

ADDENDUM NO. 03

PROJECT: Ossining Union Free School District
2024 Bond: Phase 1
OHS Locker Room & CTE Addition

CPL PROJECT NO. R24.16761.00

DATE: May 21, 2026

Include this Addendum as part of the Contract Documents. It supplements portions of the original specifications and drawings, the extent of which shall remain, except as revised herein:

CLARIFICATIONS / BIDDER QUESTIONS:

1.1 Question: The Acoustical Ceiling System Legend on Drawings A605-A607 do no correspond with the designations listed on the Acoustical Ceiling System Schedule on Drawing I000.A. See attached for reference, please provide clarification.

Answer: On A600 series drawings, the “ACS; Acoustic Ceiling System” Legend needs to be updated. ACS-4; Lumato Panel (Grey) should be ACS-4; Refer to Finish Schedule. ACS-9; Refer to Finish Schedule should be ACS-9; Lumato Panel (Grey).

1.2 Question: The Acoustical Ceiling System Legend on Drawings A605-A607 shows that the EC is responsible to furnish and install this system entirely. Electricians are not experienced installers of this product, this will need to be subcontracted out and have a higher rate of markup rather than if this would fall under the GC responsibility. Please advise if the GC should in fact be responsible for this.

Answer: The EC is to furnish all triangle hanging acoustic panels with and without lighting and turn over to GC for installation. GC to provide and install Unistrut system inclusive of all hangers and supports as required for a complete installation. EC to provide wiring and final connections to combination acoustic panels with lighting. Please refer to A600 series drawings, Detail 2/A811, Sheet I000.A, and E300 series drawings for additional information.

1.3 Question: There does not appear to be a detail indicating the trim requirements for the blower coils and ducted heating coil. The also does not appear to be a control valve listed on the CUH/UH detail. Please clarify.

Answer: See revised H800 and H500 drawings

1.4 Question: The refrigeration specs appear to allow press fittings (zoom lock). The hydronic specs ask for steel pipe or copper tube with soldered joints.

1. Please confirm press fittings for refrigeration is approved.
2. Please advise if press fittings for hydronic piping is allowed.

Answer: Pipe fittings should follow what is listed in the specifications.



1.5 Question:

1. 230529-3, E: Are these Hanger supports Required for all pipe systems and sizes?
2. 230713-4, 3.02-E: Does this state that all ducts in MER's receive canvas and just below 10 ft in finished spaces or in both spaces if duct is below 10 ft above a finished floor?
3. 230719-4, 2.05: Does exterior piping receive Airex E-Flex guard or aluminum jacket as scheduled in 230719-6, 3.03-c?
4. 230713-5, 3.03-E&F: Does any exposed supply or return duct not in MER's require external insulation?
5. 230719-5, 2.06-B: Which systems require corrosion inhibitor gel?
6. Does Lined Duct require external insulation?
7. Please provide equipment insulation specifications (pumps, expansion tanks, air separator, ETC)

Answer:

1. yes
2. just in finished spaces.
3. Airex e-flex guards should only be used at exterior penetrations. Aluminum jacket should be used as scheduled.
4. no
5. corrosion inhibitor gel not required.
6. no
7. equipment insulation spec not required.

- 1.6 Question:** Specification sections 260931.33, 262416.11, 262716.16, and 262816.16 only lists only Square D as the only approved manufacturer for power management systems, panelboards, power meters, enclosed breakers. Please advise if Eaton, ABB, or Siemens are acceptable manufacturer substitutes if all specification requirements are met.

Answer: Other manufacturers will be allowed and reviewed during the submittal review process.

- 1.7 Question:** Dr. A452/3 & A350/1 Shows spray foam insulation to the floor at the "connector". Please advise R-Value.

Dr. A452/4 Shows Intumescent fireproofing applied to roof deck. There is NO UL design for it and can not be applied to roof deck. Please clarify.

Answer: Spray foam insulation to the floor at the floor of the connector shall be R-30.

Drawing 4/A453 shows intumescent fireproofing applied to the beam. Per UL 263, intumescent fireproofing can be applied to metal decking. Please refer to Sheet G200 for applied fireproofing information.

- 1.8 Question:** The insurance requirements for this project (Document A132-2019 Exhibit A) notes that subcontractors are subject to the same terms and conditions. Please confirm that only the primary contractor needs to obtain an OCP policy.

Answer: Please provide insurance requirements per AIA A132-2019 Exhibit A.



1.9 Question: Please confirm the desired maintenance bond/warranty/guarantee period is 1 year as per 230000, 1.22 A?

Answer: Refer to Specifications

1.10 Question: Please confirm if Commissioning is required. If so please confirm the Commissioning Agent is being provided by the owner as per 019113, 1.04, B, 1.

Answer: Yes, commissioning is required per Specification section 230800 Commissioning of HVAC. Refer to Specification Section 019113 General Commissioning Requirements for Commissioning information.

1.11 Question: Please confirm that as per 230550, 1.4, A “the contractor shall provide professional engineering stamped and signed calculation, and details of wind restraint systems to meet total design lateral force requirements for support and restraint of mechanical and electrical systems”.

Answer: Refer to Specifications

1.12 Question: Please advise if the mechanical contract is to provide 1 year maintenance service on the RTUs Spec 237416, 3.05, B says “Provide a separate maintenance contract for specified maintenance service.” While Spec 237416, 3.05, C says “Provide service and maintenance of packaged rooftop units for one year from Date of Substantial Completion”.

Answer: Refer to Specifications

1.13 Question: Please advise if the mechanical contract is to provide 1 year of maintenance service on the VRF equipment. Spec 238129, 3.09, B says “Provide a separate maintenance contract for specified maintenance service”.

Answer: Refer to Specifications

1.14 Question: Please advise if the mechanical contract is to provide 1 year of water treatment maintenance service. The HVAC Water Treatment Spec 232500, 3.06, B says “Provide a separate maintenance contract for specified maintenance service”.

Answer: Refer to Specifications

1.15 Question: Please advise who the building chemical treatment vendor is?

Answer: Refer to Specifications

1.16 Question: Please advise if the mechanical contract is to provide 1 year of BMS service including service calls as per Spec 230913, 4.03, B/C/D and 230923, 3.05, B/C/D.

Answer: Refer to Specifications



- 1.17 Question:** Please advise if the mechanical contracts is to provide an alternate for 2 years of maintenance service on the VFDs. Spec 230934, 3.08, B says “Provide to Owner a proposal as alternate to base bid, a separate maintenance contract for service and maintenance of controllers for two years from date of Substantial Completion.
- Answer:** Refer to Specifications
- 1.18 Question:** Please provide a specification including minimum heating requirement for each area to receive temporary heat.
- Answer:** Refer to Addendum No. 02
- 1.19 Question:** Please confirm the Spec 232114, 3.02 regarding maintenance service of glycol system is not applicable to this project.
- Answer:** No glycol is required on this project.
- 1.20 Question:** Equipment access to the main building new boiler room is limited. Please confirm specified equipment will fit through existing outside door/stairway to the courtyard. If required, please confirm GWC is responsible for enlarging opening to accommodate equipment installation.
- Answer:** Boiler should fit through either courtyard door or corridor door.
- 1.21 Question:** Please provide a detail for new mechanical equipment housekeeping pads.
- Answer:** Refer to Structural Drawing, Sheet S700, detail 7 for Typ. Housekeeping / Equipment Pad Detail.
- 1.22 Question:** Please confirm the housekeeping pads for new mechanical equipment are by the GWC.
- Answer:** New pads are by GC.
- 1.23 Question:** Please confirm all roofing including the needed roofing on the existing roof for the boiler flue and intakes shown on drawings H701 and A208 is by the GWC.
- Answer:** refer to drawings.
- 1.24 Question:** Please confirm the boilers do not need sequenced draft control and that Spec 235100, 2.04 is not applicable to this project. If required please clarify what you are looking for and provide a manufacturer/model.
- Answer:** Sequenced draft control not required.



1.25 Question: Please confirm piping size for the main building new boiler room. Drawing H700 shows the primary and boiler loops as 4” while drawing H503 schematic shows these as 3”.

Answer: See revised H503 drawing.

1.26 Question: Please advise if new equipment, ductwork, and piping in the Gym are to be painted and if so please confirm this will be by GWC.

Answer: MC to paint ductwork prior to installation. Equipment and piping will not be painted.

1.27 Question: Please confirm the demo and removal of the existing mechanical equipment, piping and ductworks is by the MWC.

Answer: Please refer to Mechanical Demolition Plans for extent of MC demolition.

1.28 Question: Please confirm the demo and removal of the existing gas piping is by the PWC and key note M10 on drawings A101 to A105 is to be disregarded.

Answer: Demo and removal of the existing gas piping is by the PC. Key note M10 on drawings A101 to A105 to be revised.

1.29 Question: Please confirm that 011000, 1.5 notes 3 in the Summary of Multiple Contracts regarding “MWC is responsible for making their own through wall and through floor duct and piping penetrations” is for existing walls and that the GWC will provide openings in new walls and floors.

Answer: Confirmed, MWC is responsible for making their own through wall and through floor duct and piping penetrations for existing walls, GWC will provide openings in new walls and floors.

1.30 Question: Please advise for indoors units SSI-20 & SSI-21 the condensate piping size, routing, and discharge location.

Answer: SSI-20 and 21 are to reconnect to existing ¾” condensate piping.

1.31 Question: Please advise if an allowance will be included for fuel for the temporary heating being provided by the MWC.

Answer: Please refer to Addendum No. 02 for response regarding Fuel Cost Allowance.

1.32 Question: The Milestone Schedule 011100 calls for temporary heat 12/31/26 to 4/16/27 for the Locker Room 2nd and 3^d floor addition. Does this include temporary heat for the 1st Floor?

Answer: Yes, this includes temporary heat for the 1st floor.



1.33 Question: Drawing H500 Detail 3 and Drawing H501 Detail 5 calls for equipment to have Bacnet cards for future connectivity. Please confirm this is desired and advise which equipment this applies to. Please also advise if any other equipment is to receive Bacnet cards for future connectivity.

Answer: All equipment shall have Bacnet capabilities and be tied into existing BMS during this project.

1.34 Question: Drawing H203 Key Note 7 calls for Antec VFX Valve and components on the Fume Hoods. Please confirm these components are being provide with the fume hoods by the GWC.

Answer: These are to be provided by the MC.

1.35 Question: On Drawing H203, Please advise if the fume hood in room 351 tied into EF-2 is to receive and Ante VFX valve and components in Key Note 7 similar to the other set-ups.

Answer: Not required for EF-2.

1.36 Question: Please advise if the crawlspace where the mechanical piping is being installed on drawing H300 is to be considered a confined work environment. If so please confirm who is responsible for air monitoring.

Answer: Contractor is responsible to determine the appropriate safety issues and act accordingly.

1.37 Question: Please advise if indoor VRF and Split units are to receive drain pans below the units in addition to those included in the units.

Answer: Refer to specifications.

1.38 Question: Please advise on the floor drain location where the main building new boiler room condensate drains are being piped to.

Answer: There is a floor drain next to boilers near where VFDs are to be installed.

1.39 Question: Please advise where the main building new boiler room boiler make-up water location is and where the PWC is installing the Backflow Preventor.

Answer: Refer to Addendum 1.

1.40 Question: Please advise if the new VRF Systems are to receive a master/central controller.

Answer: Refer to specifications

1.41 Question: Please advise if the boiler combustion/fresh air ducts are to be insulated.

Answer: Refer to duct insulation specification.



1.42 Question: Please advise if elevator machine room/shaft in the CTE addition exists and if so is a cooling system required.

Answer: No elevator machine room.

1.43 Question: Please advise if a refrigerant monitoring system is required for the VRF systems. If so please provide a desired spec.

Answer: See revised H500 drawing for refrigerant leak detection sequence.

1.44 Question: OHS H700, Area C, key not 10 calls for Polypropylene Boiler Exhaust. Spec Section 235100, 2.05.A.2 calls for 29-4C (AL294C) Single Wall. Spec Section 235100, 2.05.B.2. Calls for AL294C inner/S.S. outer, 1" air space. Boiler Schedule on DWG OHS H900 specs Lochinvar FBN1001 for all 5 boilers. Can we change all the boiler exhaust for Area C and Area B to be the same: AL294C/430 S.S., 1" air space in the boiler rooms. AL294C single wall in the shafts, AL294C/430 S.S. 1" insulation above the roof (this would help eliminate condensation on the outer pipe)

Answer: Boiler Exhaust shall be polypropylene or double wall. Construction to meet manufacturer's recommendations.

1.45 Question: Please provide the existing RTU model numbers and serial numbers, to help with identifying the LP conversion kits.

Answer: LP conversion kits to be provided by owner.

1.46 Question: Can you confirm that the countertops in science rooms 351, 353, and 355 are intended to be solid surface rather than epoxy countertops, per note 12?

Answer: Counters in rooms 351, 353, & 355 shall receive SSM-2 as indicated by interior elevation keynote # N12.

1.47 Question: In the Acoustic Ceiling Systems (ACS) section, please confirm which ceiling types are to be provided and installed by the Electrical Contractor and which are by the General Contractor (GC).

Answer: The EC is to furnish all triangle hanging acoustic panels with and without lighting and turn over to GC for installation. GC to provide and install Unistrut system inclusive of all hangers and supports as required for a complete installation. EC to provide wiring and final connections to combination acoustic panels with lighting. Please refer to A600 series drawings, Detail 2/A811, Sheet I000.A, and E300 series drawings for additional information.

1.48 Question: ACS4 on Sheet A605 is indicated as a "Lumato" panel, while on Sheet I000.A it is indicated as a "Turf" panel. Please confirm that ACS4 is to be a "Lumato" panel.

Answer: On A600 series drawings, the "ACS; Acoustic Ceiling System" Legend needs to be updated. ACS-4; Lumato Panel (Grey) should be ACS-4; Refer to Finish Schedule. ACS-9; Refer to Finish Schedule should be ACS-9; Lumato Panel (Grey).



1.49 Question: Sheet 1000.A states the panels are to be 6'L however on 2/A605 the overall baffle length is 11'. 11' divided by 2 would be 5'-6". Please confirm the lengths of panels.

Answer: Provide overall length as indicated on reflected ceiling plans.

1.50 Question: Specification Section 068316, Paragraph 2.02.A.5 references a satin finish; however, Marlite does not offer a "satin" finish. Please refer to the attached PDF and confirm the intended finish type. Are they requesting a "pebbled" finish or a "smooth" finish.

Answer: Provide "smooth" finish in standard sheen.

1.51 Question: Please confirm that batt insulation is acceptable for use within interior metal framing in accordance with Specification Section 072100, Paragraph 2.05-A, as Rockwool and bat insulation are indicated on Sheet A400, Partition Insulation Note 1B.

Answer: As per Note 1B on Sheet A400, for Non-Rated Partitions, Batt Insulation is acceptable, for Rated Partitions, Rock Wool is required. Please refer to Specification Section 072100 for batt insulation and safing insulation (min wool / rock wool) requirements.

1.52 Question: We respectfully request an extension to the bid due date to allow adequate time to complete our review and submit a comprehensive and accurate proposal. Please let us know if an extension can be granted.

Answer: An extension to the bid due date cannot be granted at this time.

1.53 Question: Could you please specify the Basis of Design manufacturer for the overhead coiling smoke curtains at the elevator doors?

Answer: Basis of Design manufacturer / product for the overhead coiling smoke curtains at the elevator doors is as follows; Smoke Guard, a CSW Industrials Company – Model 200.

1.54 Question: Please specify the acceptable manufacturers for Section 095111 – Acoustical Linear Ceilings.

Answer: Basis of Design manufacturer & product information is listed on Interiors Finish Schedule on Sheet 1000.A.

1.55 Question: There is a reference to impact resistant gypsum board, abuse-resistant gypsum board, and acoustical gypsum board on Sheet A400, Note #2, however it states "where indicate". Could you please clarify where each of these gypsum board types is required within the project?

Answer: Impact resistant, abuse-resistant and acoustical gypsum board are not required for this project. Note #2 on Sheet A400 is a general notes and why "where indicated" is referenced.



1.56 Question:

1. Regarding the (2) helical piles in the existing school corridor.
 - a. Does this work have to be done on second shift?
 - b. Is there a boring report/Plan or Repair (PR) to figure depth needed for an accurate estimate?
 - c. Does the existing terrazzo in corridor and vestibule need to match (two different colors), please provide detail/specification for this work if necessary?
2. Who is responsible for the roof drains and associated piping for the temporary roof “A minimum of four 4” temporary roof drains, including all required piping & supports/hangers to the exterior of the building and down to grade.”?
3. Horizontal metal sunshade found on the elevation drawings, please provide specification.
4. “2-hour horizontal rated assembly per PEI AER-09038, test WHI-495-PSH-0154/0167.” For detail 8,9,12/A401. Please provide locations where this detail is required. Notes C1, C7, and C9 all refer to paint exposed units.

Answer:

1. Regarding the (2) helical piles in the existing school corridor.
 - a. Please refer to Addendum No. 02 where additional information was provided regarding 2nd shift work in this area.
 - b. Please refer to Specification Section 003132 Geotechnical Data for attached Geotechnical Report.
 - c. The intent at the corridor and vestibule for demolition is to remove as minimal of a portion of the existing slab and terrazzo as required for the new work. Intent is to only remove to the extent that the new wall construction to conceal the new columns would be. Should more than that extent be required to be removed, then yes new terrazzo should be installed to match existing.
2. PWC to install temporary roof drains and piping to exterior of building at existing locker room roof and maintain until the new locker addition is water tight. Coordinate with other Prime contractors for suitable locations.
3. Please refer to Specification Section 084313 – Aluminum Framed Storefronts, Part 2 Products, 2.03 Components, E. for SunShade specified.
4. Please refer to Sheet G200 for locations of required 2-hr horizontal rated assemblies. Should the conditions of details 8, 9, 12 A/401 fall within those assembly areas then these details would apply.

CHANGES TO THE PROJECT MANUAL:

1.57 Section 000110 – Table of Contents

Add the following Section number and name to the Table of Contents; Section 083100 – Access Doors and Panels under item 2.08 Division 08 – Openings after Section 081743 – FRP / Aluminum Hybrid Doors.

