



The City of **WORCESTER**

Administration & Finance – Purchasing Division
Christopher J. Gagliastro, MCPPO – Purchasing Director
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September 24, 2026

To All Bidders:

Subject: **Bid No. 8800-M7 – Accessibility Renovations – New Citizen Center / WPS**

ADDENDUM NO. 3

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

The attention of Bidders submitting proposals for the above subject project located in Worcester, Massachusetts called to the following Addendum to the Contract Documents. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the proposal submitted. This Addendum consists of eight (8) type-written pages and One (1) attachment of Forty-Five (45) Pages.

THE NUMBER OF THIS ADDENDUM (03) MUST BE ENTERED IN THE APPROPRIATE SPACE PROVIDED ON DOCUMENTS IN THE FOLLOWING SECTIONS:

DIVISION 00 SECTION 00 4000 - FORM FOR GENERAL BID

A. General:

	Second optional Prebid walk scheduled for 10/01/26

B. Specification Changes:

SPEC SECTION	Change
00 0000	Table of Contents: Updated table with new div 02 8200 Specification
01 2200	Added section in its entirety
02 8200	Added section in its entirety.
03 3930	Added section 1.3 – Unit Prices.
10 2813	Added section 2.3 for product information on seat and changing station. Section 3.1.B added shower seat language.
23 0905	Removed from specifications due to scope clarification.



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C. Drawing Changes:

SHEET #	Change
A410	Revised design of shower in wet room - Revised dimensions - Revised wall mounted seat location - Added grab bars Added shower head location
A420	Corrected ACT layout
A431	Revised shower in wet room elevation
A701	Corrected Wet Room and Accessible Toilet floor base finish.
P200	Revised location of sink waste from life skills kitchen (see P303).
P201	Revised location of shower fixture in wet room.
P301	Detail 2: Added demolition of existing hose bibbs in gang toilet rooms.
P302	Detail 2: Added new hose bibbs in gang toilet rooms. Revised location of shower fixture in wet room.
P303	Detail 1: Clarified water to UB to come from drop to SK-2. Revised location of services to SK-1 & SK-2 coordinate with location of fixtures.
P400	Detail 2: Revise water hammer arrestor note to specify model. Detail 6: Add detail in its entirety.
M303	Corrected missing AC unit tag.
M304	Corrected missing AC unit tag.
E000	Added fire alarm legend, wiring notes and fixture disposal notes.
E101	Added notes related to demolition of fixtures, circuiting and switches.
E210	Added locations for fire alarm control panel and main panel. Added notes to clarify scope on panel replacement, fire alarm control panel scope and generator replacement.
E300	Added notes related to demolition of fixtures, circuiting and switches. Added fixture tags and notes related to recircuiting.
E301	Added fixture tags and notes related to recircuiting.
E302	Added circuiting to receptacles and split systems.
E303	Clarified locations for fire alarm horn/strobes and fire alarm strobes. Revised smoke detector/carbon monoxide layout.
E600	Added panel schedules and revised fixture schedule to provide description of fixtures.

D. Questions:

From:	Ultimate Abatement Co Inc.
Question	I looked at the specs for the above project. There is an Ahera Asbestos report, but I did not see what abatement has to take place, if any, for



	the above project. Is there abatement to take place and if so when is the site walk?
Answer:	Abatement will be added to project scope. Section 02 8200 and attached report added in their entirety.
Question	There is no section for the asbestos in the specifications but the attached AHERA report shows much asbestos. Will any of this material be compromised during the reno project? If so is this being bid to the GC or being bid on a separate contract?
Answer:	See attached section 02 8200 and attached report added in their entirety.
From:	ABS Inc.
Question	On drawing M500 the sequence of operations states for the split systems to be connected to the facility management system. The Existing BMS is an Alerton system, can you confirm it's the intent to connect the new units to the existing Alerton system?
Answer:	Intent is to connect new split system units to Alerton BMS. Architect confirmed owner Worcester's preference.
From:	DMH Electric
Question	New light fixtures shown do not have any fixture type designations. Please provide clarity on types shown.
Answer:	Addendum 3 has added fixture types on sheets E300 and E301.
Question	Are all the light switches shown on E301 new or existing? If new, are the occ sensors?
Answer:	Addendum 3 has clarified the scope for switches and controls on sheets E300 and E301.
Question	No new circuits or circuit breakers are shown. Are we to assume all circuits and circuit breakers are existing to be re-used?
Answer:	Addendum 3 has added circuiting information on sheets E302
Question	E210 keynote states to replace the existing 400 amp service and all associated distribution equipment. Please confirm this is not part of the scope of work for this project.
Answer:	Addendum 3 has clarified the scope related to the existing panel and generator on sheet E210.
Question	Please provide working hours for the project, normal or night work? Times?
Answer:	Work hours will be after school hours.
Question	Does the facility have a contract in place with a fire alarm company for system programing?
Answer:	Addendum 3 has identified the existing system as a Simplex system. All equipment will be by Simplex. This has been indicated on E210 the scope related to the existing panel and generator on sheet E210.
Question	Is the EC responsible for proper disposal of the old fixture ballasts, tubes?



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Answer:	Addendum 3 has clarified disposal requirements for the existing fixtures on sheet E000.										
From:	MV Electrical										
Question:	Drawings E300 & E301: Please provide fixture type designations beside fixture symbols on drawings E300 & E301.										
Answer:	Addendum 3 has added fixture types on sheets E300 and E301.										
Question:	Drawing E-210 – Keynote 1 1.) Please provide a site electrical drawing for the new proposed electrical service. 2.) Please provide a power one-line riser diagram. 3.) Please provide a panel schedule for the new "MDP" and load centers to be furnished & installed. 4.) Please provide specifications for the new Generator to be furnished & installed.										
Answer:	Addendum 3 has clarified the scope related to the existing panel and generator on sheet E210.										
Question:	Paragraph-E Listings: Please confirm the following paragraph-e listings do not pertain to this project and shall not be listed on the EC's bid form. <table><thead><tr><th><u>Class of Work</u></th><th><u>Reference Section</u></th></tr></thead><tbody><tr><td>Facility Lighting protection</td><td>Section 264100 – Lighting protection</td></tr><tr><td>Communications systems</td><td>Section 270000 – Communication systems</td></tr><tr><td>Audiovisual Systems</td><td>Section 274000 – Audiovisual Systems</td></tr><tr><td>Security systems</td><td>Section 280000 – Security systems</td></tr></tbody></table>	<u>Class of Work</u>	<u>Reference Section</u>	Facility Lighting protection	Section 264100 – Lighting protection	Communications systems	Section 270000 – Communication systems	Audiovisual Systems	Section 274000 – Audiovisual Systems	Security systems	Section 280000 – Security systems
<u>Class of Work</u>	<u>Reference Section</u>										
Facility Lighting protection	Section 264100 – Lighting protection										
Communications systems	Section 270000 – Communication systems										
Audiovisual Systems	Section 274000 – Audiovisual Systems										
Security systems	Section 280000 – Security systems										
Answer:	There is not any scope related to sections 264100, 270000, 274000, and 280000 on this project.										
Question:	Drawing E000 – Fire Alarm Symbol List 1.) Symbol list indicates to refer to spec section 28 31 00 - Section does not exist within the project manual. 2.) Are these fire alarm system or 120V devices?										
Answer:	Addendum 3 has provided a fire alarm Legend on E000 and identified the existing system as a Simplex system. All equipment will be by Simplex. This has been indicated on E210 the scope related to the existing panel and generator on sheet E210.										
Question:	E302 – Circuit Designations Please provide circuit designations (Panel & Circuit Number) for receptacles and equipment on drawing E302										
Answer:	Addendum 3 has added circuiting information on sheets E302										
Question:	Please confirm if electrical permit fees will be waived by the city of Worcester										



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Answer:	Detail fees will not be waived
Question:	Spec Section 26 00 01(1.2)(G) Please provide an allowance for all electrical sub-contractors to carry in their bid price for Utility and Municipal back charges.
Answer:	Any back charges will be paid by change order
Question:	Spec Section 26 05 00(1.5)(G)(H) Please confirm there are no Electrical / Telecommunications provisions are required.
Answer:	There is not any telecommunications work.
Question:	Spec Section 26 05 00(3.2) Please confirm excavation, fill, backfill, compaction, and restoration is by the General Contractor.
Answer:	The main service panel will be replaced in place. No trenching will be required
Question:	Readiness certification prior to final jobsite observation: Please confirm this form does not pertain to this project and does not need to be completed by the EC
Answer:	This does not pertain to EC
From:	Universal Electric
Question:	There is a specification section referenced in the Electrical Symbol List-Fire Alarm located on drawing E000, but the section is not included with the bid documents. There are no notes on the Systems drawings that refer to the fire alarm system. Please provide Fire alarm system manufacturer and model so we will be able to provide fire alarm devices that are compatible with the existing system.
Answer:	Addendum 3 has provided a fire alarm Legend on E000 and identified the existing system as a Simplex system. All equipment will be by Simplex. This has been indicated on E210 the scope related to the existing panel and generator on sheet E210.
Question:	Keynote 1 on drawing E210 states “Upgrade existing 400-amp, three-phase electrical service, Existing Main distribution panel(MDP), multiple existing load centers and existing 25kW generator. Provide new service and distribution equipment sized to serve the revised building loads”. It also states” Final feeder routing, overcurrent protective device ratings, transfer equipment requirements, and reconnection to remaining existing systems shall be coordinated during subsequent design phases”. • Is this scope to be included as part of this Filed Sub-bid? • Is information available related to the existing Electrical Service, Existing MDP, existing load centers, and existing Generator?
Answer:	Addendum 3 has clarified the scope related to the existing panel and generator on sheet E210.



Question:	How should the cost implications of imposed/impending tariffs be handled during the bidding process? Should anticipated costs be included in the bid price, not knowing if they will become actualized, or should real cost implications be handled during the contract.
Answer:	Consulting private legal counsel is the only way a bidder can receive formal guidance on how to structure or submit a specific public bid in Massachusetts.
Question:	Please confirm our understanding that all work and materials described in non-electrical specifications or shown on non-electrical drawings, without also being described in the electrical specifications, is for coordination purposes only and shall not be part of the electrical contractor's bid for this project.
Answer:	All work part of Division 26 is shown on drawings and specifications listed in 260001 1.1 and 1.2
Question:	Please confirm that “or equal” products are understood to be acceptable for all products specified unless specifically stated otherwise within the applicable specification section.
Answer:	Yes except refer to fire alarm notes with respect to fire alarm modifications.
Question:	Please confirm that all electrical and communications utility fees for the project are to be paid by others and are not to be included in the electrical contractor's bid. If utility fees of any kind are to be included, please provide a defined allowance to be included or a direct contact with knowledge of the project that can inform us as to what fees will be required.
Answer:	Any back charges will be paid by change order
Question:	What besides the Fire Alarm & Sprinkler systems or Security Systems must stay active during any shutdowns?
Answer:	Replacement of MDP will require shutdown of areas outside project area. Schedule work with utility and owner, 2 weeks prior to shutdown.
Question:	Will we need a fire watch at any time during the project?
Answer:	Replacement of FACP will require fire alarm shutdown of areas outside project area. Schedule work with owner, 2 weeks prior to shutdown. Provide fire watch during shutdown.
Question:	Please confirm that the Electrical contractor is not responsible for all excavation and demolition.
Answer:	No excavation will be required. Div 26 is responsible for demolition indicated on the electrical drawings.
Question:	Please specify if the intent of the design is for voice evacuation given the existing Simplex system is horn strobe evacuation.
Answer:	System is not voice evacuation. Please refer to fire alarm notes on E210 in addendum 2.
From:	Stutman



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Question:	Please confirm we are to supply the following per keynote legend on plan A-431 •Adult-sized shower changing station •Shower seat
Answer:	Yes GC to supply.
From:	DA Sullivan
Question:	As we were reviewing the plans we have come across detail 06 10 21 on floor plans but we couldn't identify the details of this component after reviewing the drawings, notes, and the specifications. Could you please clarify the details of it? Please see a screenshot below for the said component for reference. Thank you for your help in advance.
Answer:	Per keynote legend on sheet A-410: "06.10.21 - Wood panel wall infill to match existing". Some wall demolition is expected in order to remove existing fixtures and carriers and should be infilled to match existing once new carriers are installed.
Question:	Please identify the crack-repair locations, estimated linear footage, and typical crack widths/depths. Quantities seem to be unknown based on the review of the drawings.
Answer:	Quantities unknown due to existing flooring, unit prices added to section 03 3930
Question:	Section 03 3930 names Sikadur 25 Lo-Mod EPU and a 1:1 mix ratio, but §3.2 specifies 2:1. Please confirm the intended repair product
Answer:	Will be answered in future Addendum
Question:	Per the specs, 03 3000 and 03 5300, please identify the topping/mitigation areas and required topping thicknesses.
Answer:	Will be answered in future Addendum
Question:	clarify whether Rooms 12 and 12A receive the vinyl base shown on A-710 or the specified 6-inch integral resinous base.
Answer:	Rooms 12 and 12A to receive integral epoxy cove base.
From:	Poulin Construction
Question:	Need clarification on Adult changing station, make and model perhaps Also same question for the shower seat, make and model
Answer:	Updated spec section 10 2813 with relevant information.

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.



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Very truly yours,

Stephen R. McDonald
Assistant Purchasing Director

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SECTION 01 2200

UNIT PRICES

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Attention is directed to the Contract and General Conditions and all Sections within Division 01 – General Requirements which are hereby made a part of this Section of the Specifications.

1.2 REQUIREMENTS INCLUDED

- A. Unit pricing shall be performed by the General Contractor or Filed Sub-Bid Subcontractor as applicable.
- B. Unit price work will be paid for in accordance with unit prices listed by the General Contractor or Filed Sub-Bid Subcontractor, as accepted by the Owner, based on estimated quantities calculated by the Designer.
- C. All unit prices shall include their pro-rata share of all costs, including but not limited to, overhead, profit, bond, labor, materials, disposal, and equipment to perform the work item complete, as identified.
- D. Unit Price Proposal Sheets shall be included with Filed Sub-Bid form for bid when applicable.
- E. The total amount of all unit price work shall be included in the amount to be entered in applicable bid forms.
- F. Unit Prices shall provide for a variance in quantities of plus or minus 100 percent of those listed on the Unit Price Proposal Sheet.
- G. If quantities exceed the units established in the contract, including the aforesaid overage percentage, an equitable unit price adjustment will be determined by the Designer.
- H. A change order will be initiated by the Designer to adjust the contract price resulting from the final quantities of the unit price work.

1.3 UNIT PRICES

- A. Should certain additional work be required, or should the quantities of certain classes of work be increased or decreased from those required by the Contract Documents, by authorization of the Owner, the below unit prices shall, at the option of the Owner, be the basis of payment to the General Contractor or credit to the Owner, for such increase or decrease in the work. The Unit Prices shall represent the exact net amount per unit to be paid the General Contractor (in the case of additions or increases) or to be refunded the Owner (in the case of decreases). No additional adjustment will be allowed for overhead, profit, insurance, or other direct or indirect expenses of the General Contractor or Subcontractors. No additional adjustments will be allowed for work without the prior written approval of the Owner.
- B. The following sections include Unit Price work and General Contractors and Filed Sub-Bid Subcontractors submitting bids for work for these sections must submit Unit Price sheets with their bids and include the total of unit price work in their total bid price for all work.

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Sections with Unit Price work:

	<u>Item Description</u>	<u>Quantity</u>
1.	Floor Concrete Crack Repair: Refer to Section 03 3930 – Gravity Feed Crack Repair for a description of this work.	100 LF

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

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SAMPLE UNIT PRICE PROPOSAL SHEET

GENERAL CONTRACTOR'S OR FILED SUB-BIDDERS WORK

PROJECT NO. 2430.05

Accessibility Renovations, Worcester New Citizens Center

UNIT PRICES

- A. The following unit prices as defined in the specifications are designated for items of work on the basis of quantities estimated by the Designer. These unit prices will be used to add to or deduct from the dollar amounts shown, depending on whether the actual amount is greater or less than the estimated amount.

SECT.	ITEM	ESTIMATED QUANTITY	UNIT MEASURE	UNIT PRICE DOLLARS/CENTS	TOTAL AMOUNT DOLLARS/CENTS
03 3930	Crack repair in concrete slab on grade	100	Linear Feet	\$ _____	\$ _____
				TOTAL	\$ _____

1. The unit prices as requested herein shall include their pro-rata share of all costs, including, but not limited to, overhead, profit, bond, labor, materials and equipment costs and all other work incidental thereto, including disposal of materials.
2. Any unit price proposal that contains a unit price which is unduly high or low may be rejected as unbalanced, and thereby affect the total cost proposal of this contract.
3. Unit price proposal sheets must be submitted with the respective Filed Sub-Bid bid form as applicable.
4. The total amount above shall be added into the total bid price amount to be entered into the applicable bid form.

END OF FORM

SECTION 020800



ASBESTOS ABATEMENT

PART I - GENERAL

1.01 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 1 – GENERAL REQUIREMENTS, which are hereby made a part of this section of the specifications.
- B. Equality of material, article, assembly or system other than those named or described in this Section shall be determined in accordance with the provisions of Article IV of the CONTRACT AND GENERAL CONDITIONS.

1.02 DEFINITIONS

- A. The following definitions shall be applicable to this Section:

"Site": Refers to New Citizen's Center located in Worcester, Massachusetts as described by the Contract Documents and Drawings.

"Owner": Refers to Worcester Public Schools and their designated, authorized personnel.

"Architect": Refers to Habib & Associates Architects, 100 Grove Street, Suite 303, Worcester, Massachusetts and their designated, authorized personnel.

"Consultant": Refers to Atlas Technical Consultants, LLC (ATLAS) 73 William Franks Drive, West Springfield, Massachusetts and their designated, authorized personnel.

"General Contractor": Refers to the Contractor who has been awarded the overall contract for renovation work outlined by the Contract Documents.

"Asbestos Abatement Contractor": Refers to the Contractor who is performing asbestos abatement work as outlined by this Section.

"Asbestos Project Designer": The MADLS certified Asbestos Project Designer for this project is Mr. Edward Kolodziej (#AD074321), ATLAS Technical Consultants LLC.

1.03 GENERAL REQUIREMENTS/QUALIFICATIONS

- A. All Asbestos Abatement work referenced herein shall be performed by a Massachusetts licensed Asbestos Abatement Contractor in accordance with Massachusetts Department of Labor Standards (MADLS) 454 CMR 28.00 and Department of Environmental Protection (DEP) CMR 7.00 & 7.15 Regulations.

B. Qualifications of Asbestos Abatement Contractor

1. Asbestos Abatement Contractor performing the abatement work of this section ("Asbestos Abatement Contractor") shall be an Asbestos Abatement Contractor licensed to perform asbestos operations in the State of Massachusetts. Asbestos Abatement Contractor shall submit license number and proof of licensure.
2. The Asbestos Abatement Contractor shall also provide the project name, contact person and phone number of three (3) projects which were successfully completed of similar size and scope within the last two (2) years. Each project shall have been completed in good standing and the work performed by the Asbestos Abatement Contractor for each project resulted in no work violations/citations, contract delays, contract extensions/disputes or litigation. Failure to provide this information and/or meet the approval of these qualifications by the Owner may result in rejection of the Asbestos Abatement Contractor.
3. The Owner, Architect or Consultant shall also reserve the right to research and utilized other information received from any other projects completed by the Asbestos Abatement Contractor not provided under 1.03 B (2) above, regardless of the date completed, location or circumstances resulting from the outcome of their work. The Owner shall reserve their right to reject the Asbestos Abatement Contractor based upon this review, for any reason, if found to be in the best interest of the Owner.

NOTE: The Asbestos Abatement Contractor shall not be authorized to begin work until all credentials outlined above are reviewed and approved by the Architect.

1.04 DESCRIPTION OF WORK

- A. Work: This section details all areas where asbestos abatement work is to be performed and lists areas requiring special protection during the abatement work. The Asbestos Abatement Contractor shall furnish all labor, materials, services, training, insurance, and equipment as needed to complete removal of asbestos-containing and asbestos-contaminated materials located as indicated below. The Asbestos Abatement Contractor shall follow all Federal, State and local ordinances, regulations and rules pertaining to asbestos, including its abatement, storage, transportation and disposal.
- B. The Asbestos Abatement Contractor shall be responsible for verifying all quantity estimates in preparation of their bids, including the location and conditions of all asbestos-containing materials to be abated under this contract. No additional compensation and/or contract time shall be granted to the Asbestos Abatement Contractor for failure to perform this requirement.
- C. The following Scope of Work and Requirements shall be applicable for asbestos abatement work at the site:
 1. All Asbestos Abatement work shall take place in accordance with the provisions outlined herein as well as current local, state and federal regulations. No additional

- compensation shall be granted to the Asbestos Abatement Contractor for compliance with applicable laws when performing the abatement work at the site. This shall include any regulatory requirements that mandate additional or more restrictive containment and abatement procedures than what has been presented herein.
2. The Asbestos Abatement Contractor shall coordinate with the General Contractor as to the locations of areas to be abated in accordance with the Scope of Work outlined herein and the Drawings.
 3. The Asbestos Abatement Contractor shall be responsible for all demolition work required in order to access all asbestos materials for abatement. All demolition debris shall be disposed of as asbestos waste, unless otherwise determined by the Consultant.
 4. Any materials deemed to be asbestos contaminated by the Consultant, prior to the start of work, or as a result of the work, shall be treated as such and disposed of properly by the Asbestos Abatement Contractor.
 4. Existing finishes and structural components to remain shall not be damaged. The Asbestos Abatement Contractor shall take care so as not to damage or alter existing surrounds or structural components. Repair of damage caused to the existing surrounds by the Work shall be responsibility of the General Contractor.
 5. All removal procedures shall take place under full containment and a three-stage decontamination unit under negative pressure (unless otherwise approved by the Consultant).
 6. With regards to the variance from requirements on polyethylene sheeting on "impervious wall" surfaces, the Asbestos Abatement Contractor shall be required to adhere to all requirements outlined by MA DLS and MassDEP regulations governing work area set-up for asbestos abatement. The Asbestos Abatement Contractor shall take full responsibility including all costs associated with approval and/or denial of such actions (i.e. non use of polyethylene) if determined to be non-compliant by the Consultant and/or a state or federal agency. If the variance is denied or discontinued by said parties; the Asbestos Abatement Contractor shall proceed with installation of polyethylene sheeting on such surfaces at no additional cost to the Owner.
 7. The Owner will remove moveable furniture, desks, chairs, stored items, tables, etc., from each area prior to commencement of the work. The Abatement Contractor shall cover all non-movable objects per Regulations. Fixed items, such as countertops, demising wall systems, appliances, etc. will remain and abatement will be completed to the edges of items so that a straight edge remains (as necessary).
 8. The following requirements shall be applicable for removal of asbestos flooring material:
 - a. Removal of existing asbestos flooring material shall include all layers of such materials and associated mastic/backing (including glue/levelastic, etc.) down to the existing concrete. In addition, all staining present on the concrete shall also

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- be 100% removed. The contractor shall removal all covebase and covebase mastic in the abatement areas and dispose of these materials as asbestos waste.
 - b. The Asbestos Abatement Contractor shall remove all asbestos flooring material by manual and/or mechanical means.
 - c. The Asbestos Abatement Contractor shall construct a containment and decontamination unit (remote maybe utilized for removal areas less than 10 SF).
9. The following requirements shall be applicable for abatement of all asbestos pipe and/or fitting insulation:
- a. The Asbestos Abatement Contractor shall be required to perform all wall, ceiling and floor demolition required to access pipe insulation specified for abatement herein. All demolition work shall take place under full containment and all demolition debris shall be disposed of as asbestos waste (unless otherwise determined by ATLAS). All debris located within a pipe chase, wall, ceiling or floor cavity shall be completely removed and all such material shall be disposed of as asbestos waste.
 - b. With regards to asbestos pipe fitting insulation abatement, removal shall include the asbestos-containing fitting insulation as well as six (6) inches of fiberglass insulation from each side of the fitting being abated.
 - c. The Asbestos Abatement Contractor shall construct a containment and decontamination unit (remote maybe utilized for removal areas less than 25 LF).
10. Refer to Attachment A (Table 1.0) for a summary of materials that require abatement at the site. Refer to Drawings for locations of the work and coordinate all abatement with the General Contractor.

1.05 SUBMITTALS

- A. The following submittals are required for review and approval by the Architect on/or before the Pre-Construction Meeting:
- 1. Copy of Massachusetts MADLS Asbestos Abatement Contractor's License.
 - 2. Copies of all notifications for asbestos abatement.
 - 3. Chain-Of-Command list of all personnel on-site and emergency contact person(s)
 - 4. Work plan which dictates all removal procedures to be implemented.
 - 5. Proposed waste hauler and waste disposal site for the ACWM and a copy of the Waste Shipment Record (WSR) to be used for shipment of the ACWM off-site for disposal.
- B. In addition to the items required by other sections of the Project Manual, the following submittals are required for final payment
- 1. Copy of Waste Shipment Records, signed by the landfill showing receipt of the ACWM.

1.06 CODES AND STANDARDS

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- A. All work shall conform to the standards set by applicable Federal, State and local laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the work on the contract, and as may be required by subsequent regulations. In addition to any detailed requirements of the Specification, the Asbestos Abatement Contractor shall at his own cost and expense comply with all laws, ordinances, rules and regulations of Federal, State, Regional and Local Authorities regarding handling and storing of asbestos waste material. This includes all applicable OSHA regulations.
- B. All regulations and other governing agencies in their most current version are applicable throughout this project. Where there is a conflict between this Specification and the cited State, Federal, or local regulations, the more restrictive or stringent requirements shall prevail. This Section refers to many requirements found in these references, but in no way is it intended to cite or reiterate all provisions therein or elsewhere. It is the Asbestos Abatement Contractor's responsibility to know, understand, and abide by all such regulations and common practices.

1.07 FEES, PERMITS & LICENSES

- A. The Asbestos Abatement Contractor shall pay all licensing fees, royalties, and other costs necessary for the use of any copyrighted or patented product, design, invention, or process in the performance of the work specified in this section. The Asbestos Abatement Contractor shall be solely responsible for costs, damages, or losses resulting from any infringement of these patent rights or copyrights. The Asbestos Abatement Contractor shall hold the Owner, Consultant and Architect harmless from any costs, damages, and losses resulting from any infringement of these patent rights or copyrights. If the Contract Specification requests the use of any product, design, invention, or process that requires a licensing, patent or royalty fee for use in the performance of the job, the Asbestos Abatement Contractor shall be responsible for the fee or royalty fee and shall disclose the existence of such rights.
- B. Asbestos Abatement Contractor shall be responsible for costs for all licensing requirements, where applicable and notification requirements and all other fees related to the Asbestos Abatement Contractors' ability to perform the work in this Section.
- C. Secure all necessary permits for work under this Section, including hauling, removal, and disposal, fire, and materials usage, or any other permits required to perform the specified work.

1.08 CLEANING

- A. Maintain the work site in a neat and orderly manner at all times, so as not to interrupt or infringe upon the work of other trades. Perform all final cleaning of abatement work areas as required by this Section and Massachusetts Regulations to the approval of the Owner's Consultant. Upon completion of work in any given area, Asbestos Abatement Contractor shall remove all material and equipment associated with the work, not necessary to complete other phases of the work in that area.

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- B. Comply with all requirements for final clearance and release of a work area as described in this Section and required by the Massachusetts Regulations prior to take down of polyethylene and area clean-up.

1.09 COORDINATION

- A. Extend full cooperation to Owner in all matters involving the use of Owner's facilities. At no time shall the Asbestos Abatement Contractor cause or allow conditions to be caused, which may cause risk or hazard to the general public, or conditions that might impair safe use of the facility.
- B. Coordinate the work of this section with that of all other trades as directed by the General Contractor and at the express consent of the Owner and Architect. Phasing and scheduling of this project will be subject to the approval of the Owner and Architect. The work of this Section shall be scheduled and performed so as not to impede the progress of the project as a whole. Work shall not proceed in any area without the express consent of the Owner and Architect. The Asbestos Abatement Contractor shall be available within 24 hours notice for additional work if after acceptance of the work it is found that full abatement was not achieved from the initial work effort as determined by the Owner, Architect or Consultant.
- C. Complete Asbestos activities in the phases of the final schedule agreed upon by Owner and Architect.

1.10 SUBSTITUTION OF MATERIALS OR METHODS

- A. Owner and Architect approval is required for all modifications to methods, procedures, and design, which may be proposed by the Asbestos Abatement Contractor. It is the intent of these documents to allow the Asbestos Abatement Contractor to present alternative methods to the abatement processes herein, for review by Owner and Architect. Any such modifications or substitutions to methods, procedures, or design shall comply with applicable regulations. Asbestos Abatement Contractor shall submit the proposed modification or substitution in accordance with the requirements of the General Conditions, and no later than fifteen (15) working days prior to planned commencement of proposed modification, for review and approval.
- B. Unless requests for modification or substitution are made in accordance with the above instructions and the instruction of the General Conditions, supported by sufficient proof of equality, Asbestos Abatement Contractor shall be required to furnish the specifically named or designed items, methods or procedures designated in this Section.
- C. If the modification or substitution necessitates changes or additional work, same shall be provided and the Asbestos Abatement Contractor shall assume the cost and the entire responsibility thereto unless performed under the approved Change Order Process.
- D. The Owner and Architect's permission to make such substitution shall not relieve the Asbestos Abatement Contractor from full responsibility for the work.

