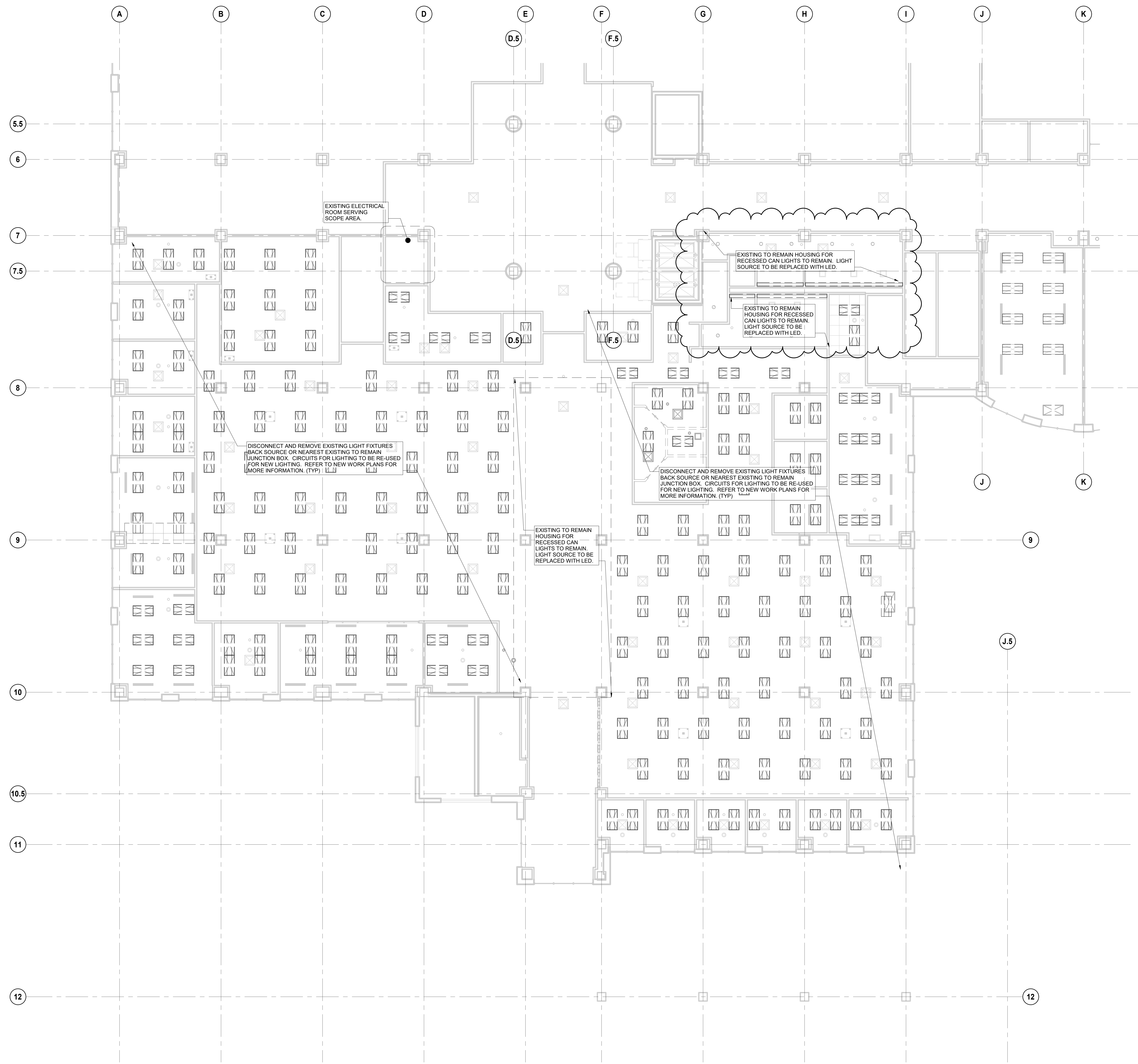
Project No.
 JCDT-23-0185

Drawing No.
E81-01

1 LEVEL 1 - DEMO - SHEET
 E81-01 SCALE: 1/8" = 1'-0"

Andrew Powell, Civil, Clair County Health Department, 3415 28th Street, Port Huron, MI 48060

DATE	ISSUED FOR	REV
4/24/2024	BID	1
5/10/2024	BID ADDENDUM 01	2



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Project Component

Key Plan

Consultants
 Survey:
 Civil:
 Architecture:
 Structural:
 Mechanical:
 Electrical:
 Interiors:
 Landscape:

Seal(s)

NORR
 150 W. Jefferson Avenue., Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager	Drawn
B. Colburn	S. Callesco
Project Leader	Checked
	M. Good

Client
St. Clair County Health Department

Project
St. Clair County Health Department Relocation
 3415 28th Street
 Port Huron, MI
 48060

Drawing Title
SOUTH WING - LEVEL 2 LIGHTING DEMOLITION PLAN

Scale
 1/8" = 1'-0"

Project No.
 JCDT-23-0185

Drawing No.
E81-02

1 LEVEL 2 - DEMO - SHEET
 SCALE: 1/8" = 1'-0"

4/24/2024 12:27:24
 Andrew Powell, Civil, Clair County Health Department, 3415 28th Street, Port Huron, MI 48060

Reason for Issue

Bid Addendum 01

Date

May 9, 2024

Project Information

St Clair County Health Department Garage

NORR Project No.

JCDT23-0185

Intent

This **TRANSMITTAL** is issued to provide new and/or updated project documents to capture the Bid Addendum Clarifications as related to the St Clair County Health Department Garage BID Plans issued to MNIT on 4/26/2024.

Drawings

The following DRAWINGS accompany and form a part of this **TRANSMITTAL**.

ARCHITECTURAL

Revised Drawings: A10-01, A21-02, A40-01, A42-01, A71-01

SPECIFICATIONS

Revised Specification Sections:

Section 075323 - CARL-EPDM Thermoset Single-Ply Roofing - Carlisle-05-06-2024

Section 083323 - RIB-Overhead Coiling Doors-05-07-2024

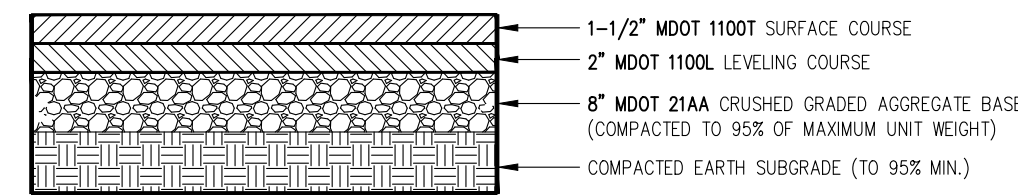
ARCHITECTURAL DRAWING REVISIONS

1. Sheet A10-01 – ARCHITECTURAL SITE PLAN
 - a. Revised sheet to include site plans details as indicated.
 - b. Revised Site Plan to include notes as indicated.
2. Sheet A21-02 – FLOOR, LIFE SAFETY, RCP AND ROOF PLANS
 - a. Revised plan to include Fully Adhered 0.60 EPDM roofing system and 2:12 roof pitch as indicated.
3. Sheet A40-01 – EXTERIOR ELEVATIONS AND SECTIONS
 - a. Revised sections to include 2:12 pitch roof as indicated.
 - b. Revised sections to include metal hood for coiling doors as indicated.
 - c. Revised elevations to exclude vision panels.
4. Sheet A42-01 – WALL SECTIONS
 - a. Revised wall sections to include 2:12 roof pitch and Fully Adhered 0.60 EPDM roofing system as indicated.

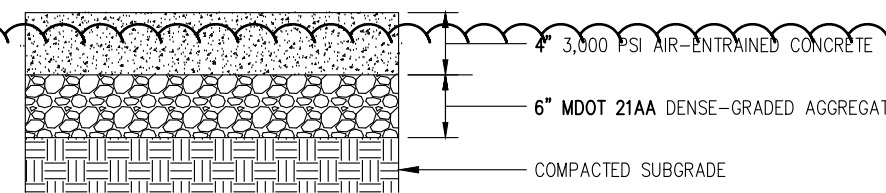
5. Sheet A71-01 -SCHEDULES AND PLAN DETAILS
 - a. Revised detail 1 to include Fully Adhered 0.60 EPDM roofing system and 2:12 roof pitch as indicated.

END OF BID ADDENDMUM WRITE-UP

5/12/2024 10:06:42 AM

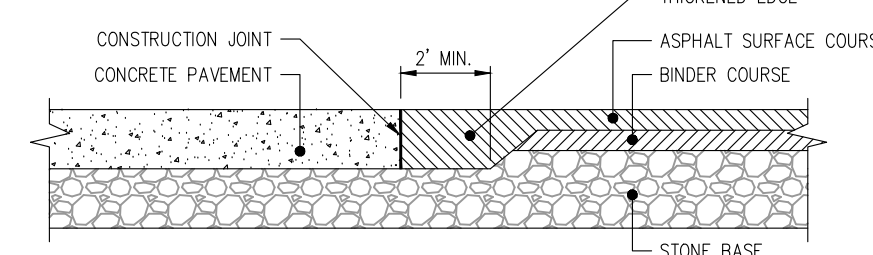


STANDARD DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE

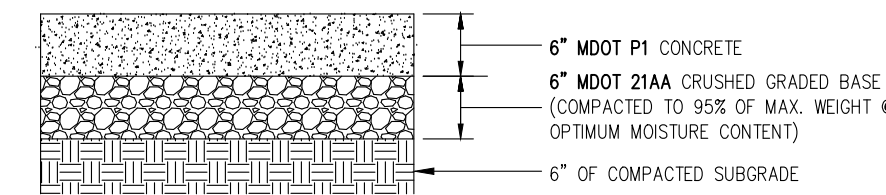


NOTES:
1. CONSTRUCTION JOINTS SPACE SHALL BE EQUAL TO SIDEWALK WIDTH 1-1/2 INCHES DEEP.
2. MASTIC EXPANSION JOINTS SHALL BE PROVIDED WHEREVER THE SIDEWALK ABUTS EXISTING/PROPOSED PAVEMENT.