1.58 Section 011000 – Summary of Multiple Contracts

Add the following to Section 011000 – 1.7. Plumbing Contract Work, Special Notes: Plumbing Work Contractor:, “8. PWC to install temporary roof drains and piping to exterior of building at existing locker room roof and maintain until the new locker addition is water tight. Coordinate with other Prime contractors for suitable locations.”



1.59 Section 014533 – Code - Required Special Inspections and Procedures

Add the following to Section 014533 – 1.05 Reference Standards, Paragraph “*EE. 2025 Energy Conservation Code of New York State (ECCCNYS)*”:

Add the following to Section 014533 – “3.01.2 Schedule of Special Inspections for Building Envelope

- A. Building Thermal Envelope Certificate. – As per ECCCNYS C401.3 A permanent building thermal envelope certificate shall be completed by an approved party. Such certificate shall be posted on a wall in the space when the space conditioning equipment is located.
- B. Air Barrier – As per ECCCNYS Section C402.6.2.3, the continuous air barrier shall be verified by a registered design professional or approved agency in accordance with the following:
 1. A review of the construction documents and other supporting data shall be conducted to assess compliance with the requirements of Section C402.6.1.
 2. Inspection of continuous air barrier components and assemblies shall be conducted during construction to verify compliance with the requirements of Sections C402.6.2.3.2. The air barrier shall be provided with access for inspection and repair.
 3. A final inspection report shall be provided for inspections completed by the registered design professional or approved agency. The inspection report shall be provided to the building owner or owners authorized agent. The report shall identify deficiencies found during inspection and details of corrective measures taken.
- C. Compliance - The contractor responsible for air barrier installation shall:
 1. Coordinate all work to ensure compliance prior to testing.
 2. Perform pre-testing, mock-ups and corrective work as necessary.
 3. Repair, replace, or adjust deficient work at no additional cost to the Owner.
 4. Re-test as required until passing results are achieved.
 5. Failure of any Energy Code inspection or test shall be considered a defect in the Work.

1.60 Section 074246 – Rainscreen System

Replace under Part 2 Products; 2.02 Wall Panel, E. Metal Wall Panels with the following:

1. Products:
 - a. Basis of Design: Alucobond Plus; 4mm (0.157”) Aluminum-Faced Composite Wall Panels: www.alucobondusa.com.
 - b. Overly Panel Systems; Dimension XP: overlybyecms.net
 - c. East Coast Metal Systems; EC-200: ecmsinc.net.

1.61 Section 083100 – Access Doors and Panels

Add attached Section 083100 – Access Doors and Panels to the Project Manual.

1.62 Section 083343 – Overhead Coiling Smoke Curtains for Elevator Doors

Add the following to Section 083343 under Part 2 Products, 2.02 Manufacturers; “B. Basis of Design Manufacturer: Smoke Guard, A CSW Industrials Company.

1. Address: 287 North Maple Grove Road, Boise, ID 83704
2. Phone: (800) 574-0330



3. Website: <https://smokeguard.com>

Add the following to Section 083343 under Part 2 Products, 2.03 Smoke-Protective Curtain Assemblies for Elevator Entrances, A; “1. Basis of Design Product: Model 200, by Smoke Guard, a CSW Industrials Company.

1.63 Section 101423 – Panel Signage

Replace: 101423 – Panel Signage with revised 101423 – Panel Signage.

1.64 Section 230719 HVAC Piping Insulation.

Remove: 2.06 B. Corrosion Inhibitors.

1.65 Section 232114 Hydronic Piping Specialties.

Remove: 3.02 C & D.

1.66 Section 231126 Facility Liquefied-Petroleum Gas Piping

Replace 231126 – Facility Liquefied-Petroleum Gas Piping with revised 231126 – Facility Liquefied-Petroleum Gas Piping.

CHANGES TO THE DRAWINGS:

1.66 OHS A101, A102, A103, A104, & A105 – Demolition Plans

Revise Demolition Keyed Notes M10 to read as follows; “P.C. TO REMOVE & REWOTK EXISTING GAS PIPING FOR NEW WORK – REFER TO PLUMBING DRAWINGS.”

1.67 OHS A601, A602, A603, A604, A605, A606 & A607 – Reflected Ceiling Plans

Revise Ceiling Keyed Notes C12 to read as follows; “3-COLOR PATTERN ACOUSTIC CLOUD SYSTEM WITH INTEGRATED LIGHTING. REFER TO I000 & DETAIL 2/A811 FOR ADDITIONAL DETAIL. PROVIDED BY EC, INSTALLED BY GC.”

Revise “ACS; Acoustic Ceiling System” Legend as follows:

- **Omit (EC Responsibility)** from legend heading.
- **Revise ACS-4** to the following; **ACS-4**; REFER TO FINISH SCHEDULE
- **Revise ACS-9** to the following; **ACS-9**; LUMATO PANEL (GREY)

1.68 OHS A811 – Typical Section Details

Revise note on drawing 2/A811 to read as follows; “Unistrut system to be provided and installed by GC and painted. Inclusive of all hangers and supports as required for complete installation. RE: A600 sheet for locations and finishes. Mount Unistrut at 9'-2" AFF.”

Revise note on drawing 2/A811 to read as follows; “Integrated lighting suspended from Unistrut – furnished by EC, installed by GC. EC to provide wiring and final connections. RE: Elec for light fixture mounting heights.”

1.69 OHS C101 – Existing Conditions Plan – Work Area

Replace OHS C101 with revised OHS C101 drawing.

1.70 OHS C102 – Demolition Plan – Work Area

Replace OHS C102 with revised OHS C102 drawing.

1.71 OHS C201 – Site Plan – Work Area

Replace OHS C201 with revised OHS C201 drawing.



- 1.72 OHS C203 – Utility Plan – Work Area**
Replace OHS C203 with revised OHS C203 drawing.
- 1.73 OHS C205 – Erosion & Sediment Control Plan – Work Area**
Replace OHS C205 with revised OHS C205 drawing.
- 1.74 OHS C206 – Construction Fencing & Staging Plan**
Replace OHS C206 with revised OHS C206 drawing.
- 1.75 OHS C806 – Site Details – 7**
Replace OHS C806 with revised OHS C806 drawing.
- 1.76 OHS H202 – Second Floor Mechanical Ductwork Plan – Area A2**
Add – Key Note 7: Provide blower coil supply ductwork with a factory applied powder coating. Color to match existing gymnasium ceiling color. Key note 7 to be next to each blower coil unit.
- 1.77 OHS H500 – Mechanical Controls Diagrams**
Replace OHS H500 with revised OHS H500 drawing.
- 1.78 OHS H501 – Mechanical Controls Diagrams**
Replace OHS H501 with revised OHS H501 drawing.
- 1.79 OHS H502 – Mechanical Controls Diagrams**
Replace OHS H502 with revised OHS H502 drawing.
- 1.80 OHS H503 – Mechanical Controls Diagrams**
Replace OHS H503 with revised OHS H503 drawing.
- 1.81 OHS H702 – Gymnasium Temporary New Work Plan**
Replace OHS H702 with revised OHS H702 drawing.
- 1.82 OHS H703 – Gymnasium Temporary Work Demolition Plan**
Replace OHS H703 with revised OHS H703 drawing.
- 1.83 OHS H800 – Mechanical Details**
Replace OHS H800 with revised OHS H800 drawing.
- 1.84 OHS H802 – Mechanical Details**
Replace OHS H802 with revised OHS H802 drawing.
- 1.85 OHS P000 – Plumbing Legend, Notes, & System Diagrams**
Replace OHS P000 with revised OHS P000 drawing.
- 1.86 OHS P101 – First Floor Demolition Plan**
Replace OHS P101 with revised OHS P101 drawing.
- 1.87 OH E102 – Second Floor Electrical Demolition Plan – Area A2**
Replace OHS E102 with revised OHS E102 drawing.



1.88 OHS E201 – First Floor Power Plan – Area A1

Replace OHS E201 with revised OHS E201 drawing.

1.89 OHS E305 – First Floor Lighting Plan Area B-1

Revise at each note within drawing area noted with key note 9, Replace the word “PROVIDE” with the following: “GC TO FURNISH AND INSTALL GALVANIZED STEEL UNI-STRUT GRID”.

Revise key note 9 to read “FURNISH ALL HANGING ACOUSTIC PANELS AND COMBINATION ACOUSTIC PANELS SYSTEM AND TURN OVER TO GC FOR INSTALLATION. REFER TO ARCHITECTURAL DRAWING OHS A605 & OHS I000.A FOR DETAILED INFORMATION ON ACOUSTIC CEILING PANELS REQUIRED.”

1.90 OHS E306 – Second Floor Lighting Plan Area B-2

Revise at each note within drawing area noted with key note 7, Replace the word “PROVIDE” with the following: “GC TO FURNISH AND INSTALL GALVANIZED STEEL UNI-STRUT GRID”.

Revise key note 7 to read “FURNISH ALL HANGING ACOUSTIC PANELS AND COMBINATION ACOUSTIC PANELS SYSTEM AND TURN OVER TO GC FOR INSTALLATION. REFER TO ARCHITECTURAL DRAWING OHS A606 & OHS I000.A FOR DETAILED INFORMATION ON ACOUSTIC CEILING PANELS REQUIRED.”

1.91 OHS E307 – Third Floor Lighting Plan Area B-3

Revise at each note within drawing area noted with key note 9, Replace the word “PROVIDE” with the following: “GC TO FURNISH AND INSTALL GALVANIZED STEEL UNI-STRUT GRID”.

Revise key note 9 to read “FURNISH ALL HANGING ACOUSTIC PANELS AND COMBINATION ACOUSTIC PANELS SYSTEM AND TURN OVER TO GC FOR INSTALLATION. REFER TO ARCHITECTURAL DRAWING OHS A607 & OHS I000.A FOR DETAILED INFORMATION ON ACOUSTIC CEILING PANELS REQUIRED.”

PREVIOUSLY ISSUED ADDENDA:

1.92 Addendum No. 01 on May 8, 2026

1.93 Addendum No. 02 on May 15, 2026

END OF ADDENDUM NO. 03



**SECTION 083100
ACCESS DOORS AND PANELS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wall and ceiling mounted access units.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provision of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Section 042000 - Unit Masonry: Anchoring and grouting access door frames set in masonry construction.
- C. Section 087100 - Door Hardware: Mortise cylinder and core hardware.
- D. Section 092116 - Gypsum Board Assemblies: Anchoring access doors frames installed in stud and gypsum board walls.
- E. Section 099000 - Painting and Coating: Field paint finish.

1.03 REFERENCE STANDARDS

- A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2014.
- B. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2023.
- C. NACE No. 1 - Joint Surface Preparation Standard White Metal Blast Cleaning; Current Edition.
- D. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025, with Amendment (2024).
- E. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.
- F. NFPA 288 - Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies; 2022.
- G. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).
- H. SSPC-SP 5 - White Metal Blast Cleaning; 2007.
- I. SSPC-SP 8 - Pickling; current edition.
- J. UL (FRD) - Fire Resistance Directory; Current Edition.
- K. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Verification: Determine specific locations and sizes for access doors needed to gain access to concealed plumbing, mechanical, or other concealed work, and indicate in the schedule specified in "Submittals" Article.

1.05 SUBMITTALS

- A. See Section 013300 - Submittal Procedures, for submittal procedures.
- B. Product Data: For each type of access door and frame indicated, provide sizes, types, fire ratings, materials, individual components, profiles, finishes, hardware, scheduled locations, and details of connections at adjoining work.

- C. Access Door and Frame Schedule: Provide complete access door and frame schedule, including types, locations, sizes, latching or locking provisions, and other data pertinent to installation.
- D. Shop Drawings: Indicate exact position of each access door and/or panel unit.
 - 1. Include plans, elevations, sections, details, and attachments to other work.
 - 2. Detail fabrication and installation of access doors and frames for each type of substrate.
- E. Samples: For each door face material, submit two units, 3 by 5 inches in size indicating specified finish.
- F. Manufacturer's Installation Instructions: Indicate installation requirements and rough-in dimensions.
- G. Manufacturer's qualification statement.
- H. Installer's qualification statement.
- I. Speciment warranty.
- J. Project Record Documents: Record actual locations of each access unit.

1.06 QUALITY ASSURANCE

- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- B. Size Variations: Obtain Architect's acceptance of manufacturer's standard-size units, which may vary slightly from sizes indicated.
- C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years documented experience.
- D. Installer Qualifications: Company specializing in performing work of the type specified and with at least five years documented experience.

1.07 WARRANTY

- A. Manufacturer's standard warranty against manufacturing defects and workmanship.
- B. Manufacturer's standard 1 year warranty against premature deterioration due to weathering.
- C. Fill out forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Source Limitations: Obtain specified products from single source from single manufacturer.
- B. The manufacturer and model number(s) or series listed below are Basis-of-Design.
 - 1. Subject to compliance with requirements of product identified as basis-of-design, other manufacturers shall be considered for bidding as an equivalent when the bidder provides a written request for equivalency to the Architect prior to bidding.
 - 2. Follow all instructions as indicated in Section 012519 - Equivalent Procedures.

2.02 MATERIALS

- A. Steel Sheet: Uncoated cold-rolled steel sheet substrate complying with ASTM A1008/A1008M, Commercial Steel (CS), exposed.
- B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

- C. Steel Finishes: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
 - 1. Surface Preparation for Steel Sheet, Plates, Shapes and B: Clean surfaces to comply with SSPC-SP 1 to remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 5/NACE No. 1 or SSPC-SP 8.
 - 2. Factory-Primed Finish: Apply shop primer immediately after cleaning and pretreating.
- D. Drywall Beads: Edge trim formed from 0.0299 inch zinc-coated steel sheet formed to receive joint compound and in size to suit thickness of gypsum board.

2.03 PERFORMANCE REQUIREMENTS

- A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
 - 2. NFPA 288 for fire-rated access door assemblies installed horizontally.

2.04 ACCESS DOORS AND PANELS ASSEMBLIES

- A. Wall-Mounted Units:
 - 1. Location: As indicated on drawings.
 - 2. Panel Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated.
 - 3. Size: As indicated on drawings.
 - 4. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
 - 5. Gypsum Board Mounting Criteria: Provide drywall bead frame with door surface flush with wall surface.
 - 6. Masonry Mounting Criteria: Provide surface-mounted frame with door surface flush with frame surface.
- B. Wall-Mounted Units in Wet Areas:
 - 1. Location: As indicated on drawings.
 - 2. Panel Material: Stainless steel, Type 304.
 - 3. Size: As indicated on drawings.
 - 4. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
 - 5. Gypsum Board Mounting Criteria: Provide drywall bead frame with door surface flush with wall surface.
 - 6. Masonry Mounting Criteria: Provide surface-mounted frame with door surface flush with frame surface.
- C. Fire-Rated Wall-Mounted Units:
 - 1. Wall Fire-Rating: As indicated on drawings.
 - 2. Panel Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
 - 3. Size: As indicated on drawings.
 - 4. Door/Panel: Insulated double-surface panel.

2.05 WALL- AND CEILING-MOUNTED ACCESS UNITS

- A. Manufacturers:
 - 1. Milcor, a Duravent Group Company: www.milcorinc.com/#sle.

- a. Wall or Ceiling Units, non fire rated: Milcor, Series DW.
 - b. Wall or Ceiling Units, fire rated: Milcor, Series UFR DW.
 2. Substitutions: See Section 016000 - Product Requirements.
- B. Wall- and Ceiling-Mounted Units: Factory-fabricated door and frame, fully assembled units with corner joints welded, filled and ground flush; square and without rack or warp; coordinate requirements with type of installation assembly being used for each unit.
1. Dry Location Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated.
 2. Wet Location Material: Stainless steel, Type 304.
 3. Style: Exposed frame with door surface flush with frame surface.
 4. Door Style, Non Fire Rated: Single thickness with rolled or turned in edges.
 5. Door Style, Fire Rated: Double-skinned hollow panel with 2 inch mineral fiber insulation.
 6. Frames: 16-gauge, 0.0598-inch minimum thickness.
 7. Single Steel Sheet Door Panels: 16-gauge, 0.0625-inch minimum thickness.
 8. Double-Skinned Hollow Steel Sheet Door Panels: 20-gauge, 0.0396-inch minimum thickness, on both sides and along each edge.
 9. Insulation: Non-combustible mineral wool or glass fiber.
 10. Units in Fire-Rated Assemblies: Fire rating as required by applicable code for fire-rated assembly that access doors are being installed.
 - a. Provide products listed by UL (FRD) as suitable for purpose indicated.
 - b. Provide certificate of compliance from authorities having jurisdiction indicating approval of fire rated doors.
 11. Stainless Steel Finish: No.4 brushed finish.
 12. Primed and Factory Finish: Polyester powder coat; color as selected by Architect from manufacturer's standard colors.
 13. Door/Panel Size: As indicated on the drawings.
 14. Hardware:
 - a. Hardware for Fire-Rated Units: As required for listing.
 - b. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.
 - c. Handle: No handle.
 - d. Latch/Lock: Cylinder lock-operated cam latch, two keys for each unit.
 - 1) Mortise cylinder and core as specified in Section 087100.
 - e. Number of Locks/Latches Required: As recommended by manufacturer for size of unit.
 - f. Gasketing: Extruded neoprene, around perimeter of door panel.

2.06 FABRICATION

- A. General: Provide access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish attachment devices and fasteners of type required to secure access panels to types of supports indicated.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that rough openings are correctly sized and located.
- B. Begin installation only after substrates have been properly prepared, and if the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

- A. Clean surfaces thoroughly prior to proceeding with this work.
- B. Prepare surfaces using methods recommended by manufacturer for applicable substrates in accordance with project conditions.

3.03 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Install frames plumb and level in openings, and secure units rigidly in place.
- C. Install doors flush with adjacent finish surfaces or recessed to receive finish material.
- D. Position units to provide convenient access to concealed equipment when necessary.

3.04 ADJUSTING AND CLEANING

- A. Adjust doors and hardware after installation for proper operation.
- B. Remove and replace doors and frames that are warped, bowed, or otherwise damaged.

END OF SECTION



**SECTION 101423
PANEL SIGNAGE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Interior Panel signage.

1.02 RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.03 DEFINITIONS

- A. Accessible: Complies with the accessibility standard.

1.04 COORDINATION

- A. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.