1.11 SITE SECURITY

- A. The Asbestos Abatement Contractor is responsible for performing all work under this contract without contaminating the building environment with asbestos fibers. This includes interiors of duct work, outside containment locations, machinery and equipment and any other release into unregulated spaces. The Asbestos Abatement Contractor is responsible for making right and clean-up of any such contamination if found to be present.
- B. The Asbestos Abatement Contractor will be responsible for the security of the abatement area, allowing only authorized personnel into the area, and securing assigned entrances and exits with locked doorways at the end of the work day. Signs will be posted prior to asbestos removal as required in 29 CFR 1926.1101.

1.12 PROJECT MONITOR

- A. The Owner (through the Architect) has retained ATLAS as their Consultant for the technical advisement and project management during the Project. In addition, ATLAS will perform project monitoring services during abatement activities. The Contractor shall regard ATLAS's direction, as authoritative and binding as provided herein, in matters outlined by this Section.
- B. ATLAS's licensed Project Monitor, acting as the Owner's Representative, will perform monitoring of Contractor work practices and performance, inspection of the worksites, and air sampling and analysis for each phase of the asbestos removal project. Quality control and testing criteria has been established in these specifications, and will be strictly enforced. ATLAS's Project Monitor will review matters relating to safety, interpretation of the specifications, and scheduling of work, and will make decisions upon consultation with the Architect and Owner.

1.13 TEMPORARY FACILITIES

- A. Use of Owner provided facilities is specified in Division 1 and shall be coordinated through the General Contractor and Owner.

PART II - PRODUCTS

2.01 MATERIALS

- A. All materials and equipment proposed to be used on this project shall be subject to the acceptance of the Owner, Architect and Consultant. The Asbestos Abatement Contractor shall comply with local, state and federal regulations pertaining to the selection and use of materials and equipment on this project. The Asbestos Abatement Contractor shall provide a submittal on all materials and equipment to be used for review and approval by the Architect and Consultant prior to commencement of the work.

PART III - EXECUTION

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3.01 PREPARATION

- A. Critical Barriers: Prior to any masking and sealing operations which will make up the asbestos removal work area, windows, doors, openings, ducts, drains and vents will be masked and sealed with a minimum of one layer of six (6) mil polyethylene sheeting. Large openings to occupied areas, such as open doorways, hallways, passageways and major openings shall be sealed with permanent, solid construction materials and made air tight in accordance with MADLS regulations 454 CMR 28.00. Voids in the walls and ceilings that are due to penetrations of conduits and pipes shall be sealed with a fire retardant spray foam. Exposed electrical panels in work areas will be shut off when possible, and masked and sealed with a minimum of two (2) layers of six (6) mil polyethylene and duct tape.
- B. Decontamination Chambers: It is the Asbestos Abatement Contractor's responsibility to provide Decontamination Chambers consisting of an equipment room, shower and clean room for personnel involved in asbestos removal. The Chamber shall be masked and sealed with two layers of six mil polyethylene sheeting with flaps between each room. Each of the three rooms will be of a sufficient size to accommodate the Asbestos Abatement Contractor's contaminated personnel and related equipment. The rooms will be framed, masked, sealed and attached and sealed to the entry/exit ways of asbestos worksites. Adequate heat and light will be safely provided. The Asbestos Abatement Contractor shall provide a minimum of one water heater per work area decontamination chamber. Waste water will be filtered by 20 micron and 5 micron filters in series prior to discharge.

3.02 ABATEMENT PROCEDURES

- A. General: The following paragraphs detail the work requirements for the regulated area. Workers shall wear tyvek suits and respiratory protection for all removals.
- B. Masking and Sealing
 - 1. Critical Barriers
 - a. Prior to any masking and sealing operations which will make up the asbestos removal work area, windows, doors, openings, ducts, drains and vents will be masked and sealed with a minimum of one layer of six (6) mil polyethylene sheeting. Voids in the walls and ceilings that are due to penetrations of conduits and pipes shall be sealed with a fire retardant spray foam. Large opening to occupied areas, such as open doorways, hallways, passageways and major openings shall be sealed with permanent, solid construction materials and made air tight in accordance with MADLS regulations 454 CMR 28.00.
 - b. In areas where drains or sump pumps are located, primary filters will be placed in drain and openings sealed with 6 mil polyethylene sheeting, in addition to floor masking and sealing requirements.
 - c. Any furniture, fixtures, or stored material that cannot be removed or that must remain in the work area will be covered, masked and sealed with a minimum of one layer of six (6) mil polyethylene sheeting. If the surfaces of

- these materials are determined to be contaminated with asbestos fibers, the Contractor shall remedial clean them prior to masking and sealing.
- d. Exposed electrical panels in work areas will be shut off when possible, and masked and sealed with a minimum of two (2) layers of six (6) mil polyethylene and duct tape.

2. Full Containment:

- a. Unless otherwise specified, floors and walls will be masked and sealed with two layers of six mil polyethylene sheeting with a minimum overlap of two feet at seams and up walls. Where it is necessary to mask and seal ceiling areas, a minimum of one layer of six mil polyethylene sheeting will be used.
 - b. The floors shall be covered first and the flooring plastic shall extend up on the walls. The walls shall then be covered with plastic from ceiling to floor level, thus overlapping the floor plastic. The floor shall then be covered with the second layer of plastic, the plastic extended up the walls and the edges sealed to the wall plastic. The walls shall then be covered with a second layer of plastic from ceiling to floor level, thus overlapping the second layer of floor plastic. The bottom portion of the wall plastic shall thus be sandwiched between the layers of the floor plastic. If the floor or wall plastic necessitates seams, the seams in successive layers of plastic sheet shall be staggered so as to reduce the potential for water or asbestos to penetrate through the covering.
 - c. The two separate layers of six-mil polyethylene sheeting on walls and floors shall constitute the primary and secondary containment barriers, respectively. This containment, along with the decontamination chamber, will constitute full containment, and will isolate the contained worksite from surrounding areas except where air must enter the worksite due to the use of exhaust equipment.
- C. Personal Air Sampling: Daily personal and excursion sampling will be the responsibility of the Contractor to check personal exposure levels versus respiratory protection and to check work practices. At least 25% of the workers in each shift, but not less than 2, shall be sampled. The Contractor is responsible for his own personal sampling as outlined in OSHA Regulation 1926.1101. The Contractor shall post the personal air sample results within 24 hours.
- D. Remedial Cleaning: Remedial cleaning of horizontal surfaces, ledges, and equipment will be required prior to masking and sealing operations of work areas. Cleaning will be done using HEPA vacuums and wet methods. Determinations of additional remedial cleaning will be made on the basis of hazard potential to workers and the outside environment relating to setup and masking and sealing operations (as deemed by the Consultant). Respiratory protection and protective clothing will be required for the cleaning. Prior to remedial cleaning negative air filtration units and a three stage

decontamination shall be in place and running and all wall and ceiling penetrations shall be sealed with fire retardant spray foam.

- E. Decontamination Chambers: The Contractor shall construct a decontamination chamber in accordance with local, state and federal regulations governing asbestos abatement.
- F. Negative Air Filtration: The Contractor shall establish negative pressure air filtration within the work areas. The Contractor shall install, operate, and maintain a sufficient number of Negative Air Filtration Units (NAFU's) to meet the requirements of local, state and federal regulations.
- G. Removals: Removal of asbestos containing materials, unless specified otherwise, will be performed using negative air filtration techniques, wet methods, attached three stage decontamination chambers, the masking and sealing of openings, ducts and vents, full two-layer plastic containments and the encapsulation of post removal surfaces. Removals will be as indicated and as specified herein, and will be performed in a neat and workman like manner to the limits indicated or specified. Asbestos will be consistently and thoroughly wetted with a fine spray of amended water and will be carefully removed and immediately placed in approved and properly labeled six mil polyethylene disposal bags. Asbestos residual materials will be diligently scraped or brushed from surfaces. After brushing and scraping, surfaces will be free of visible debris and fibers and surfaces will be HEPA vacuumed clean.
- H. Visual Inspections: Work areas shall pass a visual inspection conducted by the Site Supervisor responsible for the project and the Owner's Project Monitor (i.e. Consultant). The criterion for this inspection will be the absence of visible debris in accordance with ASTM standard E1368-90. A certificate of visual inspection will be signed by the Project Monitor and the Site Supervisor after final inspection clearance. The Contractor will be responsible for the costs of visual inspection and testing required for any work which fails clearance air quality criteria.
- I. Encapsulation: A bridging encapsulant/lockdown sealant will be applied to remaining surfaces in direct contact with removal operations, polyethylene sheeting and on any porous surfaces within the work site. The chosen encapsulant must be compatible with the replacement materials and conform to the proper edition of applicable fire and electrical standards.
- J. Work Completion: Final air clearance testing shall be performed by the Project Monitor for all areas.

3.03 DISPOSAL

- A. Packaging: Prior to post-abatement inspection, asbestos- containing waste shall be packaged in sealed double containers and removed from the work area to a specified transportation vehicle or a designated holding area approved by the Owner. At the end of each work day the Asbestos Abatement Contractor shall remove the debris accumulated during that day's work activities using procedures outlined in the Specifications. The Asbestos Abatement Contractor shall provide a daily tally of all bags removed.

- B. Temporary Storage of Waste: An area for temporary storage of asbestos waste must be approved by the Owner. Asbestos waste must be stored in a restricted area and must be in an **enclosed container** which is posted and secured whenever not in use. ACM Waste shall NOT be stored outside the building on the ground, pavement areas or other non-enclosed area. Asbestos waste material shall be loaded into a waste transportation vehicle/dumpster and hauled away as soon as there is a sufficient quantity available for direct transportation to the approved disposal site. ACM waste shall **NOT** be transferred back to the Asbestos Abatement Contractor's yard/facility unless approved by the Owner. ACM Waste shall only be stored at:

1. An approved refuse transfer station facility permitted or that is managing such wastes in accordance with 310 CMR 19.061 and/or;
2. The site of generation of the asbestos abatement activity.

Note: All ACM waste shall be shipped from the site for disposal within 30 days after completion of the work and acceptance of a final visual inspection by the Consultant.

- C. OSHA/EPA labeling: Asbestos warning labels having permanent adhesive and waterproof print, or being permanently printed on the container, shall be affixed to the outside of all asbestos containers, and each inside bag, except that nonfriable asbestos-containing waste that has not been and does not have a high probability of becoming, crumbled, pulverized, or reduced to powder need not be labeled. Labels will be conspicuous and legible and shall contain the following warning:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

The Asbestos Abatement Contractor is directed to properly label each waste bag in accordance with the latest NESHAP standard, Section 61.150, with the following information:

SITE OWNER'S NAME
SITE NAME

- D. DOT labeling and marking: A DOT "class 9" shipping label and DOT mark shall be applied to or be printed on each packaging of asbestos-containing materials.
- E. Waste Transportation: All ACM waste shall be containerized pursuant to 310 CMR 7.15 prior to being transported. All ACM waste shall be transported in totally enclosed vehicles or containers that are designed, constructed, and operated to prevent spills, leaks or emissions. All ACM waste shall be transported in compliance with 40 CFR Part 61 and applicable Department of Transportation (DOT), OSHA and local regulations. Each vehicle transporting asbestos-containing waste shall be marked with asbestos danger

signs during loading and unloading of the waste, in accordance with the NESHAP, 40 CFR 61.150.

- F. Asbestos waste shipment records: The Asbestos Abatement Contractor shall prepare the waste shipment records. Completed waste shipment record(s) signed by the Asbestos Abatement Contractor, all transporter(s), transferor(s), disposal and/or conversion facility(s), shall be provided to the Owner within 30 days of the time at which the asbestos-containing wastes are received at the disposal and/or conversion facility (ies), which shall be no longer than 40 days after the waste was accepted by the initial transporter. The Waste Shipment Record shall specify the designated number of bags or cubic yard(s) of asbestos waste.
- G. The following information shall be included on the waste shipment record for each and every load of ACM transported off-site:
1. The name, address and telephone number of the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred;
 2. The quantity and type (friable or non-friable) of the ACWM in cubic meters (cubic yards) and a description of the container used for shipment;
 3. The name, address and telephone number of the person who conducted any asbestos abatement activity;
 4. The name and telephone number of the disposal site operator;
 5. The name and physical location of the disposal site;
 6. The date transported;
 7. The name, address, and telephone number of the transporter(s);
 8. Certification by the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred/where asbestos waste was generated that the contents of each shipment have been characterized, packaged, marked and labeled in accordance with 310 CMR 7.15;
 9. Signature of each transporter confirming the contents of each shipment are in all respects in the proper condition for transport according to applicable international, federal, state and local regulations;
 10. Signature by the receiving disposal facility confirming that: i) the quantity of ACWM listed on the waste shipment record is the same as the quantity accepted for disposal; and ii) it holds appropriate permits and/or authorizations to accept for disposal ACWM described on waste shipment records.

3.04 QUALITY CONTROL AND TESTING

- A. The Asbestos Abatement Contractor shall be responsible for achieving acceptable visual and final air clearance testing for all abatement areas as follows:
1. Clearance inspection: ATLAS's Project Monitor shall inspect the work area and surrounding areas for clearance using visual and physical methods, prior to clearing the project for air monitoring clearance procedures.

2. Based upon the quantity of material to be abated, either Phase Contrast Microscopy (PCM) or Transmission Electron Microscopy (TEM) clearance testing will be performed to confirm the completion of removal. All clearance testing shall be performed in accordance with state of Massachusetts and EPA "Asbestos Hazard Emergency Response Act" (AHERA) Regulations. The work areas shall be considered complete if the following criteria are met:
 - a. Containments cleared and samples analyzed by Phase Contrast Microscopy (PCM): Maximum airborne fiber concentration of <0.01 fibers per cubic centimeter (minimum 5 samples).
 - b. Containment's cleared and samples analyzed by Transmission Electron Microscopy (TEM): The average concentration of asbestos on the five inside containment samples is not statistically different (as determined by the Z-test calculation found in Appendix A of 40 CFR 763 Subpart E) from the average asbestos concentrations of the five outside containment samples, and average asbestos concentrations of the three field blanks are below the filter background level of 70 structures per square millimeter (70 s/mm^2).
 - c. TEM air clearance analysis shall be at 24-hour turnaround time upon laboratory receipt of the samples.
- B. Should results indicate a fiber concentration greater than the clearance criteria stated above or if the visual inspection fails, the Asbestos Abatement Contractor shall reclean the entire work at no additional cost to Owner, utilizing the methods specified in this section. The Asbestos Abatement Contractor shall pay for all additional testing and inspections until the clearance level is achieved as per this Section. The cost of additional testing and inspection shall be paid by the Asbestos Abatement Contractor by subtracting the cost for analysis and inspector's time from the Contract total. This shall also include resampling of any areas where air cassettes became overloaded due to construction activities.

ATTACHMENT A

TABLE 1.0 SUMMARY OF ACM TO BE ABATED

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TABLE 1.0 SUMMARY OF ACM TO BE ABATED				
#	LOCATION	COMPONENT	QUANTITY	NOTES
1	Throughout	Flooring Material (tiles, cove base, adhesives, levelers)	150 SF	- Remove ACM flooring by doors requiring new door system installation. - Refer to the Drawings and coordinate all work with the General Contractor.
2	Supply Room between Rms. 11 & 13	Flooring Material (tiles, cove base, adhesives, levelers)	130 SF	Includes demolition of shelving to access ACM flooring materials
3	Basement Bathroom	Pipe & Fitting Insulation	6 LF	- Includes demolition of CMU wall behind toilet. - Refer to the Drawings and coordinate all work with the General Contractor. - Pipe and/or fitting insulation presumed in wall cavity.
4	Basement Bathroom	Mirror Adhesive	5 SF	
5	Room 10A Bath	Ceramic Wall Tile Adhesive & Grout	150 SF	
6	Room 10A Bath	Pipe & Fitting Insulation		- Includes demolition of CMU wall behind toilet. - Refer to the Drawings and coordinate all work with the General Contractor. - Pipe and/or fitting insulation presumed in wall cavity.
7	Room 9A Bath	Ceramic Wall Tile Adhesive & Grout	150 SF	
8	Room 9A Bath	Pipe & Fitting Insulation		- Includes demolition of CMU wall behind toilet. - Refer to the Drawings and coordinate all work with the General Contractor. - Pipe and/or fitting insulation presumed in wall cavity.
9	Office Restrooms	Ceramic Wall Tile Adhesive & Grout	250 SF	
10	Room 11 Bath	Ceramic Wall Tile Adhesive & Grout	150 SF	

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TABLE 1.0 SUMMARY OF ACM TO BE ABATED				
#	LOCATION	COMPONENT	QUANTITY	NOTES
11	Room 11 Bath	Pipe & Fitting Insulation		- Includes demolition of CMU wall behind toilet. - Refer to the Drawings and coordinate all work with the General Contractor. - Pipe and/or fitting insulation presumed in wall cavity.
12	Room 11/13 Storage	Ceramic Wall Tile Adhesive & Grout	120 SF	
13	Girl's Room	Ceramic Wall Tile Adhesive & Grout	425 SF	
14	Girl's Room	Pipe & Fitting Insulation	32 LF	- Refer to the Drawings and coordinate all work with the General Contractor. - Pipe and/or fitting insulation presumed in wall cavity.
15	Boy's Room	Ceramic Wall Tile Adhesive & Grout	425 SF	
16	Boy's Room	Pipe & Fitting Insulation	32 LF	- Refer to the Drawings and coordinate all work with the General Contractor. - Pipe and/or fitting insulation presumed in wall cavity.

SECTION 03 3930

GRAVITY FEED CRACK REPAIR

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Attention is directed to the Contract and General Conditions and all Sections within Division 01 – General Requirements which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment for grouting of cracks by gravity flow with an epoxy resin adhesive.
- B. Alternates: Not Applicable.
- C. Items To Be Installed Only: Not Applicable.
- D. Items To Be Furnished Only: Not Applicable.
- E. Related Work: The following items are not included in this Section and will be performed under the designated Sections:
1. Section 03 3000 – Cast-In-Place Concrete for concrete slab infill work at Utility Trenching.



1.3 UNIT PRICES

- A. Unit Prices for the following work are included in Section 01 2200 – Unit Prices.

Section	Item Description	Quantity
03 3930	Gravity Feed Crack Repair at concrete slab-on-grade.	100 LF

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: The manufacturer of the specified product shall be ISO 9001/9002 certified and have in existence a recognized ongoing quality assurance program independently audited on a regular basis.
- B. Contractor Qualifications: Contractor shall be qualified in the field of concrete repair and protection with a successful track record of 5 years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative.
- C. Install materials in accordance with all safety and weather conditions required by manufacturer or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets for complete handling recommendations.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. All materials must be delivered in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Damaged material must be removed from the site immediately.

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- B. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.
- C. Condition the specified product as recommended by the manufacturer.

1.6 JOB CONDITIONS

- A. Environmental Conditions: Do not apply material if it is raining or snowing or if such conditions appear to be imminent. Minimum application temperature 40°F (5°C) and rising.
- B. Protection: Precautions should be taken to avoid damage to any surface near the work zone due to mixing and handling of the specified material.

1.7 SUBMITTALS

- A. Submit two copies of manufacturer's literature, to include: Product Data Sheets, and appropriate Material Safety Data Sheets (MSDS).

1.8 Warranty

- A. Provide a written warranty from the manufacturer against defects of materials for a period of one (1) year, beginning with the date of substantial completion of the project.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- 1. Basis of Design: Sikadur 25 Lo-Mod EPU, as manufactured by Sika Corporation, 201 Polito Avenue, Lyndhurst, New Jersey 07071, or approved equal.

2.2 MATERIALS

- A. Epoxy resin adhesive binder:
 - 1. Component "A" shall be a modified epoxy resin of the diglycidether bisphenol A Type containing suitable viscosity control agents. It shall not contain butyl glycidyl ether.
 - 2. Component "B" shall be primarily a reaction product of a selected amine blend with an epoxy resin of the diglycidether bisphenol A Type containing suitable viscosity control agents, pigments, and accelerators.
 - 3. The ratio of Component "A": Component "B" shall be 1:1 by volume.

2.3 PERFORMANCE CRITERIA

- A. Typical Properties of the mixed epoxy resin adhesive binder:
 - 1. Pot life: min. 25 minutes (60 gram mass @ 73F)
 - 2. Tack-free time: (20 mil thickness at 73F): 3 - 3.5 hours
 - 3. Color: clear, amber
- B. Typical Properties of the mixed neat cured epoxy resin adhesive binder:
 - 1. Compressive Properties (ASTM D-695) at 28 days
 - a. Compressive Strength: 13,000 psi min (89.6 MPa)
 - b. Compressive Modulus: 320,000 psi (2,200 MPa)

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2. Tensile Properties: (ASTM D-638) at 14 days
 - a. Tensile Strength: 8,900 psi min (61 MPa)
 - b. Elongation at Break: 5.4%
 - c. Modulus of Elasticity: 410,000 psi (2,800 MPa)
3. Flexural Properties: (ASTM D-790) at 14 days
 - a. Flexural Strength (Modulus of Rupture): 14,000 psi min (97 MPa)
 - b. Tangent Modulus of Elasticity in Bending: 370,000 psi (2,800 MPa)
4. Shear Strength (ASTM D-732) at 14 days: 5,100 psi min (35 MPa)
5. Total water absorption (ASTM D-570) at 7 days: 0.27% (2 hour boil)
6. Bond Strength (ASTM C-882) Hardened Concrete to Hardened Concrete
 - a. 2 days (dry cure): 2,800 psi min (19 MPa)
 - b. 14 days (moist cure): 2,900 psi min (17 MPa)
7. Deflection Temperature (ASTM D-648) at 14 days: 129F min. (fiber stress loading = 264 psi)

PART 3 - EXECUTION

3.1 SURFACE PREPARATION

- A. Vee notch the surface of the crack with mechanical router or hand chipping tool to a maximum width of $\frac{1}{4}$ ". Remove loose debris. The substrate may be dry or damp prior to product application. Where accessibility to the underside of the slab is available, seal all visible cracks with an epoxy resin adhesive paste or Portland cement-based quick setting compound to act as a dam to hold the liquid epoxy resin adhesive until cured.

3.2 MIXING AND APPLICATION

- A. Mixing the epoxy resin adhesive binder: Proportion 2 parts by volume of Component "A" and 1 part of Component "B" by volume into a clean, dry mixing pail. Mix thoroughly for 3 minutes min. with a jiffy paddle on a low-speed (400-600 rpm) drill. Mix only that quantity of material that can be used within its pot life (20-30 minutes at 73F).
- B. Placement Procedures: Place the mixed epoxy resin adhesive into the vee-notch crack. Replenish the reservoir with the mixed epoxy resin adhesive until the crack has been completely filled.
- C. If penetration of any crack is impossible, consult the Designer before discontinuing the procedure. If modification of proposed procedure is required to fill the crack, submit modification in writing to the Designer for acceptance prior to proceeding.
- D. Adhere to all limitations and cautions for the epoxy resin adhesive binder in the manufacturers current printed literature.

3.3 CLEANING

- A. The uncured epoxy resin adhesive can be cleaned from tools with an approved solvent. The cured epoxy resin adhesive can only be removed mechanically.
- B. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent areas.

END OF SECTION

SECTION 10 2813

TOILET ACCESSORIES

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Attention is directed to the Contract and General Conditions and all Sections within Division 01 – General Requirements which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
 - 1. Toilet accessories as scheduled on the Drawings. Coordinate with User Agency for accessories provided by User Agency.
- B. Alternates: Not Applicable.
- C. Items To Be Installed Only: Furnished by Owner.
 - 1. Toilet Tissue Dispenser.
 - 2. Liquid Soap Dispenser.
 - 3. Paper Towel Dispenser.
 - 4. Waste Receptacle.
- D. Items To Be Furnished Only: Not applicable.
- E. Related Work: The following items are not included in this Section and will be performed under the designated Sections:
 - 1. Section 06 1000 – Rough Carpentry for blocking.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include the following:
 - 1. Construction details and dimensions.
 - 2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
 - 3. Material and finish descriptions.
 - 4. Features that will be included for Project.
 - 5. Manufacturer's warranty.
- B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
 - 1. Identify locations using room designations indicated on Drawings.
 - 2. Identify products using designations indicated on Drawings.

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- C Maintenance Data: For toilet accessories to include in maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Source Limitations: For products listed together in the same articles in Part 2, provide products of same manufacturer unless otherwise approved by Designer.

1.5 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. A & J Washroom Accessories, Inc.
 2. American Specialties, Inc.
 3. Bobrick Washroom Equipment, Inc.
 4. Bradley Corporation.
 5. Or equal.

2.2 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, 0.0312-inch minimum nominal thickness, unless otherwise indicated.
- B. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- C. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.



2.3 *PRODUCT TYPES*

- A. *Provide products from a single source and single manufacturer.*
- B. *Shower Seat: Provide shower seat meeting the following criteria*
 1. *Wall mounted, 17-19" above finish floor.*
 2. *Folding operation*
 3. *30" Wide seat with Padding.*
- C. *Adult changing station:*
 1. *Available manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:*

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- a. *Sova (Basis of Design)*
 - b. *Smirthwaite*
 - c. *Attend*
 - d. *Or equal*
2. *Changing table features:*
- a. *Fixed mounting height. 19"-23" above finish floor*
 - b. *Manual foldable operation*
 - c. *Side guardrail*

2.4 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to the Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
-  B. Grab Bars *and shower seats*: Install to withstand a downward load of at least 250 lbf, when tested according to method in ASTM F 446.