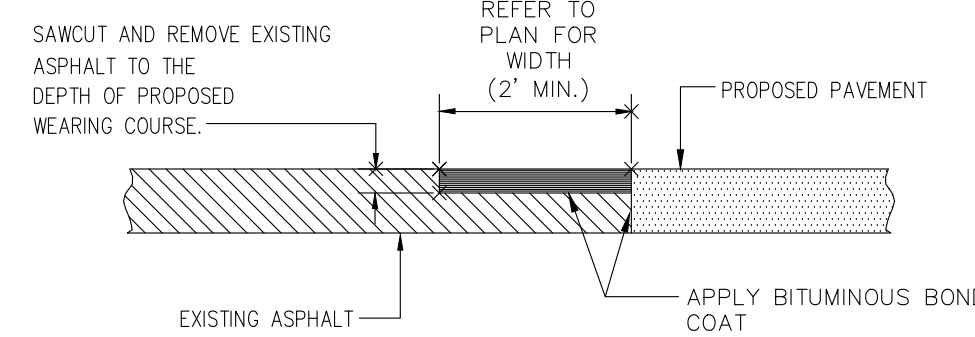
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



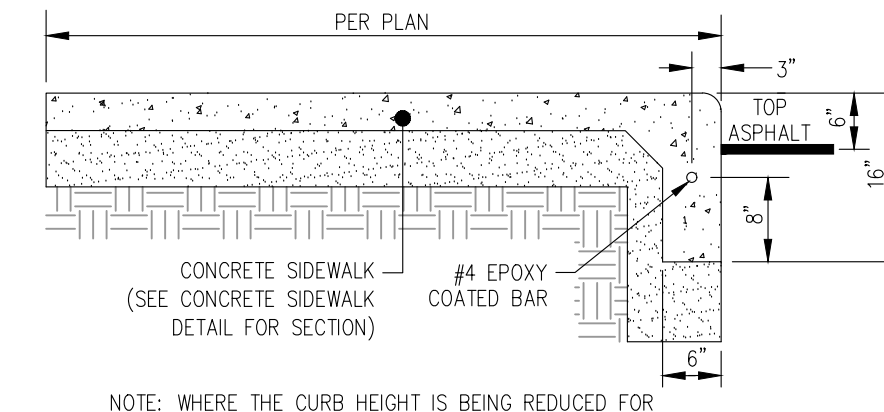
CONCRETE/ASPHALT JOINT DETAIL
NOT TO SCALE



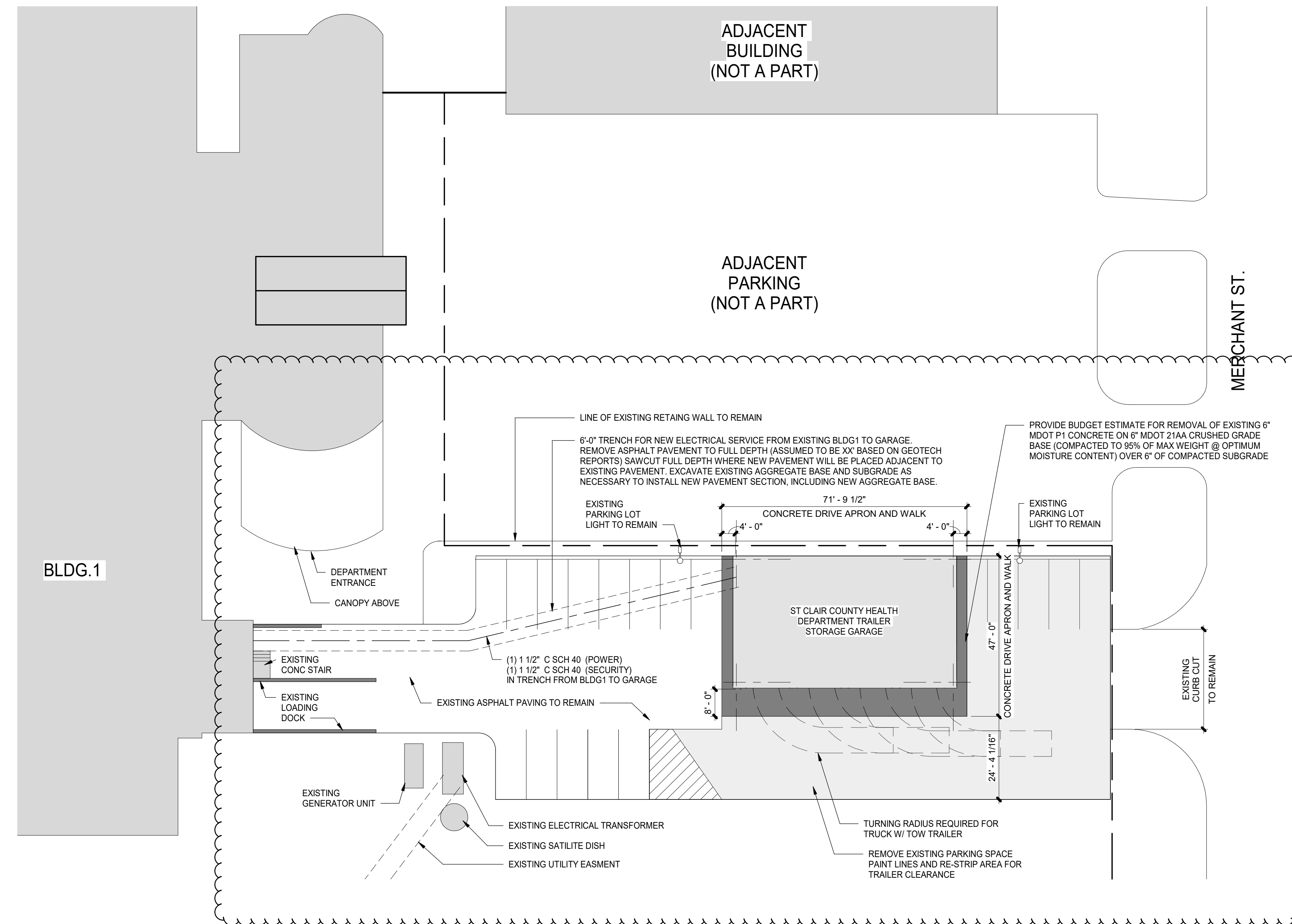
STANDARD CONCRETE PAVEMENT SECTION
NOT TO SCALE



BUTT JOINT DETAIL
NOT TO SCALE



INTEGRAL CURB & SIDEWALK
NOT TO SCALE



PROPOSED SITE PLAN
SCALE: 1" = 20'-0"

DATE	ISSUED FOR	REV
4-22-2024	BID	
5-09-2024	ADDENDUM 1	1

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Project Component
Key Plan

Consultants
Survey:
Civil:
Architecture: NORR
Structural: NORR
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Landscape:

Seal(s)

NORR

NORR OFFICE ADDRESS
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Project Manager B. Colburn	Drawn Author
Project Leader J. Brock	Checked Checker

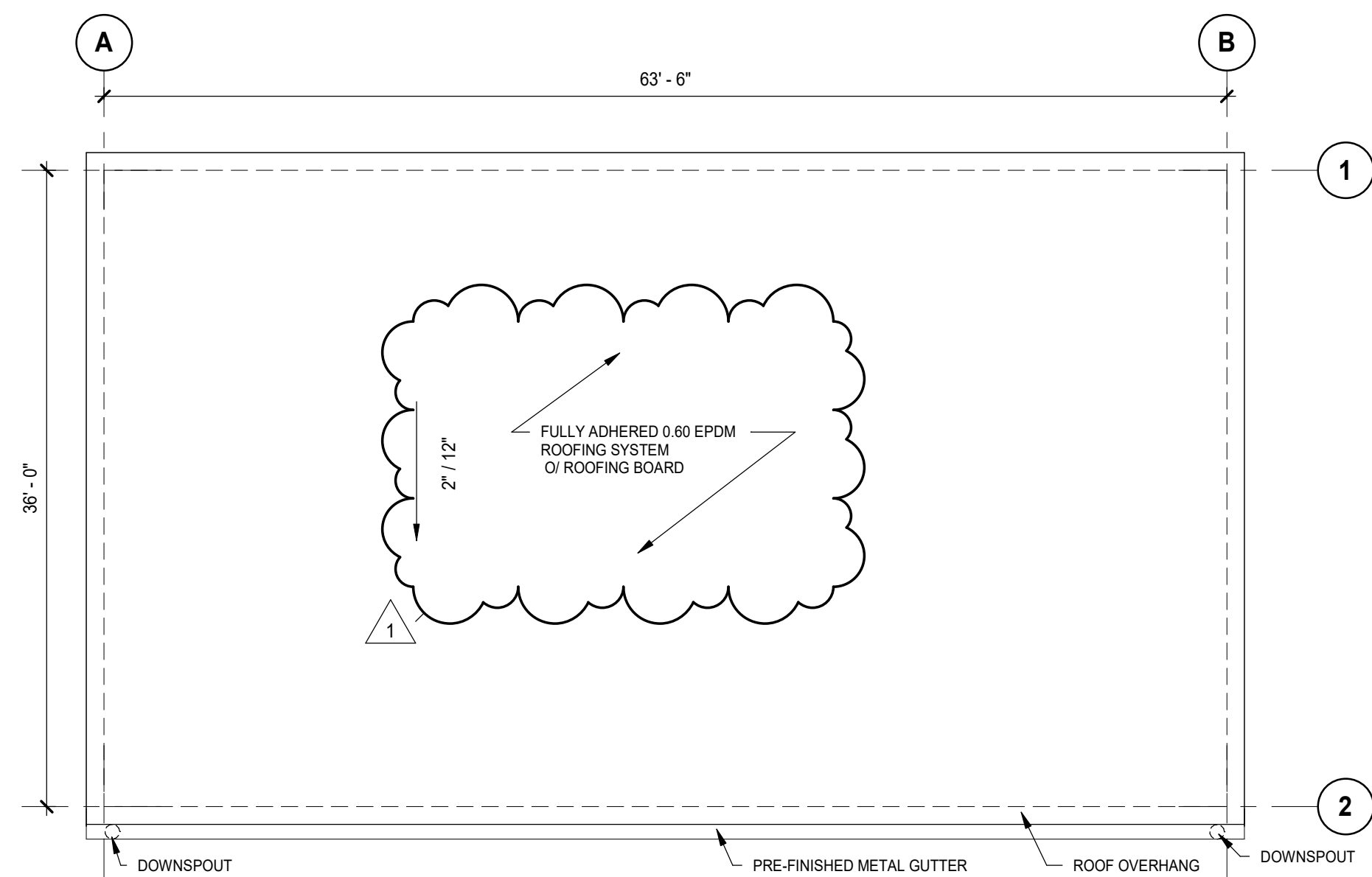
Client
St. Clair County Health Department