1.05 SUBMITTALS

- A. See Section 013300 - Submittal Procedures, for submittal procedures.
- B. Product Data: For each type of product specified.
- C. Shop Drawings: For panel signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by other installers, and accessories.
 - 3. Show message list, type styles, graphic elements, including raised characters and Braille, and layout for each sign at least half size.
- D. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.
 - 1. Include representative Samples of available type styles and graphic symbols.
- E. Product Schedule: For panel signs. Use same designations indicated on Drawings or specified.
- F. Qualification Data: For manufacturer and installer.
- G. Sample Warranty: For special warranty.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by signage manufacturer.
- B. Source Limitations: Obtain all sign types through one source from a single manufacturer.
- C. Regulatory Requirements:
 - 1. Interior/Exterior Accessible Signs: Comply with the Americans with Disabilities Act (ADA) and with code provisions as adopted by authorities having jurisdiction.
 - 2. Accessible Toilet Rooms (Element): ADA, ICC/ANSI A117.1-1998, Comply with The Building Code of New York State, 1110.1.4, 1110.1.6, E107.1. Not resident room toilets.

1.07 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:

- a. Deterioration of finishes beyond normal weathering.
 - b. Deterioration of embedded graphic image.
 - c. Separation or delamination of sheet materials and components.
2. Warranty Period: Five years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 GENERAL

- A. Source Limitations: Obtain specified products from single source from single manufacturer.
- B. The manufacturer and model number(s) or series listed below are Basis-of-Design.
 1. Subject to compliance with requirements of product identified as basis-of-design, other manufacturers shall be considered for bidding as an equivalent when the bidder provides a written request for equivalency to the Architect prior to bidding.
 2. Follow all instructions as indicated in Section 012519 - Equivalent Procedures.

2.02 PERFORMANCE REQUIREMENTS

- A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

2.03 PANEL SIGNS

- A. General: Provide panel signs that comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
 1. Produce smooth panel sign surfaces constructed to remain flat under installed conditions within tolerance of plus or minus 1/16 inch measured diagonally.
- B. Manufacturers: **Provide Basis-of-Design Product as listed on Interior Signage Schedule.**
 1. Takeform; Fusion: www.takeform.net/#sle.
 2. Substitutions: See Section 016000 - Product Requirements.
- C. Signage Series - ADA Alternative
 1. Color – Burgundy unless otherwise noted.
 - a. Final color to be selected from manufacturers full line.
- D. Graphic Content and Style:
 1. Provide sign copy that complies with requirements indicated for size, style, spacing, content, mounting height and location, material, finishes, and colors of signage.
 2. Color – Bright White, unless otherwise noted.
- E. Tactile and Braille Copy: Manufacturer's standard process for producing copy complying with ADA Accessibility Guidelines and ICC/ANSI A117.1. Text shall be accompanied by Grade 2 braille. Produce precisely formed characters with square cut edges free from burrs and cut marks.
 1. Panel Material: Non-glare acrylic, not less than 1/8-inch (3 mm). (1/4-inch for slot signs)
 2. Raised-Copy Thickness: Not less than 1/32 inch (0.8 mm).
 3. Tactile Copy: Provide in both English and Spanish.
 - a. Copy to be reviewed and approved by the Architect and Owner for accuracy.

2.04 ACCESSORIES

- A. Two-Face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch thick, with adhesive on both sides.

2.05 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.
- D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

2.06 PANEL SIGN TYPES

- A. Refer to drawings for signage schedule, signage locations and types.
 - 1. Text to be provided in both English and Spanish, as indicated on drawings.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Install signs so they do not protrude or obstruct according to the accessibility standard.
 - 3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
- B. Accessible Signage: Install in locations on walls on latch side of door and according to the accessibility standard.
- C. Mounting Methods:
 - 1. Two-Face Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

3.03 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.

- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION



SECTION 231126
FACILITY LIQUEFIED-PETROLEUM GAS PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Pipe, pipe fittings, valves, and connections for propane gas piping systems.

1.02 RELATED REQUIREMENTS

- A. Section 083100 - ACCESS DOORS AND PANELS.
- B. Section 230516 - Expansion Fittings and Loops for HVAC Piping.
- C. Section 312316 - Excavation.
- D. Section 312323 - Fill.

1.03 REFERENCE STANDARDS

- A. ANSI Z21.18/CSA 6.3 - Gas Appliance Pressure Regulators; 2019 (Reaffirmed 2024).
- B. ANSI Z21.80/CSA 6.22 - Line Pressure Regulators; 2019 (Reaffirmed 2024).
- C. ASME B16.3 - Malleable Iron Threaded Fittings: Classes 150 and 300; 2021.
- D. ASME B16.26 - Cast Copper Alloy Fittings for Flared Copper Tubes; 2024.
- E. ASME B31.1 - Power Piping; 2022.
- F. ASME BPVC-IX - Boiler and Pressure Vessel Code, Section IX - Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators; 2025, with Errata.
- G. ASTM A47/A47M - Standard Specification for Ferritic Malleable Iron Castings; 1999, with Editorial Revision (2022).
- H. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2024.
- I. ASTM A234/A234M - Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service; 2025.
- J. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2022.
- K. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric); 2020.
- L. ASTM B813 - Standard Specification for Water Flushable Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube; 2024.
- M. ASTM B828 - Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings; 2023.
- N. AWWA C105/A21.5 - Polyethylene Encasement for Ductile-Iron Pipe Systems; 2018.
- O. AWWA C606 - Grooved and Shouldered Joints; 2022.
- P. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation; 2025.
- Q. MSS SP-78 - Gray Iron Plug Valves, Flanged and Threaded Ends; 2011.
- R. NFPA 58 - Liquefied Petroleum Gas Code; 2024, with Amendment.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
-

- B. Product Data: Provide data on pipe materials, pipe fittings, valves, and accessories. Provide manufacturers catalog information. Indicate valve data and ratings.
- C. Welders' Certificates: Submit certification of welders' compliance with ASME BPVC-IX.
- D. Shop Drawings: For non-penetrating rooftop supports, submit detailed layout developed for this project, with design calculations for loadings and spacings.
- E. Sustainable Design Documentation: For soldered copper joints, submit installer's certification that the specified installation method and materials were used.
- F. Project Record Documents: Record actual locations of valves.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 - Product Requirements, for additional provisions.
 - 2. Valve Repacking Kits: One for each type and size of valve.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with applicable codes.
- B. Valves: Manufacturer's name and pressure rating marked on valve body.
- C. Welding Materials and Procedures: Comply with ASME BPVC-IX and applicable state labor regulations.
- D. Welder Qualifications: Certified in accordance with ASME BPVC-IX.
- E. Identify pipe with marking including size, ASTM material classification, and ASTM specification.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Accept valves on site in shipping containers with labeling in place. Inspect for damage.
- B. Provide temporary protective coating on cast iron and steel valves.
- C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
- D. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

1.07 FIELD CONDITIONS

- A. Do not install underground piping when bedding is wet or frozen.

PART 2 PRODUCTS

2.01 PROPANE GAS PIPING, BURIED BEYOND 5 FEET OF BUILDING

- A. Steel Pipe: ASTM A53/A53M Schedule 40 black.
 - 1. Fittings: ASTM A234/A234M, wrought steel welding type, with AWWA C105/A21.5 polyethylene jacket or double layer, half-lapped 10 mil polyethylene tape.
 - 2. Joints: ASME B31.1, welded.

2.02 PROPANE GAS PIPING, ABOVE GRADE

- A. Steel Pipe: ASTM A53/A53M Schedule 40 black.
 - 1. Fittings: ASME B16.3, malleable iron, or ASTM A234/A234M, wrought steel welding type.
 - 2. Joints: NFPA 58, threaded or welded to ASME B31.1.
- B. Copper Tube: ASTM B88 (ASTM B88M), Type K (A) annealed.
 - 1. Fittings: ASME B16.26, cast bronze.
 - 2. Joints: Flared.

2.03 FLANGES, UNIONS, AND COUPLINGS

- A. Unions for Pipe Sizes 3 Inches and Under:
 - 1. Ferrous Pipe: Class 150 malleable iron threaded unions.
 - 2. Copper Tube and Pipe: Class 150 bronze unions with soldered joints.
- B. Flanges for Pipe Size Over 1 Inch:
 - 1. Ferrous Pipe: Class 150 malleable iron threaded or forged steel slip-on flanges; preformed neoprene gaskets.
 - 2. Copper Tube and Pipe: Class 150 slip-on bronze flanges; preformed neoprene gaskets.
- C. Mechanical Couplings for Grooved and Shouldered Joints: Two or more curved housing segments with continuous key to engage pipe groove, circular C-profile gasket, and bolts to secure and compress gasket.
 - 1. Dimensions and Testing: In accordance with AWWA C606.
 - 2. Housing Material: Provide ASTM A47/A47M malleable iron or ductile iron, galvanized.
 - 3. Gasket Material: EPDM suitable for operating temperature range from minus 30 degrees F to 230 degrees F.
 - 4. Bolts and Nuts: Hot dipped galvanized or zinc-electroplated steel.
 - 5. When pipe is field grooved, provide coupling manufacturer's grooving tools.
- D. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier.

2.04 PIPE HANGERS AND SUPPORTS

- A. Provide hangers and supports that comply with MSS SP-58.
 - 1. If type of hanger or support for a particular situation is not indicated, select appropriate type using MSS SP-58 recommendations.
 - 2. Overhead Supports: Individual steel rod hangers attached to structure or to trapeze hangers.
 - 3. Trapeze Hangers: Welded steel channel frames attached to structure.
 - 4. Vertical Pipe Support: Steel riser clamp.
 - 5. Floor Supports: Concrete pier or steel pedestal with floor flange; fixture attachment.

2.05 BALL VALVES

- A. Construction, 4 Inches and Smaller: MSS SP-110, Class 150, 400 psi CWP, bronze or ductile iron body, 304 stainless steel or chrome plated brass ball, regular port, Teflon seats and stuffing box ring, blow-out proof stem, lever handle with balancing stops, solder, threaded, or grooved ends with union.

2.06 PLUG VALVES

- A. Construction 2-1/2 Inches and Larger: MSS SP-78, 175 psi CWP, cast iron body and plug, pressure lubricated, Teflon or Buna N packing, flanged or grooved ends. Provide lever operator with set screw.

2.07 STRAINERS

- A. Size 2 inch and Under:
 - 1. Threaded brass body for 175 psi CWP, Y pattern with 1/32 inch stainless steel perforated screen.
 - 2. Class 150, threaded bronze body 300 psi CWP, Y pattern with 1/32 inch stainless steel perforated screen.

2.08 LINE PRESSURE REGULATORS AND APPLIANCE REGULATORS INDICATORS

- A. Compliance Requirements:
 - 1. Appliance Regulator: ANSI Z21.18/CSA 6.3.
 - 2. Line Pressure Regulator: ANSI Z21.80/CSA 6.22.
- B. Materials in Contact With Gas:
 - 1. Housing: Aluminum, steel (free of non-ferrous metals).
 - 2. Seals and Diaphragms: NBR-based rubber.
- C. Maximum Inlet Operating Pressure: 10 psi.
 - 1. Appliance Regulator: 10 psi.
 - 2. Line Pressure Regulator: 10 psi.
- D. Maximum Body Pressure: 10 psi.
- E. Output Pressure Range: 1 inch wc to 80 inch wc.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that excavations are to required grade, dry, and not over-excavated.

3.02 PREPARATION

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and dirt, on inside and outside, before assembly.
- C. Prepare piping connections to equipment with flanges or unions.

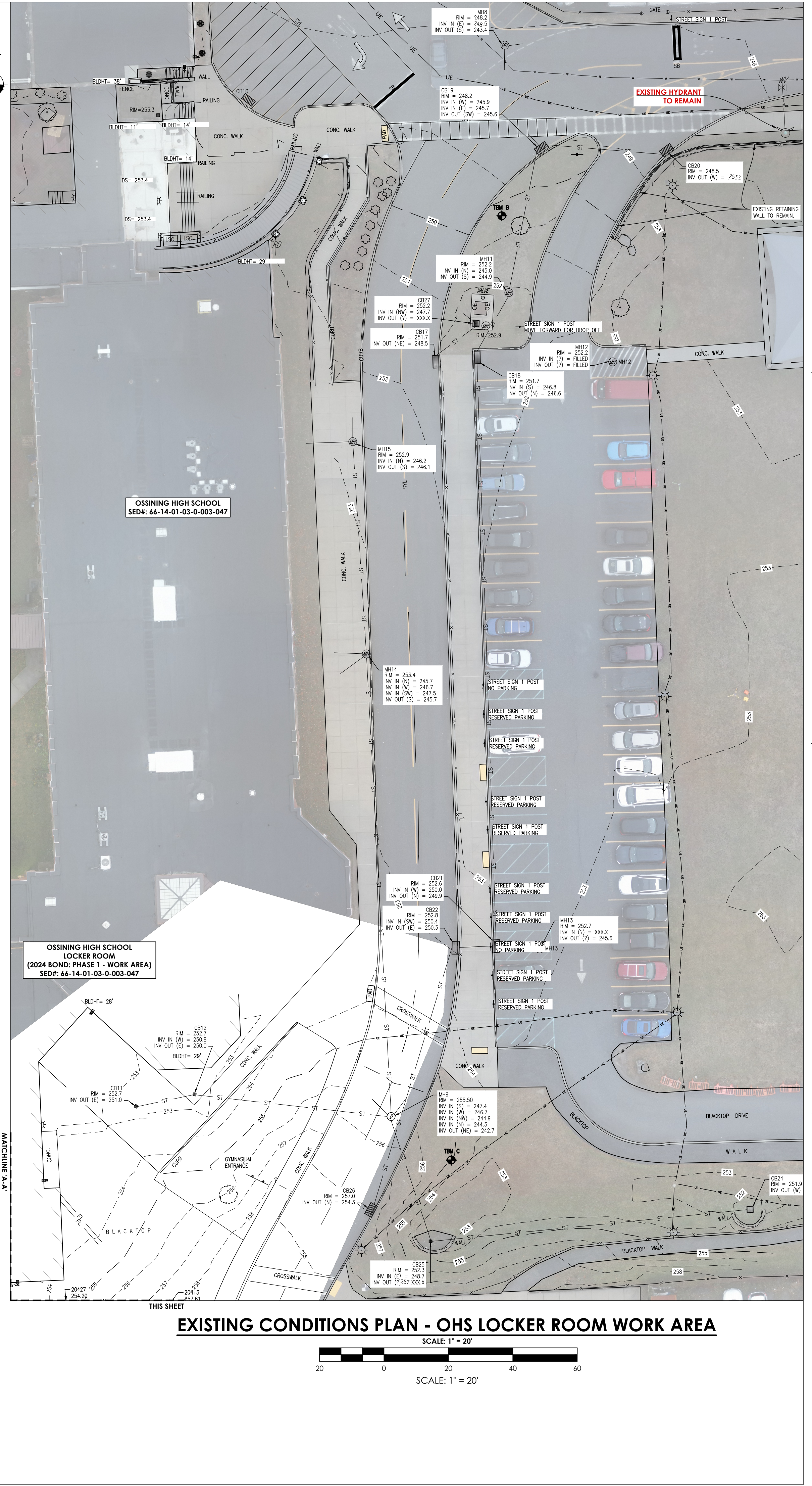
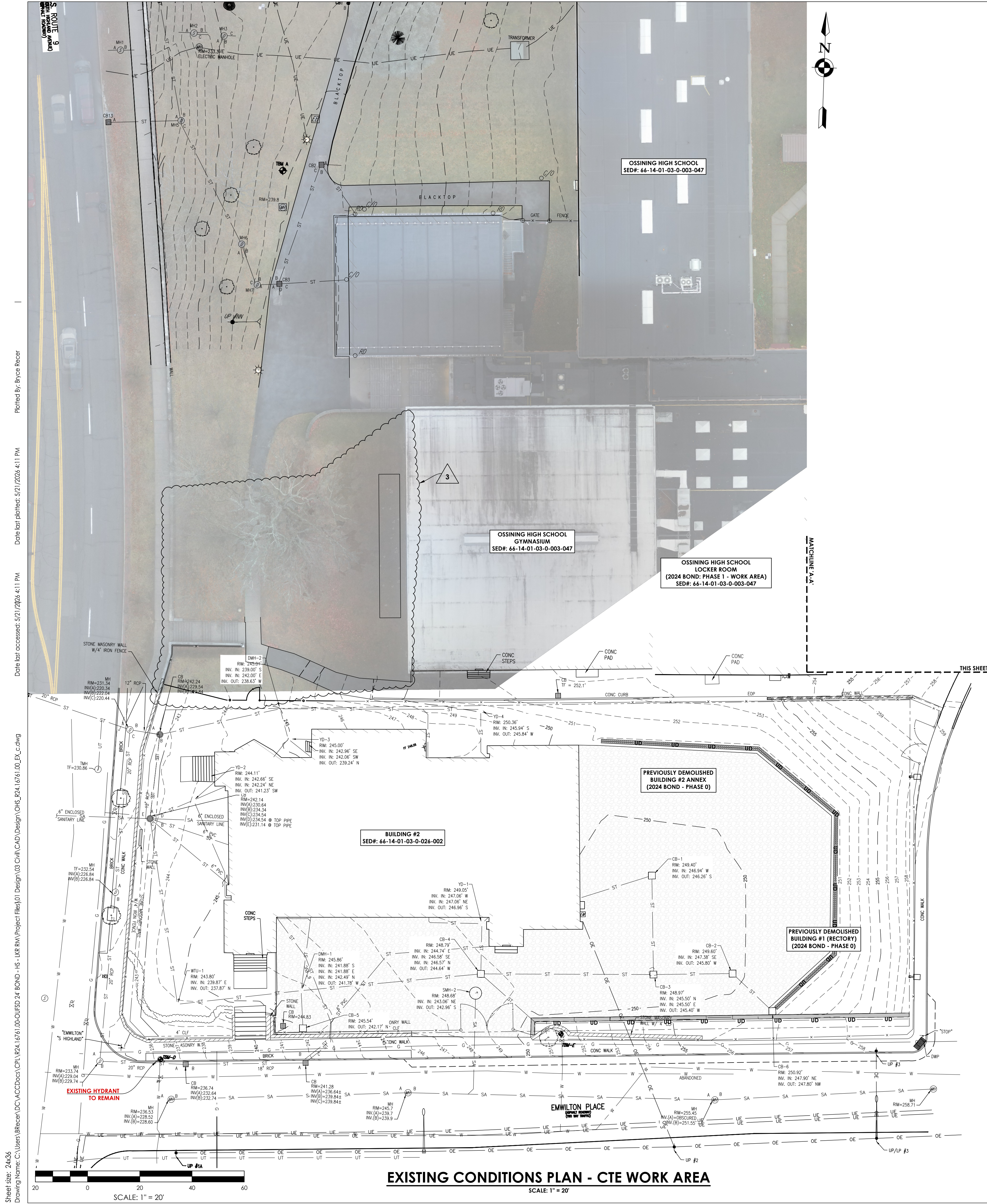
3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
 - B. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
 - C. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.
 - D. Install piping to maintain headroom, conserve space, and not interfere with use of space.
 - E. Group piping whenever practical at common elevations.
 - F. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment. See Section 230516.
 - G. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.
 - H. Provide access where valves and fittings are not exposed.
 - 1. Coordinate size and location of access doors with Section 083100.
 - I. Establish elevations of buried piping outside the building to ensure not less than _____ ft of cover.
 - J. Excavate in accordance with Section 312316.
 - K. Backfill in accordance with Section 312323.
 - L. Install valves with stems upright or horizontal, not inverted.
 - M. Pipe vents from gas pressure reducing valves to outdoors and terminate in weather proof hood.
 - N. Copper Pipe and Tube: Make soldered joints in accordance with ASTM B828, using specified solder, and flux meeting ASTM B813.
-

3.04 APPLICATION

- A. Install unions downstream of valves and at equipment or apparatus connections.
- B. Install brass male adapters each side of valves in copper piped system. Solder adapters to pipe.
- C. Install gate valves for shut-off and to isolate equipment, part of systems, or vertical risers.
- D. Install globe valves for throttling, bypass, or manual flow control services.
- E. Provide plug valves in propane gas systems for shut-off service.