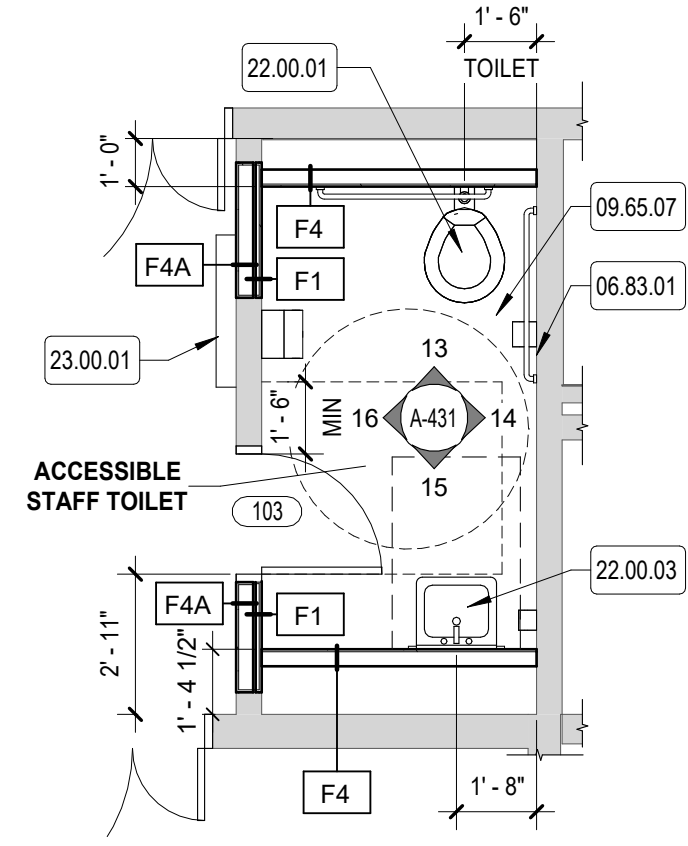
3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

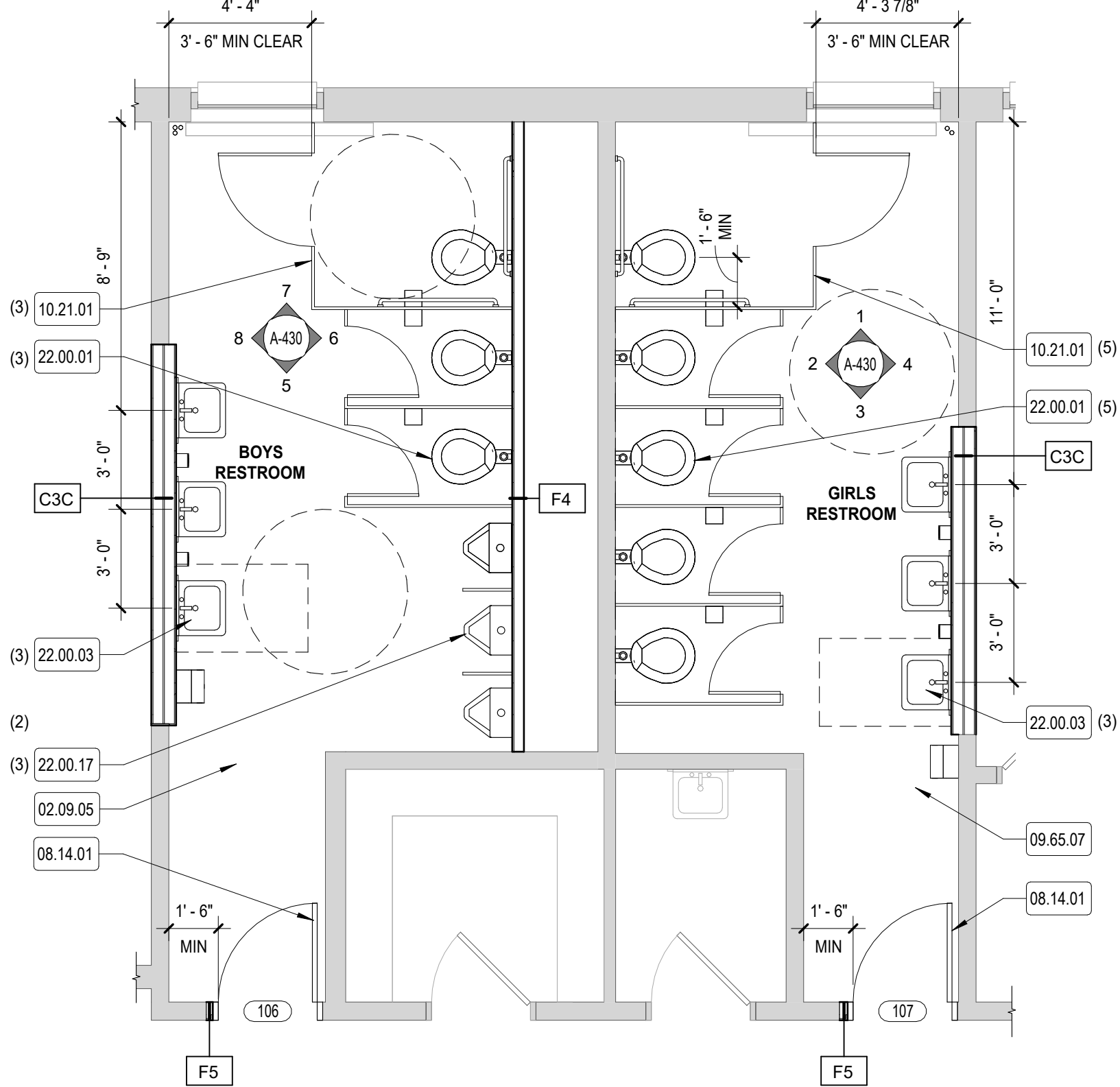
END OF SECTION

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

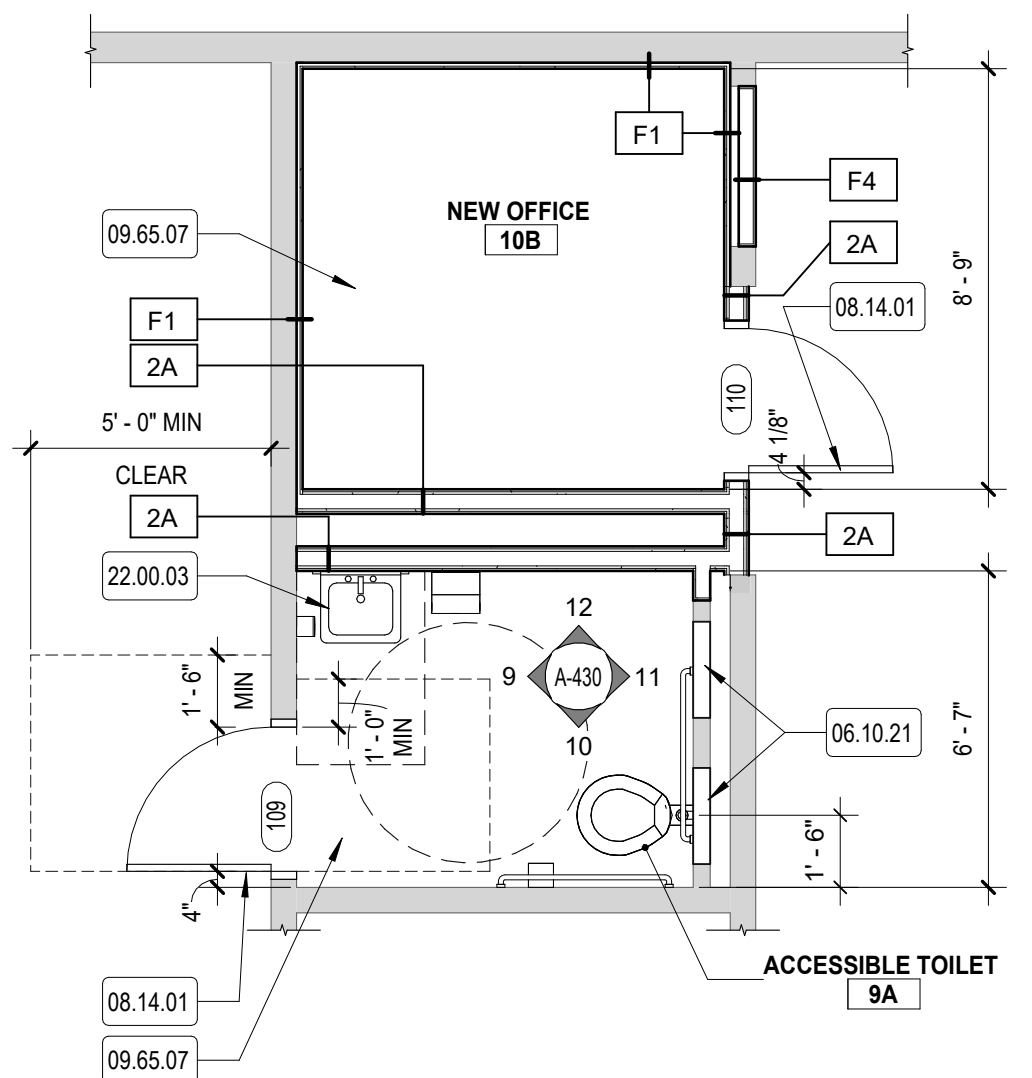
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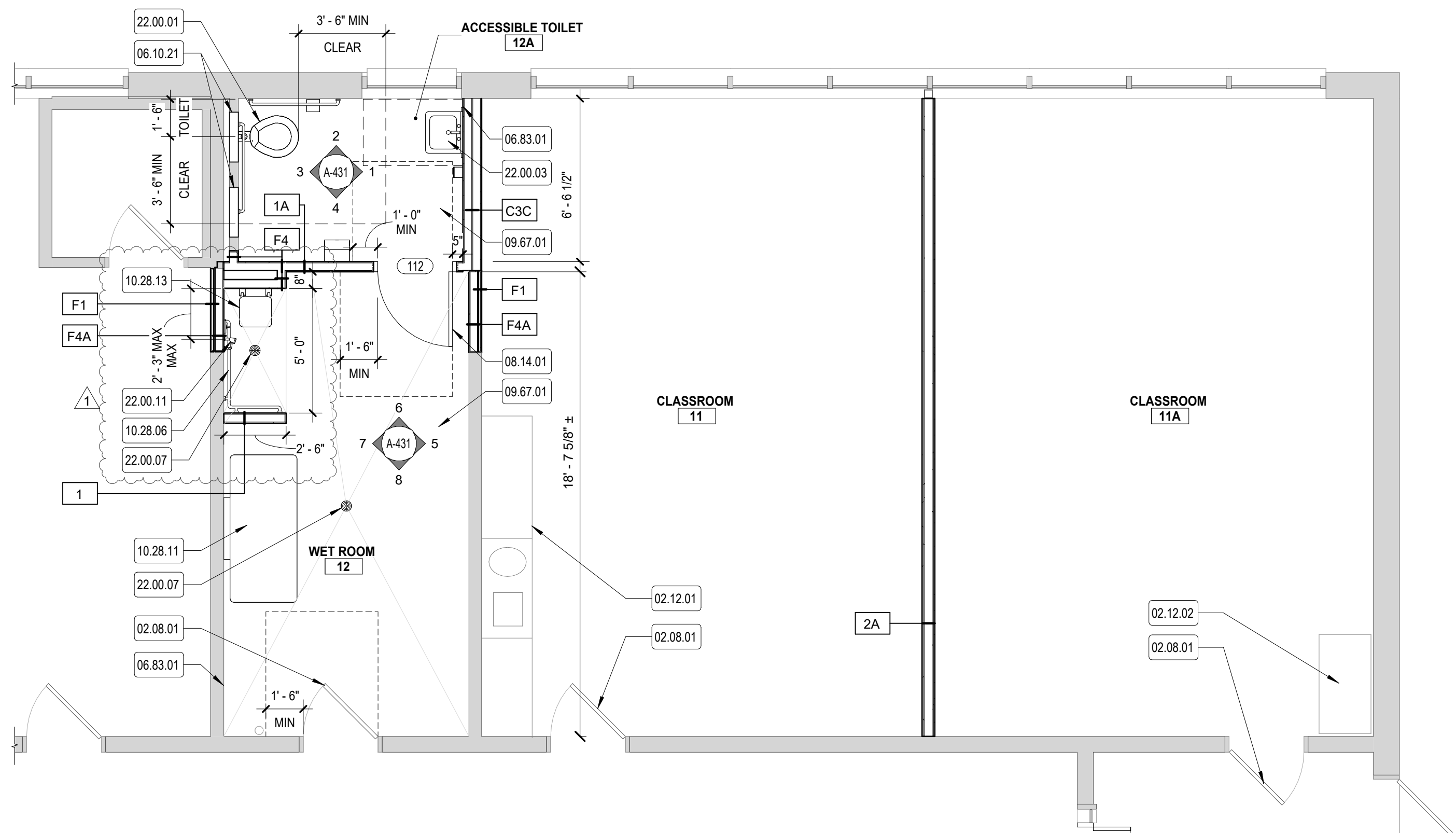
4 RESTROOM ENLARGED PLAN



3 RESTROOMS ENLARGED PLAN



2 OFFICE & RESTROOM ENLARGED PLAN



1 CLASSROOM & WET ROOM ENLARGED PLAN

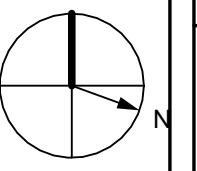
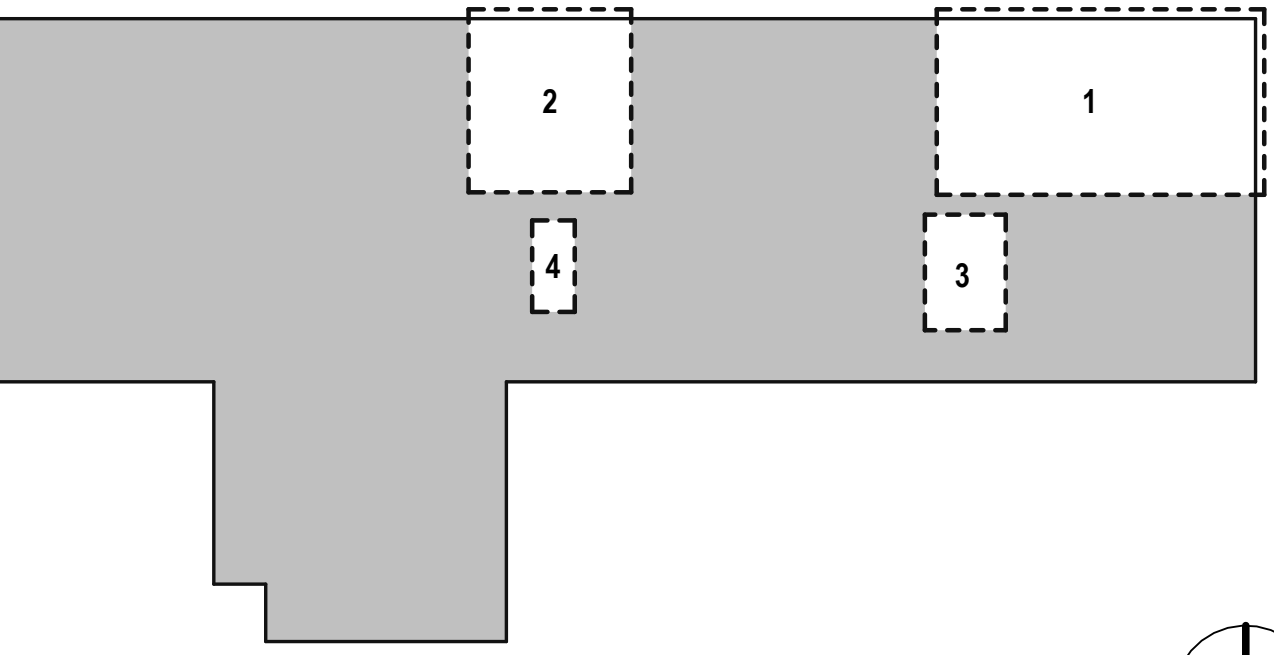


KEYNOTE LEGEND	
NUMBER	DESCRIPTION
02.08.01	EXISTING DOOR AND FRAME TO REMAIN
02.09.05	EXISTING FLOOR TO REMAIN
02.12.01	EXISTING BUILT-IN CABINET AND COUNTER TO REMAIN
02.12.02	EXISTING CABINET TO REMAIN
06.10.21	WOOD PANEL WALL INFILL, MATCH EXISTING, TYP.
06.83.01	FIBERGLASS REINFORCED PANEL
08.14.01	WOOD DOOR, SEE DOOR SCHEDULE
09.65.07	VCT FLOORING, REFER TO FINISH PLANS
09.67.01	POURED EPOXY FLOORING
10.21.01	TOILET PARTITIONS, REFER TO SPECS.
10.28.06	GRAB BAR
10.28.11	ADULT-SIZED CHANGING STATION
10.28.13	WALL MOUNTED SHOWER SEAT
22.00.01	WALL MOUNTED TOILET, REFER TO PLUMBING BY [221]
22.00.03	WALL MOUNTED LAVATORY, REFER TO PLUMBING BY [221]
22.00.07	FLOOR DRAIN, REFER TO PLUMBING BY [221]
22.00.11	WALL MOUNTED SHOWER HEAD, REFER TO PLUMBING [221]
22.00.17	WALL MOUNTED URINAL, REFER TO PLUMBING BY [221]
23.00.01	MECHANICAL UNIT, REFER TO MECHANICAL BY [231]

FLOOR PLAN LEGEND

EXISTING WALL CONSTRUCTION TO REMAIN		
NEW WALL CONSTRUCTION		INDICATES PARTITION TYPE REFER TO G-020 SERIES
EXISTING DOOR TO REMAIN		
NEW DOOR		<u>DOOR NUMBER:</u> REFER TO A-600 SERIES DOOR SCHEDULE AND FRAME/PANEL TYPES
EXISTING WINDOW TO REMAIN		
		<u>WINDOW UNIT TYPE:</u> REFER TO A-610 SERIES WINDOW SCHEDULE AND FRAME/PANEL TYPES
LIMIT OF WORK		
SPOT ELEVATION		

KEY PLAN (NOT TO SCALE)



H&A
150 LONGWATER DR
ROSWELL, ILL 60067
43 HARVARD ST
ROCHESTER, ILL 01609
781.871.3804
habeebarchi.com

ADA RENOVATIONS

NEW CITIZEN'S CENTER

**1407A MAIN STREET
WORCESTER, MA 01603**

[illegible]

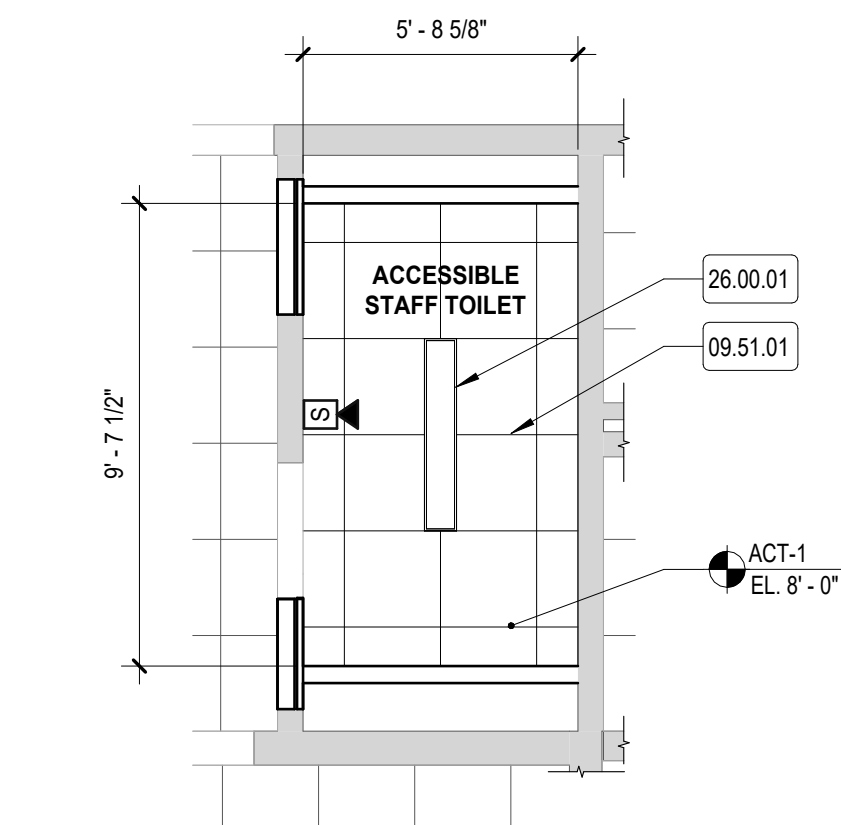
PROJECT NO: 2430.05
DATE: 08/19/2026
SCALE: AS NOTED
DRAWN BY: JG / AR
CHECKED BY: TP / MB

ENLARGED FIRST FLOOR PLANS

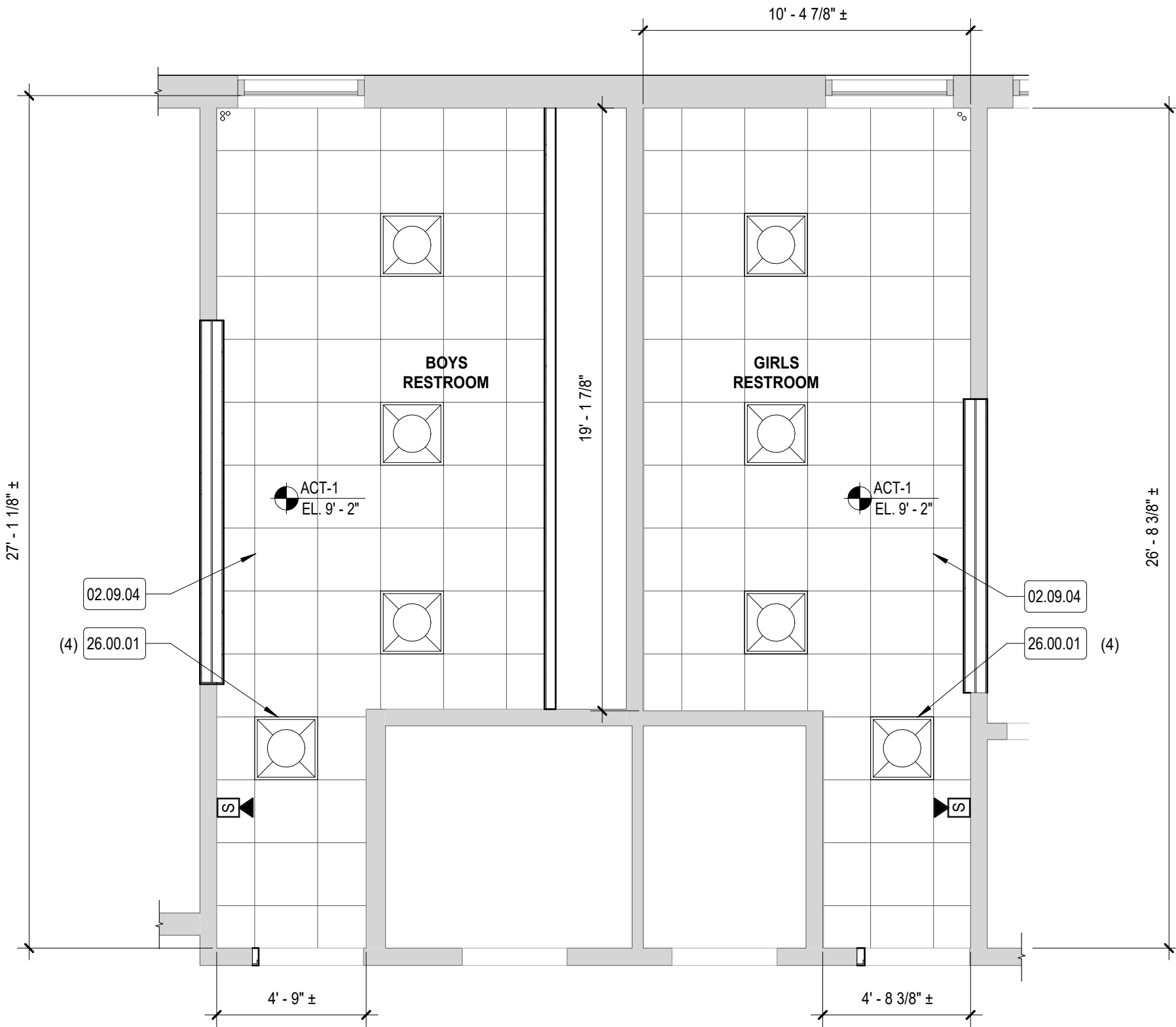
A-410

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

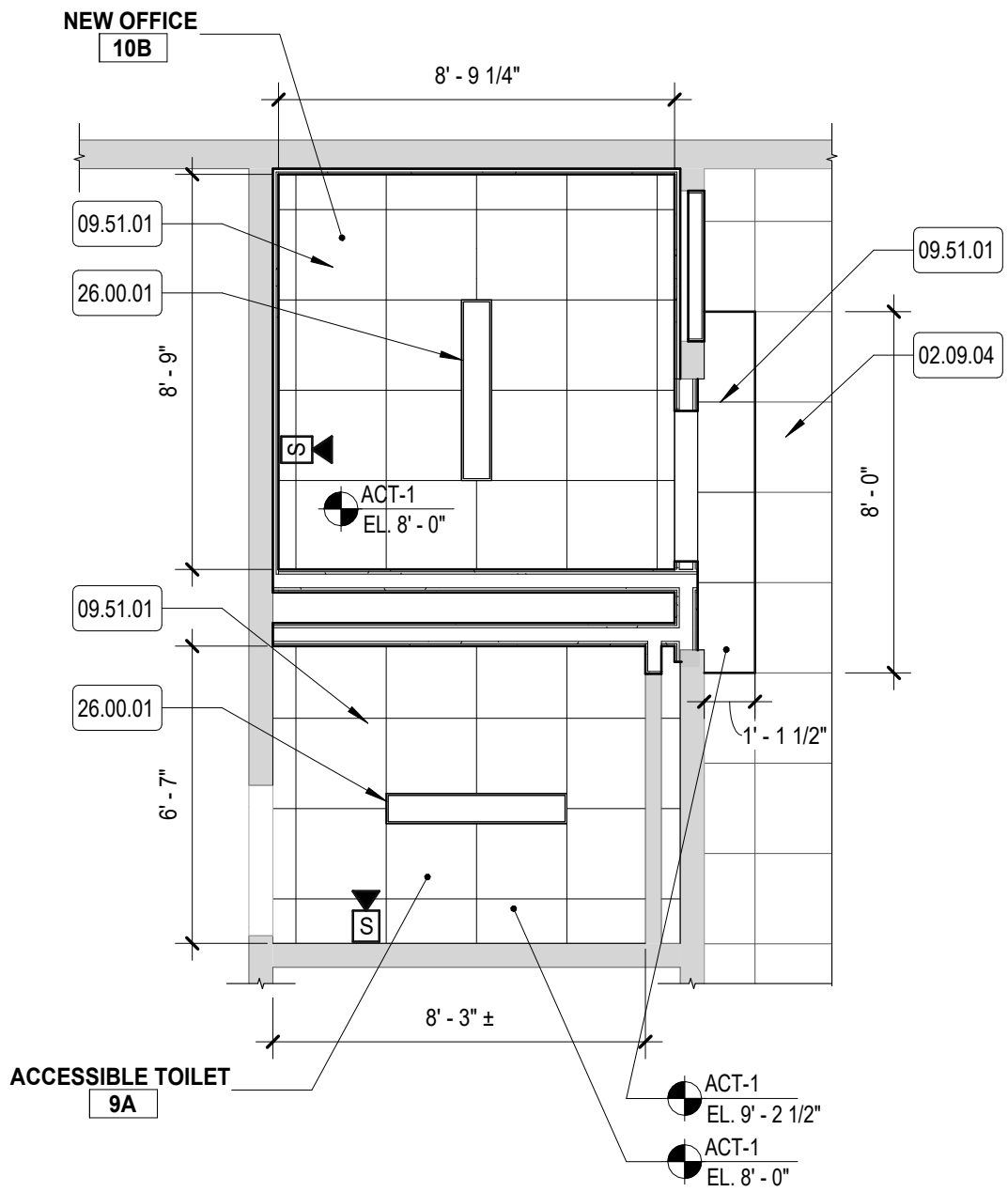
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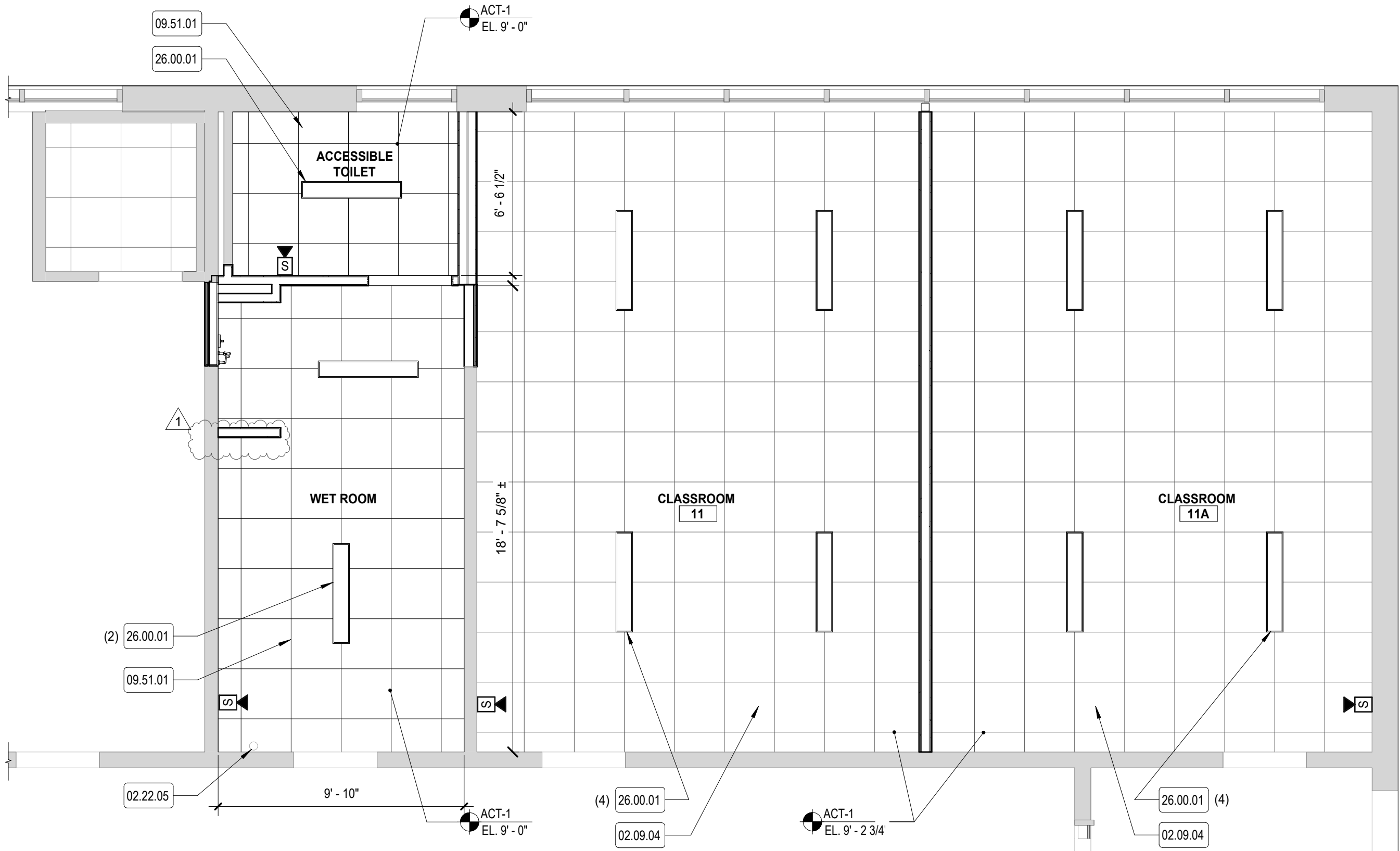
4 RESTROOM CEILING PLAN
SCALE: 1/4" = 1'-0" 0 2' 4' 8'



3 RESTROOMS CEILING PLAN
SCALE: 1/4" = 1'-0" 0 2' 4' 8'



2 OFFICE & RESTROOM CEILING PLAN
SCALE: 1/4" = 1'-0" 0 2' 4' 8'



1 CLASSROOM & WET ROOM CEILING PLAN
SCALE: 1/4" = 1'-0" 0 2' 4' 8'

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.09.04	EXISTING DROP CEILING TO REMAIN
02.22.05	EXISTING PIPING TO REMAIN
09.51.01	ACOUSTICAL PANEL CEILING
26.00.01	LIGHT FIXTURE, REFER TO ELECTRICAL BY [261]