Project
Garage Building

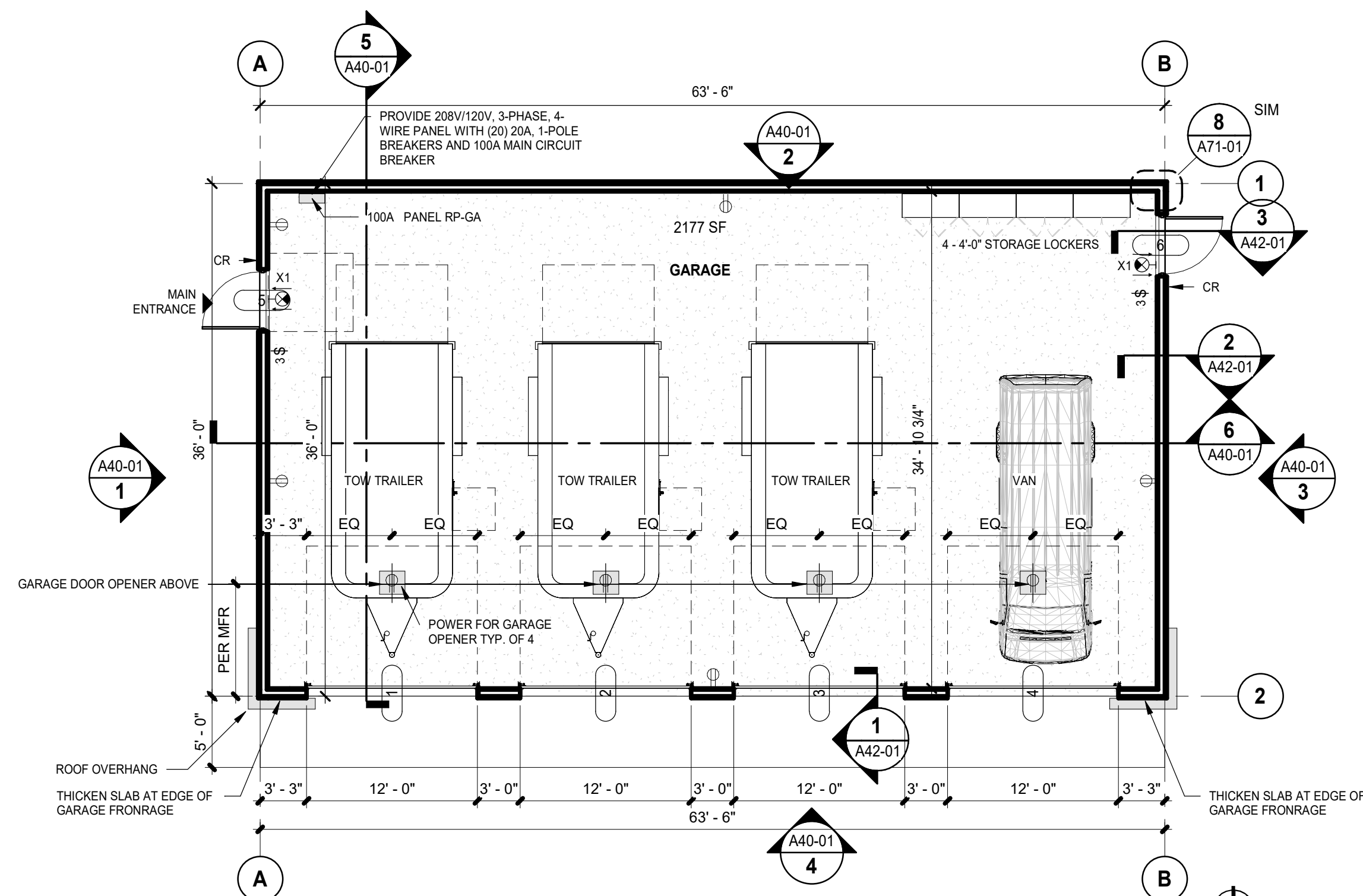
220 Fort Street
Port Huron, MI
48060

Drawing Title
ARCHITECTURAL SITE PLAN

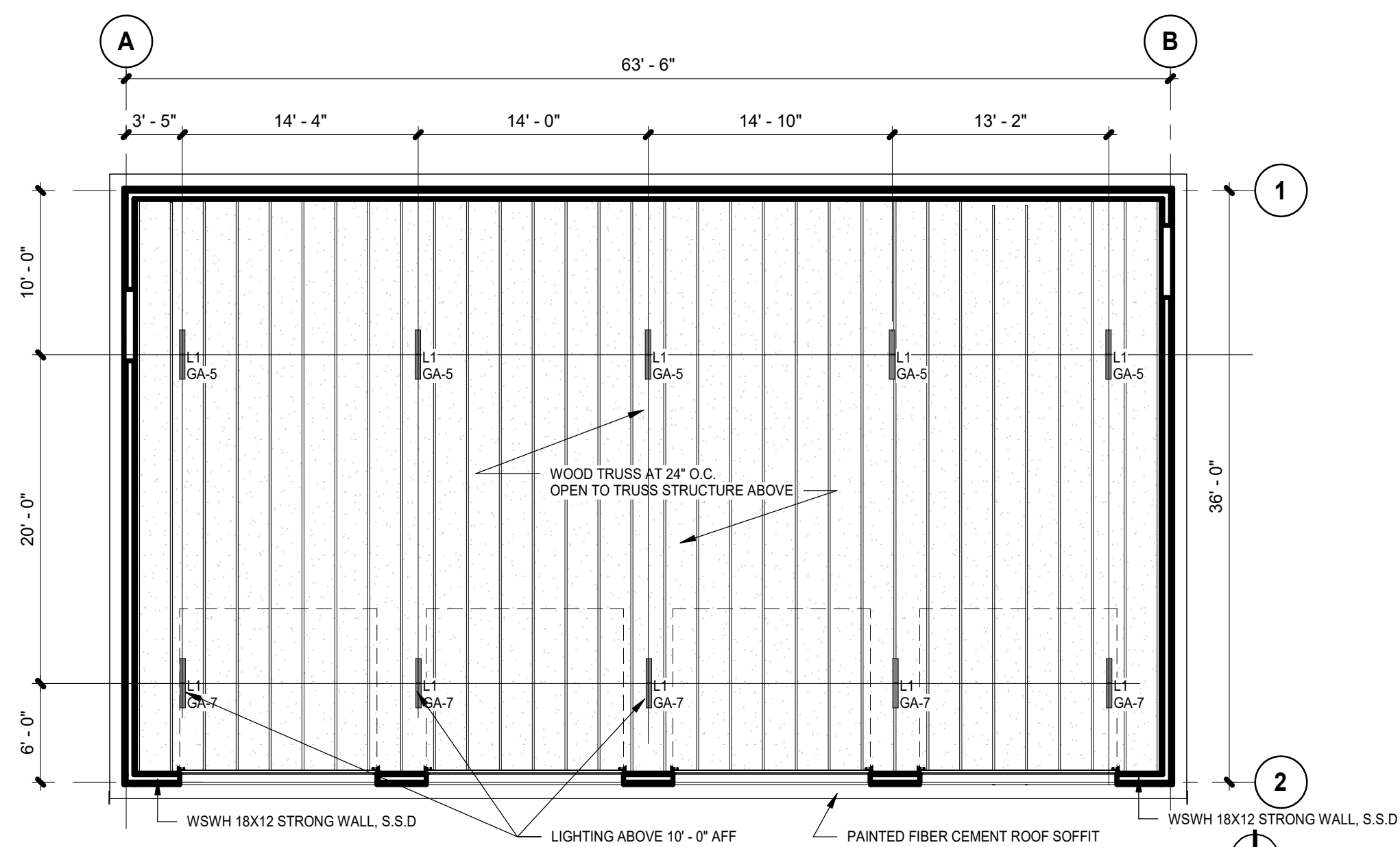
Scale	1" = 20'-0"
Project No.	JCDT23-0185
Drawing No.	A10-01



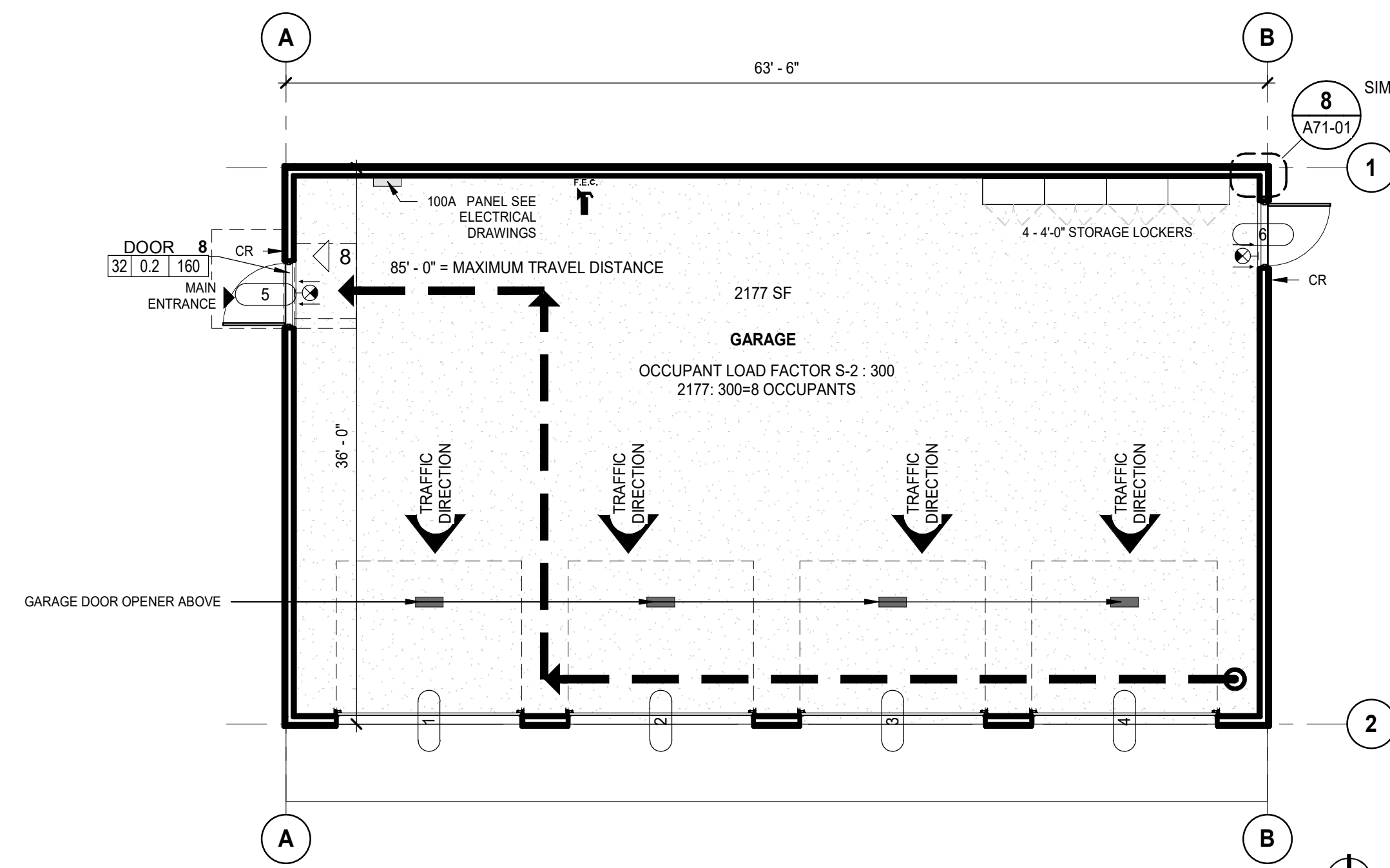
2 GARAGE - ROOF PLAN
SCALE: 1/8" = 1'-0"



1 GARAGE - FLOOR PLAN
SCALE: 1/8" = 1'-0"



3 GARAGE - FRAMING PLAN
SCALE: 1/8" = 1'-0"



4 GARAGE - LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES - PLANS

- A. REFER TO EXTERIOR ELEVATIONS FOR FINISHES.
- B. SEE STRUCTURAL FOR STRUCTURAL ELEMENTS.

LIGHTING FIXTURE LEGEND

- L1 - LITHONIA # CLX L48 10000 LM SEF FDL MVOLT GZ10 40K 80 CR1WH, WITH AIRCRAFT CABLING AS REQUIRED. SUSPEND LIGHT FIXTURE AT 10'-0" AFF
- X1 - LITHONIA - LQM SERIES EXIT SIGN, WALL MOUNT 7'-6" AFF

LIFE SAFETY PLAN LEGEND

- MAXIMUM TRAVEL DISTANCE FROM FARTHEST POINT
- ILLUMINATED EXIT SIGN ABOVE THE DOOR WITH TACTILE EXIT SIGNS WITHIN 12" OF LATCHSIDE JAMB AT DOOR @ LOCATION OF SYMBOL
- 18" CLR TACTILE EXIT SIGNAGE WITH 18"X18" CLEAR SPACE CENTERED ON TACTILE CHARACTERS. SEE DETAIL IN THIS SET, FOR MOUNTING LOCATIONS
- F.E.C. PROVIDE LISTED AND LABELED DRY-CHEMICAL UL-RATED FIRE EXTINGUISHER - SURFACE MOUNTED ON RATED AND AT NEW LOCATIONS ON EXISTING WALLS, SEMI-RECESSED OTHERWISE. SEE DETAIL IN THIS SET FOR MOUNTING HEIGHT
- EXITING OCCUPANT COUNT
- ADA TURNING RADIUS & CLEARANCES
- WALL - MOUNTED ILLUMINATED EXIT SIGNAGE
- EXIT COMPONENT
- OC - OCCUPANT LOAD
- XX - MAX OCCUPANT LOAD
- XXX - LOAD FACTOR
- COMPONENT WIDTH

DATE	ISSUED FOR	REV
4-22-2024	BID	
5-09-2024	ADDENDUM 1	1

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Project Component

Key Plan

Consultants
Survey:
Civil:
Architecture: NORR
Structural:
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Landscape:

Seal(s)

NORR

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Project Manager B. Colburn	Drawn Author
Project Leader J. Brock	Checked Checker