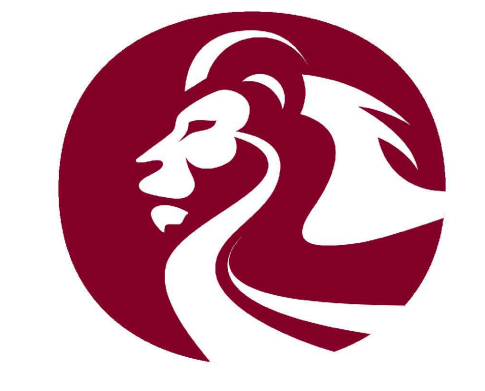
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 Date last modified: 5/21/2026 4:11 PM
 Date last plotted: 5/21/2026 4:11 PM
 Plotted By: Bryce Reor



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OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION
 Project Number: R24.16761.00
 Client Name: OSSINING UNION FREE SCHOOL DISTRICT
 Project Name: 2024 BOND: PHASE 1

Project Address: 29 S HIGHLAND AVE, OSSINING NY 10562

OSSINING UNION FREE SCHOOL DISTRICT
 OSSINING HIGH SCHOOL SED# NO. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
3	05/21/2026	ADDENDUM 03

PROFESSIONAL STAMPS

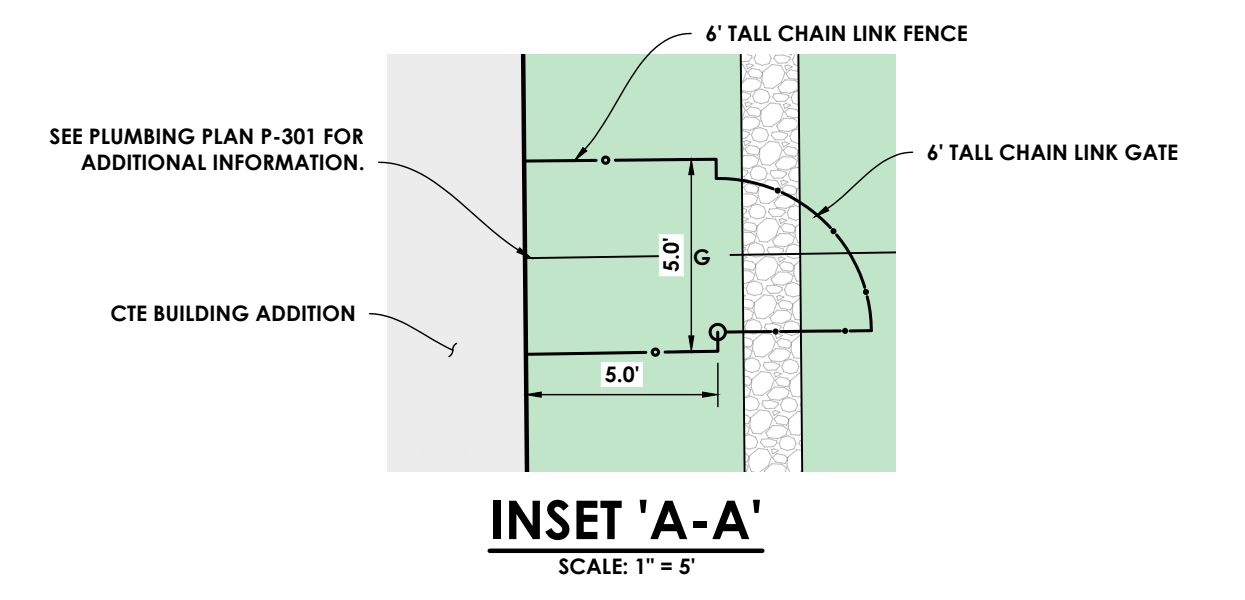
SHEET INFORMATION
 Issued: 04/27/2026
 Scale: AS NOTED
 Project Status: BID DOCUMENTS
 Drawn By: BGR
 Checked By: JCB
 Drawing Title: EXISTING CONDITIONS PLAN - WORK AREA

Drawing Number: OHS C101

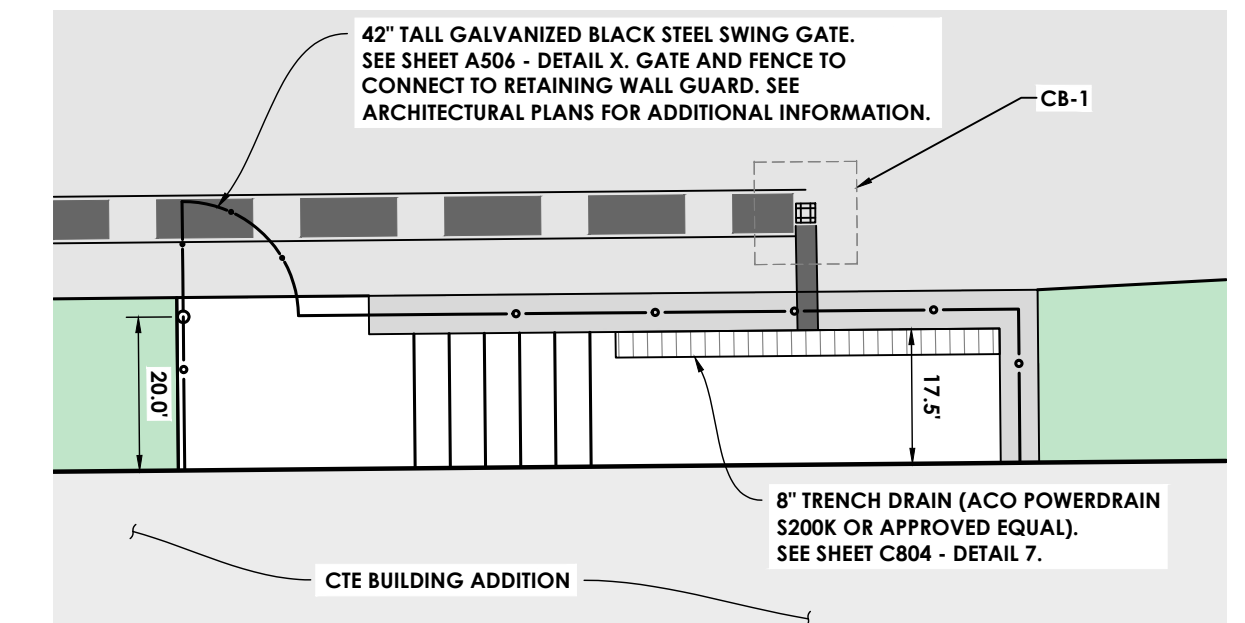


LOCKER ROOM & CTE ADDITION - NEW WORK SITE PLAN

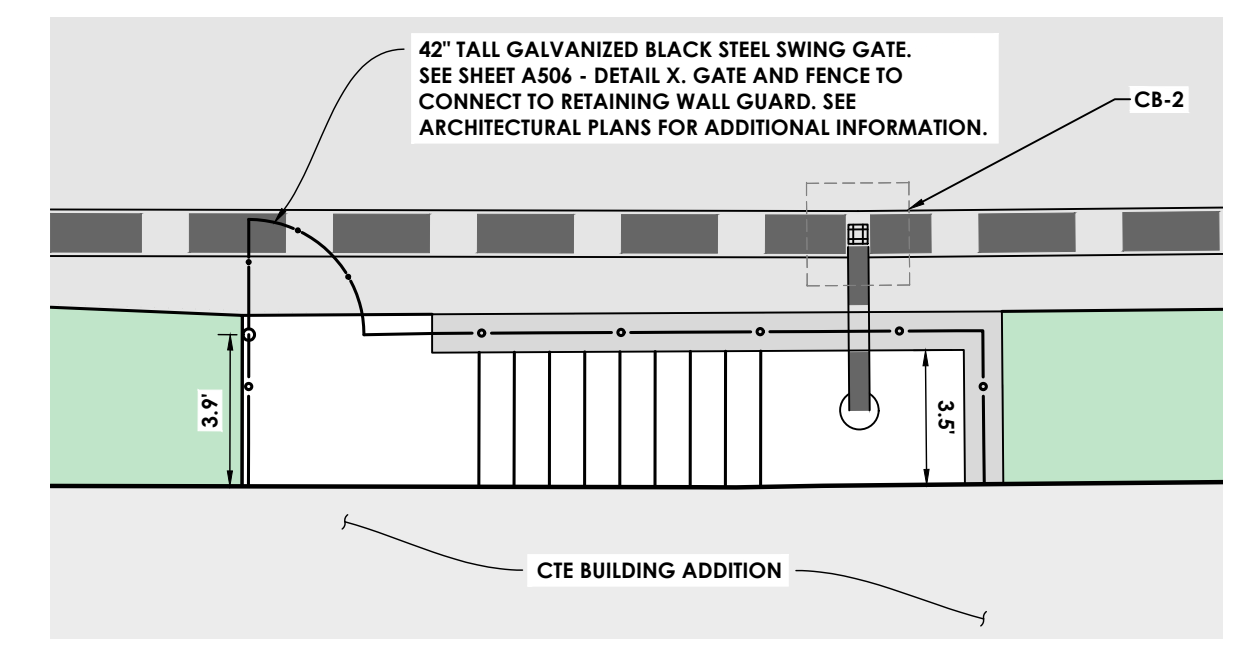
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INSET 'A-A'
SCALE: 1" = 5'



INSET 'B-B'
SCALE: 1" = 5'



INSET 'C-C'
SCALE: 1" = 5'



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NY ENGINEERING #1964 CEB#1647E #0021419



OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION
Project Number: R24.16761.00
Client Name: **OSSINING UNION FREE SCHOOL DISTRICT**
Project Name: **2024 BOND: PHASE 1**

Project Address: 29 S HIGHLAND AVE, OSSINING NY 10562

OSSINING UNION FREE SCHOOL DISTRICT
OSSINING HIGH SCHOOL, SED#: 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
1	5/15/2024	ADDENDUM 02
2	5/21/2024	ADDENDUM 03

PROFESSIONAL STAMPS

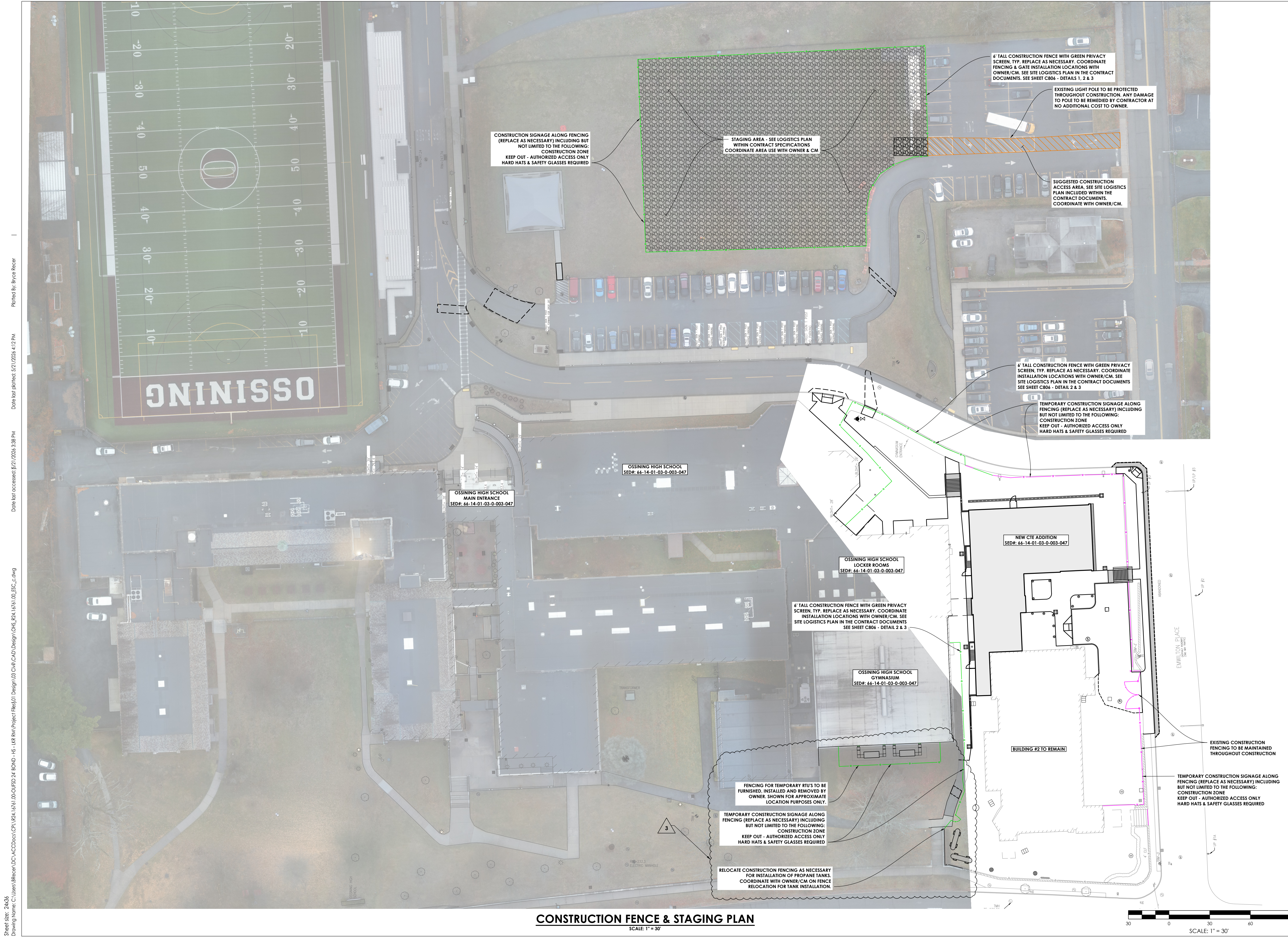
NEW YORK STATE EDUCATION STATEMENT
I, the undersigned, being a duly licensed architect under the laws of the State of New York, do hereby certify that I am the author of the design and construction documents herein, that I am a duly licensed architect under the laws of the State of New York, and that I am not providing my services as an architect to any other person or entity in connection with the project described herein.

SHEET INFORMATION

Issued	04/27/2026	Scale	AS NOTED
Project Status	BID DOCUMENTS	Drawn By	BGR
Checked By	JCB	Drawing Title	SITE PLAN - WORK AREA

Drawing Number
OHS C201

Sheet Size: 24x36
 Drawing Name: C:\Users\BReece\OneDrive\Documents\BOND-HS-LR\RMV\Project\Files\01 Design\03 CMT\CAD\Design\CHS_R24.16761.00_01_C.dwg
 Date last accessed: 5/21/2024 3:24 PM
 Date last plotted: 5/21/2024 4:12 PM
 Plotted By: Bryce Reece



CONSTRUCTION SIGNAGE ALONG FENCING (REPLACE AS NECESSARY) INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
CONSTRUCTION ZONE
KEEP OUT - AUTHORIZED ACCESS ONLY
HARD HATS & SAFETY GLASSES REQUIRED

STAGING AREA - SEE LOGISTICS PLAN WITHIN CONTRACT SPECIFICATIONS
COORDINATE AREA USE WITH OWNER & CM

4' TALL CONSTRUCTION FENCE WITH GREEN PRIVACY SCREEN, TYP. REPLACE AS NECESSARY. COORDINATE FENCING & GATE INSTALLATION LOCATIONS WITH OWNER/CM. SEE SITE LOGISTICS PLAN IN THE CONTRACT DOCUMENTS. SEE SHEET C806 - DETAILS 1, 2 & 3

EXISTING LIGHT POLE TO BE PROTECTED THROUGHOUT CONSTRUCTION. ANY DAMAGE TO POLE TO BE REMEDIED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

SUGGESTED CONSTRUCTION ACCESS AREA. SEE SITE LOGISTICS PLAN INCLUDED WITHIN THE CONTRACT DOCUMENTS. COORDINATE WITH OWNER/CM.