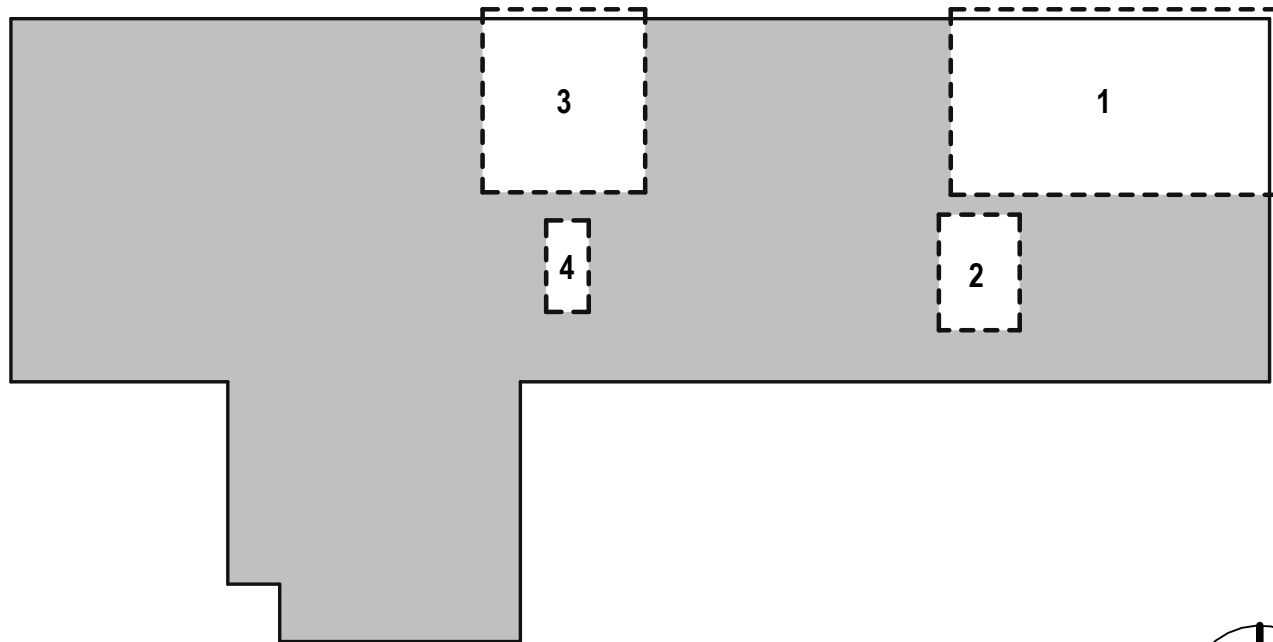
CEILING PLAN LEGEND

- ACT-1 CEILING MATERIAL
EL. X'-XX" CEILING HEIGHT AFF
- NEW
PTD HARD CEILING
- EXISTING
HARD CEILING
REMAIN
- NEW
2' x 2' ACOUSTICAL
CEILING TILE
- EXISTING
EXISTING 2'X2' ACOUSTICAL
CEILING TILE - TO REMAIN

LIGHT FIXTURE TYPES

- NEW EXISTING
- 1 X 1 LIGHT FIXTURE
- 2 X 2 LIGHT FIXTURE
- 1 X 4 LIGHT FIXTURE
- EMERGENCY LIGHT
- COMBINATION AUDIO/VISUAL ALARM

KEY PLAN (NOT TO SCALE)



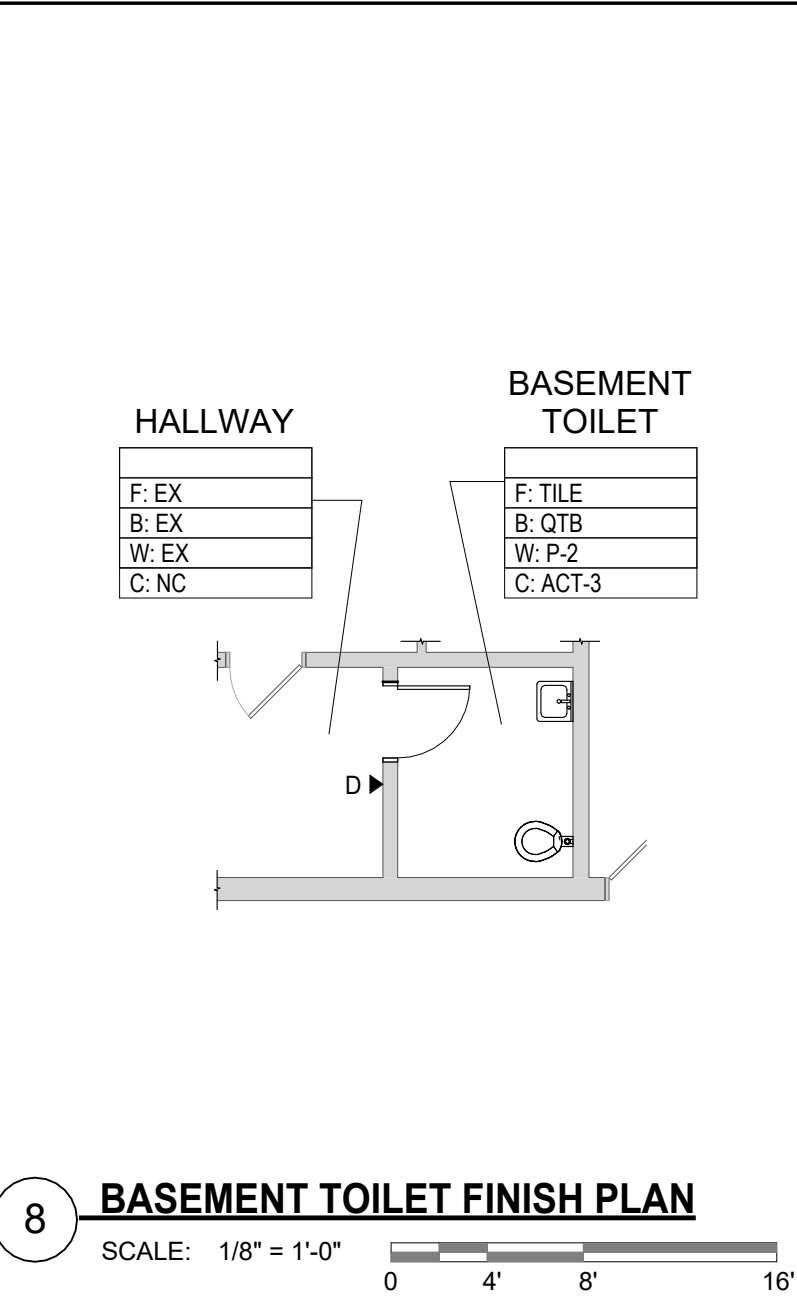
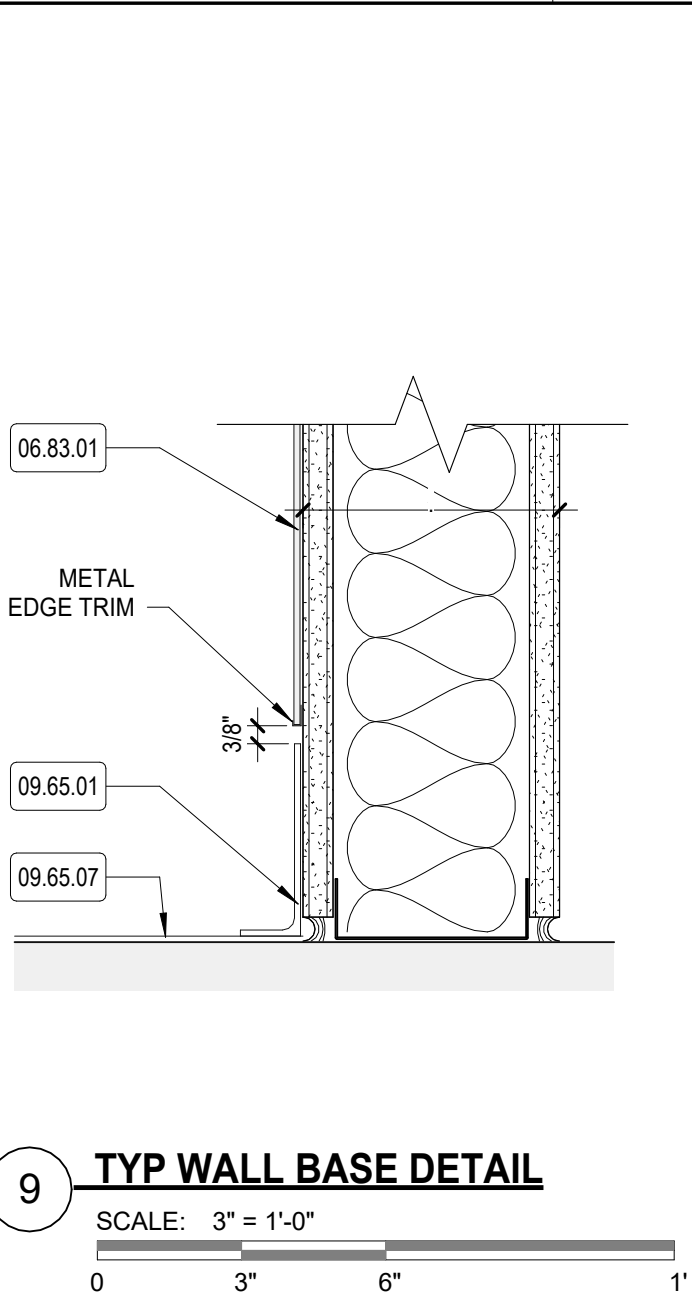
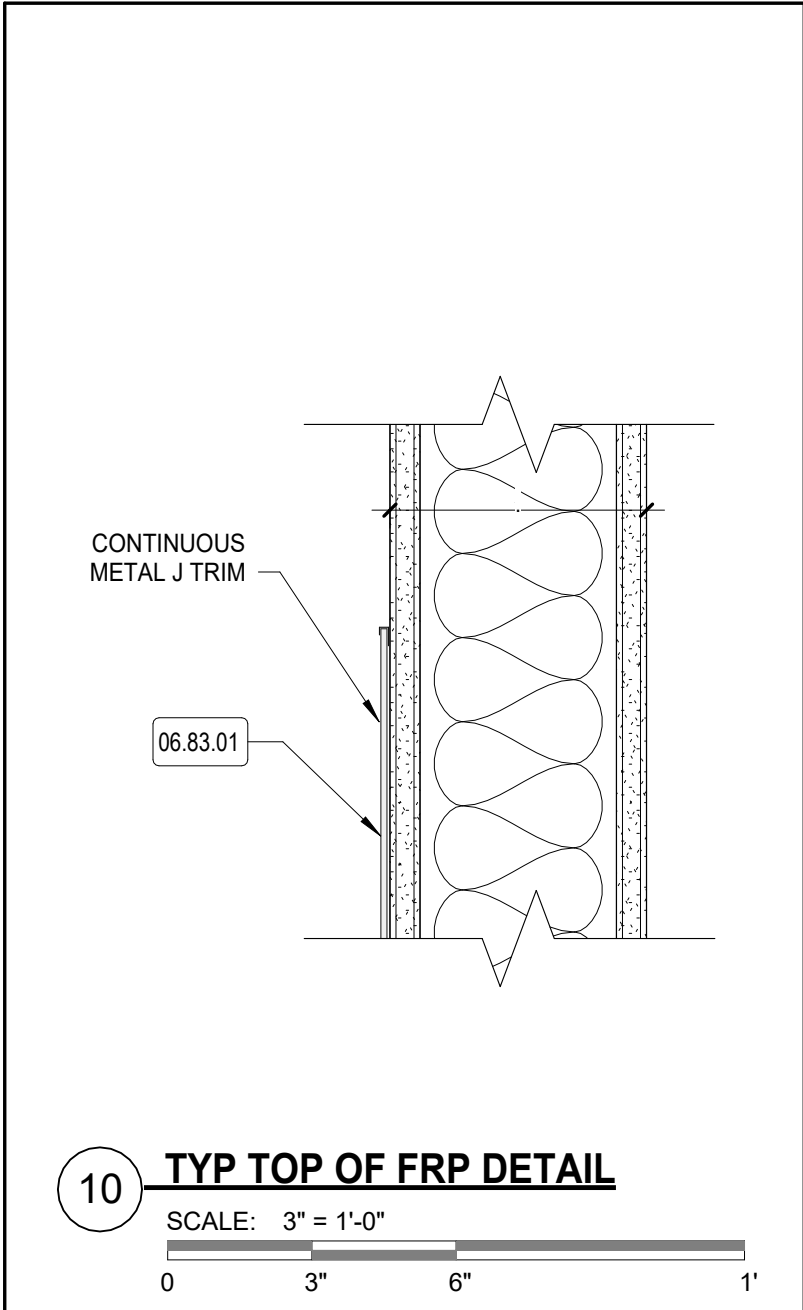
REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION
1	09/25/2026	ADDENDUM 3

PROJECT NO: 2430.05
DATE: 08/19/2026
SCALE: AS NOTED
DRAWN BY: JG / AR
CHECKED BY: TP / MB

ENLARGED FIRST
FLOOR CEILING
PLANS

This Border is intended for a 22" x 34" sheet. If printed sheet size differs, refer to graphic bar scales only.

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ROOM FINISH SCHEDULE								
LEVEL	ROOM #	ROOM NAME	FLOORS	WALLS	BASE	CEILING	CEILING HEIGHT	COMMENTS
BASEMENT		BASEMENT TOILET	TILE	P-2	QTB	ACT-3		
BASEMENT		HALLWAY	EX	EX	EX	NC		
FIRST FLOOR		ACCESSIBLE STAFF TOILET	TILE	P-1 / P-2	QTB	ACT-3		
FIRST FLOOR	12A	ACCESSIBLE TOILET	EPX	P-1 / P-2 / EX	ECB	ACT-3		
FIRST FLOOR	9A	ACCESSIBLE TOILET	TILE	P-1 / EX	QTB	ACT-3		
FIRST FLOOR		BOYS RESTROOM	EX	FRP / EX	VCB	EX		
FIRST FLOOR	11	CLASSROOM	EX	P-1 / EX	VCB	EX		
FIRST FLOOR	22	CLASSROOM	EX	P-1 / EX	VCB	EX		
FIRST FLOOR	11A	CLASSROOM	EX	P-1 / EX	VCB	EX		
FIRST FLOOR	21	CLASSROOM	EX	P-1 / EX	VCB	EX		
FIRST FLOOR	10D	ENTRY						
FIRST FLOOR		GIRLS RESTROOM	EX	FRP / EX	VCB	EX		
FIRST FLOOR		KITCHEN	TILE	P-1 / P-2	QTB	ACT-2		
FIRST FLOOR		LIFE SKILLS	TILE	P-1/P-2/FRP	QTB	ACT-2		
FIRST FLOOR	10B	NEW OFFICE	VCT	P-1	VCB	ACT-1		
FIRST FLOOR	10C	TOILET 10C						
FIRST FLOOR	12	WET ROOM	EPX	P-1 / EX	ECB	ACT-3		

KEYNOTE LEGEND	
NUMBER	DESCRIPTION
06.83.01	FIBERGLASS REINFORCED PANEL
09.65.01	VINYL COVE BASE, REFER TO FINISH PLANS
09.65.07	VCT FLOORING, REFER TO FINISH PLANS

FLOOR PLAN LEGEND	
EXISTING WALL CONSTRUCTION TO REMAIN	
NEW WALL CONSTRUCTION	
EXISTING DOOR TO REMAIN	
NEW DOOR	

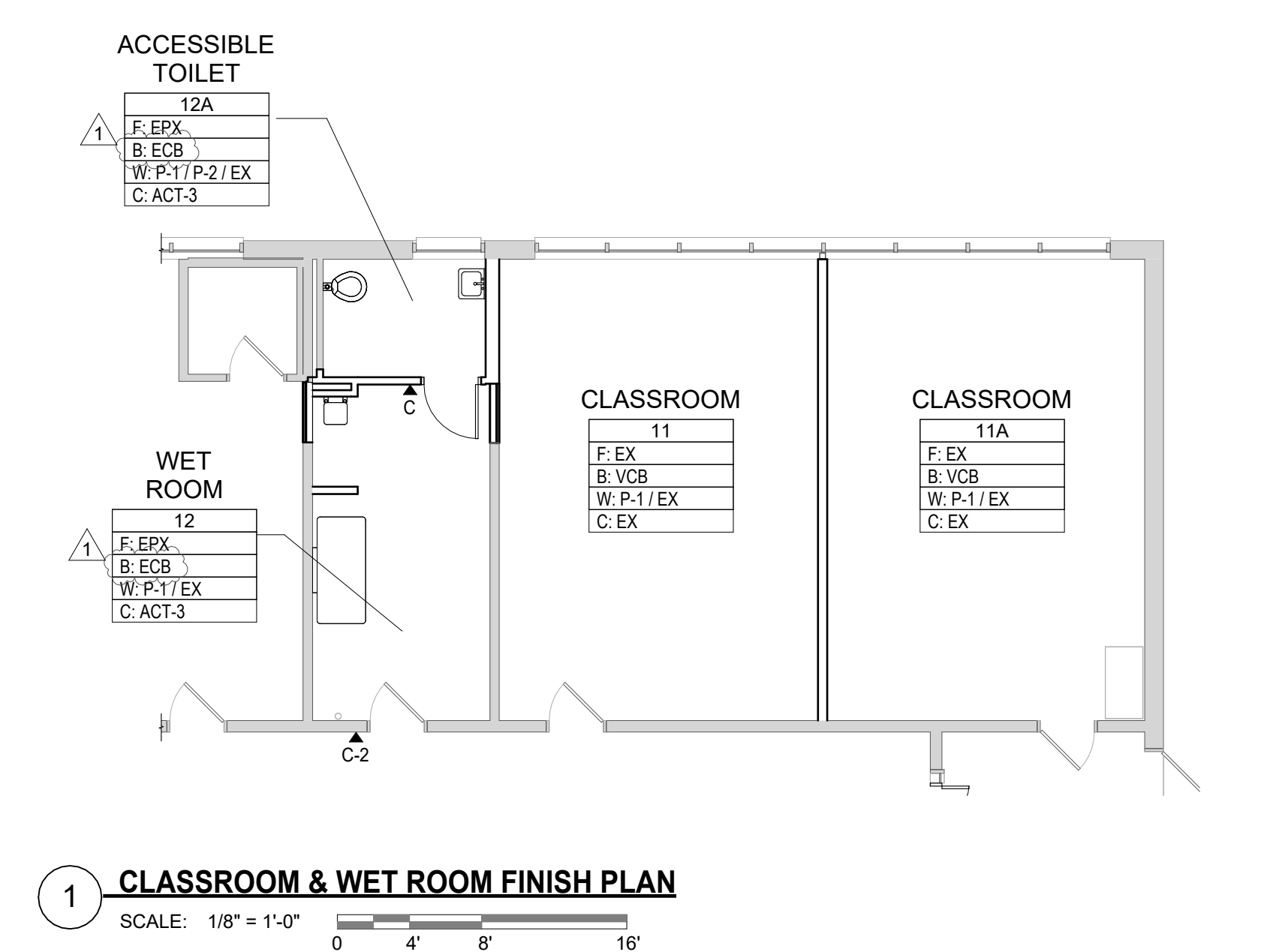
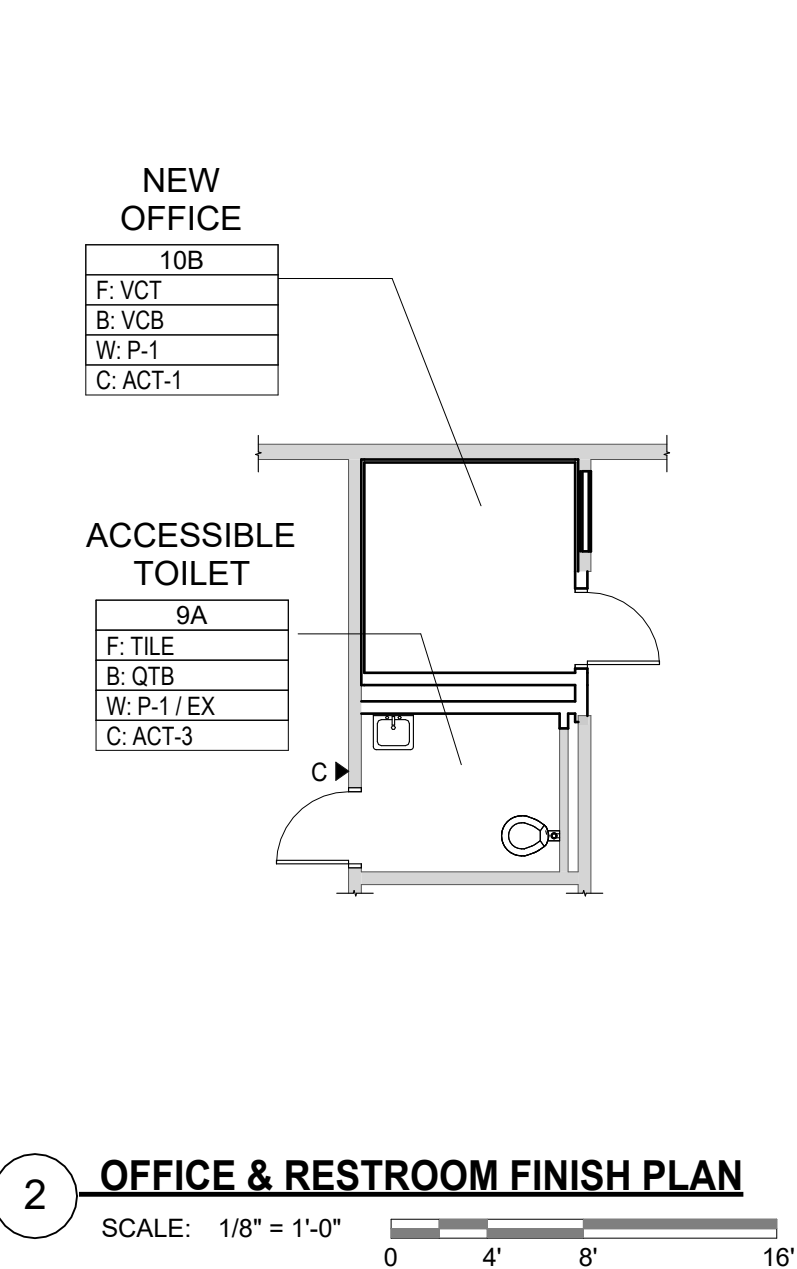
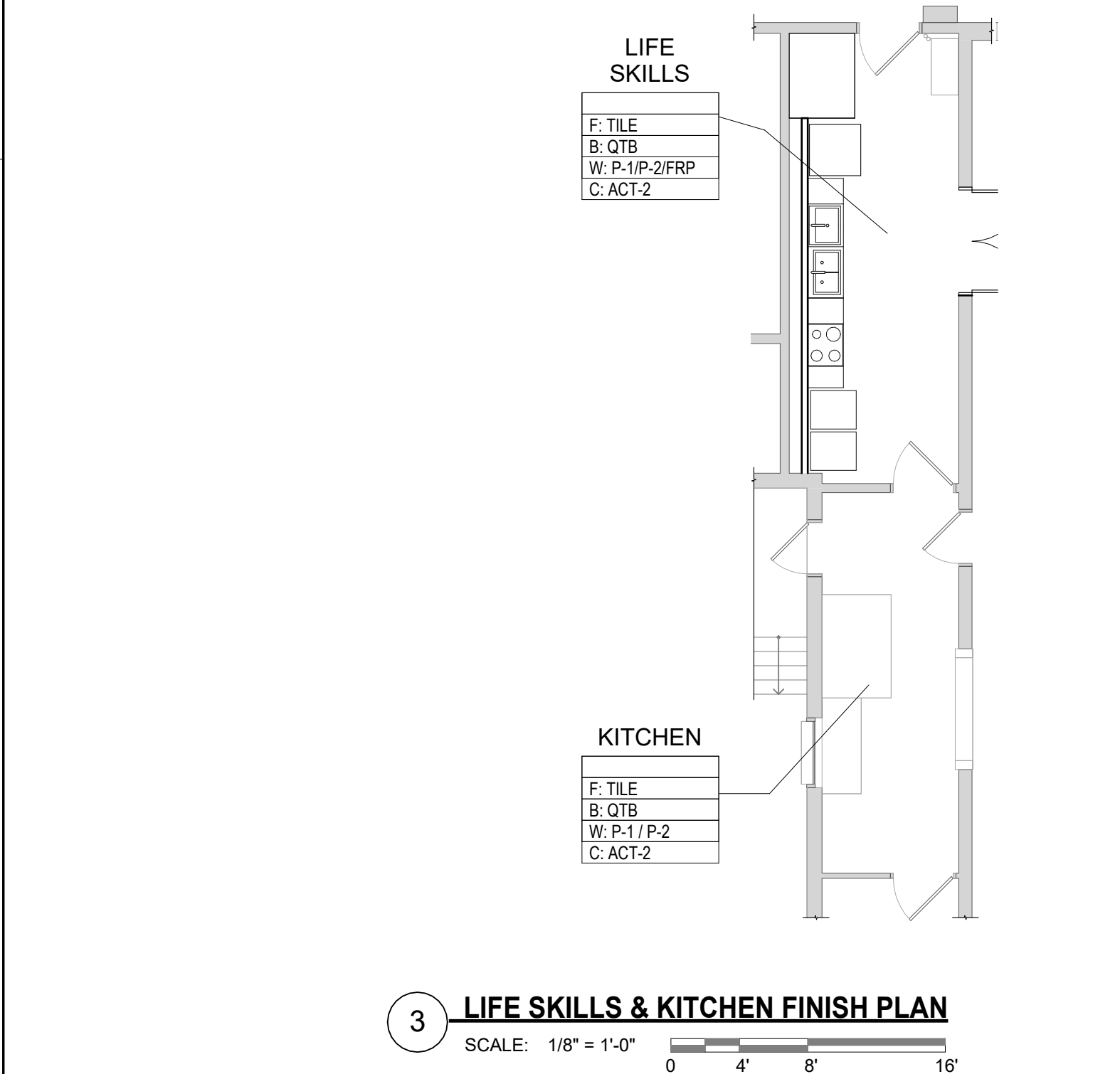
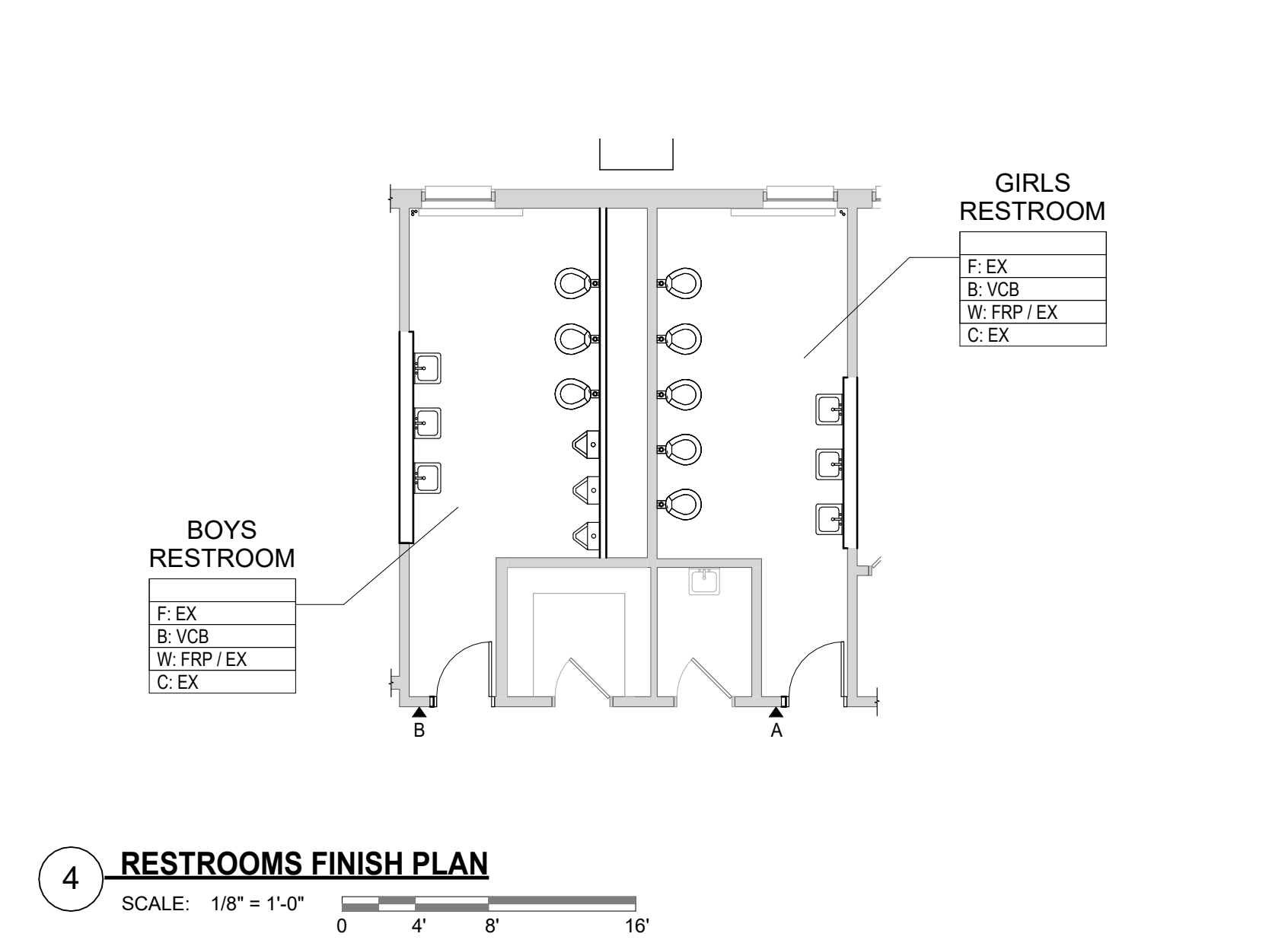
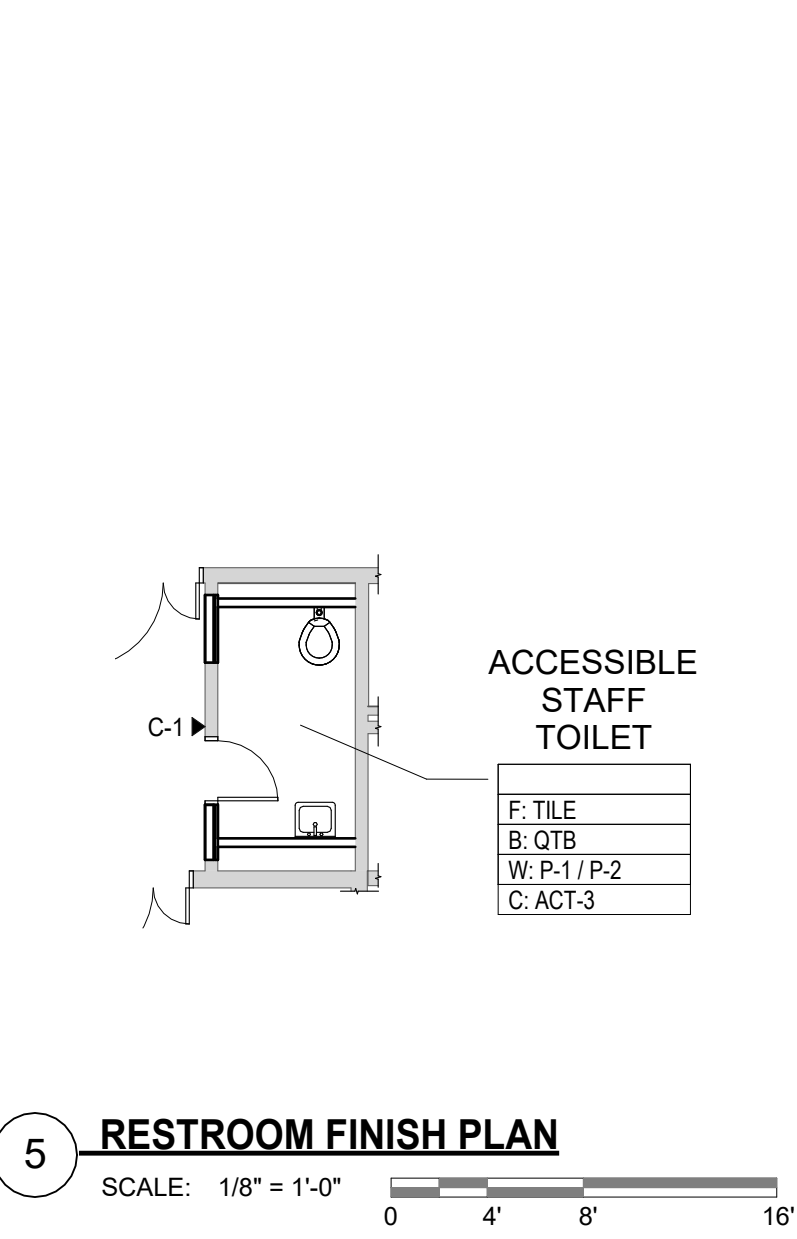
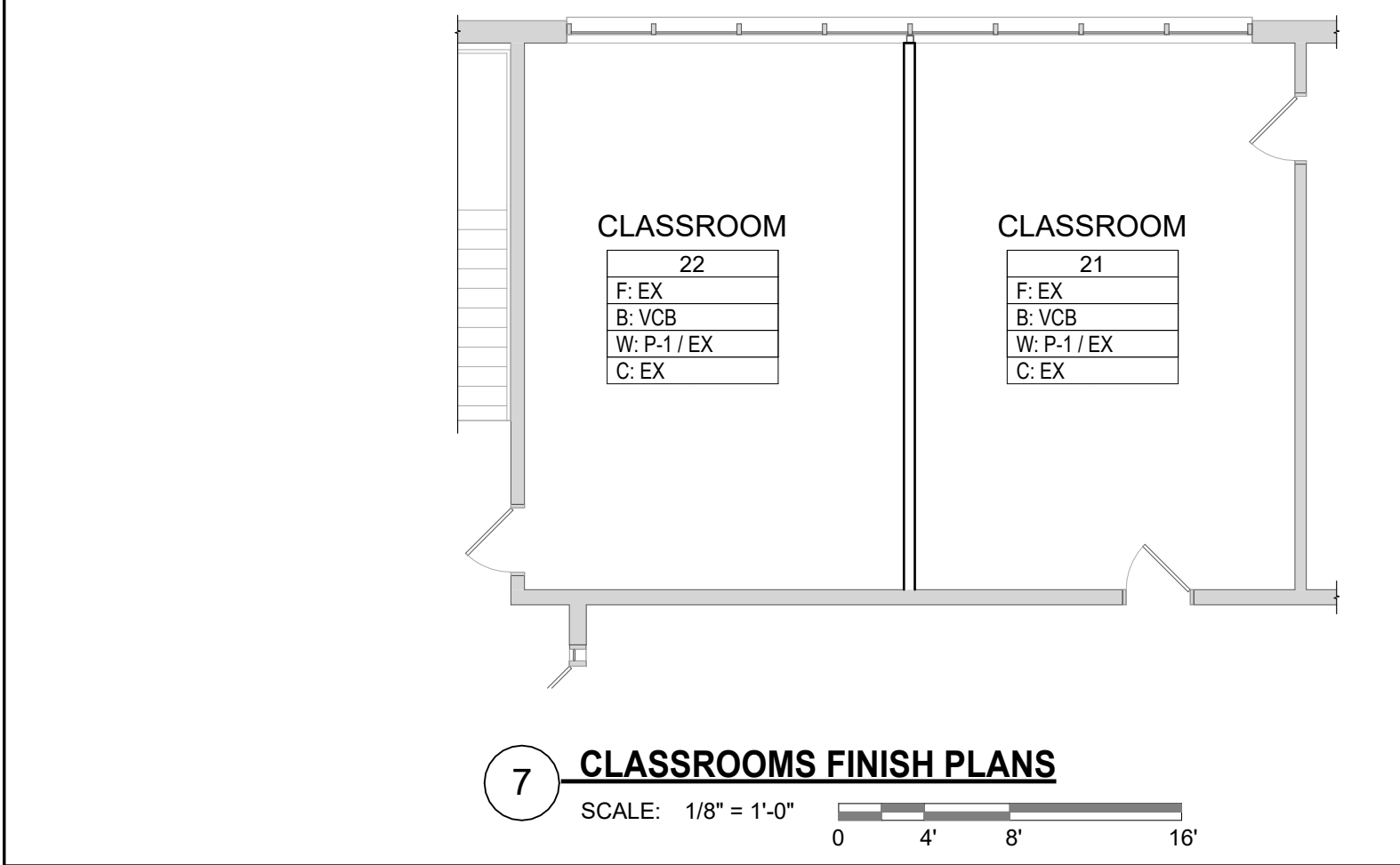
SIGNAGE SCHEDULE		
SIGN NUMBER	SIGN TYPE	TEXT (BY TYPE)
1	A	GIRLS RESTROOM
1	B	BOYS RESTROOM
1	C	ACCESSIBLE UNISEX RESTROOM
1	C-1	ACCESSIBLE STAFF RESTROOM
1	C-2	WET ROOM
1	D	STAFF RESTROOM