Client
St. Clair County Health Department

Project
Garage Building

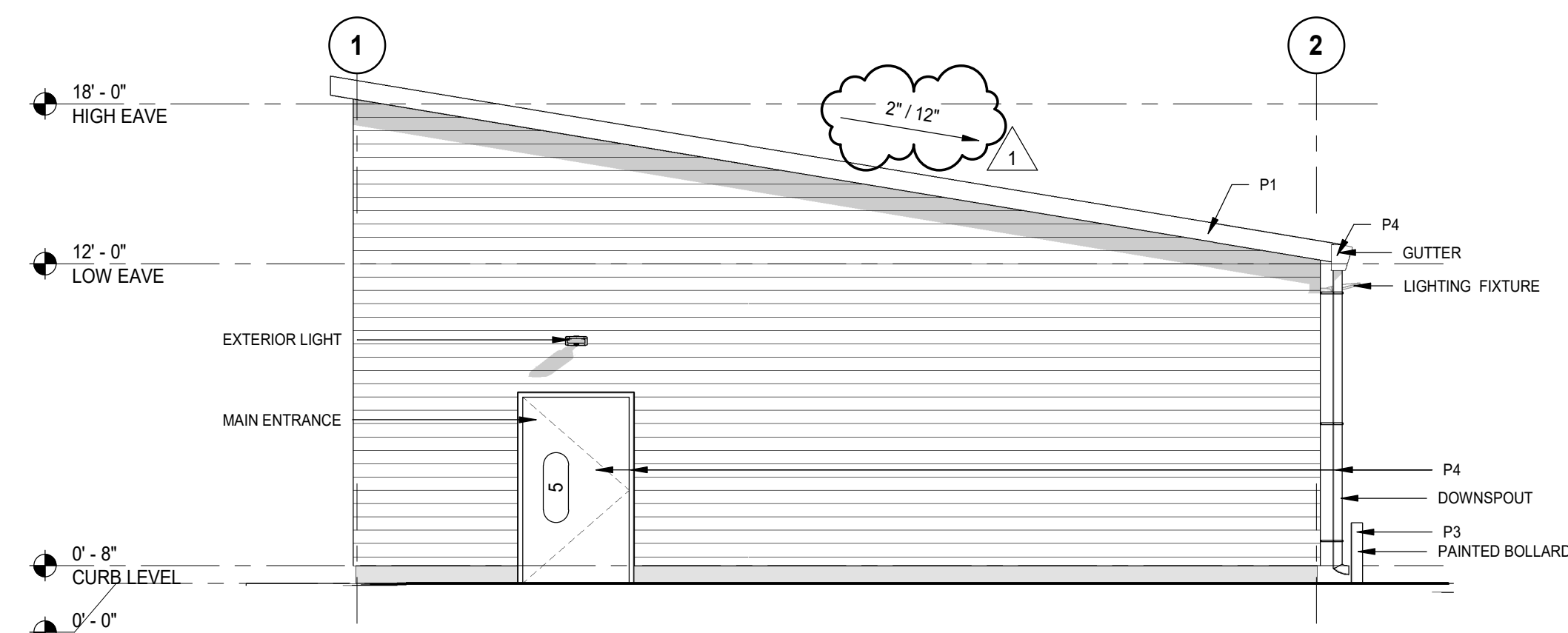
220 Fort Street
Port Huron, MI
48060

Drawing Title
FLOOR, LIFE SAFETY, RCP AND ROOF PLANS

Scale
As indicated

Project No.
JCDT23-0185

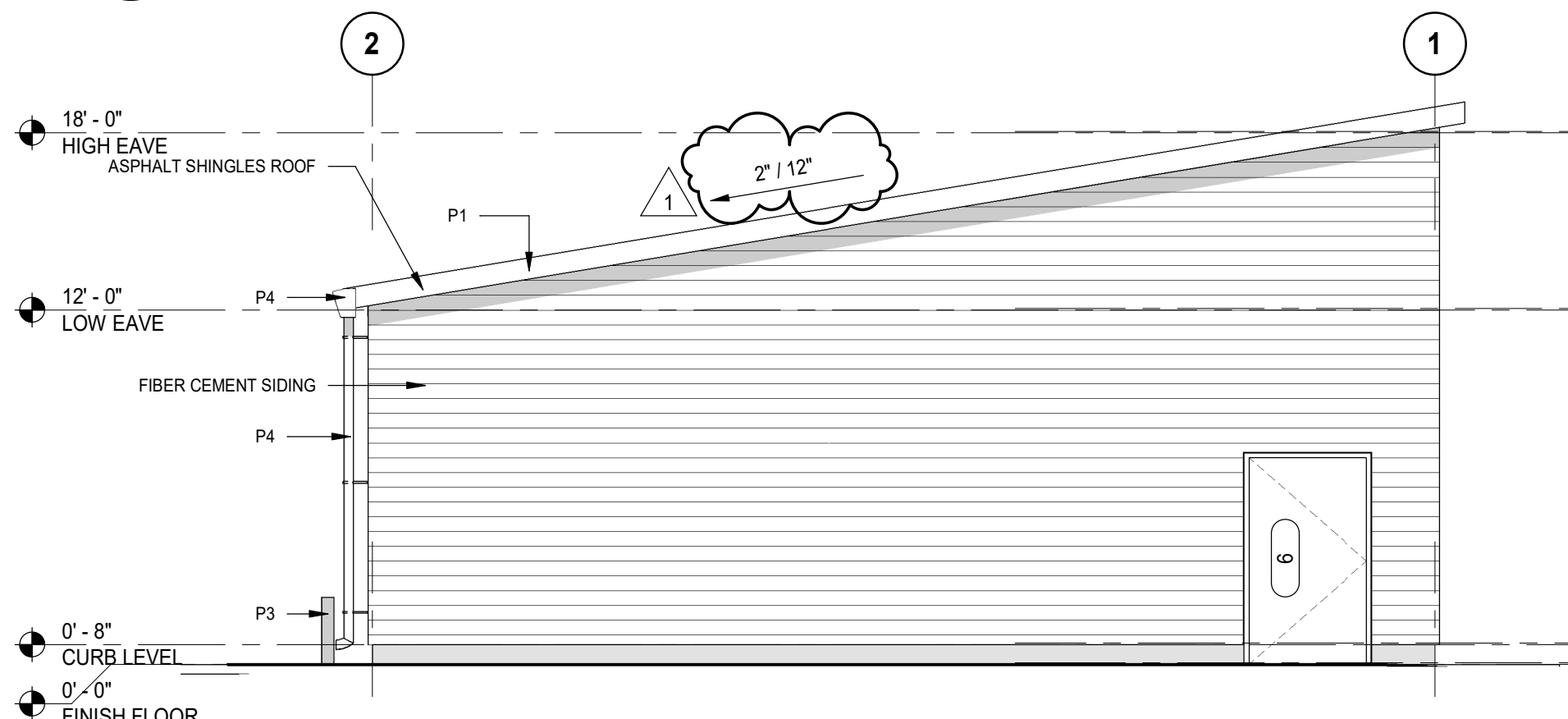
Drawing No.
A21-02



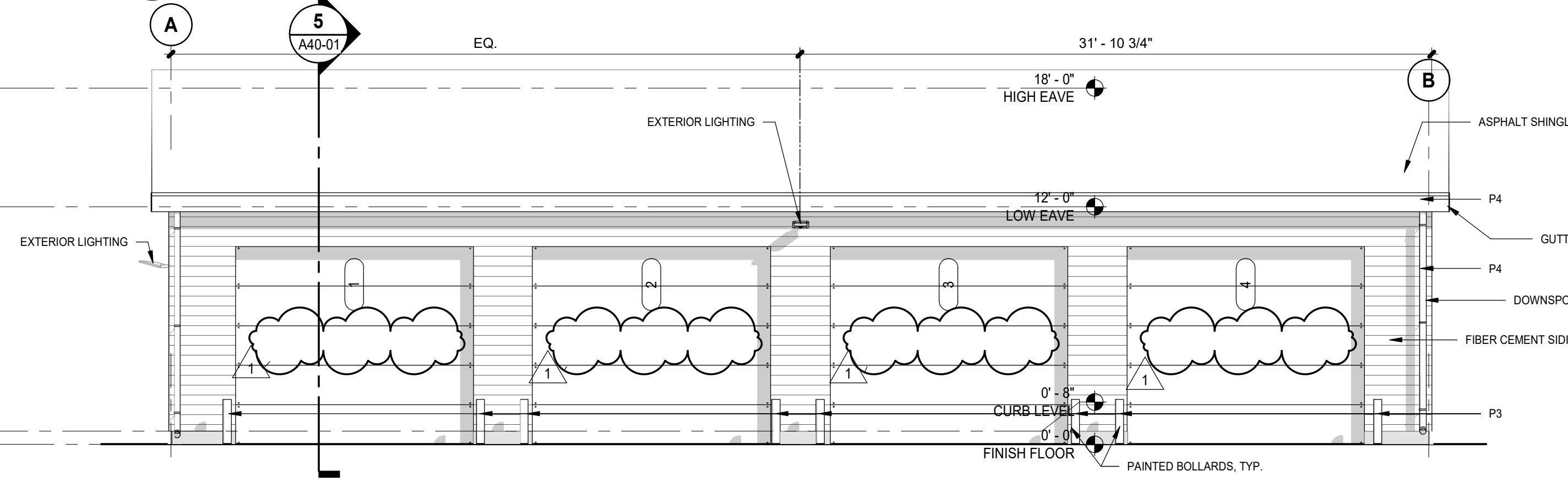
1 GARAGE - EAST ELEVATION
SCALE: 3/16" = 1'-0"



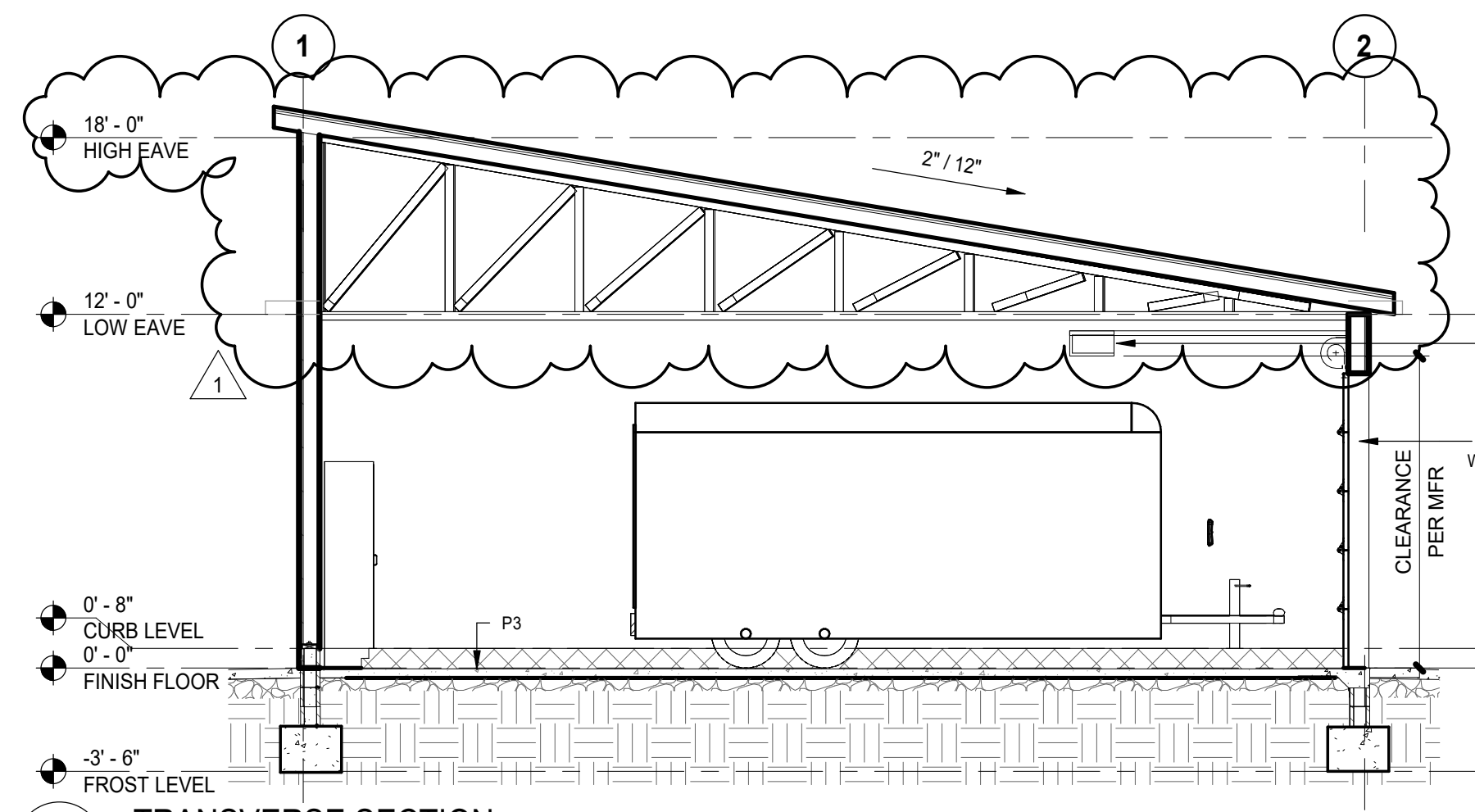
2 GARAGE - SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