4' TALL CONSTRUCTION FENCE WITH GREEN PRIVACY SCREEN, TYP. REPLACE AS NECESSARY. COORDINATE INSTALLATION LOCATIONS WITH OWNER/CM. SEE SITE LOGISTICS PLAN IN THE CONTRACT DOCUMENTS SEE SHEET C806 - DETAIL 2 & 3

TEMPORARY CONSTRUCTION SIGNAGE ALONG FENCING (REPLACE AS NECESSARY) INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
CONSTRUCTION ZONE
KEEP OUT - AUTHORIZED ACCESS ONLY
HARD HATS & SAFETY GLASSES REQUIRED

OSSINING HIGH SCHOOL
SED#: 66-14-01-03-0-003-047

OSSINING HIGH SCHOOL
MAIN ENTRANCE
SED#: 66-14-01-03-0-003-047

OSSINING HIGH SCHOOL
LOCKER ROOMS
SED#: 66-14-01-03-0-003-047

4' TALL CONSTRUCTION FENCE WITH GREEN PRIVACY SCREEN, TYP. REPLACE AS NECESSARY. COORDINATE INSTALLATION LOCATIONS WITH OWNER/CM. SEE SITE LOGISTICS PLAN IN THE CONTRACT DOCUMENTS SEE SHEET C806 - DETAIL 2 & 3

OSSINING HIGH SCHOOL
GYMNASIUM
SED#: 66-14-01-03-0-003-047

NEW CTE ADDITION
SED#: 66-14-01-03-0-003-047

FENCING FOR TEMPORARY RTU'S TO BE FURNISHED, INSTALLED AND REMOVED BY OWNER. SHOWN FOR APPROXIMATE LOCATION PURPOSES ONLY.

TEMPORARY CONSTRUCTION SIGNAGE ALONG FENCING (REPLACE AS NECESSARY) INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
CONSTRUCTION ZONE
KEEP OUT - AUTHORIZED ACCESS ONLY
HARD HATS & SAFETY GLASSES REQUIRED

RELOCATE CONSTRUCTION FENCING AS NECESSARY FOR INSTALLATION OF PROPANE TANKS. COORDINATE WITH OWNER/CM ON FENCE RELOCATION FOR TANK INSTALLATION.

EXISTING CONSTRUCTION FENCING TO BE MAINTAINED THROUGHOUT CONSTRUCTION

TEMPORARY CONSTRUCTION SIGNAGE ALONG FENCING (REPLACE AS NECESSARY) INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
CONSTRUCTION ZONE
KEEP OUT - AUTHORIZED ACCESS ONLY
HARD HATS & SAFETY GLASSES REQUIRED

CONSTRUCTION FENCE & STAGING PLAN

SCALE: 1" = 30'



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NY ENGINEERING FIRM CERTIFICATE #0021419



OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION
Project Number
R24.16761.00
Client Name
OSSINING UNION FREE SCHOOL DISTRICT
Project Name
2024 BOND: PHASE 1

Project Address
29 E HIGHLAND AVE,
OSSINING NY 10562

OSSINING UNION FREE SCHOOL DISTRICT
OSSINING HIGH SCHOOL SED# 66-14-01-03-003-047

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
1	04/27/2026	ISSUED FOR BIDDING
2	05/15/2026	ADDENDUM 02
3	05/21/2026	ADDENDUM 03

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATUTE
I, the undersigned, being a duly licensed Architect under the Education Law and the Commissioner's Regulations and being duly sworn, depose and say that I am the author of the design and drawings herein shown, and that I am a duly licensed Architect under the Education Law and the Commissioner's Regulations and that I am the duly authorized signatory for the purposes of this statute and the date of such signature, and a true and correct copy of the design and drawings herein shown is being furnished to the Board of Education and the Board of Regents of the State of New York.

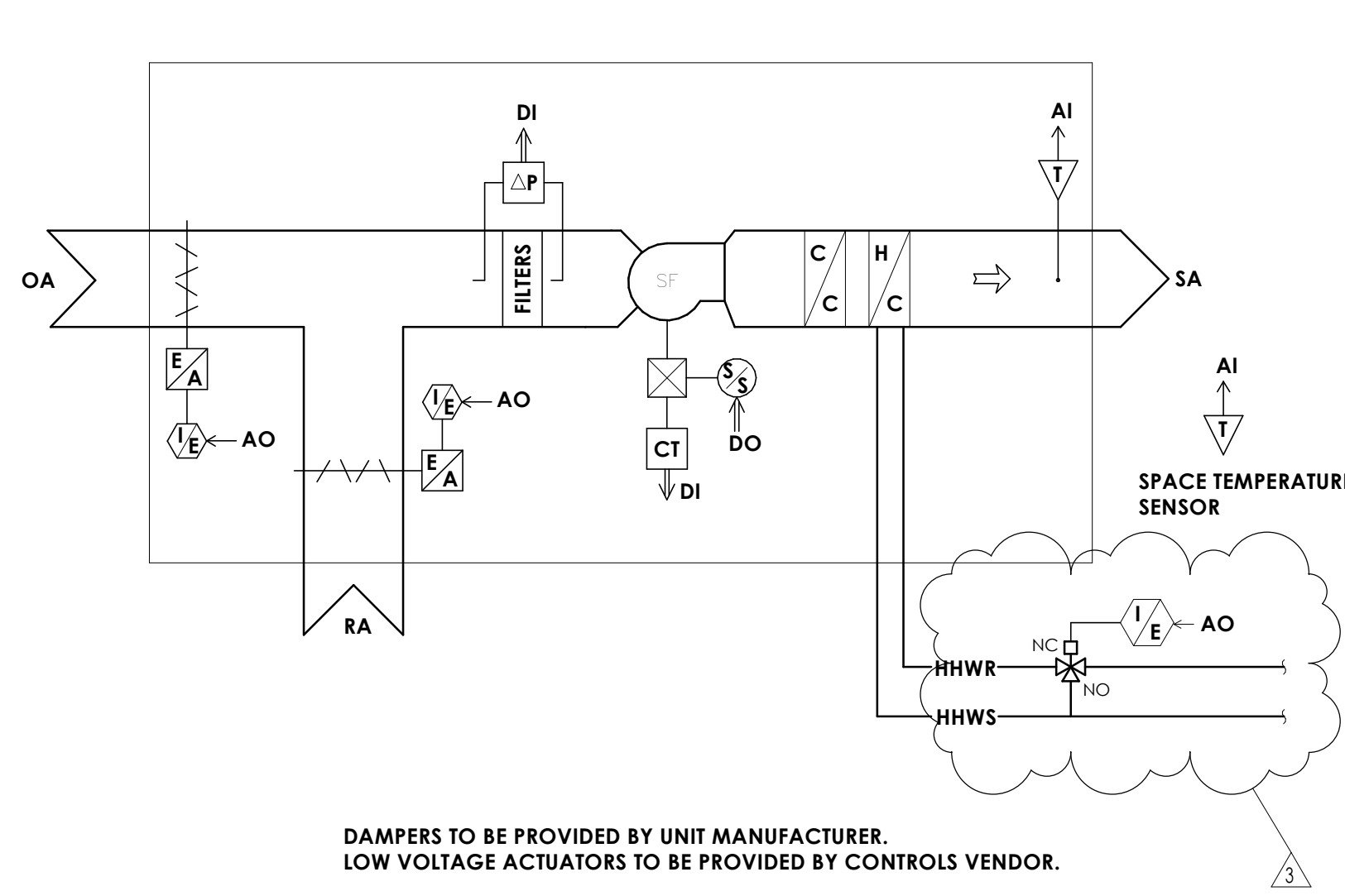
SHEET INFORMATION

Issued	04/27/2026	Scale	AS NOTED
Project Status	BID DOCUMENTS	Drawn By	BGR
Checked By	JCB	Drawing Title	CONSTRUCTION FENCING & STAGING PLAN

CONSTRUCTION FENCING & STAGING PLAN

Drawing Number
**OHS
C206**

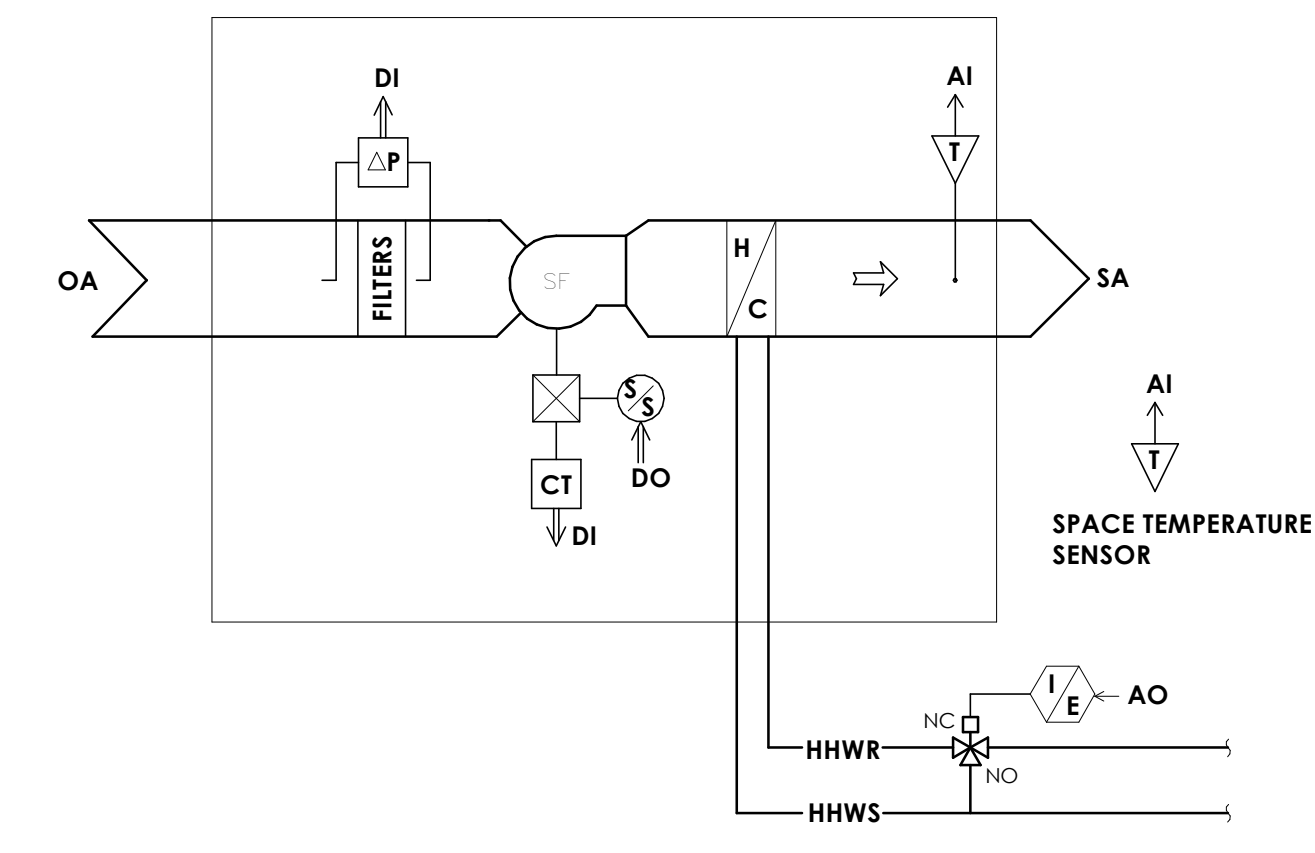
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 Date last accessed: 6/21/2026 3:38 PM
 Date last plotted: 5/21/2026 4:12 PM
 Plotted By: Bryce Recew



DAMPERS TO BE PROVIDED BY UNIT MANUFACTURER.
LOW VOLTAGE ACTUATORS TO BE PROVIDED BY CONTROLS VENDOR.

1 BLOWER COIL CONTROLS DIAGRAM
H500 12" = 1'-0"

- A. HYDRONIC FAN COIL UNIT:**
1. ASSIGN EACH FAN COIL UNIT A STAGGER START NUMBER TO KEEP TOO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS.
 2. WARM-UP MODE CONTROL:
 - a. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE.
 - b. DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT WILL BE LINEARLY RAMPED UP FROM UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET-POINT.
 - c. WHEN THE HEATING SET-POINT CROSSES ABOVE THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL REMAIN IN THE FULL RETURN AIR POSITION AND THE HEATING VALVE WILL MODULATE TO MAINTAIN HEATING SET-POINT.
 3. OCCUPIED MODE:
 - a. SUPPLY FAN:
 - 1) ENABLE CONTINUOUSLY.
 - b. MIXED AIR DAMPER:
 - 1) OPEN TO MAINTAIN OUTSIDE AIR QUANTITY AS SCHEDULED.
 - c. OCCUPIED HEATING MODE (OAT IS ABOVE 55°F AND SPACE TEMPERATURE BELOW SET POINT)
 - 1) MODULATE HEATING HOT WATER COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT AND MINIMUM DISCHARGE AIR SET POINT.
 - a. MINIMUM LEAVING AIR TEMPERATURE RESET SCHEDULE:
 - 95 DEGREE LAT AT 0 DEGREE OAT,
 - 55 DEGREE LAT AT 55 DEGREE OAT.
 4. UNOCCUPIED MODE:
 - a. SUPPLY FAN:
 - 1) START 2°F BELOW HEATING SET POINT AND STOP (1°F ABOVE HEATING SET POINT) TO MAINTAIN SPACE TEMPERATURE SET POINT.
 - b. MIXED AIR DAMPER:
 - 1) FULLY RETURN AIR POSITION.
 - c. OUTSIDE AIR DAMPER:
 - 1) FULLY CLOSED.
 - d. HOT WATER COIL CONTROL VALVE:
 - 1) SAME AS OCCUPIED MODE.
 5. ALARMS - PROVIDE AN ALARM FOR EACH OF THE FOLLOWING:
 - a. FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON.
 - b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OFF.
 - c. SOFTWARE SAFETY TRIP.
 - d. SOFTWARE SAFETY LOCKOUT (4 SAFETY TRIPS IN 3 HOURS).
 - e. LOW OR HIGH DISCHARGE AIR TEMPERATURES.
 - f. LOW OR HIGH SPACE TEMPS.



2 CABINET UNIT HEATER CONTROLS DIAGRAM
H500 12" = 1'-0"

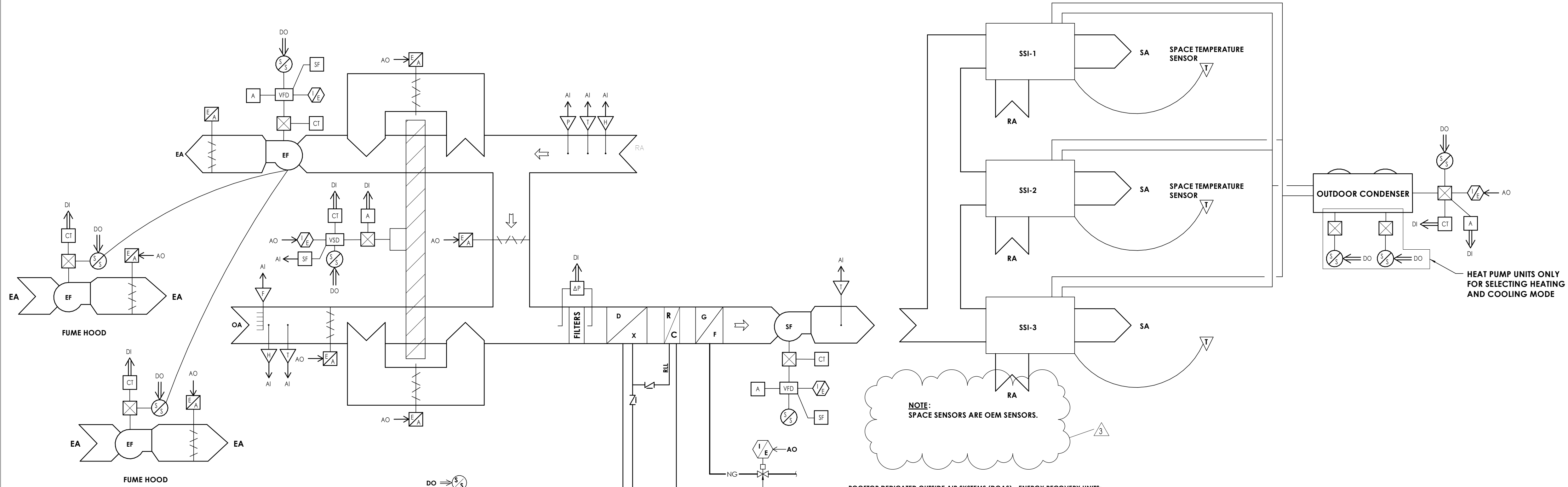
- A. HYDRONIC CABINET UNIT HEATERS:**
1. OCCUPIED MODE:
 - a. FAN SHALL BE ON AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE HEATING SET POINT 4°F (ADJ.).
 2. UNOCCUPIED MODE:
 - a. FAN SHALL BE ON AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN THE NIGHT SPACE TEMPERATURE HEATING SET POINT 55°F (ADJ.).
 3. ALARMS
 - a. SPACE TEMPERATURE HIGH/LOW LIMITS.
 - b. DIRTY FILTER.
 - c. FAN FAILURE.

GENERAL NOTES

1. SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATION, ARE GENERAL IN NATURE AND MAY NOT FULLY DEFINE EVERY ASPECT OF PROGRAMMING THAT MAY BE FULLY REQUIRED TO FULFILL THE DESIGN INTENT. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND HARDWARE NECESSARY TO OBTAIN THE SEQUENCES SYSTEM OPERATION INDICATED, RESULTING IN STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS.
2. HVAC CONTROL SEQUENCES:
 - A. GENERAL
 1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE.
 2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY.
 3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH OWNER.
 4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATION(S) AND DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING ALARMS ON THE OWNER COORDINATED DEVICES AND REQUIRE THE ALARM TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT.
 5. ALL HVAC EQUIPMENT SHALL OPERATE IN THE OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE BDC BUILDING TIME CLOCK SYSTEM. OBTAIN THE BUILDING OCCUPANCY SCHEDULE FROM THE OWNER.
 6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS.
 7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP TOO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY POWER.
 8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF ONE-HOUR (ADJUSTABLE).
 9. UNIVERSAL SET POINTS: UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS.

OCCUPIED MODES	UNOCCUPIED MODES	COOLING HEATING	COOLING HEATING
OCCUPIED SPACES	75	70	85
UNOCCUPIED SPACES	80	60	85

REFRIGERANT LEAK DETECTION SEQUENCE
1. IF THE FACTORY INSTALLED REFRIGERANT LEAK DETECTION SENSOR AND CONTROL BOARD DETECTS REFRIGERANT CONCENTRATION ABOVE 25% OF THE ASHRAE STANDARD 34 LISTED LOWER FLAMMABILITY LIMIT (LFL), THE OUTDOOR UNIT COMPRESSOR SHALL BE COMMANDED OFF AND THE UNIT SUPPLY FANS SHALL BE COMMANDED ON AT 100% CAPACITY. ONCE THE REFRIGERANT CONCENTRATION FALLS BELOW 25% OF THE LFL, MAINTAIN FAN SPEEDS FOR 5 ADDITIONAL MINUTES. UNIT WILL REMAIN IN A HARD LOCKOUT UNTIL MANUAL RESET.