SIGNAGE LEGEND	
	# DENOTES SIGN TYPE (REFER TO SIGNAGE SCHEDULE) # DENOTES SIGN LOCATION

ROOM SIGNAGE LEGEND			
A	SYMBOLS		7" x 6" MIN 2 1/4"
	5/8" TEXT (RE:SCHED) BRAILLE NON-GLARE FINISH		
B	SYMBOLS		7" x 6" MIN 2 1/4"
	5/8" TEXT (RE:SCHED) BRAILLE NON-GLARE FINISH		
C	SYMBOLS		7" x 6" MIN 2 1/4"
	5/8" TEXT (RE:SCHED) BRAILLE NON-GLARE FINISH		
D	SYMBOLS		7" x 6" MIN 2 1/4"
	5/8" TEXT (RE:SCHED) BRAILLE NON-GLARE FINISH		

- NOTES:
- LETTERS AND NUMBERS ON SIGNED SHALL BE RAISED, CONTRASTING IN COLOR, AND HAVE A WIDTH-TO-HEIGHT RATION OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATION BETWEEN 1:5 AND 1:10, AND RAISED 1/32" MIN. AND BE ACCOMPANIED BY BRAILLE RAISED LETTERING.
 - SIGNS TO BE MOUNTED ON THE STRIKE SIDE OF THE DOOR, OR ON THE NEAREST ADJACENT WALL IF THERE IS NO WALL SPACE ON THE LATCH SIDE.
 - MOUNTING HEIGHT SHALL BE 60" ABOVE FINISHED FLOOR TO THE CENTERLINE OF SIGN.

LEGEND OF FINISHES		
FLOOR		
TILE	QUARRY TILE	
EPX	EPOXY	
VCT	VINYL COMPOSITION TILE	
EX	EXISTING TO REMAIN	
BASE		
QTB	QUARRY TILE COVE BASE	
VCB	VINYL COVE BASE	
ECB	EPOXY COVE BASE	
EX	EXISTING TO REMAIN	
WALL		
FRP	FIBER REINFORCED PANEL UP TO 8'-0" AFF	
P-1	PAINTED GWB	
P-2	PAINTED MASONRY	
EX	EXISTING TO REMAIN	
CEILING		
ACT-1	ACOUSTIC CEILING TILE - TYPE 1	
ACT-2	ACOUSTIC CEILING TILE - TYPE 2	
ACT-3	ACOUSTIC CEILING TILE - TYPE 3	
GWB	GYPSUM WALL BOARD - PAINTED WHITE	
NC	NO CEILING	
EX	EXISTING TO REMAIN	
NOTE: REFER TO PROJECT SPECIFICATIONS DIVISION 9 FOR ADDITIONAL INFORMATION		



HABEEB & ASSOCIATES
ARCHITECTS

H&A

150 LONGWATER DR
NORWELL, MA 02061
43 HARVARD ST
WORCESTER, MA 01609
781.871.9894
habeebandco.com



ADA RENOVATIONS

NEW CITIZEN'S CENTER

1407A MAIN STREET
WORCESTER, MA 01603

REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION
1	09/25/2026	ADDENDUM 3

PROJECT NO: 2430.05
DATE: 08/19/2026
SCALE: AS NOTED
DRAWN BY: Author
CHECKED BY: Checker

FINISH PLANS & DETAILS

A-710

NAME

10'-0"

LEVEL NAME

HEIGHT ABOVE PROJECT 0'-0"

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

SIM

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

T 101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

EXISTING

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT.

APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:	
BUILDING CODE:	IBC 2021 EDITION 780 CMR 10TH EDITION, MA AMENDMENTS TO IBC 2021
PLUMBING CODE:	248 CMR
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2026 EDITION
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

ELECTRICAL SYMBOL LIST - POWER			
SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
	DS-#	26 28 16	HOME RUN TO PANEL INDICATED. 2#12 + #12G, 3/4"C UNLESS OTHERWISE NOTES. EXTEND SAME CIRCUITING TO ALL OTHER DEVICES ON SAME CIRCUIT.
			DISCONNECT SWITCH. REFER TO DISCONNECT AND STARTER SCHEDULE

ELECTRICAL SYMBOL LIST - RECEPTACLES				
SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
	#	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	#	REC-DUP-GFI	26 27 26	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, 125V
	#	REC-TAMP-GFI	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, GROUND FAULT CIRCUIT INTERRUPTER, 125V
	#	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V

ELECTRICAL SYMBOL LIST - FIRE ALARM			
SYMBOL			DESCRIPTION
	CO		CEILING MOUNTED ADDRESSABLE COMBINATION SMOKE DETECTOR/CARBON MONOXIDE DETECTOR
	#	S	WALL MOUNTED STROBE DEVICE, MOUNTED 80" AFF
	0	F	WALL MOUNTED HORN/STROBE DEVICE, MOUNTED 80" AFF

TAG:	DESCRIPTION:	RELATED SPECIFICATION
ATS-#	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
BAT-#	BATTERY RACK	26 32 13
C-#	GENERAL PURPOSE CONTACTOR	26 28 21
CR-#	CORD REEL	26 27 26
CT-#	CABLE TRAY	26 05 36
CUP-#	CUSTOM UTILITY PEDESTAL	26 27 16
DIM-#	DC DIMMING PANEL	26 09 33
DP-#	DISTRIBUTION PANEL	26 24 16
DR-#	DIMMING RACK	26 09 33
DT-#	GENERATOR DAY TANK	26 32 13
DTR-#	TRANSFORMER - DISTRIBUTION TYPE REFER TO TRANSFORMER SCHEDULE	26 12 19 26 12 13 26 12 16 26 12 21 26 27 29
EVCS-#	ELECTRICAL VEHICLE CHARGING STATION	26 36 00
GCC-#	TEMP. GENERATOR/LOAD BANK CONNECTION CABINET	26 32 13
GCP-#	GENERATOR CONTROL PANEL	26 32 13
GEN-#	GENERATOR	26 32 13
GPS-#	GENERATOR PARALLELING AND DISTRIBUTION SWITCHBOARD	26 24 14 26 13 35
GANN-#	GENERATOR ANNUNCIATOR PANEL	26 32 13
HH-#	HANDHOLE	26 05 33
HT-#	HEAT TAPE	26 05 17
INV-#	LIGHTING INVERTER	26 52 00
M-#	METER DISTRIBUTION CENTER	26 20 00
MC-#	EXTERIOR MOUNTED METERING CABINET	26 20 00
MCC-#	MOTOR CONTROL CENTER, REFER TO MOTOR CONTROL SCHEDULE	26 14 19
MH-#	MANHOLE	26 05 37
MPC-#	PACKAGED POWER CENTER	26 24 23
MTS-#	MANUAL TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
MVSG-#	MEDIUM VOLTAGE SWITCHGEAR	26 13 13 26 13 34
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
PDU-#	POWER DISTRIBUTION UNIT	26 26 00
PS-#	PAD-MOUNT MEDIUM VOLTAGE SWITCH	26 13 15
R-#	RELAY	26 09 39
RA-ATS-#	REMOTE ANNUNCIATOR FOR ATS	26 36 00
RFES-#	REMOTE FUEL FILL STATION	26 32 13
SB-#	SWITCHBOARD	26 24 13
SC-#	SECTIONALIZING CABINET	26 13 14
SG-#	SWITCHGEAR	26 23 00
SMP-#	SNOW MELT CONTROL PANEL	26 05 17
SMS-#	PAVEMENT MOUNTED DEICING CONTROLLER	26 05 17
SPD-#	SURGE PROTECTION DEVICE	26 43 00
UD-#	UNDERFLOOR DUCT - TRENCH DUCT - CELLULAR FLOOR DUCT	26 05 38
UPS-#	UNINTERRUPTIBLE POWER SUPPLY	26 33 53
US-#	UNIT SUBSTATION	26 11 00
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE	26 29 23
WD-#	WALL DUCT	26 05 38

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASR	ARCHITECTURAL SURFACE RACEWAY
BC	BELOW COUNTER
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
ER	EXISTING TO BE REMOVED
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
EOL	END OF LINE
EPO	EMERGENCY POWER OFF
GFR	GROUND FAULT REMOTE
HOA	HAND/OFF/AUTO
ITR	IT RACK MOUNTED RECEPTACLE
NC	NORMALLY CLOSED
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
SM	SURFACE MOUNTED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
- NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
- CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR. CONTRACTOR SHALL NOTIFY THE PRIME CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.

- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES.
- REFER TO CONTRACTORS/ARCHITECTS' INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.

WIRING METHODS:

1. ALL 1ST FLOOR CLASSROOMS, CORRIDORS, BATHROOMS, LIFE SKILLS, AND KITCHEN HAVE 2' X 2' LAY IN TILE (ACT) CEILINGS.

2. ALL CIRCUITING ABOVE ACT CEILINGS MAY BE MC CABLING.

3. NEW RECEPTACLES SHALL BE MOUNTED FLUSH IN STUD WALLS USING OLD WORK BOXES. FISH MC CABLING DOWN STUD WALL TO RECEPTACLES.

4. ALL CIRCUITING IN BASEMENT SHALL BE IN EMT, MIN 3/4"C

5. FIRE ALARM CABLING TO NEW DEVICES SHALL BE FFLP, MC CABLE ROUTED ABOVE ACT CEILINGS AND FISHED DOWN STUD WALLS TO DEVICES. NEW FIRE ALARM CABLING IN BASEMENT SHALL BE FFLP IN EMT.

FIXTURE DISPOSAL:

1. ALL FIXTURES BEING DEMOLISHED HAVE 2, 4' FLUORESCNENT LAMPS CONTAINING MERCURY. DISPOSE OF ALL LAMPS USING AN APPROVED FLUORESCENT LAMP RECYCLER.

2. ALL FIXTURES BEING DEMOLISHED HAVE 1 PCB CONTAINING BALLAST. DISPOSE OF PCB BALLASTS USING A LICENSED HAZARDOUS WASTE TRANSPORTER OR RECYCLER.

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA STANDARDS FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- EMERGENCY, LEGALLY REQUIRED, OPTIONAL STANDBY LIFE SAFETY, CRITICAL, EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO [27 05 03 AND 28 05 03] [DIVISION 7] [26 05 03] FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
- MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
- INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS. ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:

DEVICE # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

"IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H MOUNT ORIENTED HORIZONTALLY
L MOUNT IN CASEWORK
M MOUNT IN MODULAR FURNITURE
R MOUNT IN SURFACE RACEWAY
SM SURFACE MOUNTED
WG WIRE GUARD
+M MOUNT AT # TO CENTERLINE ABOVE FINISHED FLOOR

SHADED DEVICE INDICATES DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
DEVICE

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL COVERSHEET
E100	BASEMENT DEMOLITION PLAN - LIGHTING
E101	FIRST FLOOR DEMOLITION PLAN - LIGHTING
E200	BASEMENT PLAN - LIGHTING
E201	FIRST FLOOR PLAN - LIGHTING
E210	BASEMENT PLAN - POWER
E211	FIRST FLOOR PLAN - POWER
E220	BASEMENT PLAN - SYSTEMS
E221	FIRST FLOOR PLAN - SYSTEMS
E300	ENLARGED BASEMENT ELECTRICAL PLANS
E301	ENLARGED FIRST FLOOR LIGHTING PLANS
E302	ENLARGED FIRST FLOOR POWER PLANS
E303	ENLARGED FIRST FLOOR SYSTEMS PLANS
E600	ELECTRICAL SCHEDULES
GRAND TOTAL: 14	

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REVISIONS		
Δ	MM-DD-YYYY	DESCRIPTION
1	09/25/26	ADDENDUM #3

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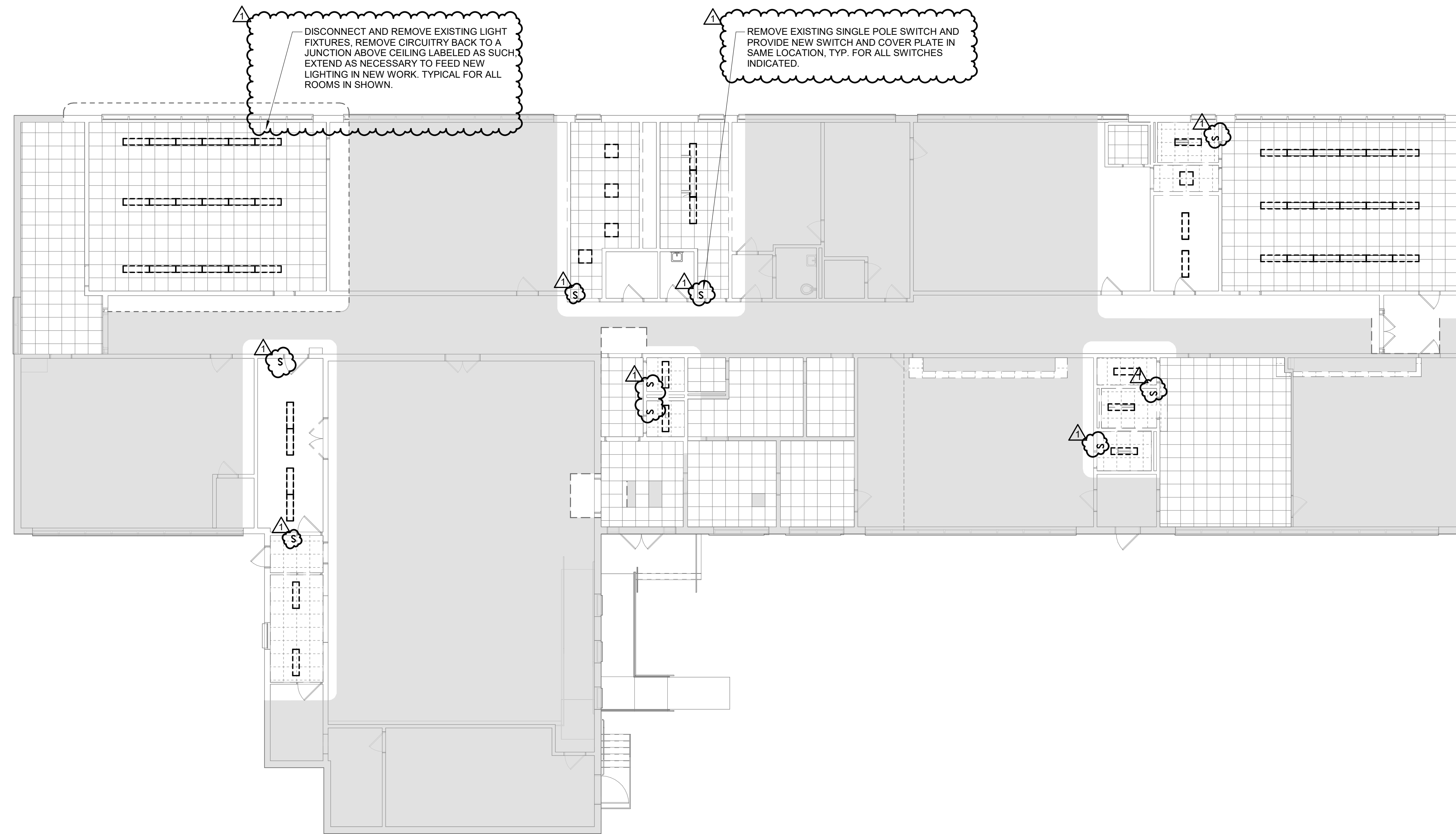
ELECTRICAL
COVERSHEET

E000

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ELECTRICAL DEMO GENERAL NOTES

1. REFER TO DRAWING E000 FOR NOTES, LEGENDS AND ABBREVIATIONS.
2. UNLESS OTHERWISE NOTED ALL ELECTRICAL EQUIPMENT IN THE AREAS TO BE RENOVATED SHALL BE DEMOLISHED TO CLEAR FOR NEW CONSTRUCTION. ELECTRICAL EQUIPMENT SHALL INCLUDE BUT NOT LIMITED TO: DEVICES, CONDUIT, WIRE, DISCONNECTS, PANELBOARDS, SUPPORT RACKS, ALL OPEN AREA LIGHTING, FIRE ALARM DEVICES, SECURITY, AND ALL APPURTENANCES TO THE ABOVE.
3. THE ELECTRICAL CONTRACTOR (E.C.) SHALL REVIEW THE DEMOLITION PLANS OF ALL TRADES FOR ADDITIONAL ELECTRICAL EQUIPMENT TO BE REMOVED THAT IS NOT SHOWN IN THIS DRAWING. THE E.C. SHALL DISCONNECT AND REMOVE ALL ELECTRICAL APPURTENANCES ASSOCIATED WITH THIS EQUIPMENT (ELECTRIC WATER HEATER, HEAT PUMPS AND CABINET HEATER, FREE MECHANICAL AIRCRAFT LIGHTING DEMOLITION DRAWINGS).
4. THE E.C. SHALL TRACE AND FIELD VERIFY ALL CONDUIT AND WIRING RUNS IN THE AREA DESIGNATED TO BE DEMOLISHED AND DETERMINE WHICH CIRCUITS EFFECT AREAS OUTSIDE THE DEMOLITION ZONE. WHERE CIRCUITS INCLUDING BUT NOT LIMITED TO FIRE ALARM, POWER, LIGHTING, ETC. ARE DETERMINED TO FEED OTHER AREAS OF THE BASE BUILDING, THE E.C. SHALL REMOVE THE CONDUIT AND CABLE IN THE DEMOLITION ZONE AND REROUTE A NEW RUN OF CONDUIT AND CABLE TO RE-ESTABLISH THE EXISTING CIRCUIT INTEGRITY. FIRE ALARM CIRCUITS, CONDUIT AND CABLE RUNS SHALL BE RUN THROUGH THE EXISTING BUILDING OUTSIDE THE ENVELOPE OF DEMOLITION AREA WHERE EXISTING CIRCUITS TO REMAIN ARE FED BY A PANEL BEING DEMOLISHED, PROVIDE NEW CONDUIT AND CABLE FROM DEVICE TO NEAREST PANEL OUTSIDE DEMOLITION AREA TO SPARE CIRCUIT BREAKER AND/OR NEW RELOCATED PANEL POSITION.
5. WHERE CONDUIT AND CABLES FEED DEVICES DESIGNATED TO BE REMOVED, AND SERVED BY EXISTING TO REMAIN SWITCHBOARD, PANEL BOARDS, AND MCC'S, THE E.C. SHALL REMOVE ALL CABLE BACK TO THE SWITCHBOARD AND DISCONNECT FROM THE CIRCUIT BREAKER. THE ENCLOSURES SCHEDULES SHALL BE RECONFIGURED INDICATING THE CIRCUIT BREAKERS AS "SPARE".
6. WHERE CONDUIT AND WIRE IS TO BE DEMOLISHED WHICH RUNS BELOW SLAB, THE E.C. SHALL CUT CONDUIT FLUSH TO FLOOR AND PATCH THE FLOOR.
7. BEFORE REMOVING ELECTRICAL EQUIPMENT, CONDUIT, OR CABLEING WHICH MAY EFFECT OTHER AREAS OF THE BUILDING, THE E.C. SHALL COORDINATE THE OVER AND TRANSITION PERIODS WITH THE OWNER.
8. THE E.C. SHALL PROVIDE ALL SCAFFOLDING, LADDERS, RIGGING, HOISTING, ETC., FOR THIS WORK. KEEP PREMISES FREE FROM RUBBISH AND REMOVE ALL ELECTRICAL RUBBISH FROM SITE.
9. THE E.C. SHALL SUPPORT ALL EXISTING SMOKE DETECTORS SERVING BOTH AREAS IN AND OUT OF CONTRACT AREA TO MAINTAIN COVERAGE IN THE SPACE.
10. ANY FUNCTIONAL EQUIPMENT TO REMOVED BY DEMOLITION SHALL BE REVIEWED WITH OWNER TO DETERMINE IF IT SHOULD BE SAVED AND STORED. OWNER SHALL BE RESPONSIBLE FOR HANDLING OF EQUIPMENT TO OFF-SITE STORAGE LOCATION.
11. DISCONNECT AND REMOVE ALL ABANDONED LOW VOLTAGE EQUIPMENT IN THEIR ENTIRETY, IN SCOPE OF WORK AREAS.
12. CONTRACTOR SHALL DISCONNECT AND PULL BACK EXISTING LIGHTING BRANCH CIRCUIT CONDUCTORS TO NEARLY FUNCTION BOX COATED ABOVE THE CEILING. CONDUCTORS SHALL BE NEATLY TERMINATED, IDENTIFIED, AND LABELED FOR REUSE IN NEW WORK. PROVIDE ALL REQUIRED JUNCTION BOXES, COVERS, SUPPORTS, AND CIRCUIT IDENTIFICATION. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING LOADS INTENDED TO REMAIN.

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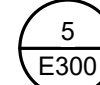
**FIRST FLOOR
DEMOLITION PLAN -
LIGHTING**

E101

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BASEMENT PLAN - POWER

$$3/32'' = 1'-0''$$


1. REFER TO DRAWING E000 FOR NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL, FURNITURE PLANS, DETAILS AND ELEVATIONS FOR EXACT MOUNTING LOCATIONS AND HEIGHTS FOR ALL DEVICES SHOWN.
3. 120V, 20 AMP BRANCHED CIRCUIT BREAKERS THAT EXCEEDS 100 FEET SHALL BE (2#10w/1)1#10C.
4. REFER TO OTHER TRADES' PLANS FOR MORE INFO, ASSOCIATED ACCESSORIES, AND ELECTRICAL CHARACTERISTICS AND REQUIREMENTS ON HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT INDICATED ON PLANS.
5. FOLLOWING DEMOLITION, CONTRACTOR SHALL PROVIDE DETAILED SURVEY INFORMATION IN ORDER TO IDENTIFY & BRANCH CIRCUIT FEEDING DEVICES LOCATED OUT OF WORK SPACE AND AVAILABLE SPARE CIRCUIT BREAKERS TO BE UTILIZED FOR NEW WORK TO BE PERFORMED. UTILIZE EXISTING AVAILABLE CIRCUITS IN PANELS SERVING THIS SPACE FOR NEW BRANCH CIRCUITS TO BE ADDED.