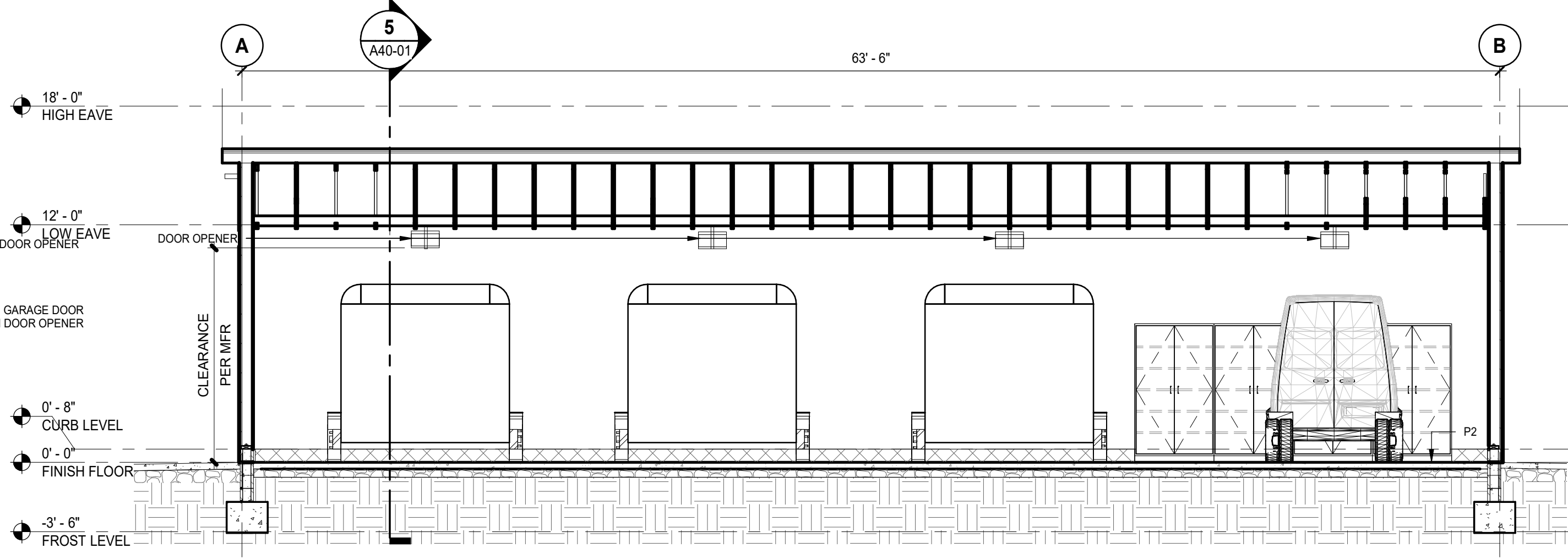
3 GARAGE - WEST ELEVATION
SCALE: 3/16" = 1'-0"



4 GARAGE - NORTH ELEVATION
SCALE: 3/16" = 1'-0"



5 TRANSVERSE SECTION
SCALE: 3/16" = 1'-0"



6 LONGITUDINAL SECTION
SCALE: 3/16" = 1'-0"

GENERAL NOTES - ELEVATIONS

A. REFER TO SECTIONS AND DETAILS FOR EXTERIOR WALL ASSEMBLIES INFORMATION.

FINISH SCHEDULE

MARK	TYPE	COLOR	NOTES
P1	EXTERIOR WOOD	MATCH FIBER CEMENT SIDING	FASCIA
P2	ACRYLIC SEALER	CLEAR	EXPOSED CONCRETE
P3	EPOXY	SAFETY YELLOW	BOLLARDS
P4	URETHANE ENAMEL	GRAY	GUTTER, DOWNSPOUTS, DOORS/ FRAMES.

DATE	ISSUED FOR	REV
4-22-2024	BID	
4-24-2024	PERMIT	
5-09-2024	ADDENDUM 1	1

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Project Component

Key Plan

Consultants
Survey:
Civil:
Architecture: NORR
Structural: NORR
Mechanical: NORR
Electrical: NORR
Interiors: NORR
Landscape:

Seal(s)

NORR

NORR OFFICE ADDRESS
norr.com

Project Manager B. Colburn	Drawn Author
Project Leader J. Brock	Checked Checker

Client
St. Clair County Health Department

Project
Garage Building

220 Fort Street
Port Huron, MI
48060

Drawing Title
EXTERIOR ELEVATIONS AND SECTIONS

Scale
As indicated

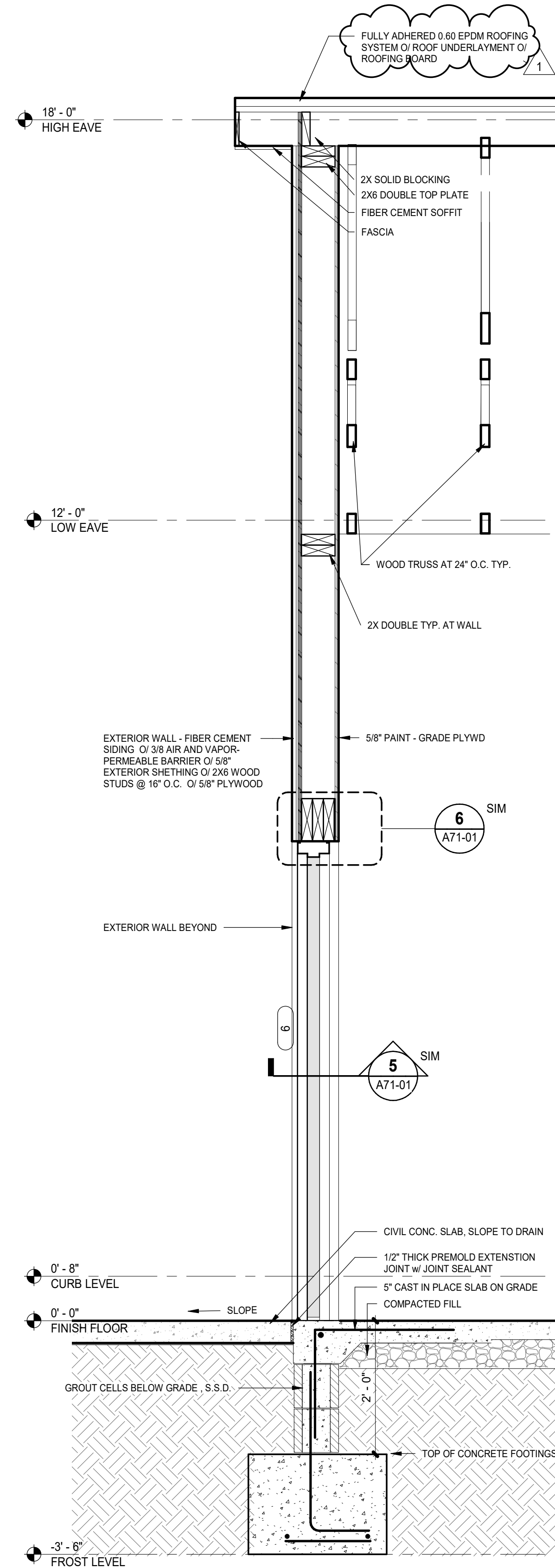
Project No.
JCdT23-0185

Drawing No.
A40-01

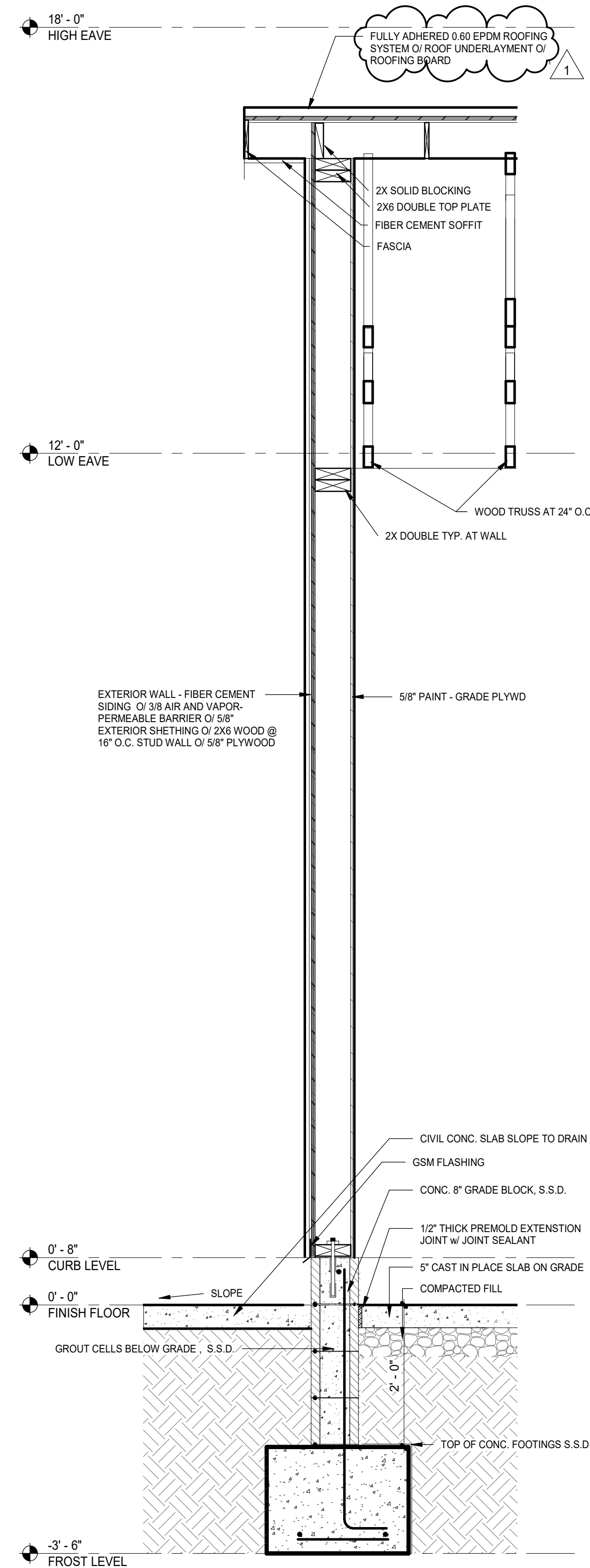
DATE	ISSUED FOR	REV
5-09-2024	ADDENDUM 1	1