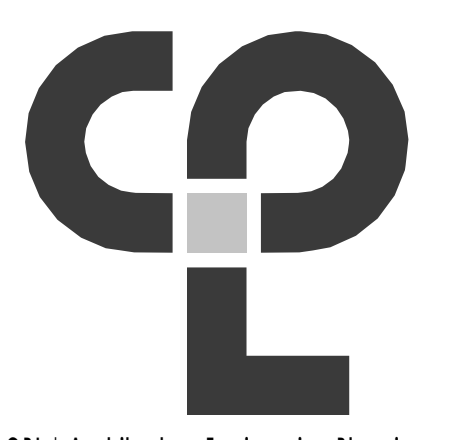
NOTE: SPACE SENSORS ARE OEM SENSORS.

ROOFTOP DEDICATED OUTSIDE AIR SYSTEMS (DOAS) - ENERGY RECOVERY UNITS:

1. OCCUPIED
 - A. THE BMS WILL START THE UNIT SUPPLY AND RELIEF/EXHAUST FANS BASED ON A TIME-OF-DAY SCHEDULE. THE FANS WILL BE ENERGIZED CONTINUOUSLY WHENEVER THE ZONE IS SCHEDULED TO BE OCCUPIED. THE OUTSIDE AIR DAMPERS SHALL OPEN TO PROVIDE THE MINIMUM REQUIRED OUTSIDE AIR TO MEET THE VOLUMETRIC FLOW RATES INDICATED ON THE VENTILATION SCHEDULE. THE RELIEF AIR VENTILATOR DAMPER SHALL INDEX OPEN TO MATCH THE POSITION OF THE OUTSIDE AIR DAMPER TO EQUALIZE THE VOLUME OF RELIEF AIR WITH THE VOLUME OF OUTSIDE AIR. THE BMS WILL MONITOR THE DISCHARGE AIR TEMPERATURE.
 - B. THE INTEGRAL HEAT PUMP WILL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT.
 - C. THE INTEGRAL NATURAL GAS CONTROL VALVE WILL BE FULLY CLOSED. THE OUTSIDE AIR TEMPERATURE DROPS BELOW 13 DEGREES TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT.
 - D. THE INTEGRAL AIR-COOLED CONDENSER WILL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.
- E. IF THE CONNECTED SPACES ARE CALLING FOR COOLING, AND THE BMS INDICATES THAT ECONOMIZER OPERATION IS APPROPRIATE, THE BYPASS DAMPERS WILL MODULATE OPEN TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE NATURAL GAS HEATING COIL VALVE WILL BE FULLY CLOSED. THE OUTSIDE AIR DAMPER WILL BE RESTRICTED TO LIMIT THE MINIMUM DISCHARGE AIR TEMPERATURE TO A SETPOINT OF 55 DEGREES F (ADJUSTABLE) WHILE THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT.
- F. IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT OF 75 DEGREES F (ADJUSTABLE), AND THE BMS INDICATES THAT ECONOMIZER OPERATION IS NOT APPROPRIATE, THE OUTSIDE AIR DAMPERS WILL MODULATE CLOSE TO MINIMUM POSITION AND COOLING WILL BE ENABLED.
- G. ECONOMIZER OPERATION SHALL USE AN ALGORITHM COMPARING INDOOR AIR AND OUTDOOR AIR ENTHALPY TO DETERMINE IF COOLING OR ASSISTED COOLING IS VIABLE. DX COOLING AND ECONOMIZER COOLING WILL BE ALLOWED TO OPERATE SIMULTANEOUSLY IF THE ALGORITHM CONFIRMS ASSISTED COOLING IS VIABLE.
- H. ENERGY RECOVERY WHEEL CONTROL
 - 1) THE ENERGY RECOVERY WHEEL MOTOR WILL BE ENABLED WHENEVER THE SUPPLY AND RETURN/EXHAUST FANS ARE ENABLED EXCEPT AS NOTED HERE:
 - (A) THE ENERGY RECOVERY WHEEL MOTOR SHALL BE DISABLED WHEN THE BMS DETERMINES THAT IT IS BENEFICIAL TO USE ADDITIONAL OUTSIDE AIR FOR COOLING (ECONOMIZER MODE).
 - (B) THE ENERGY RECOVERY WHEEL MOTOR SHALL BE DISABLED FOR TWO MINUTES OUT OF EACH 30 MINUTE PERIOD WHEN THE OUTDOOR AIR TEMPERATURE IS AT OR BELOW ZERO DEGREES F (DEFROST CYCLE).
 - 2) THE BMS WILL MONITOR FAN STATUS AND GENERATE AN ALARM WHENEVER THE FAN IS COMMANDED ON BUT THE STATUS INDICATES OFF. ALARMS WILL ALSO BE GENERATED IF A FREEZE CONDITION EXISTS OR IF A LOW DISCHARGE AIR TEMPERATURE IS DETECTED.
2. DOAS-1 EXHAUST FAN TO MODULATE UP AND DOWN TO MAINTAIN DUCT PRESSURE IN RETURN DUCT TO BALANCE ROOMS WHEN FUME HOODS ARE ON.
 - A. WHEN THE ZONE IS SCHEDULED TO BE UNOCCUPIED, THE FANS WILL BE DISABLED, AND THE OUTSIDE AIR DAMPER WILL BE CLOSED.
3. ALARMS
 - A. FAN FAILURE
 - 1) IF STATUS OF A FAN, WHICH HAS BEEN CALLED BY THE BMS SYSTEM TO START, HAS NOT BEEN VERIFIED AS RUNNING WITHIN A PERIOD OF 10 SECONDS (ADJ.), AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION. THE FAN SHALL BE IDENTIFIED BY A DESCRIPTION OF WHAT IT SERVES, AND SHALL BE TAGGED AS A "FAN FAILURE".
 - B. LOW LIMIT THERMOSTAT
4. REFRIGERANT LEAK DETECTION
 - A. IF THE FACTORY INSTALLED REFRIGERANT LEAK DETECTION SENSOR AND CONTROL BOARD DETECTS REFRIGERANT CONCENTRATION ABOVE 25% OF THE ASHRAE STD. 34 LISTED LOWER FLAMMABILITY LIMIT (LFL), THE OUTDOOR UNIT COMPRESSORS SHALL BE COMMANDED OFF AND THE UNIT SUPPLY FANS SHALL BE COMMANDED ON AT 100% CAPACITY. ONCE THE REFRIGERANT CONCENTRATION FALLS BELOW 25% OF THE LFL, MAINTAIN FAN SPEEDS FOR 5 ADDITIONAL MINUTES. UNIT WILL REMAIN IN A HARD LOCKOUT UNTIL MANUAL RESET.

1. VRF FAN-COIL UNITS
 - A. OCCUPIED MODE:
 1. SUPPLY FAN:
 - A.1.1. ENABLE CONTINUOUSLY
 2. HEATING MODE:
 - A.2.1. ENABLE THE VRF HEAT PUMP WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SET POINT.
 3. COOLING MODE:
 - A.3.1. ENABLE THE VRF CONDENSER WHEN THE SPACE TEMPERATURE FALLS ABOVE THE HEATING SET POINT.
 - B. UNOCCUPIED MODE:
 1. SUPPLY FAN:
 - B.1.1. START (2 DEGREES BELOW UNOCCUPIED HEATING SET POINT) AND STOP (1 DEGREE ABOVE UNOCCUPIED HEATING SET POINT) TO MAINTAIN SPACE TEMPERATURE SET POINT.
 2. SAME AS OCCUPIED.
 3. COOLING MODE:
 - B.3.1. SAME AS OCCUPIED.
 - C. ALARMS:
 - C.1. LOW OR HIGH SPACE TEMPERATURES.
2. REFRIGERANT LEAK DETECTION
 - A. IF THE FACTORY INSTALLED REFRIGERANT LEAK DETECTION SENSOR AND CONTROL BOARD DETECTS REFRIGERANT CONCENTRATION ABOVE 25% OF THE ASHRAE STD. 34 LISTED LOWER FLAMMABILITY LIMIT (LFL), THE OUTDOOR UNIT COMPRESSORS SHALL BE COMMANDED OFF AND THE UNIT SUPPLY FANS SHALL BE COMMANDED ON AT 100% CAPACITY. ONCE THE REFRIGERANT CONCENTRATION FALLS BELOW 25% OF THE LFL, MAINTAIN FAN SPEEDS FOR 5 ADDITIONAL MINUTES. UNIT WILL REMAIN IN A HARD LOCKOUT UNTIL MANUAL RESET.

3 DOAS-1, SSI-1-3, EF-2 CONTROLS DIAGRAM
H500 12" = 1'-0"



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OSSENING UNION FREE SCHOOL DISTRICT

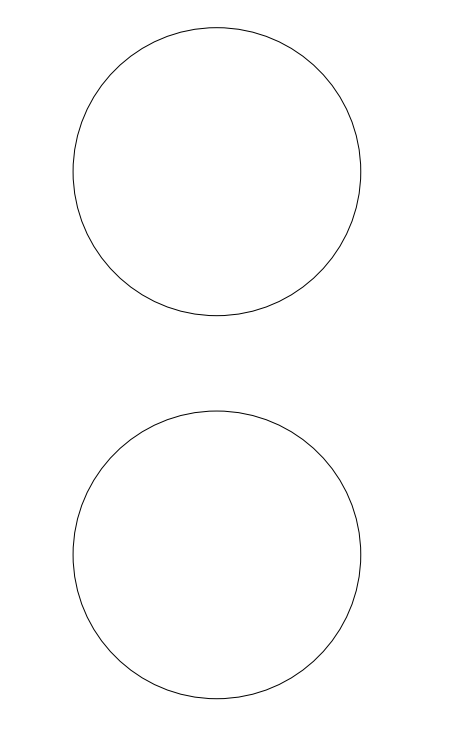
PROJECT INFORMATION
Project Number: R24.16761.00
Client Name: OSSENING UNION FREE SCHOOL DISTRICT
Project Name: 2024 BOND: PHASE 1

OSSENING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
Project Address: 29 S HIGHLAND AVE, OSSENING, NY 10562

OSSENING UNION FREE SCHOOL DISTRICT
OSSENING HIGH SCHOOL SED NO. 66-1401-03-0-003-047

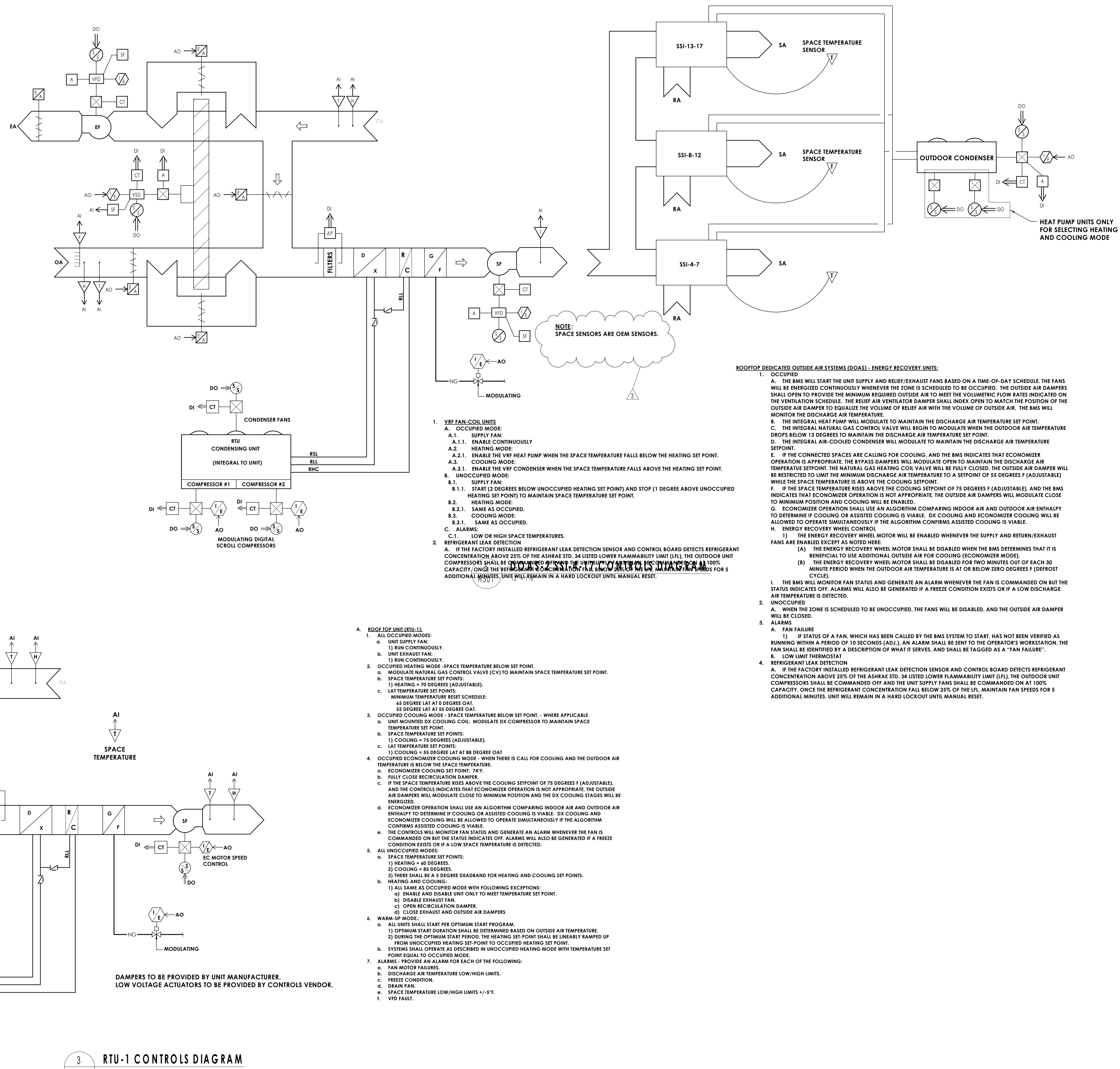
PROJECT ISSUE & REVISION SCHEDULE
3 05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



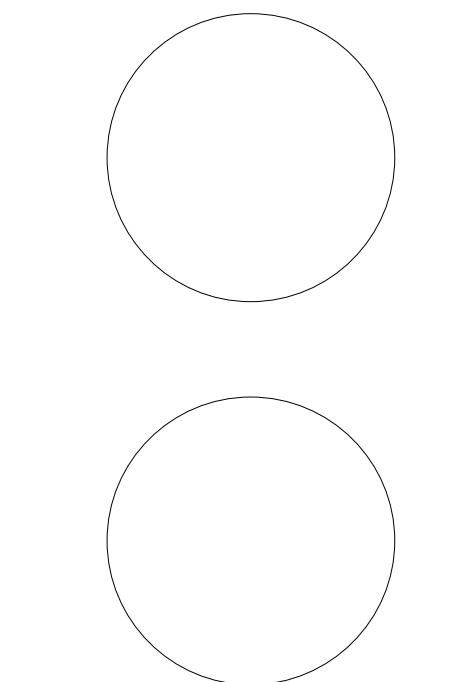
SHEET INFORMATION
Issued: 04/27/2026
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: AJE
Checked By: BKM
Drawing Title: MECHANICAL CONTROLS DIAGRAMS

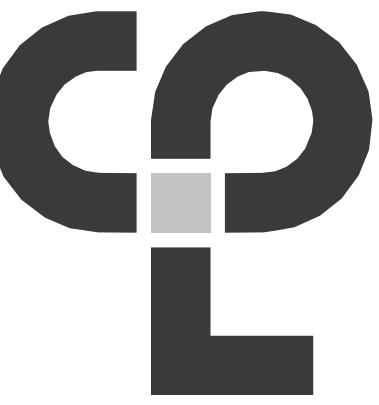
Drawing Number: HS H500



5/21/2026 2:18:22 PM PROJECT: FRESO, A.C.C.