1. REPLACE EXISTING 400A, 120/208V, 3PH, 4W PANEL WITH NEW 400A, 120/208V, 3PH, 4 W PANEL IN PLACE. DISCONNECT EXISTING FEEDER AND BRANCH CONDUITS, CUT BACK CONDUITS AS NECESSARY AND REMOVE PANEL, RECONNECT CONDUITS AND CABLE TO NEW PANEL AND DETERMINATE EXISTING CONDUCTORS.
2. NEW SIMPLEX NOTIFICATION APPLIANCE CABINET (NAC) PANEL. EQUAL TO SIMPLEX 4001 CABINET. CABINET SHALL HAVE 4, 2 AMP APPLIANCE CIRCUITS, INTEGRAL BATTERY BACKUP AND POWERED ON 120V. CONNECT ALL NEW NOTIFICATION DEVICES TO NEW NAC CABINET TIE IN NAC CABINET INTO SLC CIRCUIT OF NEW FACP. PROVIDE 120V, 20A POWER CONSISTING OF 2#12 + #12G, 3/4" TO PANEL EPP. PROVIDE 20A/1P CIRCUIT BREAKER WITH LOCKING PROVISION IN PANEL.
3. REMOVE EXISTING SIMPLEX 4006 PANEL AND PROVIDE NEW HYBRID ADDRESSABLE/ZONED PANEL TO RECONNECT EXISTING ZONES AND NOTIFICATION APPLIANCES AND NEW SLC CIRCUIT FOR COMBINATION SMOKE/CARBON MONOXIDE DETECTORS. CONNECT TO EXISTING 120V CIRCUIT. NEW HYBRID PANEL SHALL BE EQUAL TO SIMPLEX 4007ES AND 4008ES. 2 ADDRESSABLE SIGNALING LINE CIRCUIT (SLC) PANEL SHALL HAVE INTEGRAL BATTERY BACKUP. PROVIDE THE SERVICES OF SIMPLEX TIE-IN, PROGRAM AND TEST NEW SYSTEM. SUBMIT FIRE ALARM SHOP DRAWINGS FOR REVIEW.
4. EXISTING PANEL PNL-1.
5. EXISTING PANEL EPP. SEE E-600 FOR PANEL SCHEDULE.

1. REMOVE EXISTING 25KW NATURAL GAS GENERATOR LOCATED INSIDE BASEMENT AND PROVIDE A NEW 25KW/31.25KVA, 120/208V, 3 PHASE, 4 WIRE GENERATOR EQUAL TO REHLKG25 WITH THE FOLLOWING FEATURES:
 - a. 2.2 LITER, 1800 RPM, 4 CYCLE TURBOCHARGED AND AFTERCOOLED ENGINE. WATER COOLED, RADIATOR.
 - b. CONTROLLER WITH DIGITAL DISPLAY, MAIN MENU, NFPA 110 LEVEL 1
 - c. 110 AMP, 3 POLE MAIN CIRCUIT BREAKER.
- SUBMIT GENERATOR SHOP DRAWINGS FOR REVIEW.
2. GENERATOR IS MOUNTED INSIDE AN INTERIOR ROOM AND SHALL NOT REQUIRE AN EXTERIOR ENCLOSURE.
3. DISCONNECT EXISTING MAIN FEEDER AND GENERATOR START CONDUCTORS, CUT BACK CONDUITS, CONDUCTORS, EXHAUST PIPING, AND NATURAL GAS PIPING AS NECESSARY TO INSTALL NEW GENERATOR. PROVIDE JUNCTION BOXES AT FEEDERS, BATTERY CHARGER CIRCUIT AND GENERATOR START SIGNALS. INTERCEPT EXISTING FEEDER AND EXTEND #2* + #8G, 2" FC FROM JUNCTION BOX TO TRANSFER SWITCH (ATS). REMOVE GENERATOR START CIRCUITS BACK TO AUTOMATIC TRANSFER SWITCH (ATS) WITHIN ROOM. PROVIDE 3/4" FC FROM JUNCTION BOX TO GENERATOR, AND EXTEND #4/4 FROM ATS TO GENERATOR. INTERCEPT BATTERY CHARGER CIRCUIT AND EXTEND 2#12 + #12G, 3/4" TO BATTERY CHARGER.

[illegible]

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**BASEMENT PLAN -
POWER**

E210

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B

A

$$1/4" = 1'-0"$$

$1/4" = 1'-0"$

$$1/4^m = 1'-0$$

$$\frac{1}{4}'' = 1'-0''$$

1/4" = 1'-0"

$$1/4'' = 1'-0''$$

A	MM DD YYYY	DESCRIPTION
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ENLARGED

E300

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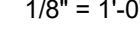
A


$$\frac{1}{8}'' = 1'-0$$

$$1/8'' = 1'-0''$$


1/8" = 1'-0"

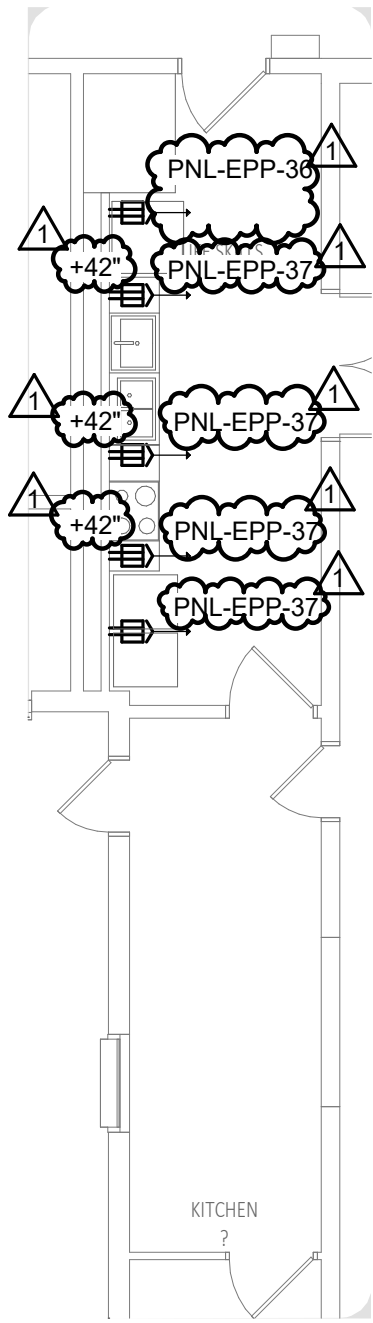
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$$1/8'' = 1'-0''$$

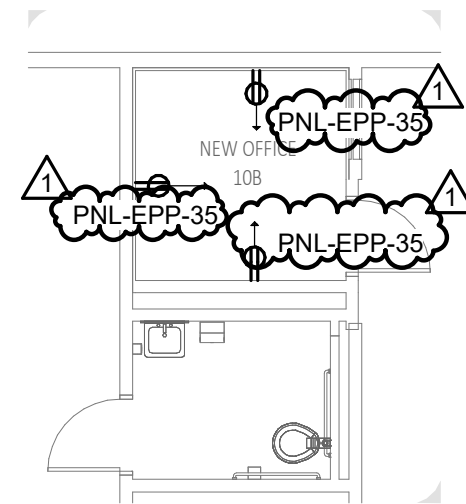
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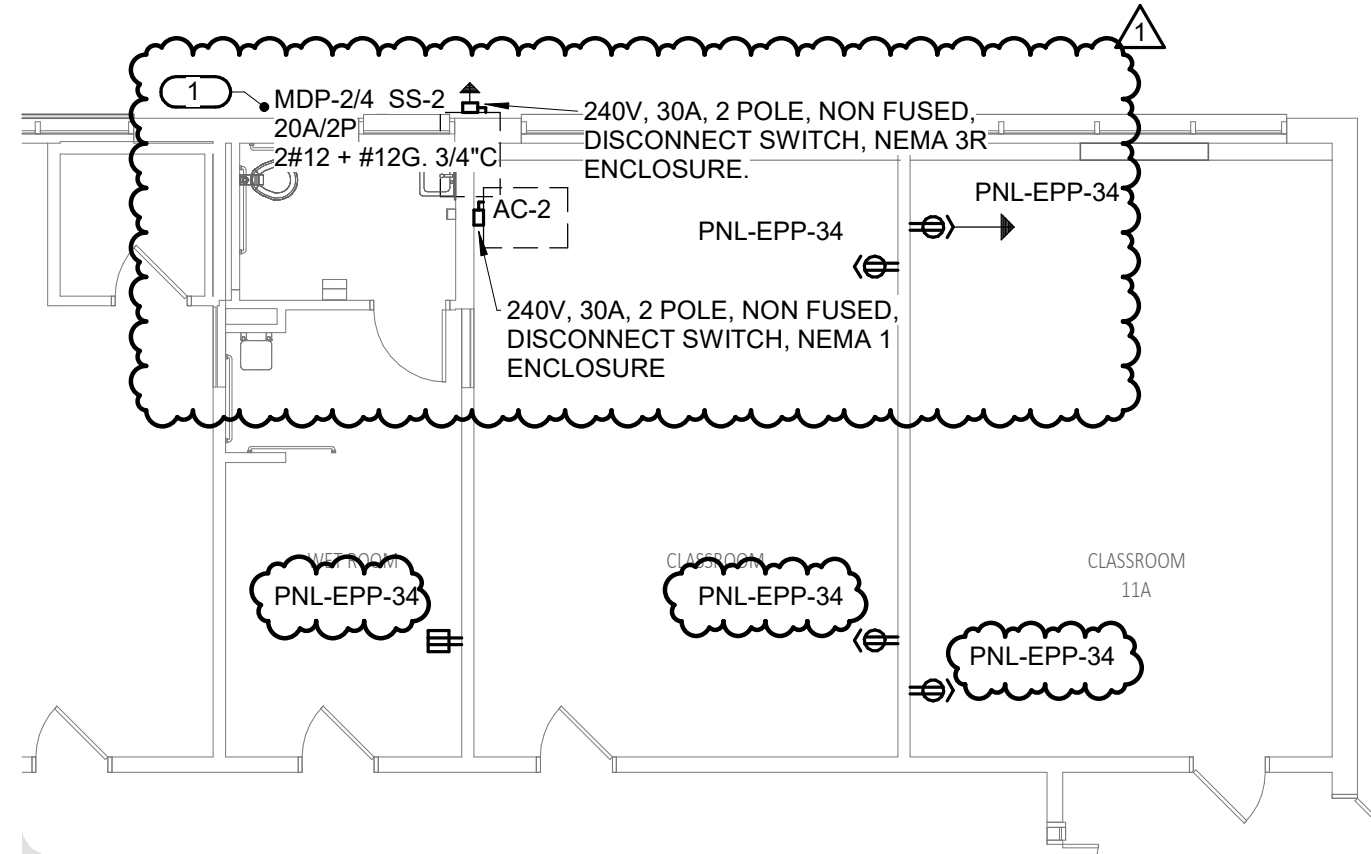
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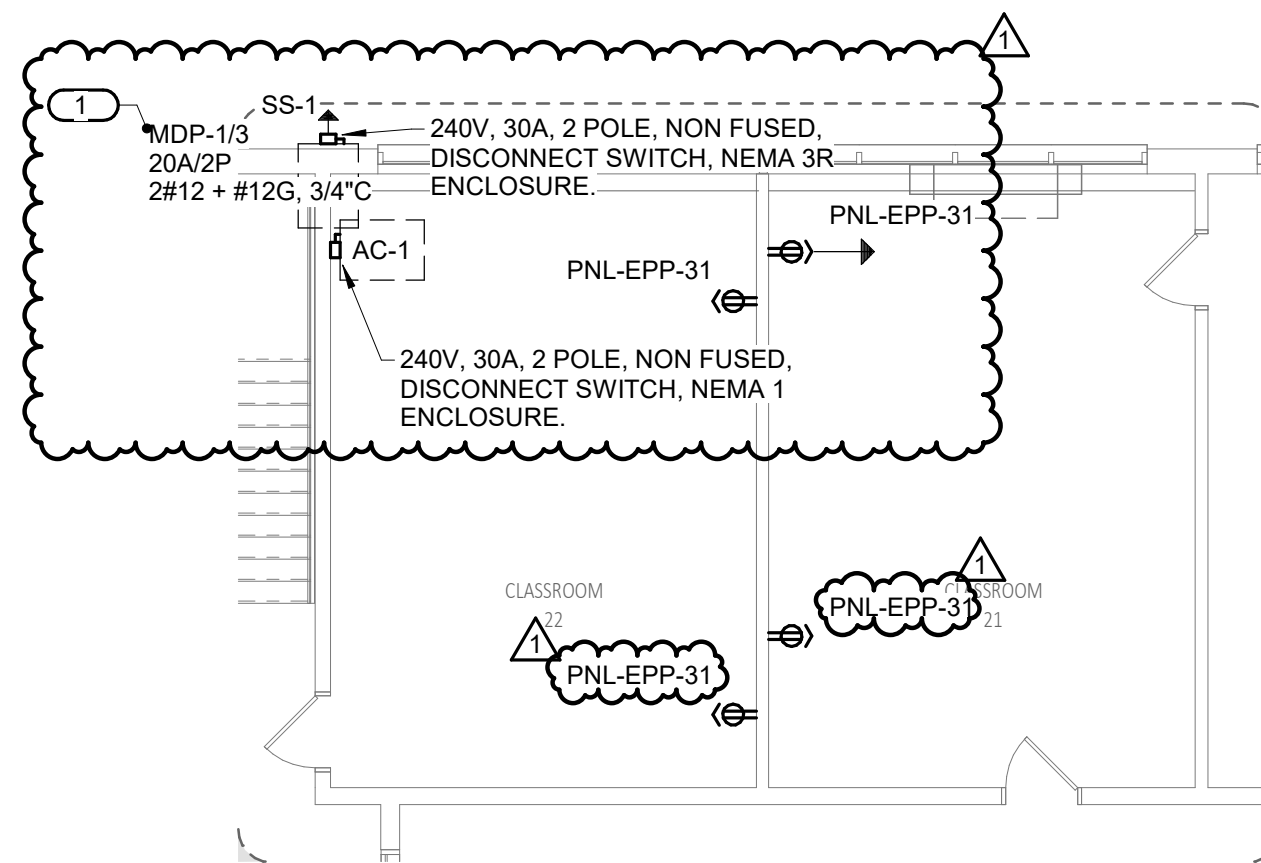
1 POWER PLAN - LIFE SKILLS



3 POWER PLAN - STORAGE ROOM



2 POWER PLAN - CLASSROOM 11



4 POWER PLAN - CLASSROOM 21

KEYNOTES

- 1 EXTEND 2#12 + #12G, 1" C FROM OUTSIDE UNIT TO INSIDE AC. EXTEND 4#14 IN SAME 1" C BETWEEN OUTSIDE UNIT AND INSIDE AC FOR CONTROL.

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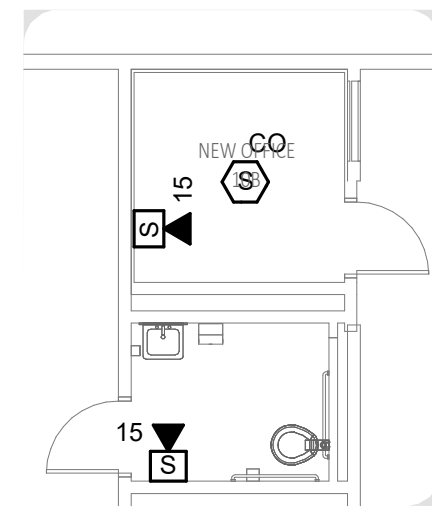
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ENLARGED FIRST FLOOR POWER PLANS

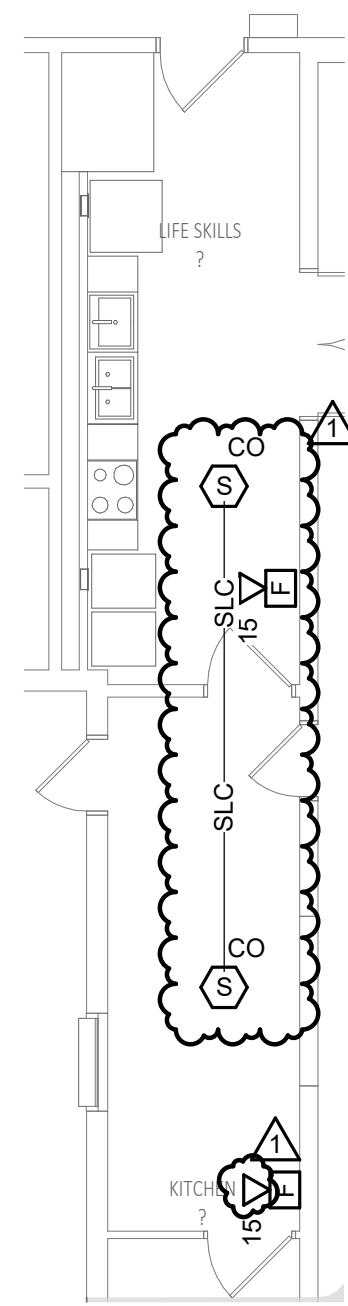
E302

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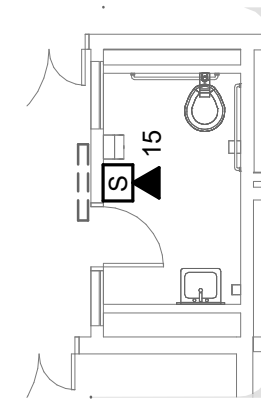
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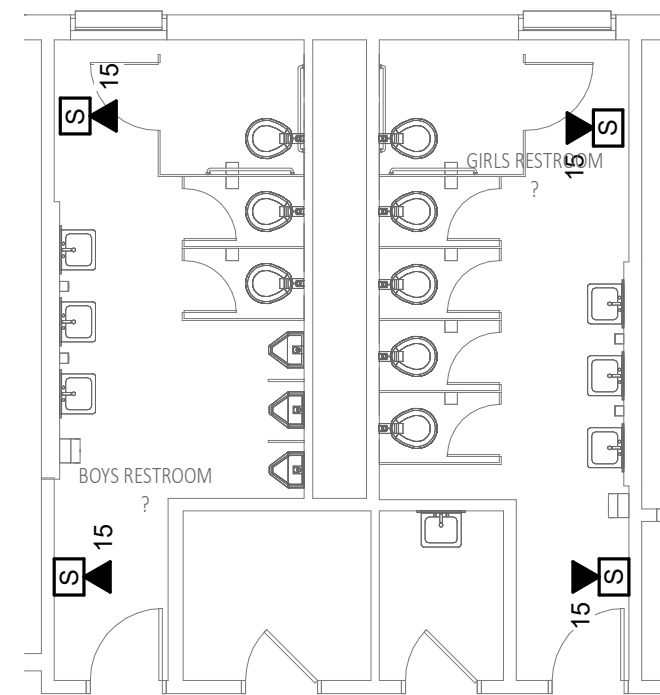
4 OFFICE & RESTROOM ENLARGED PLAN



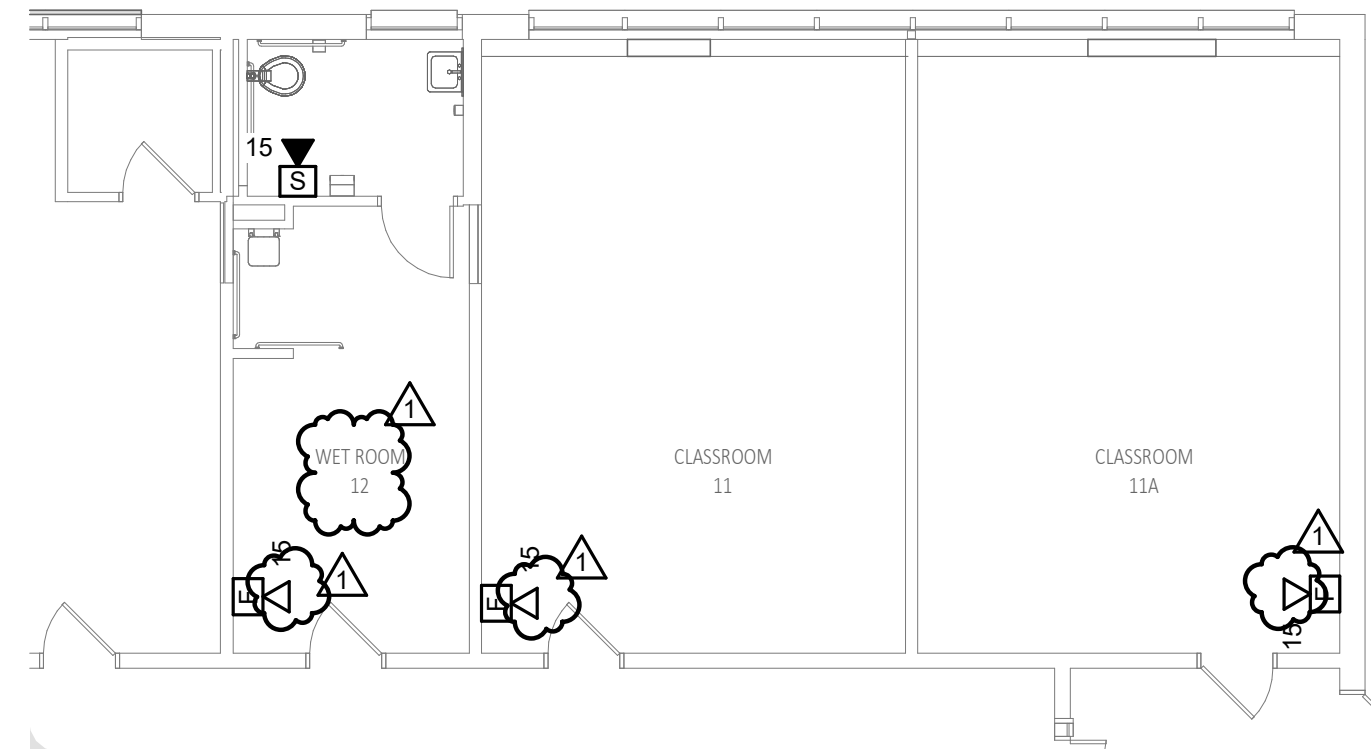
1 FIRST FLOOR LIBRARY & KITCHEN ENLARGED PLAN
1/8" = 1'-0"



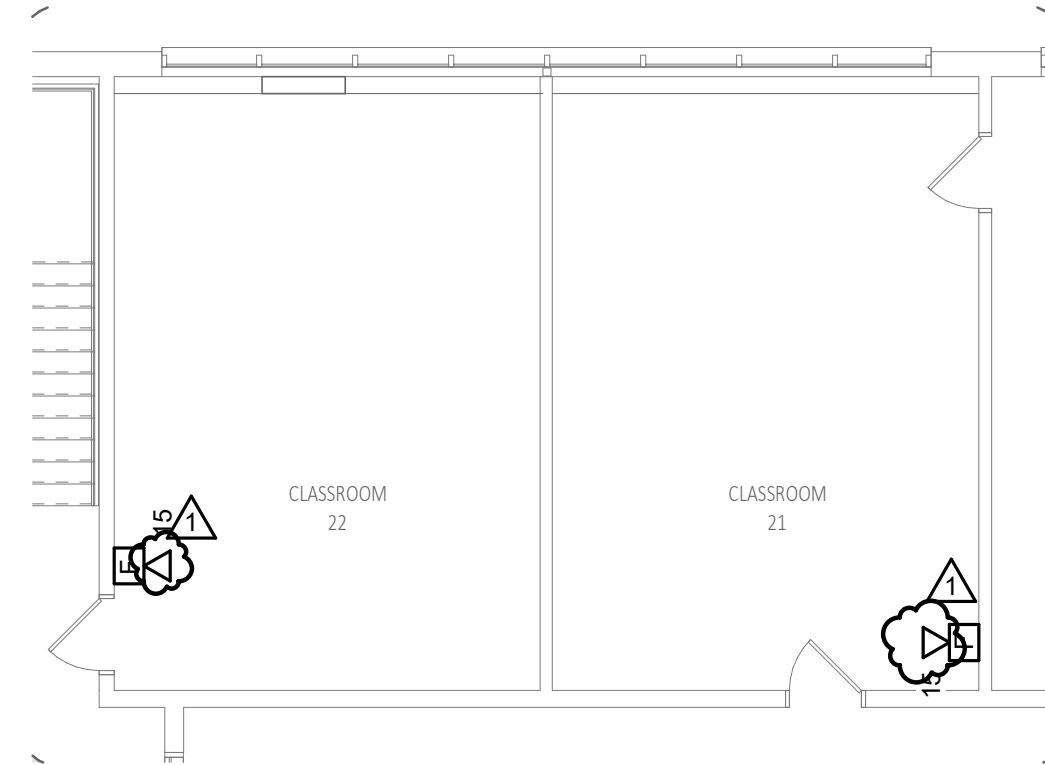
5 FIRST FLOOR RESTROOM ENLARGED PLAN
1/8" = 1'-0"



2 RESTROOMS ENLARGED PLAN



6 CLASSROOM & WET ROOM ENLARGED PLAN
1/8" = 1'-0"



3 FIRST FLOOR CLASSROOM 21 ENLARGED PLAN
1/8" = 1'-0"

[illegible]

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ENLARGED FIRST FLOOR SYSTEMS PLANS

E303

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4

MOUNTING: SURFACE
ENCLOSURE: NEMA 1
FED FROM: 20/3P @
LOCATION:

PANEL MDP

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 400 MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 KA

NOTES:

SERVICE ENTRANCE RATED

K E Y	CKT NO.	LOAD DESCRIPTION	OCBP AMPS	P	WIRE SIZE			VD %	A	B	C	VD %	G	H	OCBP AMPS	LOAD DESCRIPTION	CKT NO.	K E Y													
--	1	EXISTING LOAD	150	3	--	--	--		0	0			--	--	2	20	SS-1	2	--												
	3										0							0													
	5																		0	0											
--	7	EXISTING LOAD	100	3	--	--	--		0	0			--	--	2	20	SPARE	4	--												
	9																		0	0											
	11																				0	0									
--	13	EXISTING LOAD	100	3	--	--	--		0	0			--	--	1	20	SPARE	6	--												
	15																				0	0									
	17																						0	--							
--	19	EXISTING LOAD	125	3	--	--	--		0	--			--	--	1	--	SPACE	8	--												
	21																				0	--									
	23																						0	--							
--	25	EXISTING LOAD	125	3	--	--	--		0	--			--	--	1	--	SPACE	10	--												
	27																						0	--							
	29																								0	--					
--	31	SPACE	--	1	--	--	--	--	--	--		--	--	--	1	--	SPACE	12	--												
--	33	SPACE	--	1	--	--	--	--	--	--		--	--	1	--	SPACE	14	--													
--	35	SPACE	--	1	--	--	--	--	--	--		--	--	1	--	SPACE	16	--													
--	37	SPACE	--	1	--	--	--	--	--	--		--	--	1	--	SPACE	18	--													
--	39	SPACE	--	1	--	--	--	--	--	--		--	--	1	--	SPACE	20	--													
--	41	SPACE	--	1	--	--	--	--	--	--		--	--	1	--	SPACE	22	--													
			Total Load:		0.00 KVA		0.00 KVA		0.00 KVA																						
			Total Amps:		0.00		0.00		0.00																						

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
				TOTAL CONNECTED LOAD:	0.00 KVA
				TOTAL ESTIMATED DEMAND LOAD:	0 KVA
				TOTAL CONNECTED AMPS:	0.00 A
				TOTAL ESTIMATED DEMAND AMPS:	0

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

[illegible]

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DATE: 08/26/2026
SCALE: AS NOTED
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ELECTRICAL SCHEDULES