GENERAL NOTES - SECTIONS

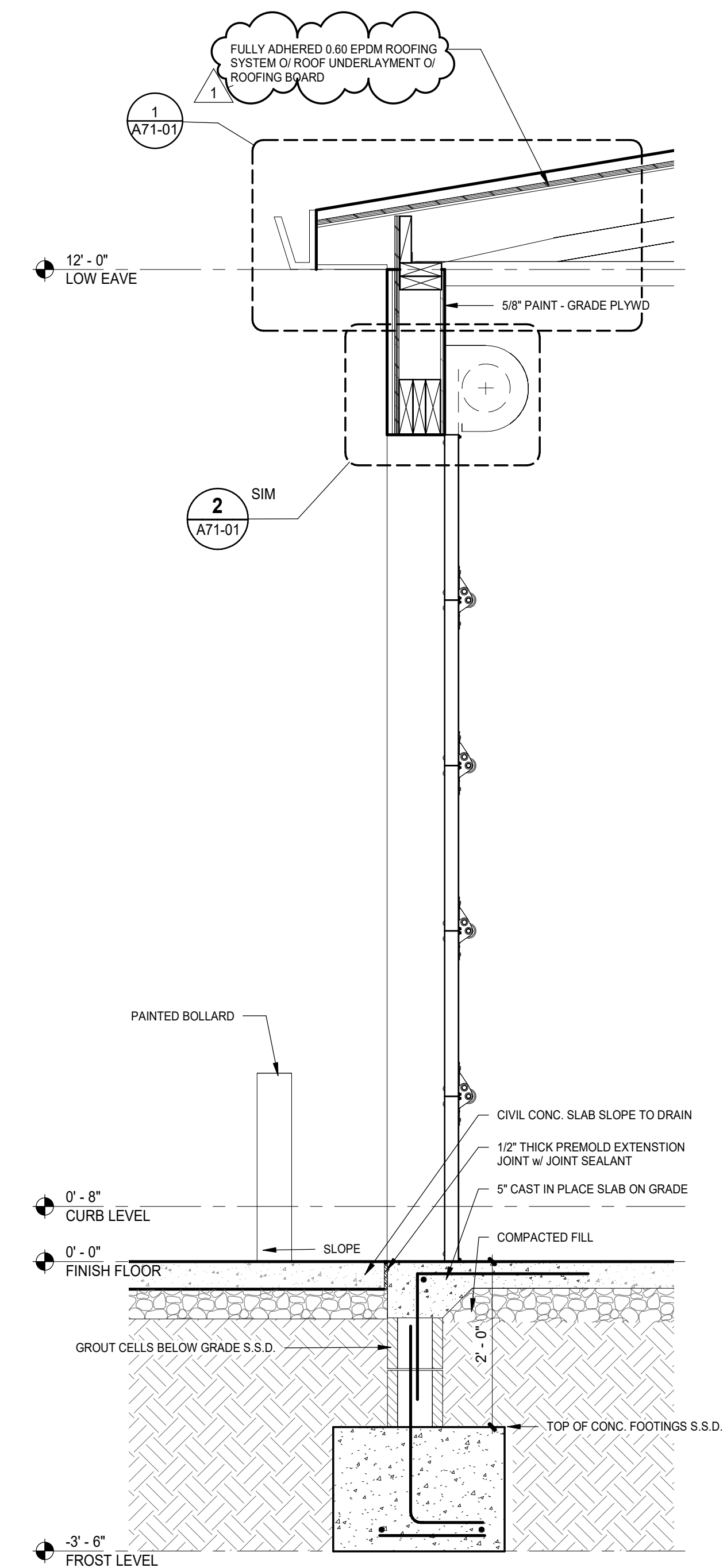
- A. REFER TO EXTERIOR ELEVATIONS FOR FINISHES.
- B. SEE STRUCTURAL FOR STRUCTURAL ELEMENTS.



3 WALL SECTION THRU WALL
A42-01 SCALE: 3/4" = 1'-0"



2 WALL SECTION THRU WALL
A42-01 SCALE: 3/4" = 1'-0"



1 WALL SECTION THRU ROLL UP DOOR
A42-01 SCALE: 3/4" = 1'-0"

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Project Manager B. Colburn Author	Drawn Author
Project Leader J. Brock Checked	Checked Checker

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St. Clair County Health Department

Project
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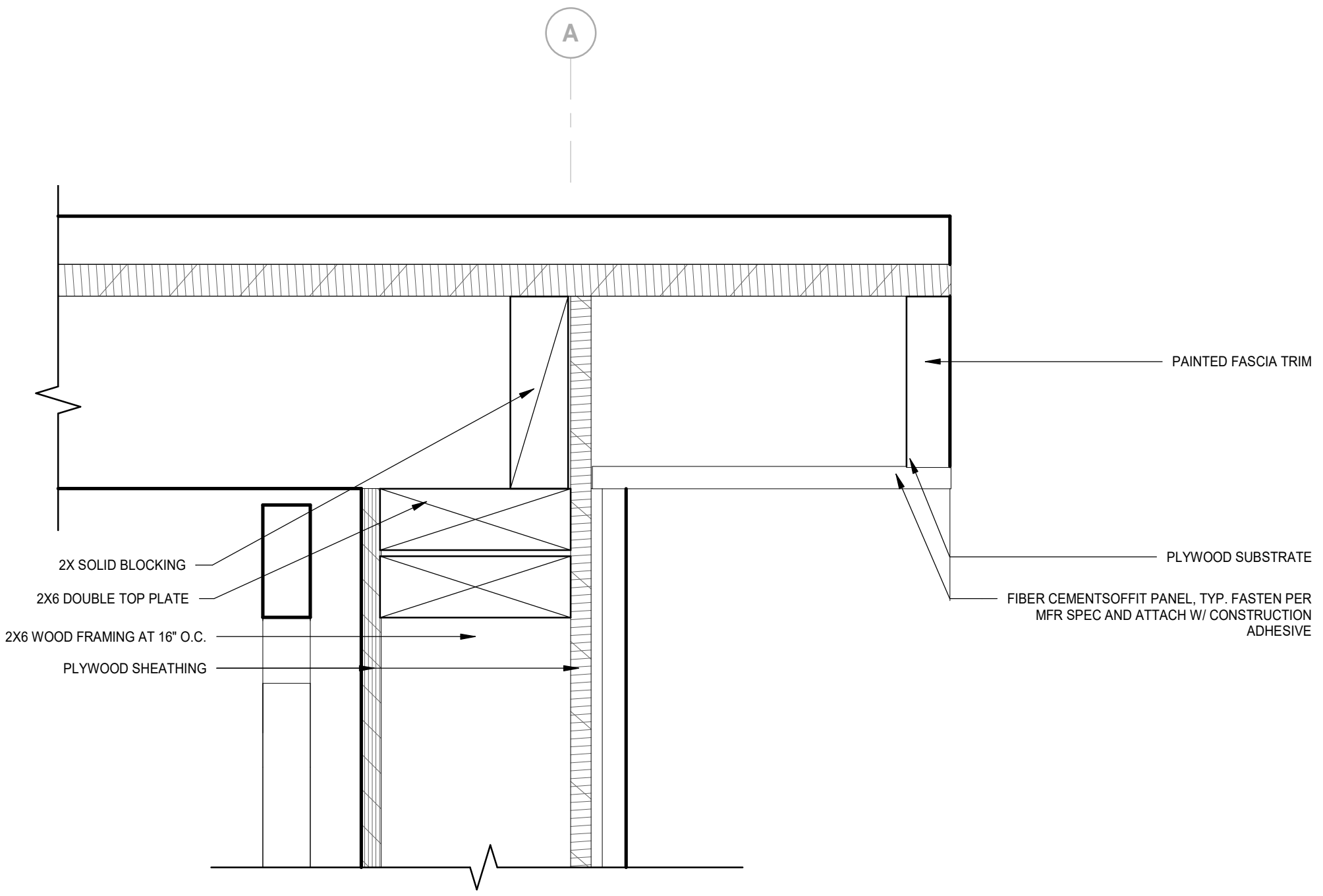
Drawing Title
WALL SECTIONS