3 RTU-1 CONTROLS DIAGRAM
H501 12" = 1'-0"





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NY ENGINEERING FIRM CERTIFICATE #0021419



OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.16761.00

Client Name
OSSINING UNION FREE SCHOOL DISTRICT

Project Name
2024 BOND: PHASE 1

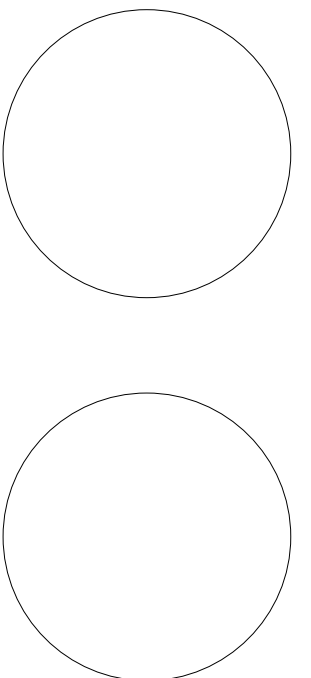
OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
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OSSINING UNION FREE SCHOOL DISTRICT
OSSINING HIGH SCHOOL SED NO. 66-1401-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
3	05/20/2026	BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



NEW YORK STATE REGISTRATION INFORMATION:
IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMPASSIONATE REGULATION FOR ANY PROFESSION, LICENSEE UNDER THE REGULATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ADOPT AN SEAL OR ANY SEAL, BEARING THE SEAL OF ANY PROFESSION, LICENSEE OR OTHERWISE, IS OBSERVED, THE BOARD OF REGISTRATION OF THE NEW YORK STATE ARCHITECTURE BOARD SHALL BE ADVISED BY THE ARCHITECT, ENGINEER OR LAND SURVEYOR OF THE VIOLATION, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

SHEET INFORMATION

Issued 04/27/2026 Scale 12" = 1'-0"

Project Status

BID DOCUMENTS

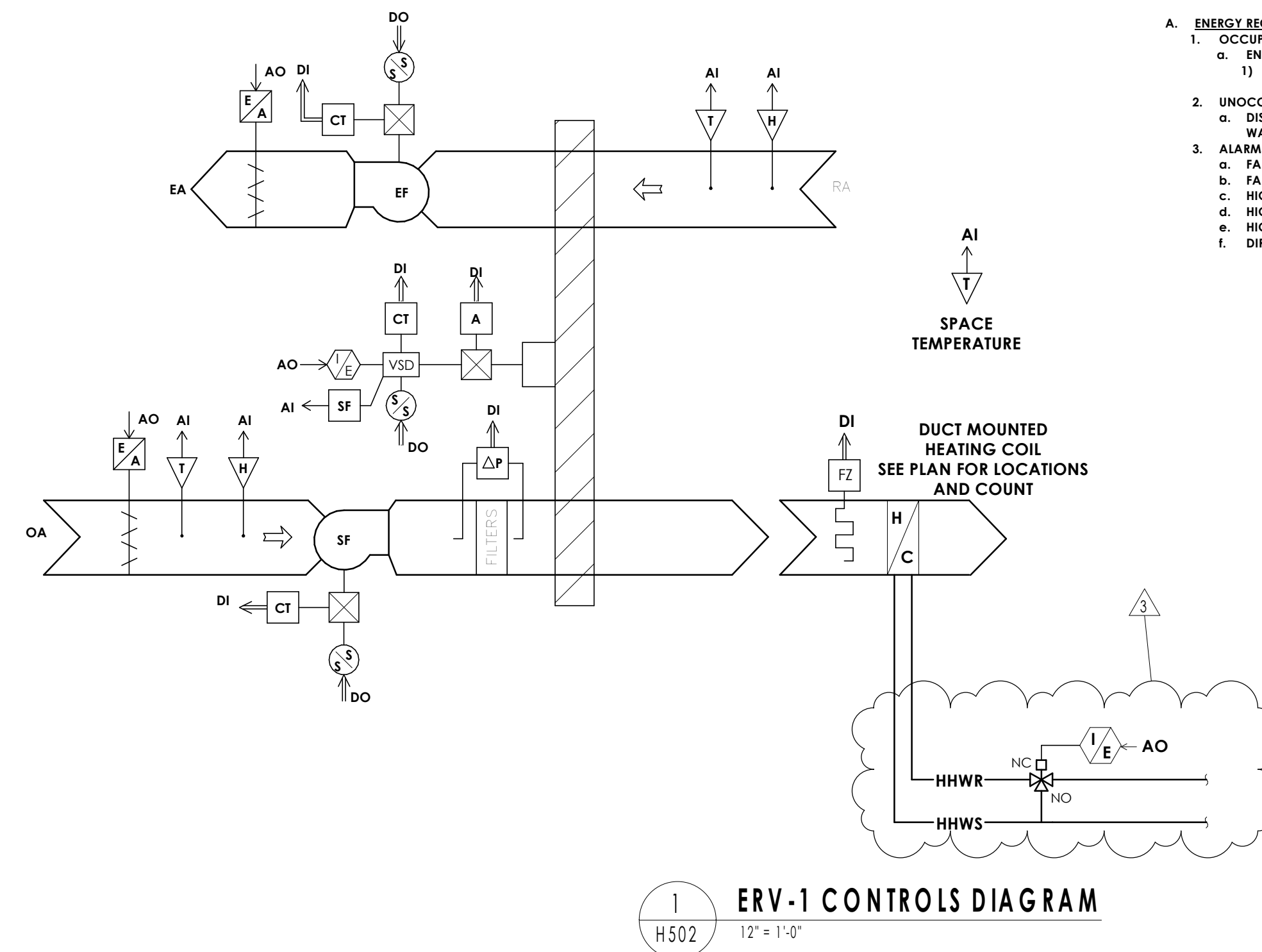
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Drawing Title

MECHANICAL CONTROLS DIAGRAMS

Drawing Number

HS
H502



LABORATORY FUME HOOD EF-3

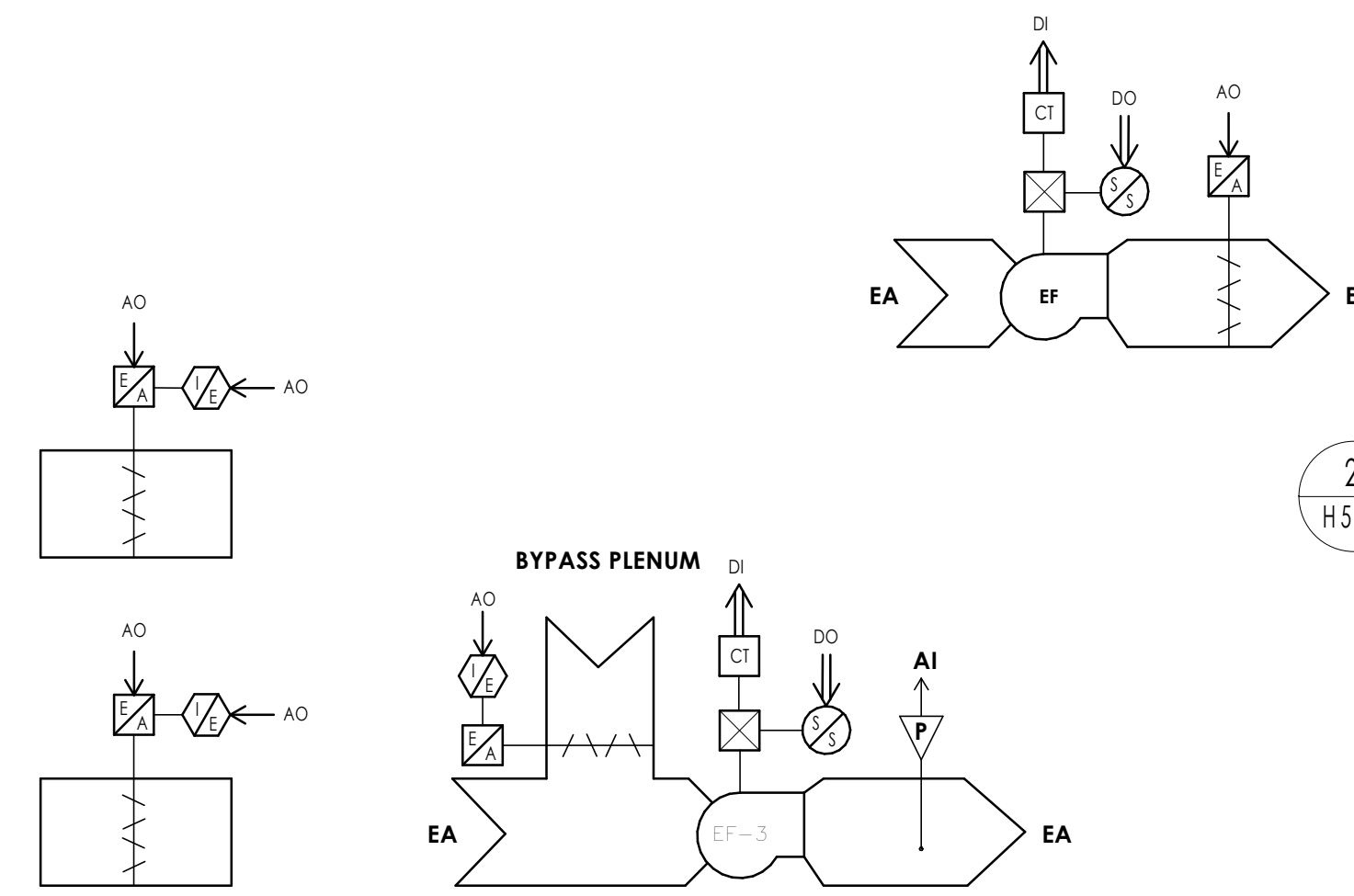
UPON ACTIVATION OF ANY OF THE 3 CONNECTED FUME HOODS, EF-3 SHALL BE COMMANDED ON.

THE BYPASS DAMPER WILL MODULATE TO MAINTAIN PRESSURE IN THE DUCTWORK.

FAN SHALL DEACTIVATE WHEN ALL 3 FUME HOODS ARE TURNED OFF.

LABORATORY FUME HOOD CONTROL:

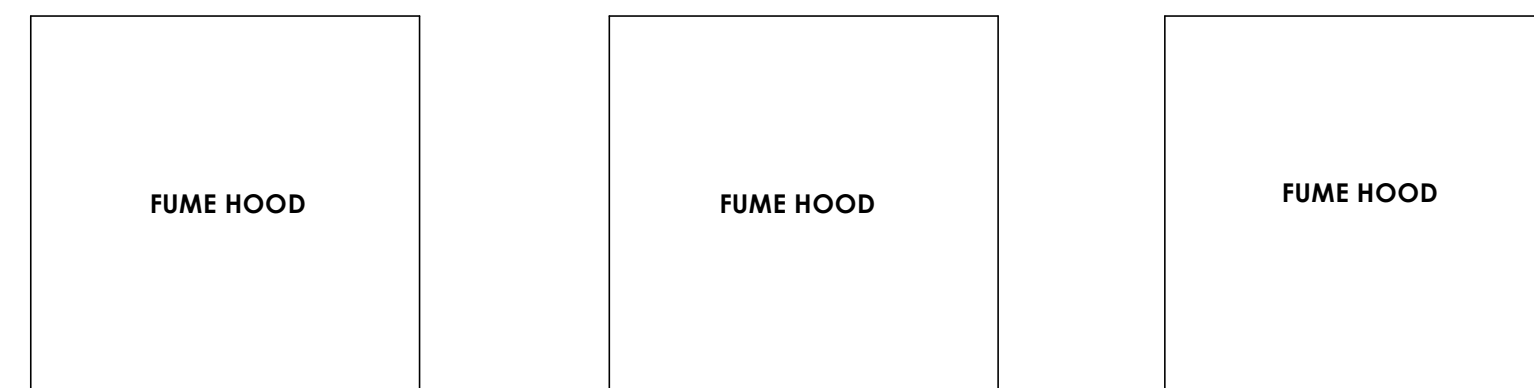
HYBRID CONTROL: THE FUME HOOD CONTROL SYSTEM (FCS) USES A SASH POSITION SENSOR AND A SIDEWALL VELOCITY SENSOR TOGETHER TO CONTROL THE FACE VELOCITY OF THE FUME HOOD. WHEN A USER MOVES THE FUME HOOD SASH, THE SASH POSITION SENSOR MEASURES THE HEIGHT OF THE VERTICAL FUME HOOD SASH. THE FCS WILL CALCULATE THE CORRECT AIRFLOW TO RESULT IN THE TARGET FACE VELOCITY AND WILL MODULATE THE AIR DEVICE TO THE AIRFLOW TARGET. THE FCS WILL THEN USE THE SIDEWALL VELOCITY SENSOR TO ADJUST THE AIRFLOW UNTIL THE MEASURED FACE VELOCITY MEETS THE TARGET FACE VELOCITY.



2 EXHAUST FAN CONTROLS DIAGRAM
12" = 1'-0"



3 FIN-TUBE CONTROLS DIAGRAM
12" = 1'-0"



4 FUME HOOD EF-3 CONTROLS DIAGRAM
12" = 1'-0"



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NY ENGINEERING FIRM CERTIFICATE #0221419



OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.16761.00

Client Name

OSSINING UNION FREE SCHOOL DISTRICT

Project Name

2024 BOND: PHASE 1

OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
Project Address
29 S HIGHLAND AVE, OSSINING, NY 10562

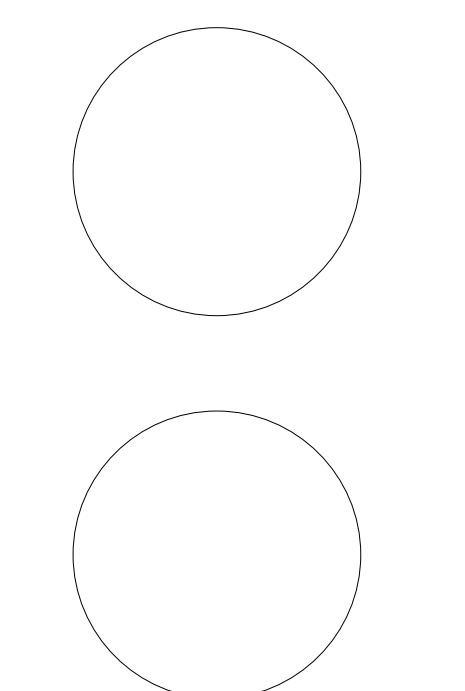
OSSINING UNION FREE SCHOOL DISTRICT

OSSINING HIGH SCHOOL SED NO. 66-1401-20-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

Issue Description
3 05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



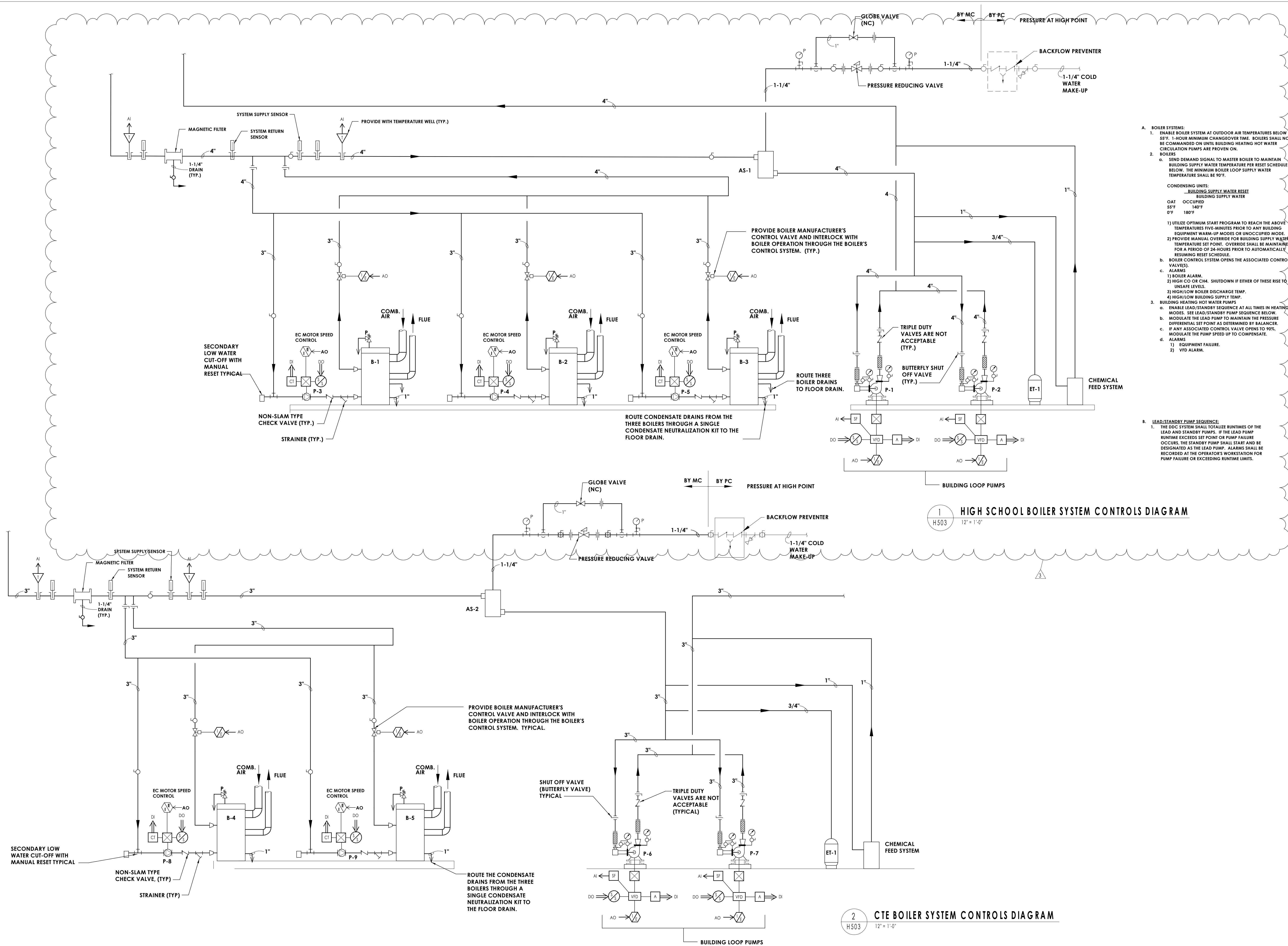
NEW YORK STATE REGISTRATION INFORMATION
IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE EDUCATION LAW REGULATIONS FOR ANY PROFESSION OCCURS UNDER THE PROVISIONS OF THESE ARCHITECT, ENGINEER OR LAND SURVEYOR TO ADD AN FIRM IN ANY WAY, IN ANY STATE, THE BOARD OF ARCHITECTURE, ENGINEERING OR SURVEYING SHALL BE ADVISED BY THE ARCHITECT, ENGINEER OR LAND SURVEYOR AND THE BOARD SHALL BE ADVISED BY THE ARCHITECT, ENGINEER OR LAND SURVEYOR AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

SHEET INFORMATION

Issued 04/27/2026 Scale 12" = 1'-0"
Project Status BID DOCUMENTS
Drawn By AJE Checked By BKM
Drawing Title MECHANICAL CONTROLS DIAGRAMS