E600

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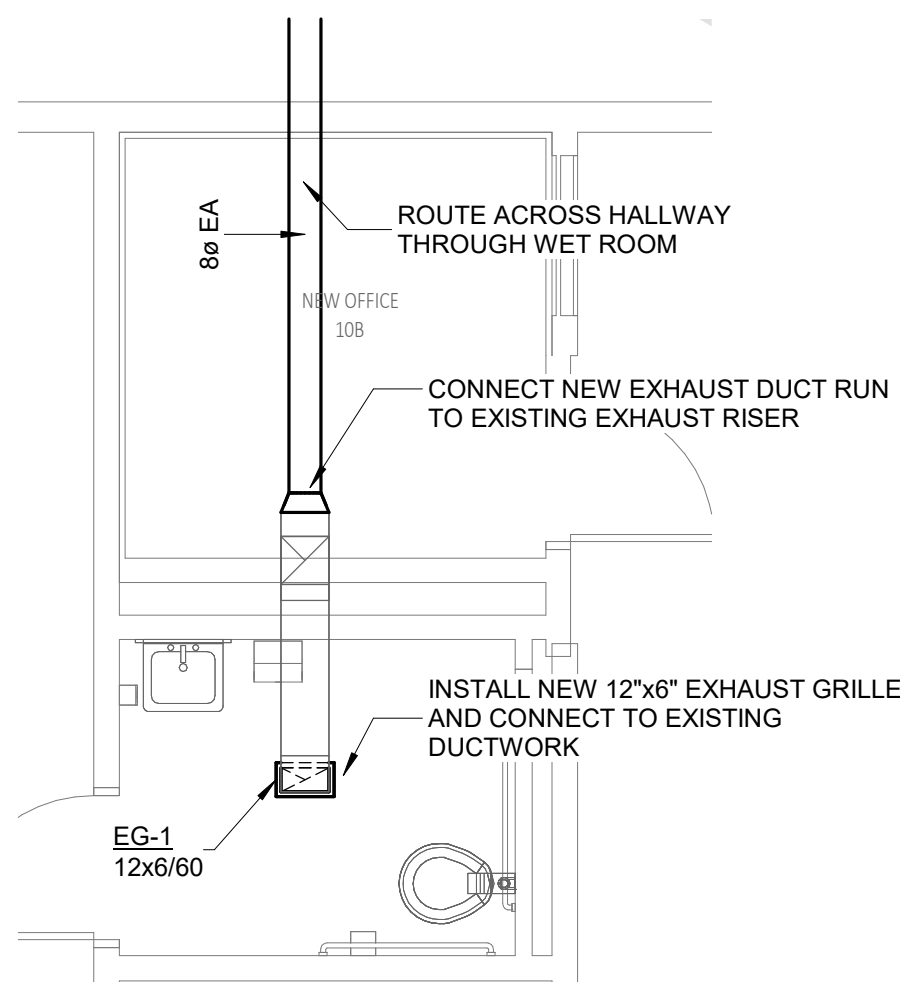
**1407A MAIN STREET
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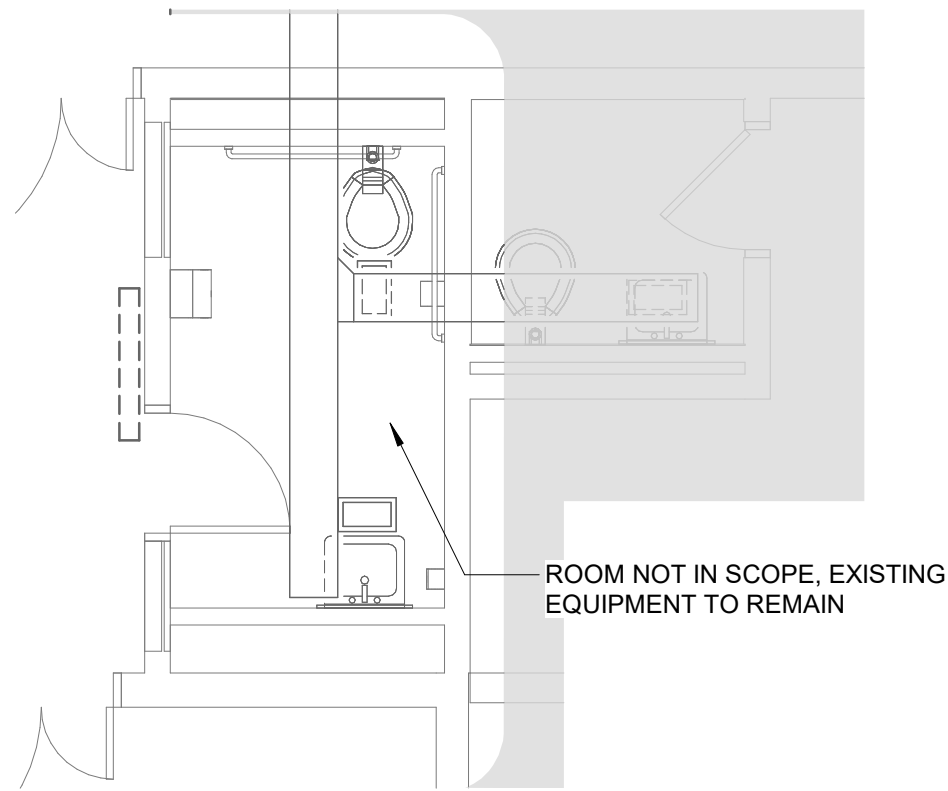
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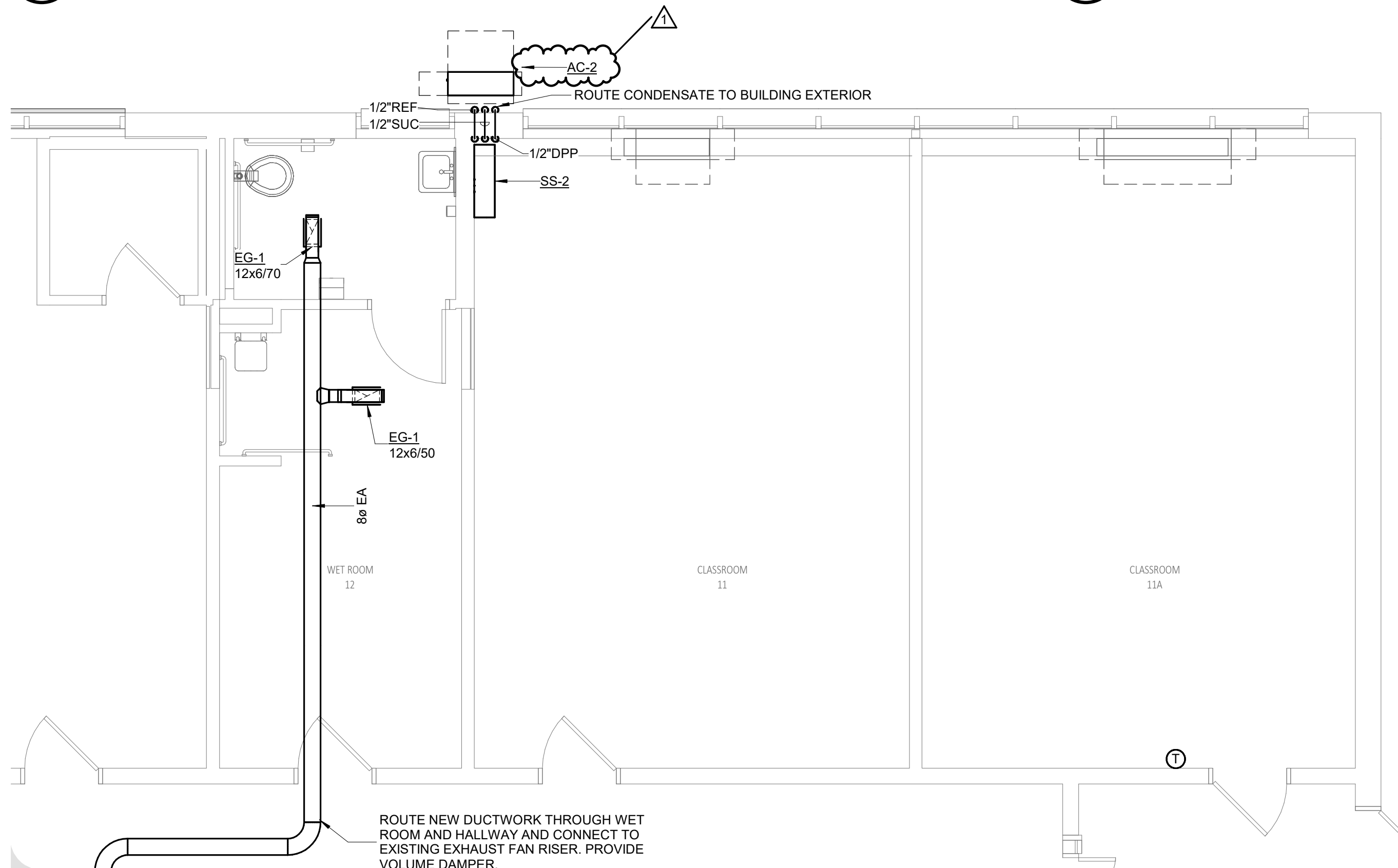
1 FIRST FLOOR RAMP ENLARGED PLAN
1/4" = 1'-0"



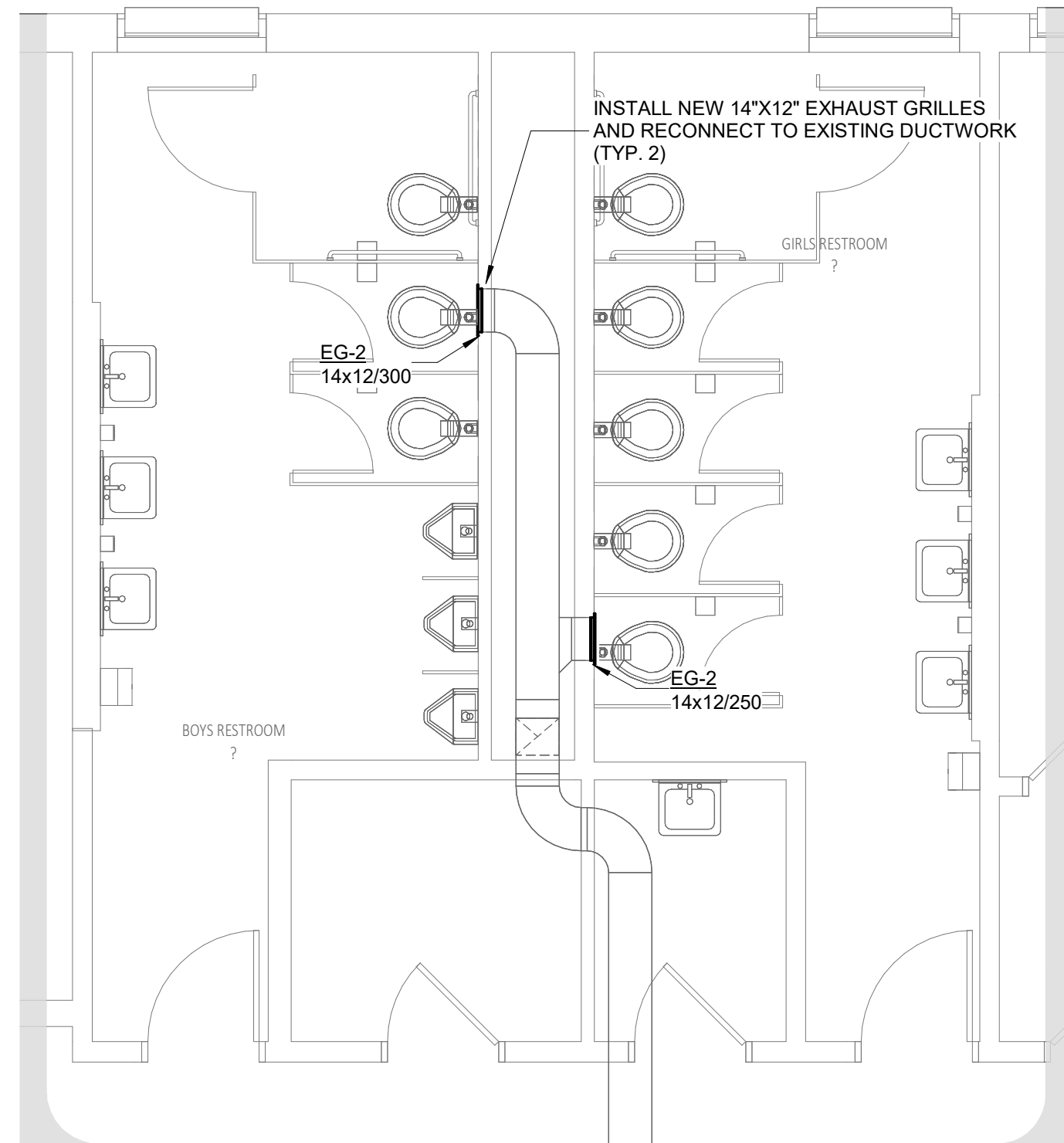
4 OFFICE & RESTROOM ENLARGED PLAN



2 FIRST FLOOR RESTROOM ENLARGED PLAN
1/4" = 1'-0"



5 CLASSROOM & WET ROOM ENLARGED PLAN
1/4" = 1'-0"



3 RESTROOMS ENLARGED PLAN

[illegible]

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HVAC ENLARGED FIRST FLOOR PLANS PLANS

M303

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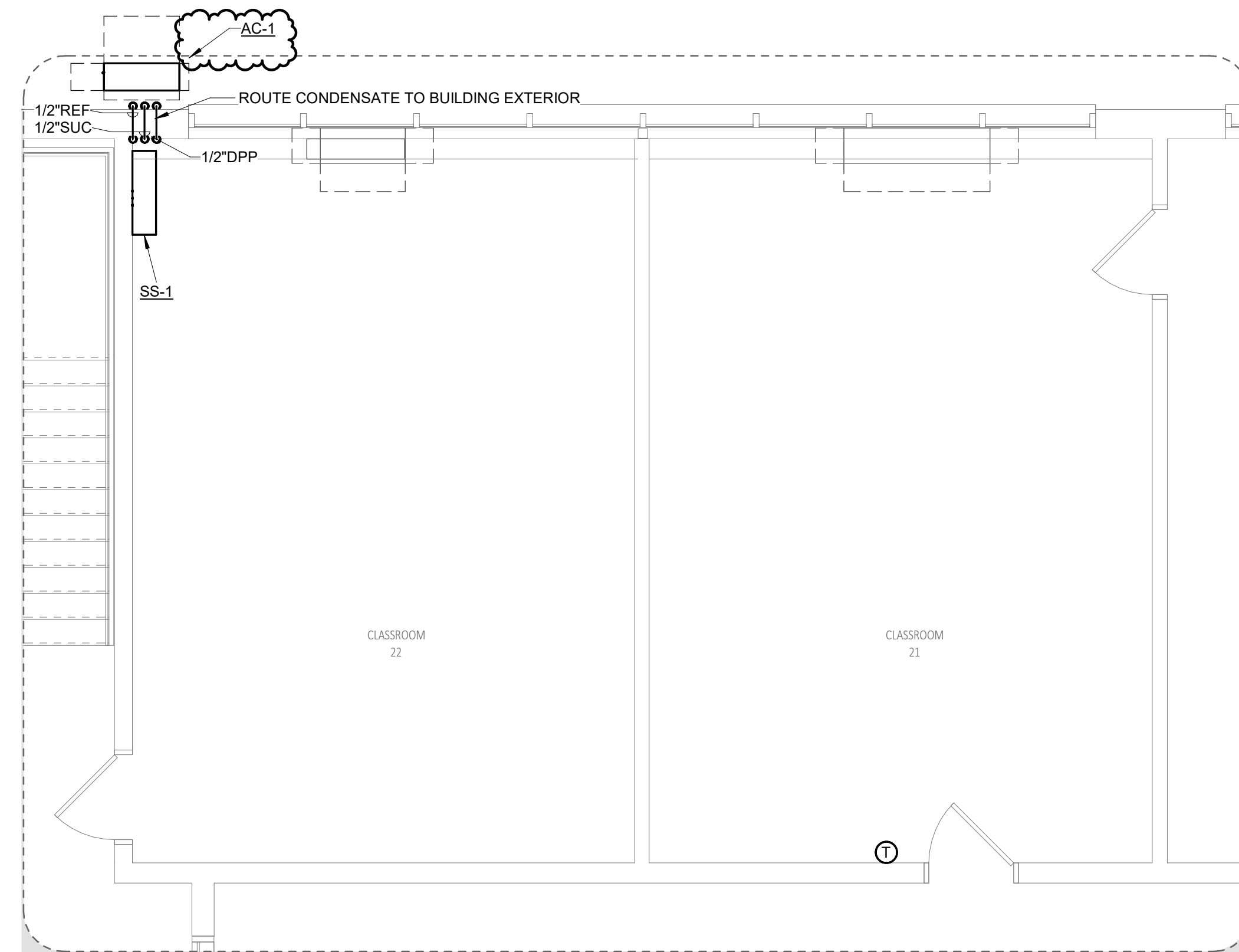
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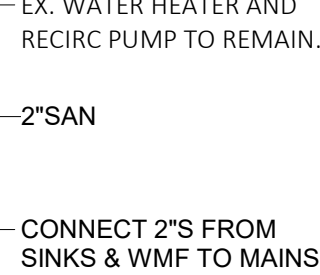
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2 FIRST FLOOR CLASSROOM 21 ENLARGED PLAN
1/4" = 1'-0"

M304

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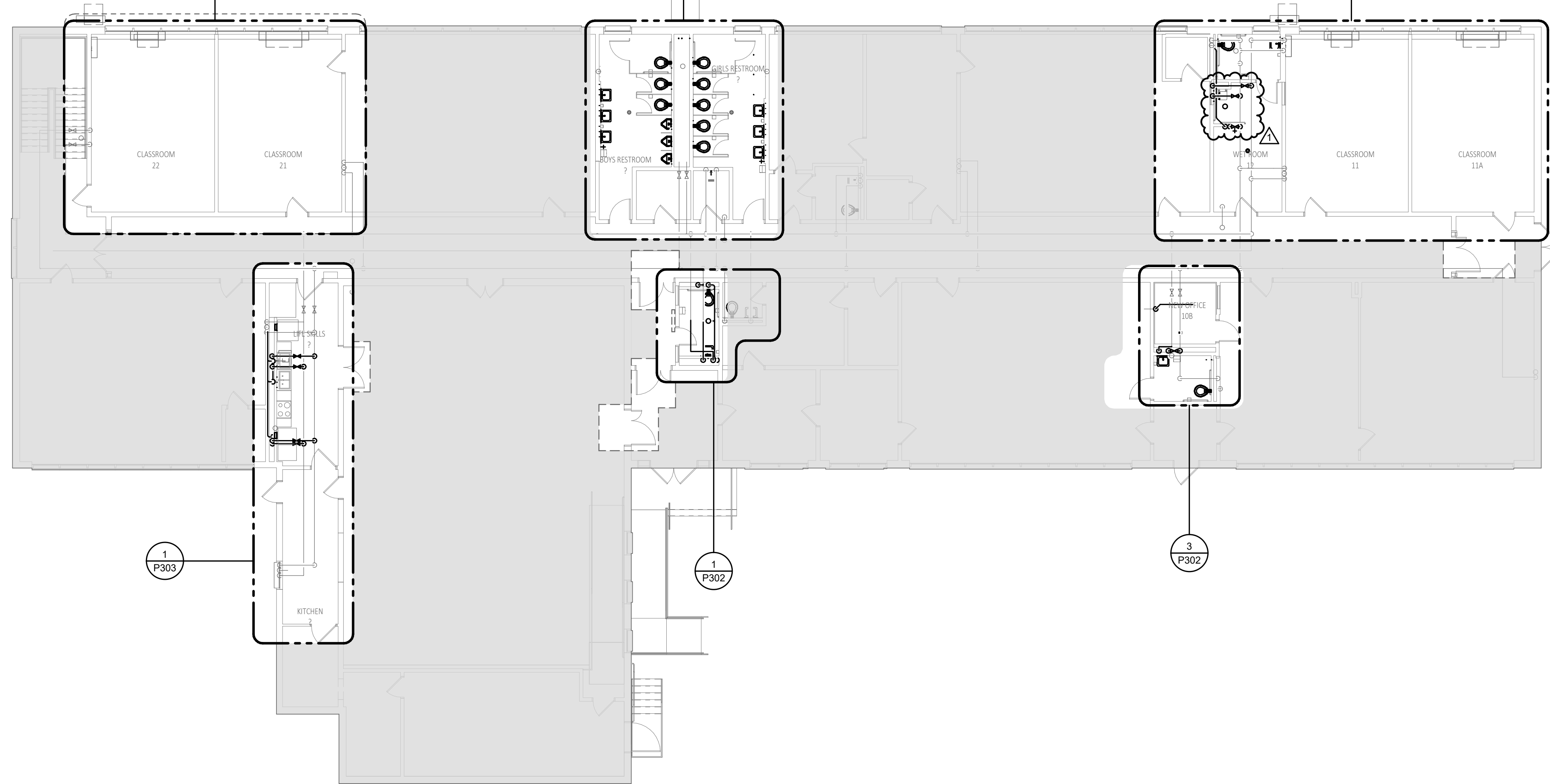
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A

B

1

[illegible]

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**FIRST FLOOR PLAN -
PLUMBING**

P201

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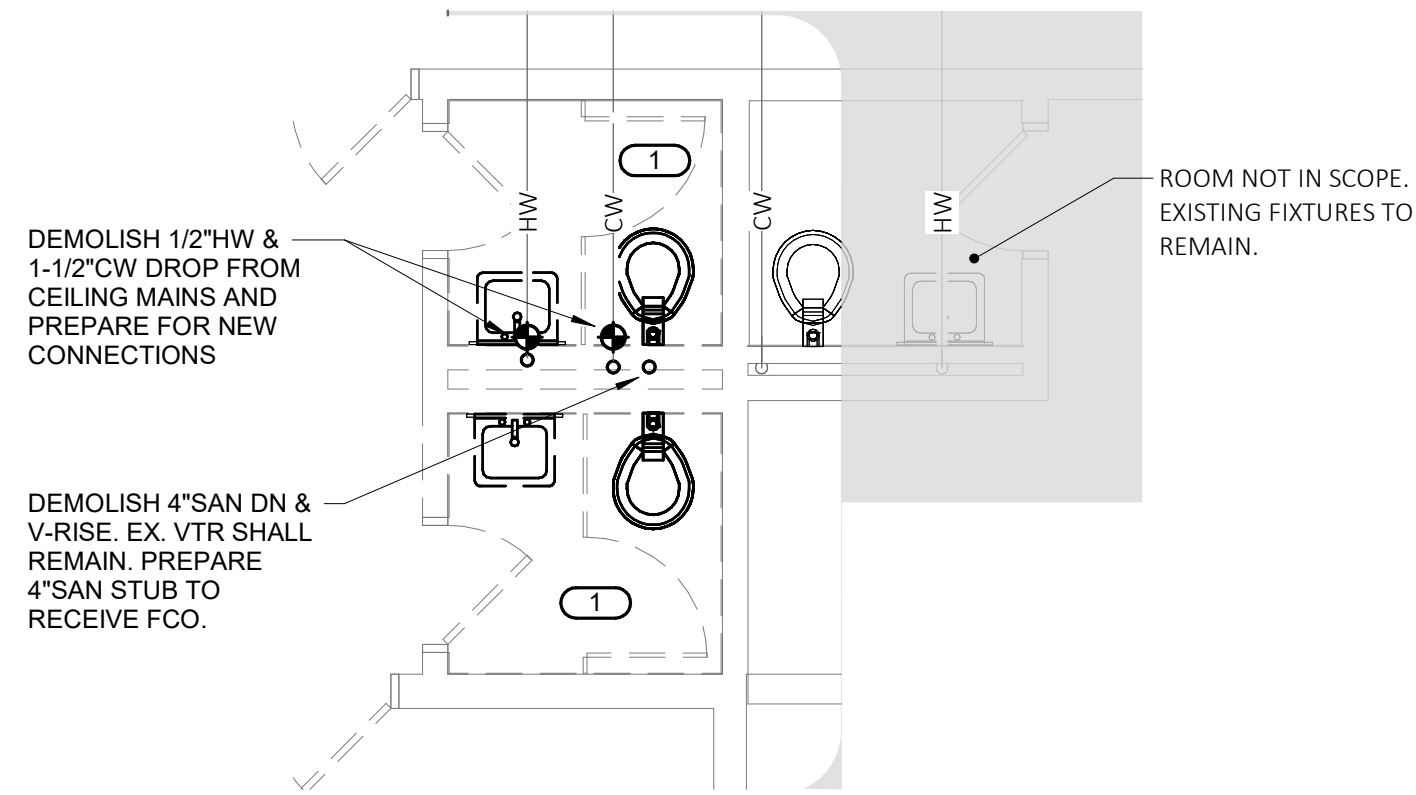
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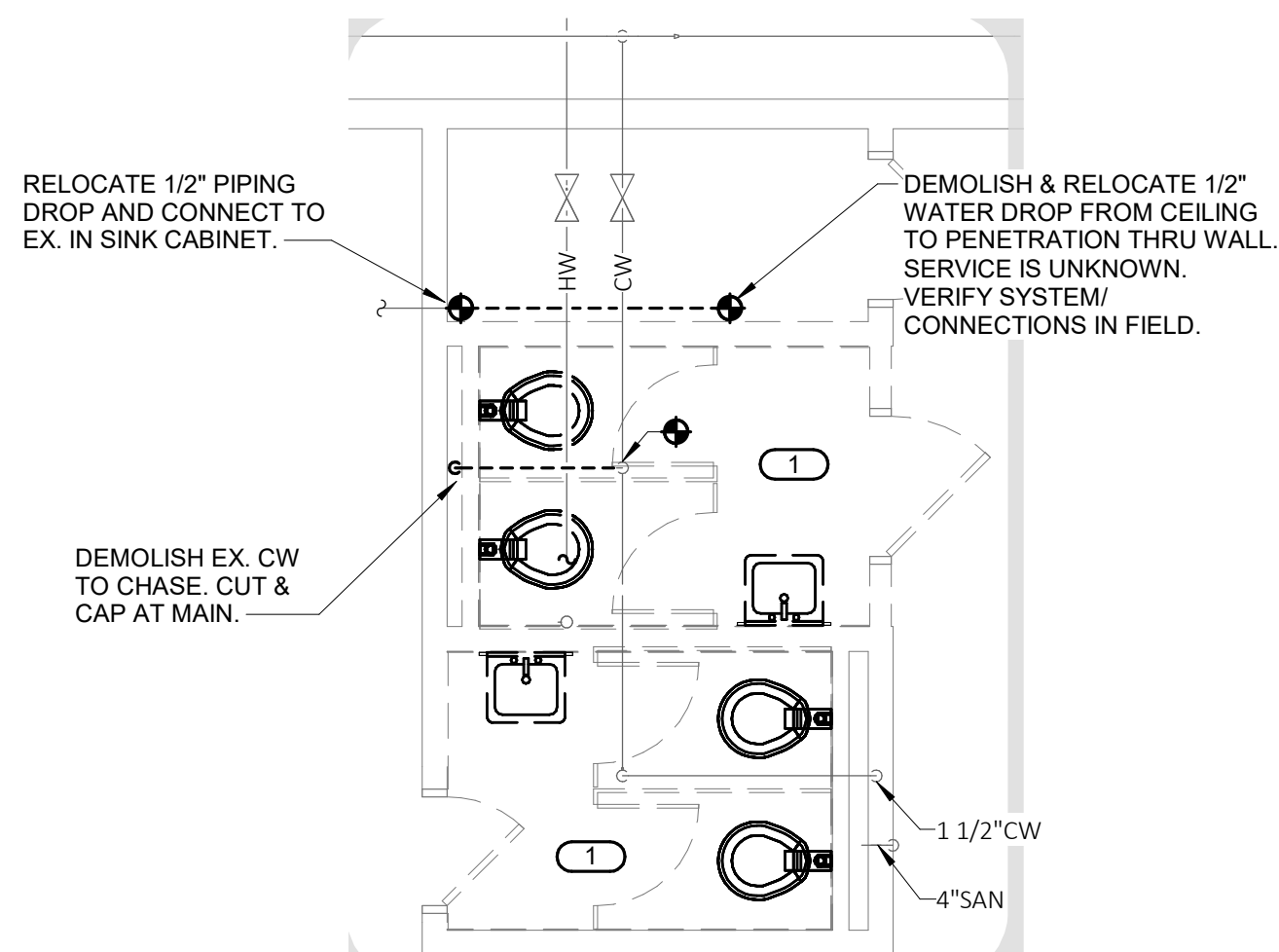
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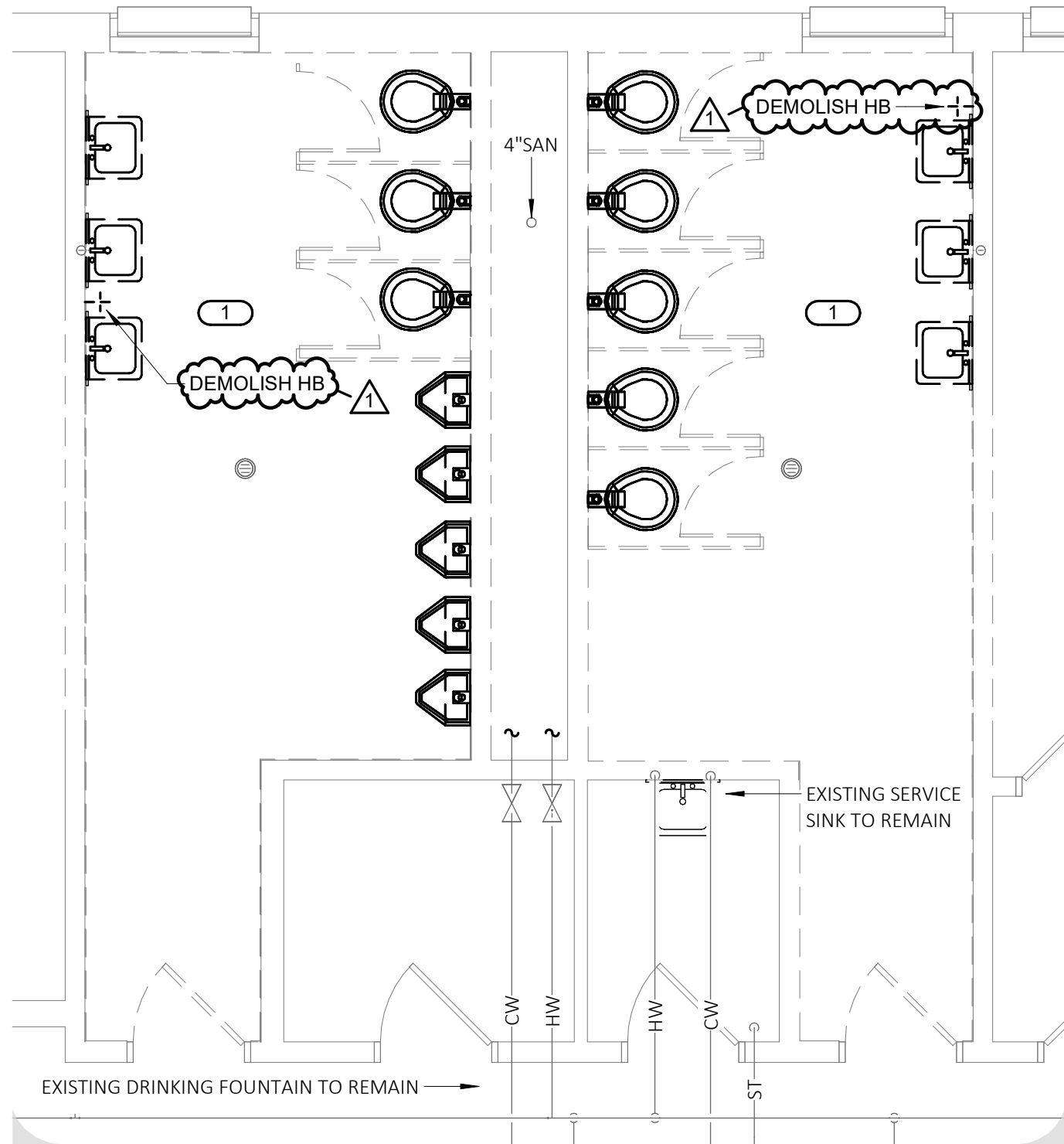
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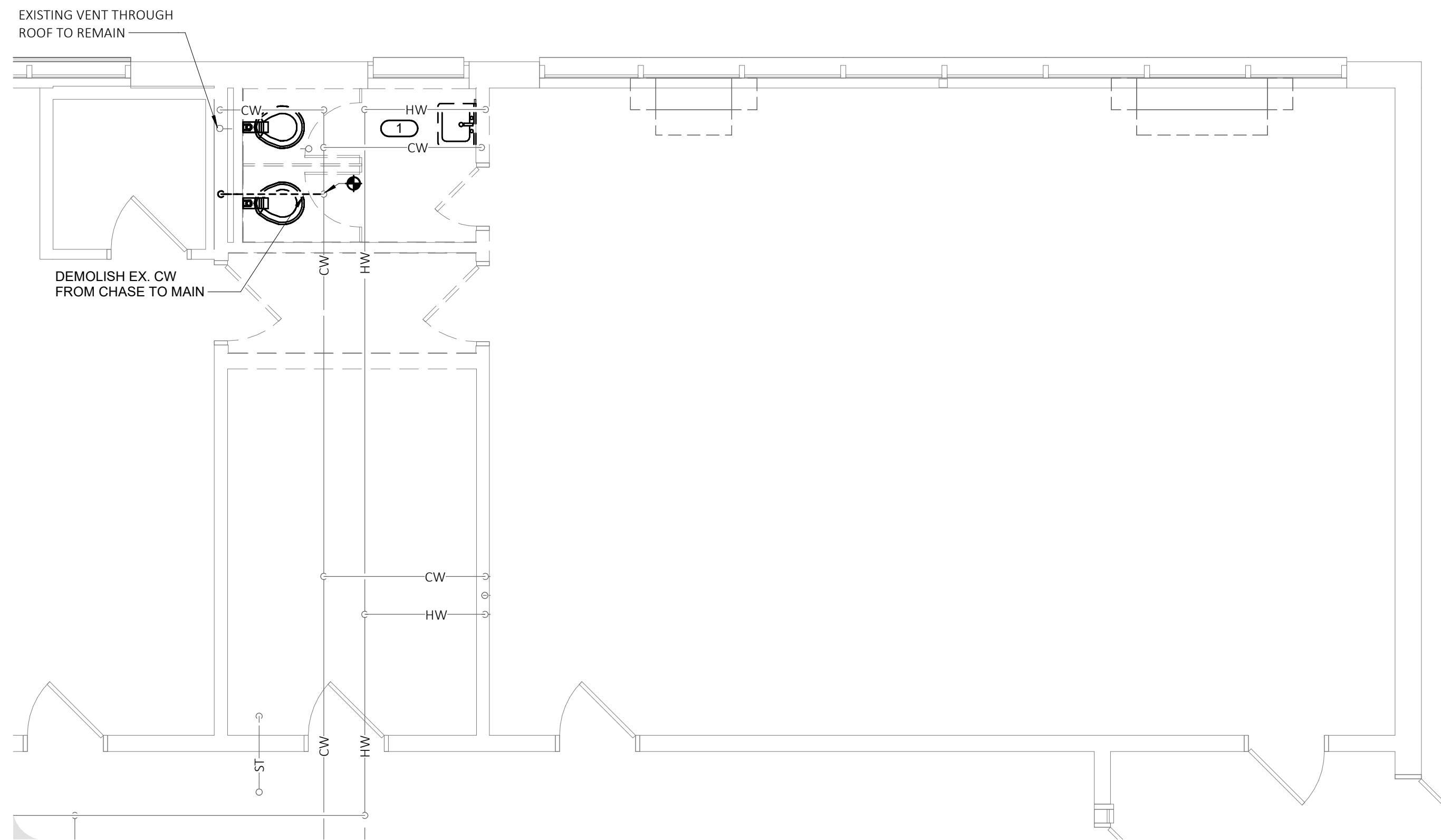
1 FIRST FLOOR RESTROOM ENLARGED DEMO PLAN
1/4" = 1'-0"