Scale
As indicated

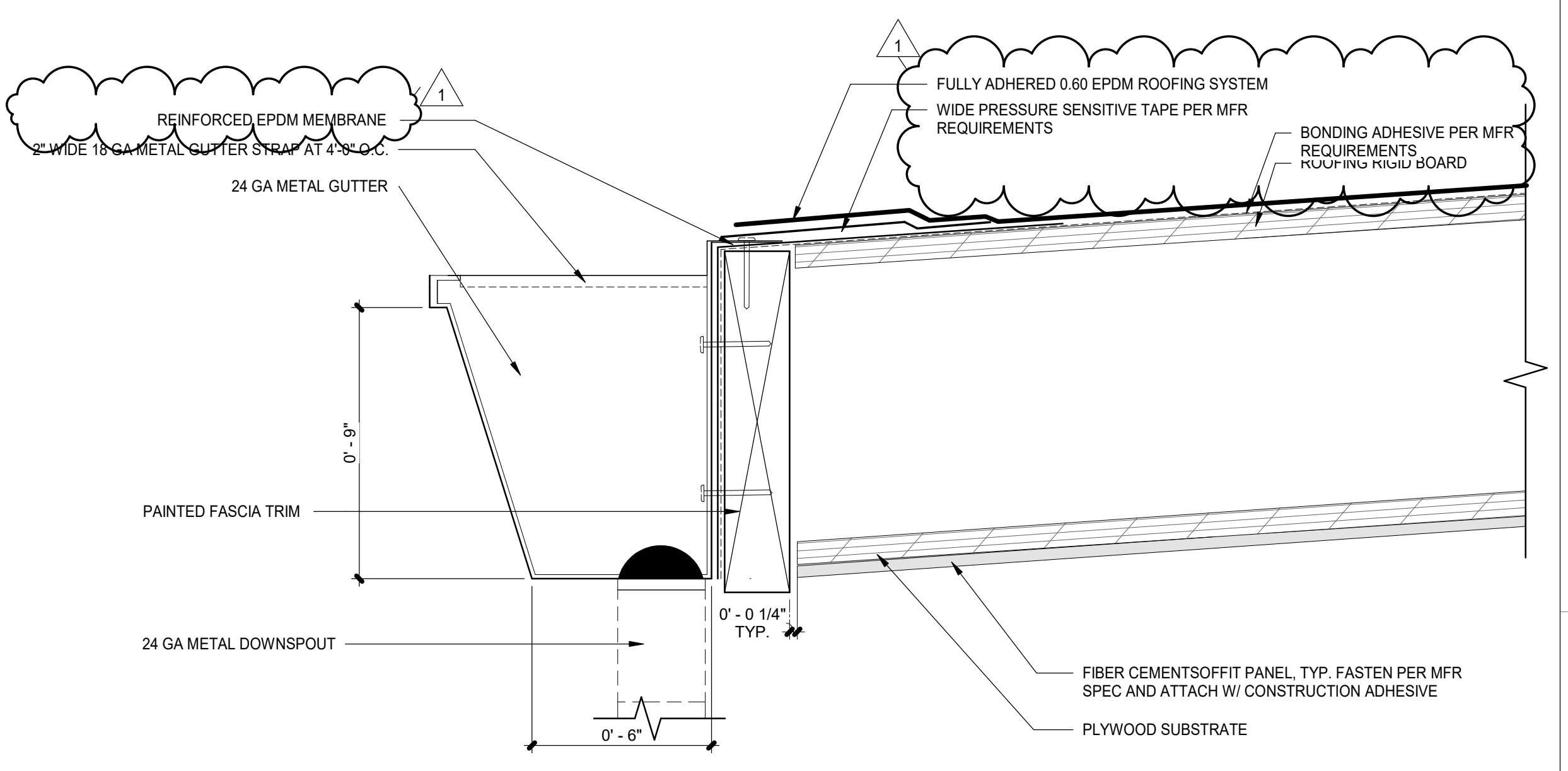
Project No.
JCdT23-0185

Drawing No.
A42-01

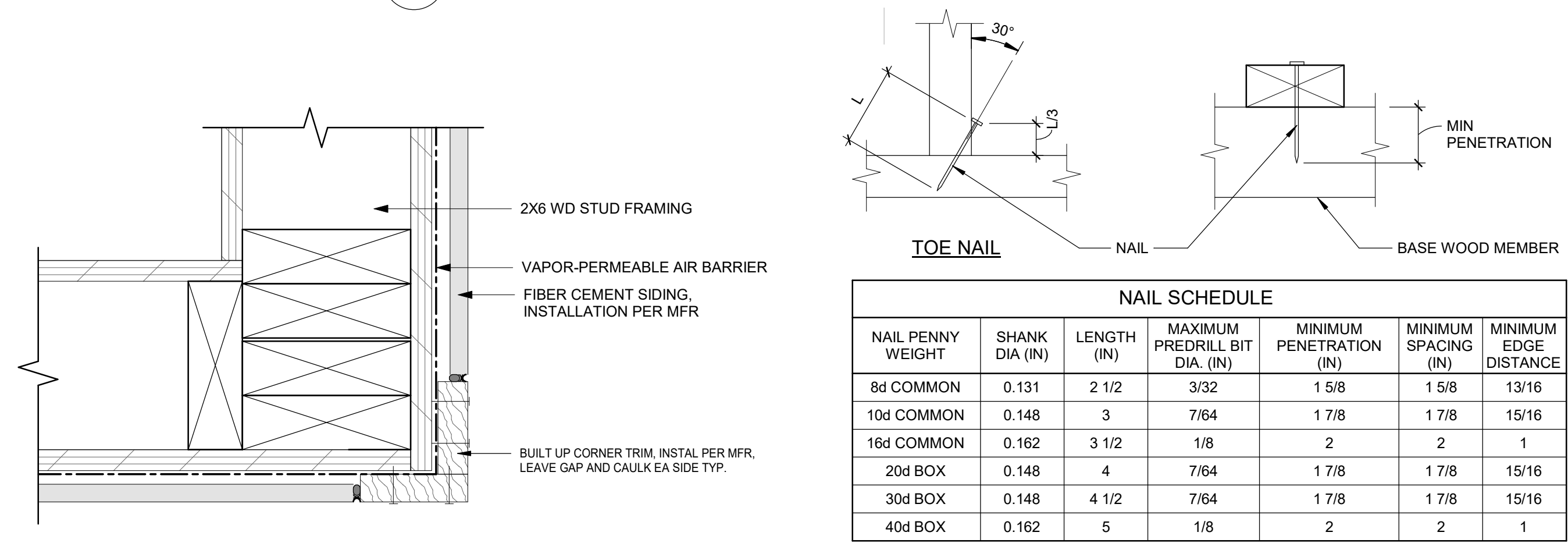
5/7/2024 11:54:13 AM



7 EXTERIOR HIGH EAVE - TYP.
A71-01 SCALE: 3" = 1'-0"

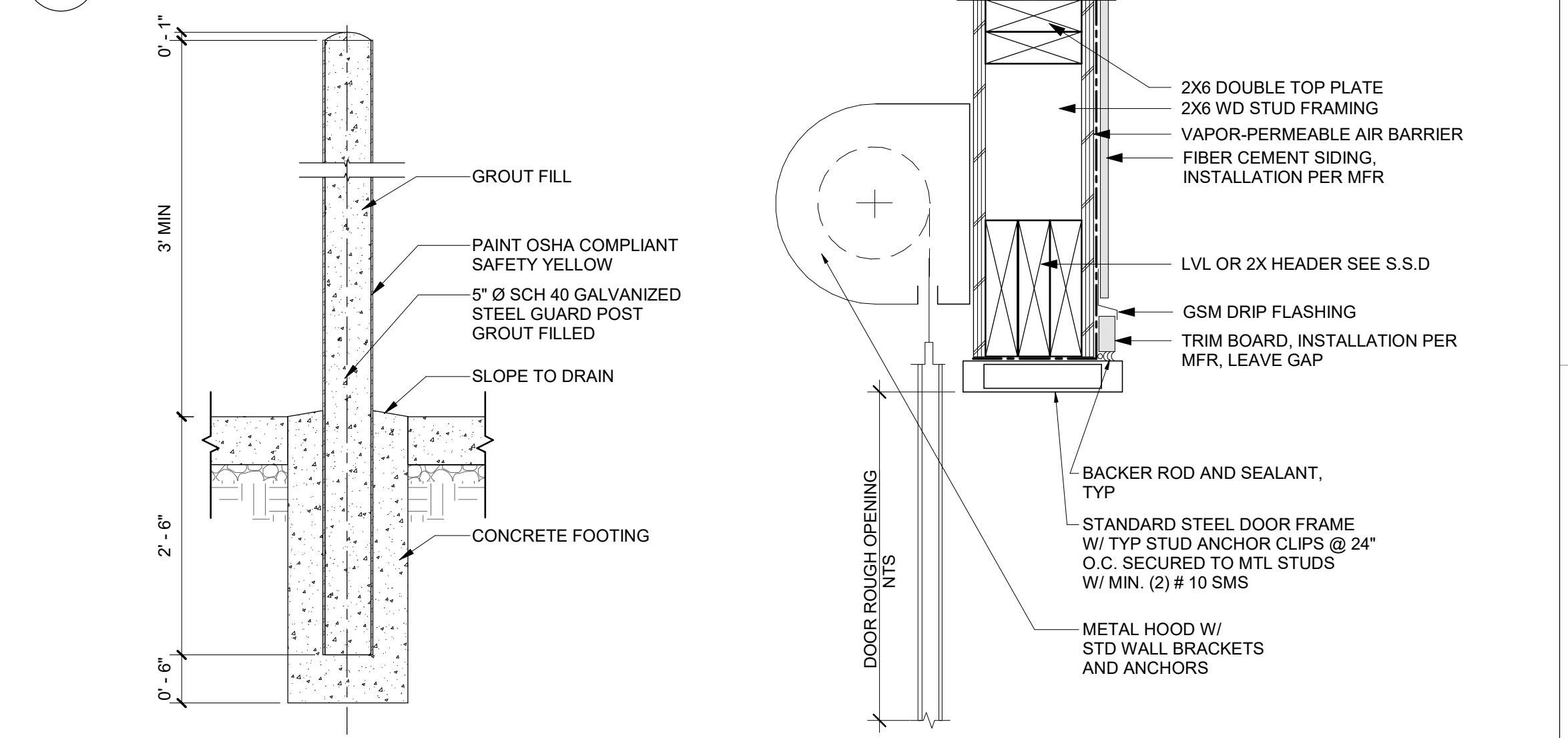


1 LOW EAVE w/ GUTTER
A71-01 SCALE: 3" = 1'-0"



NOTES:
1. PREDRILL TO PREVENT SPLITTING

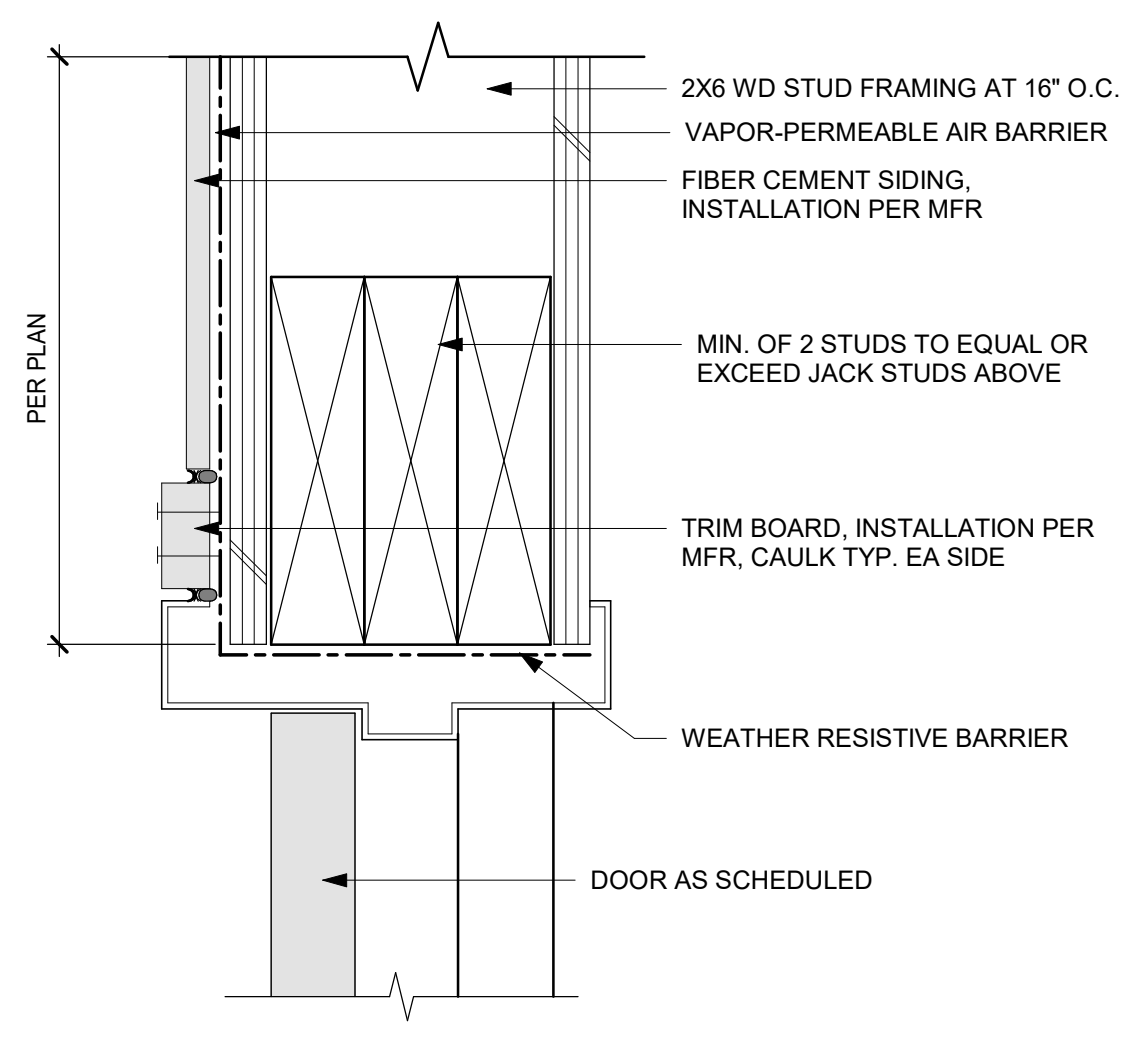
10 TYP. NAIL INSTALLATION
A71-01 SCALE: 3" = 1'-0"