3 OFFICE & RESTROOM ENLARGED DEMO PLAN



2 RESTROOMS ENLARGED DEMO PLAN



4 CLASSROOM & WET ROOM ENLARGED DEMO PLAN - PLUMBING

KEYNOTES

- | | |
|---|--|
| 1 | DEMOLISH ALL PLUMBING FIXTURES INCLUDING CARRIERS IN ROOM. CAP WATER AND WASTE WITHIN CHASE. EX. FLOOR DRAIN SHALL REMAIN. |
|---|--|

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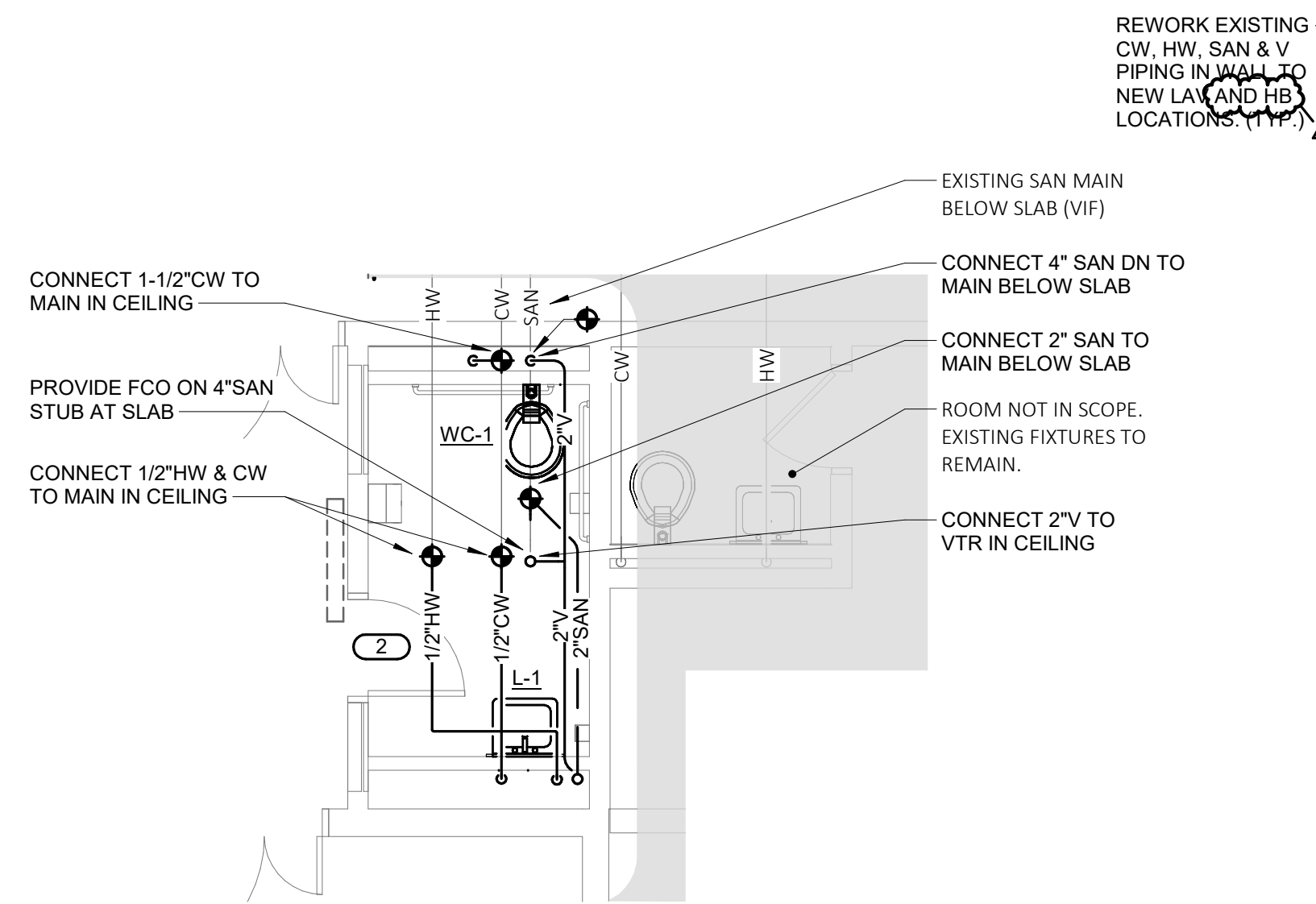
ENLARGED FIRST FLOOR DEMOLITION PLUMBING PLANS

P301

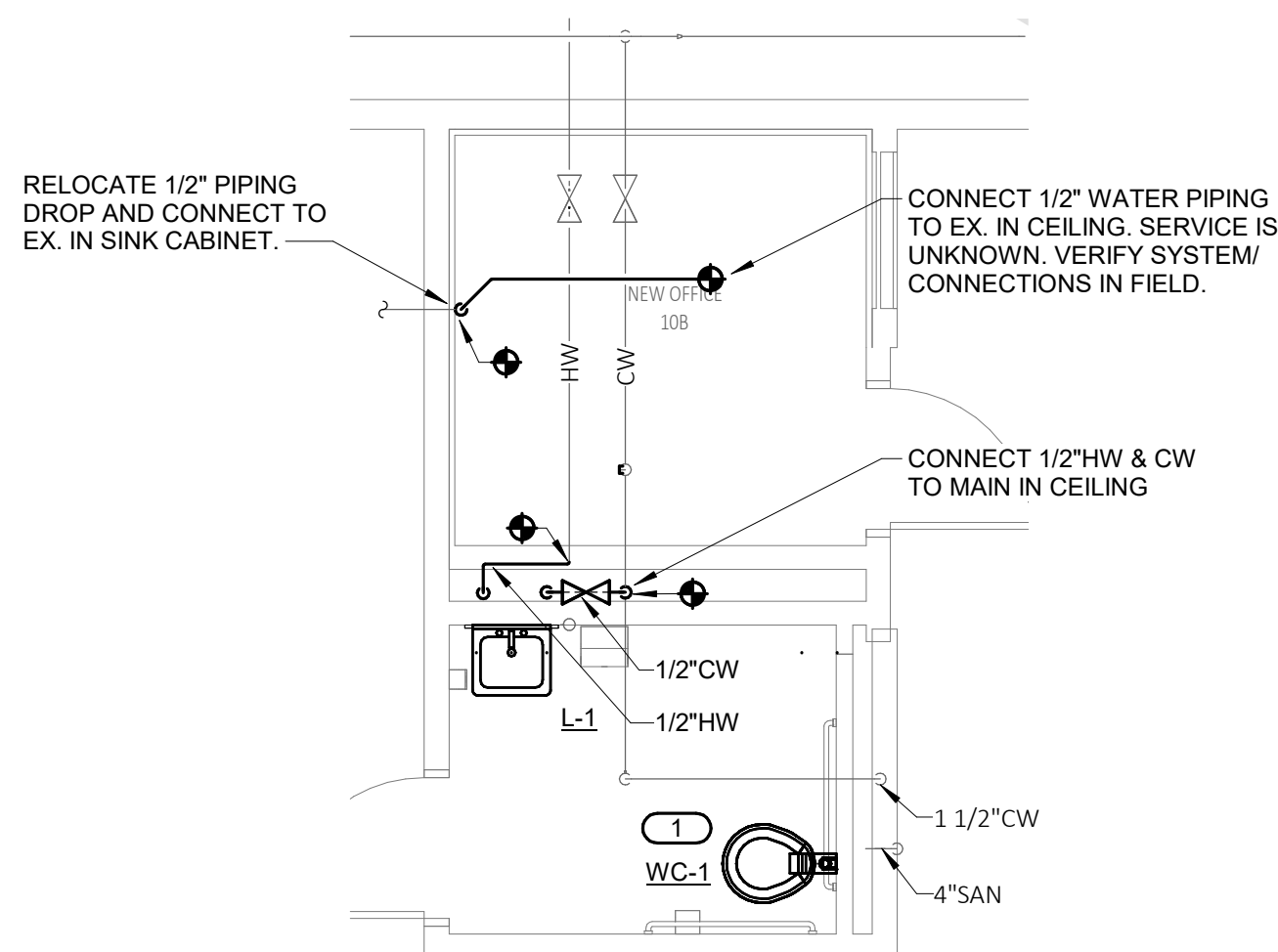
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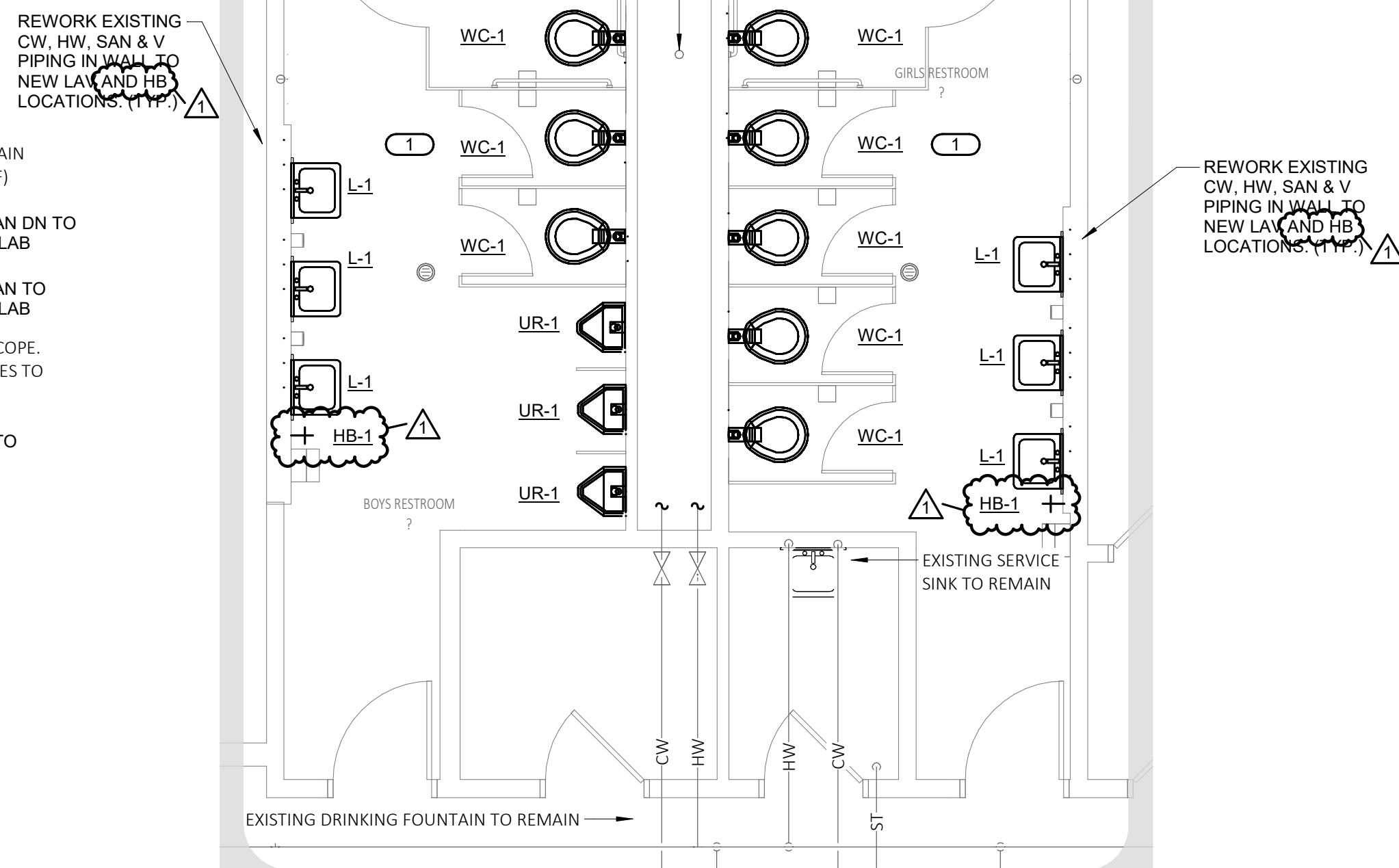
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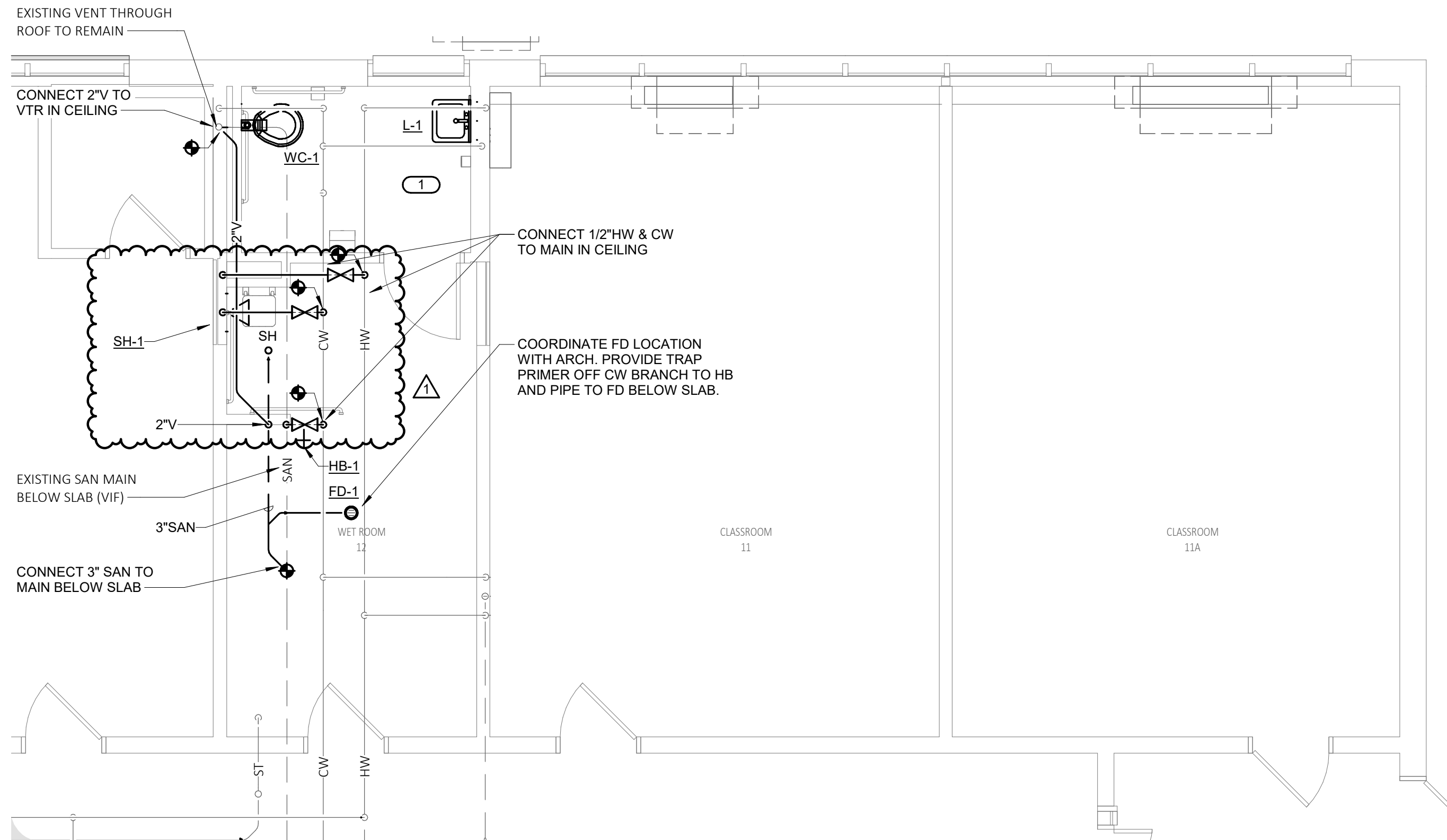
1 FIRST FLOOR RESTROOM ENLARGED PLAN
1/4" = 1'-0"



3 OFFICE & RESTROOM ENLARGED PLAN



2 RESTROOMS ENLARGED PLAN



4 CLASSROOM & WET ROOM ENLARGED PLAN - PLUMBING

KEYNOTES	
1	CONNECT NEW PLUMBING FIXTURES AND CARRIERS TO EXISTING WATER, WASTE, AND VENT WITHIN CHASE.
2	CONNECT NEW PLUMBING FIXTURES AND CARRIERS TO NEW WATER, WASTE, AND VENT WITHIN CHASE.

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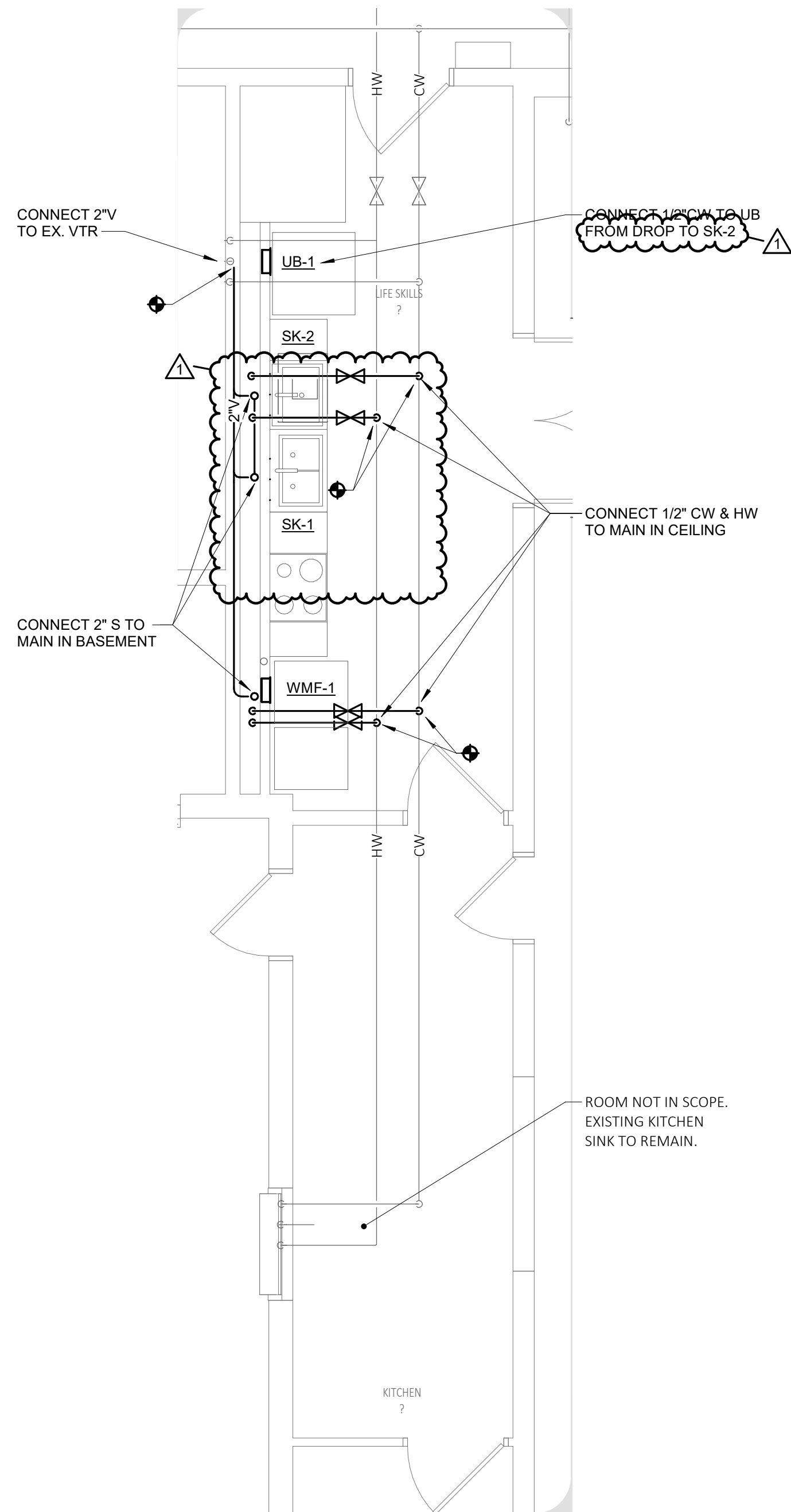
ENLARGED FIRST FLOOR PLUMBING PLANS

P302

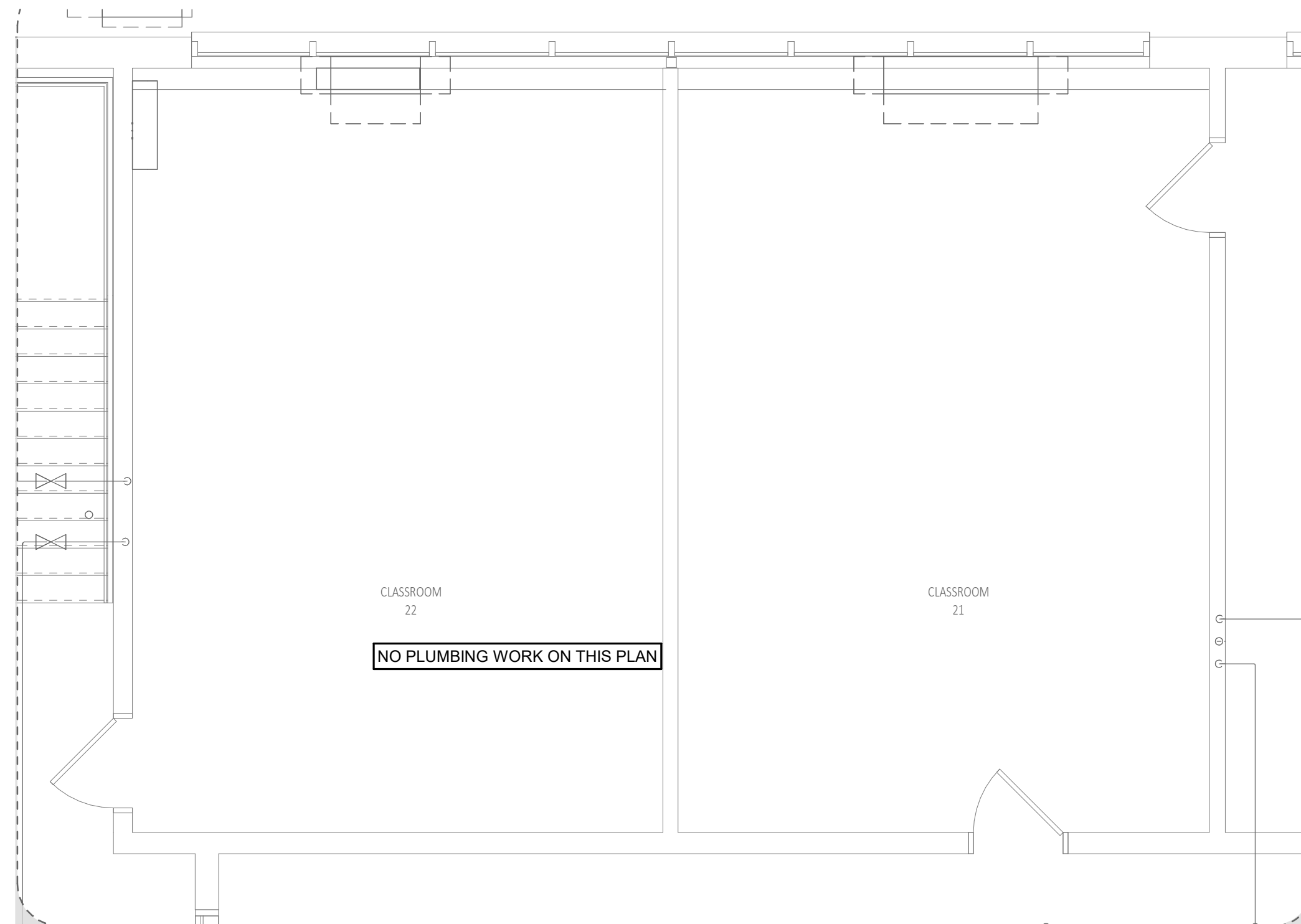
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1 FIRST FLOOR LIBRARY & KITCHEN ENLARGED PLAN
1/4" = 1'-0"



2 FIRST FLOOR CLASSROOM 21 ENLARGED PLAN
1/4" = 1'-0"

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ENLARGED FIRST FLOOR PLUMBING PLANS

P303

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