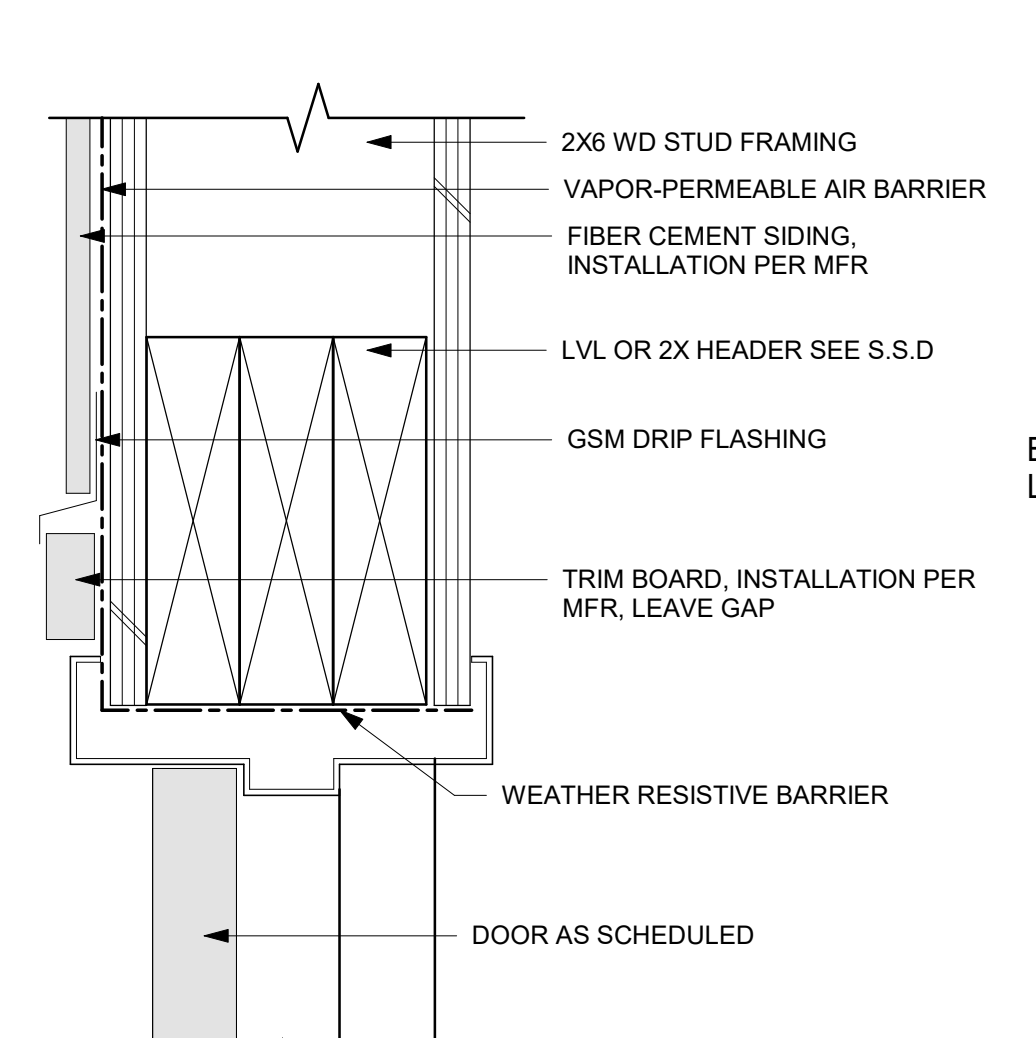
2 ROLL UP DOOR HEAD AND JAMB
A71-01 SCALE: 1 1/2" = 1'-0"

8 EXTERIOR CORNER DETAIL
A71-01 SCALE: 3" = 1'-0"

3 BOLLARD TYP.
A71-01 SCALE: 3/4" = 1'-0"



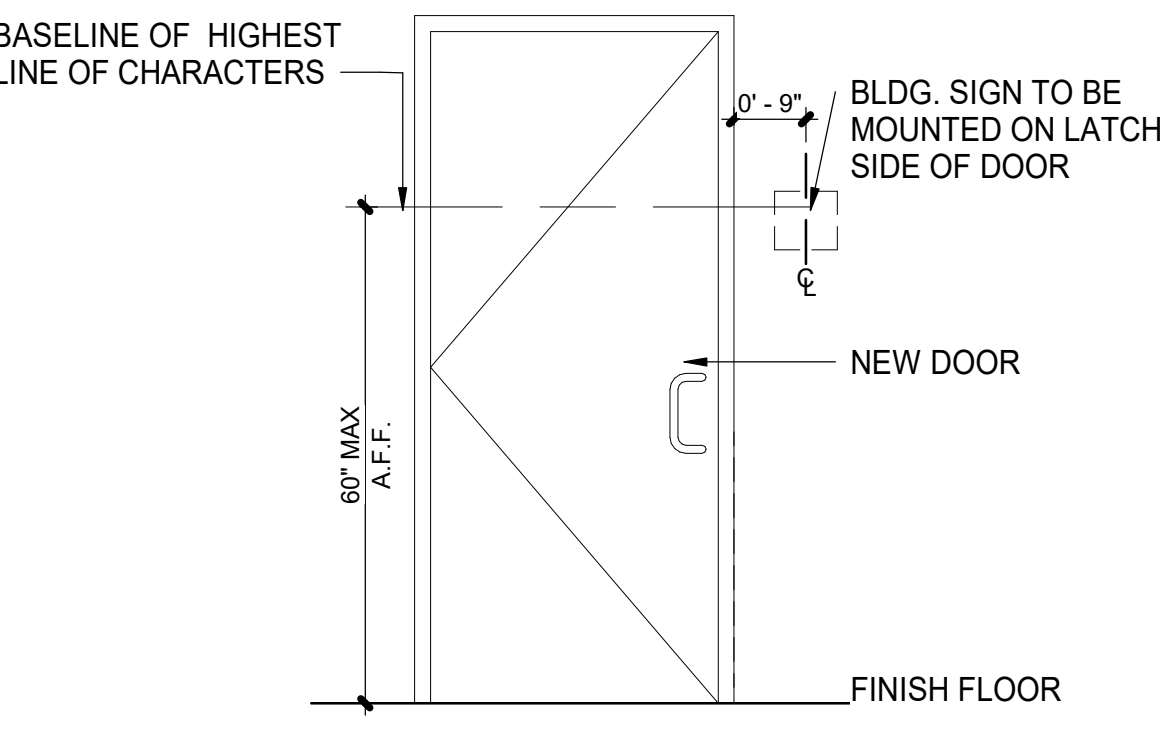
5 HM DOOR JAMB DETAIL
A71-01 SCALE: 3" = 1'-0"



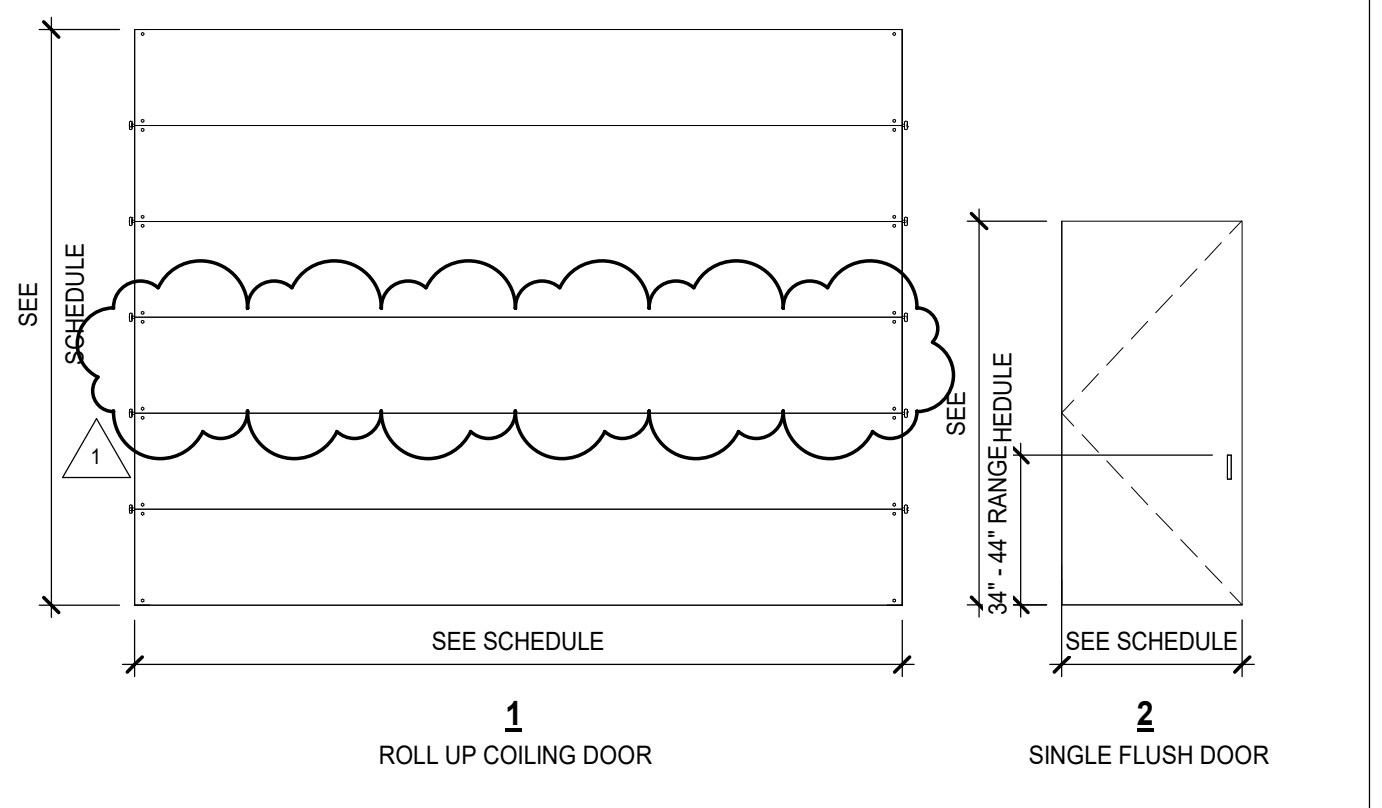
6 HM DOOR HEAD DETAIL
A71-01 SCALE: 3" = 1'-0"

DOOR NO.	DIMENSIONS			DOOR			FRAME TYPE	DETAILS			HWDE SET	SIGNAGE	COMMENTS
	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH		HEAD	JAMB	SILL			

1	12' - 0"	10' - 0"	0"	1	STL	BY MFR	STL	2/A71-01	2/A71-01	-	(none)	-	RAYNOR COILING GARAGE DOOR + DOOR OPENER
2	12' - 0"	10' - 0"	0"	1	STL	BY MFR	STL	2/A71-01	2/A71-01	-	(none)	-	RAYNOR COILING GARAGE DOOR + DOOR OPENER
3	12' - 0"	10' - 0"	0"	1	STL	BY MFR	STL	2/A71-01	2/A71-01	-	(none)	-	RAYNOR COILING GARAGE DOOR + DOOR OPENER
4	12' - 0"	10' - 0"	0"	1	STL	BY MFR	STL	2/A71-01	2/A71-01	-	(none)	-	RAYNOR COILING GARAGE DOOR + DOOR OPENER
5	4' - 0"	7' - 0"	1 3/4"	2	HM	FP	HM	6/A71-01	5/A71-01	-	1	BLDG. SIGN	FACTORY PRIMED GALV. FRAME + CARD ACCESS
6	4' - 0"	7' - 0"	1 3/4"	2	HM	FP	HM	6/A71-01	5/A71-01	-	1	BLDG. SIGN	FACTORY PRIMED GALV. FRAME + CARD ACCESS



4 ENTRY / EXIT SIGNSGE
A71-01 SCALE: 1/2" = 1'-0"



1 ROLL UP COILING DOOR
A71-01 SCALE: 3/4" = 1'-0"

DATE	ISSUED FOR	REV
5-09-2024	ADDENDUM 1	1

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Drawing Title
SCHEDULES AND PLAN DETAILS

Scale
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Project No.
JCDT23-0185

Drawing No.
A71-01