Drawing Number

HS
H503



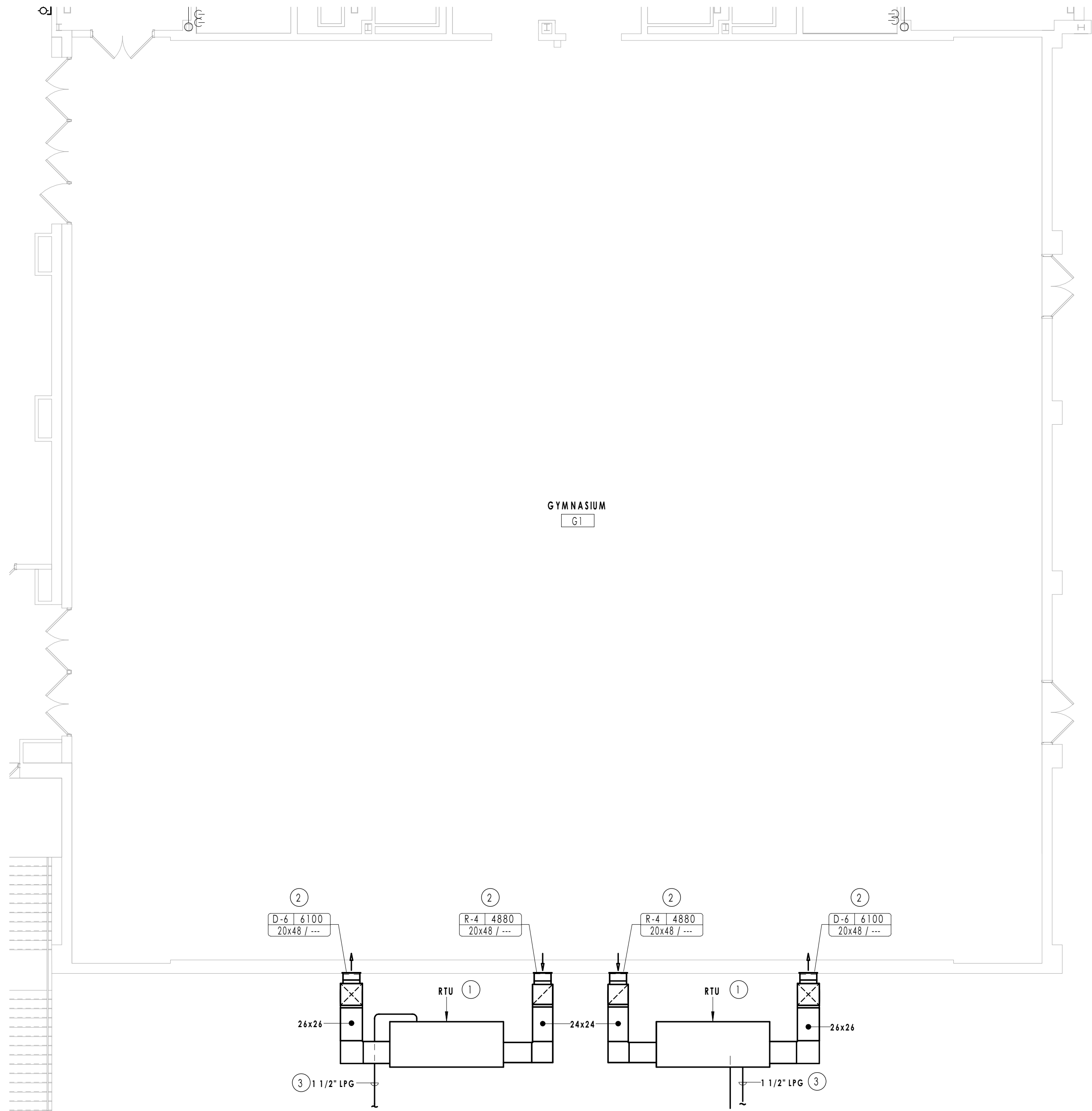
- A. BOILER SYSTEMS:**
1. ENABLE BOILER SYSTEM AT OUTDOOR AIR TEMPERATURES BELOW 50°F. 1-HOUR MINIMUM CHANGE-OVER TIME. BOILERS SHALL NOT BE COMMANDED ON UNTIL BUILDING HEATING HOT WATER CIRCULATION PUMPS ARE PROVEN ON.
 2. BOILERS
 - a. SEND DEMAND SIGNAL TO MASTER BOILER TO MAINTAIN BUILDING SUPPLY WATER TEMPERATURE PER RESET SCHEDULE BELOW. THE MINIMUM BOILER LOOP SUPPLY WATER TEMPERATURE SHALL BE 90°F.
- CONDENSING UNITS:**
- BUILDING SUPPLY WATER RESET
BUILDING SUPPLY WATER
- | | |
|------|----------|
| OAT | OCCUPIED |
| 55°F | 140°F |
| 0°F | 180°F |
- 1) UTILIZE OPTIMUM START PROGRAM TO REACH THE ABOVE TEMPERATURES FIVE-MINUTES PRIOR TO ANY BUILDING EQUIPMENT WARM-UP MODES OR UNOCCUPIED MODE.
 - 2) PROVIDE MANUAL OVERRIDE FOR BUILDING SUPPLY WATER TEMPERATURE SET POINT. OVERRIDE SHALL BE MAINTAINED FOR A PERIOD OF 24-HOURS PRIOR TO AUTOMATICALLY RESUMING RESET SCHEDULE.
- b. BOILER CONTROL SYSTEM OPENS THE ASSOCIATED CONTROL VALVE(S).**
- c. ALARMS
 - 1) BOILER ALARM.
 - 2) HIGH CO OR CH4. SHUTDOWN IF EITHER OF THESE RISE TO UNSAFE LEVELS.
 - 3) HIGH/LOW BOILER DISCHARGE TEMP.
 - 4) HIGH/LOW BUILDING SUPPLY TEMP.
- 3. BUILDING HEATING HOT WATER PUMPS**
- a. ENABLE LEAD/STANDBY SEQUENCE AT ALL TIMES IN HEATING MODES. SEE LEAD/STANDBY PUMP SEQUENCE BELOW.
 - b. MODULATE THE LEAD PUMP TO MAINTAIN THE PRESSURE DIFFERENTIAL SET POINT AS DETERMINED BY BALANCER.
 - c. IF ANY ASSOCIATED CONTROL VALVE OPENS TO 90%, MODULATE THE PUMP SPEED UP TO COMPENSATE.
- d. ALARMS
 - 1) EQUIPMENT FAILURE.
 - 2) VFD ALARM.
- B. LEAD/STANDBY PUMP SEQUENCE:**
1. THE DDC SYSTEM SHALL TOTALIZE RUNTIMES OF THE LEAD AND STANDBY PUMPS. IF THE LEAD PUMP RUNTIME EXCEEDS SET POINT OR PUMP FAILURE OCCURS, THE STANDBY PUMP SHALL START AND BE DESIGNATED AS THE LEAD PUMP. ALARMS SHALL BE RECORDED AT THE OPERATOR'S WORKSTATION FOR PUMP FAILURE OR EXCEEDING RUNTIME LIMITS.

5/21/2026 2:18:33 PM PROJECT FILES ON A.C.C.

REGISTER, GRILLE, AND DIFFUSER SCHEDULE						
TAG	MANUFACTURER	MODEL	APPLICATION	MATERIAL	FINISH	NOTES
D-6	PRICE	900	SUPPLY	STEEL	BLACK	3
R-4	PRICE	90	RETURN	STEEL	BLACK	3

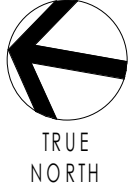
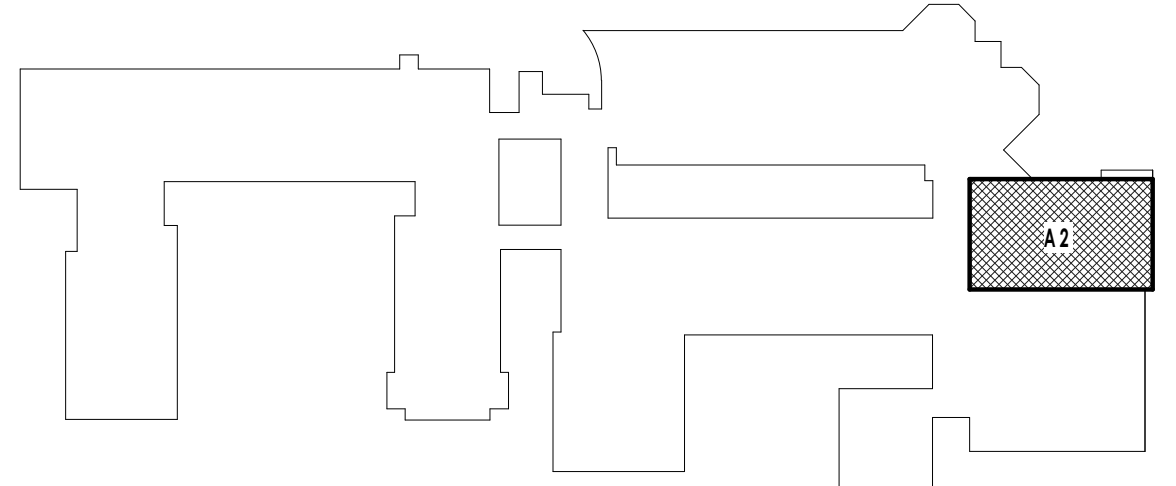
NOTES:

- GENERAL NOTES**
- IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE INSTALLATION OF THE PROPANE TANK WITH PARACO GAS, THE DISTRICTS LOCAL GAS SUPPLIER. M.C SHALL PROVIDE TANK MOUNTING EQUIPMENT, AND REMOVE MOUNTING EQUIPMENT UPON COMPLETION OF PROJECT. SEE C201.
- KEY NOTES**
- REINSTALL EXISTING ROOFTOP UNIT AT GROUND LEVEL ON EXISTING CONCRETE PAD WITH VIBRATION ISOLATORS. PROVIDE ASSOCIATED DUCTWORK AND GRILLES. INSTALL NATURAL GAS TO PROPANE CONVERTER TO BE PROVIDED BY OWNER. MAINTAIN EXISTING CONTROLS.
 - SUPPLY AND RETURN GRILLES TO BE MOUNTED THROUGH EXISTING PUNCHED OUT WINDOW UNITS. REMOVE A PORTION OF THE EXISTING GLAZING AS REQUIRED FOR DUCT PENETRATION.
 - RUN 1-1/2" PROPANE GAS LINES IN PIPE TRENCH TO NEW PROPANE TANKS. FURNISH AND INSTALL ZIMMER Z40 VAPORIZOR WITH TOP OF TANK MOUNTING EQUIPMENT. SEE DRAWING C203 FOR CONTINUATION.



1 GYMNASIUM TEMPORARY NEW WORK PLAN
H702 1/8" = 1'-0"

KEY PLAN:



NEW YORK STATE REGISTRATION STATEMENT

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SHEET INFORMATION	
Issued	Scale
04/27/2026	1/8" = 1'-0"
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
AJE	BKM
Drawing Title	
GYMNASIUM TEMPORARY NEW WORK PLAN	
Drawing Number	
OHS H702	

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NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number: R24.16761.00
Client Name: OSSINING UNION FREE SCHOOL DISTRICT
Project Name: 2024 BOND: PHASE 1

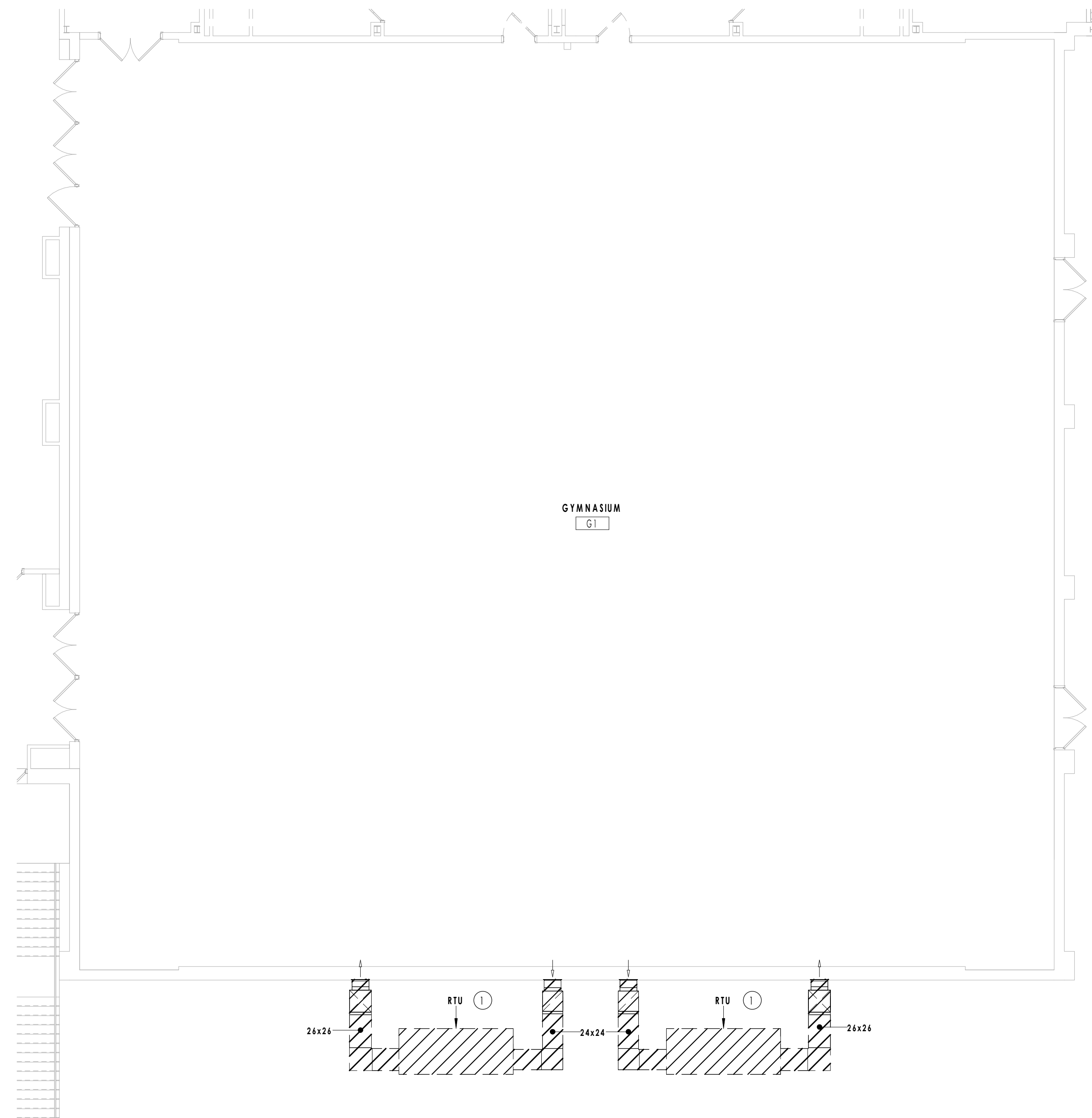
OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
Project Address: 29 S HIGHLAND AVE, OSSINING, NY 10562

OSSINING UNION FREE SCHOOL DISTRICT
OSSINING HIGH SCHOOL SEDS NO. 66-1401-25-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
3	05/20/2026	BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



1 GYMNASIUM TEMPORARY WORK DEMOLITION PLAN
H703 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING ROOFTOP IN ITS ENTIRETY INCLUDING ALL ASSOCIATED DUCTWORK, GRILLES, SUPPORTS, AND CONTROL ACCESSORIES. REINSTALL EXISTING REMOVED GLAZING WHERE GRILLES WERE REMOVED. REMOVE ALL PROPANE PIPING BACK TO PROPANE TANK AND COORDINATE REMOVAL OF TANK WITH PARACO GAS. REMOVE ALL PROPANE TANK MOUNTING ACCESSORIES. SEE C201 AND C203 DRAWINGS.



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NY ENGINEERING FIRM CERTIFICATE #0021419



OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.16761.00

Client Name
OSSINING UNION FREE SCHOOL DISTRICT

Project Name
2024 BOND: PHASE 1

OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION

Project Address
29 S HIGHLAND AVE, OSSINING, NY 10562

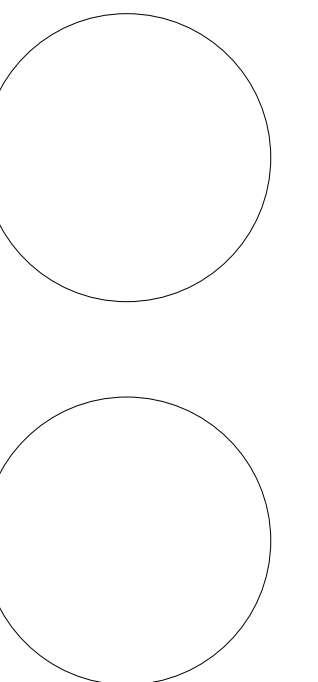
OSSINING UNION FREE SCHOOL DISTRICT

OSSINING HIGH SCHOOL SED NO. 66-1401-25-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
3	05/20/2026	BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



NEW YORK STATE REGISTRATION INFORMATION:
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SHEET INFORMATION

Issued 04/27/2026 Scale 1/8" = 1'-0"

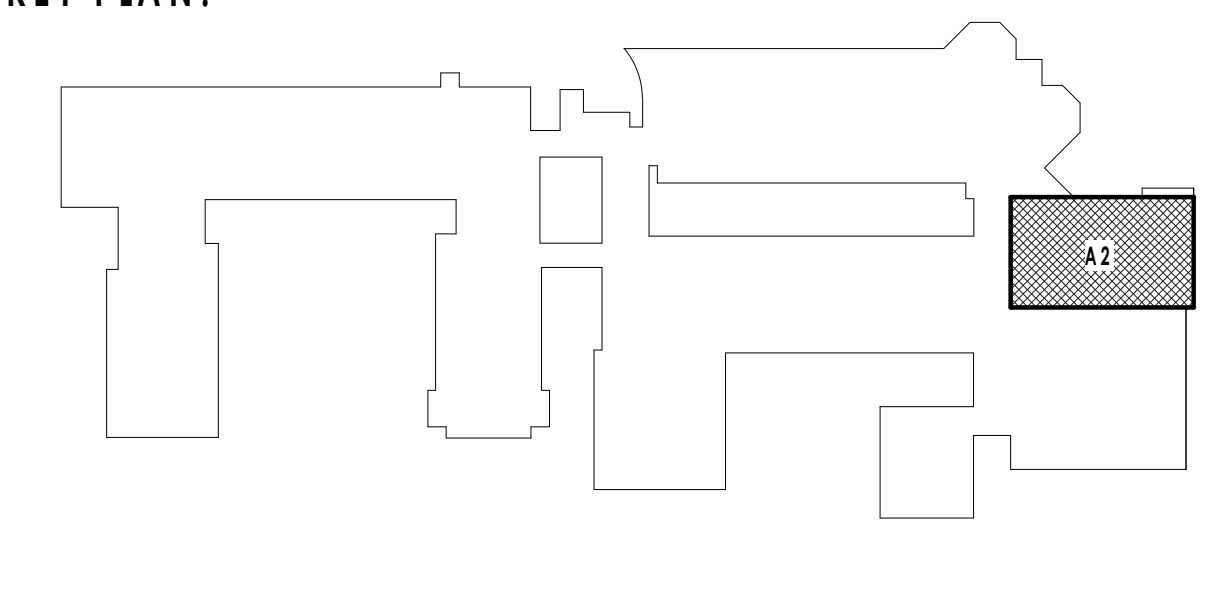
Project Status BID DOCUMENTS

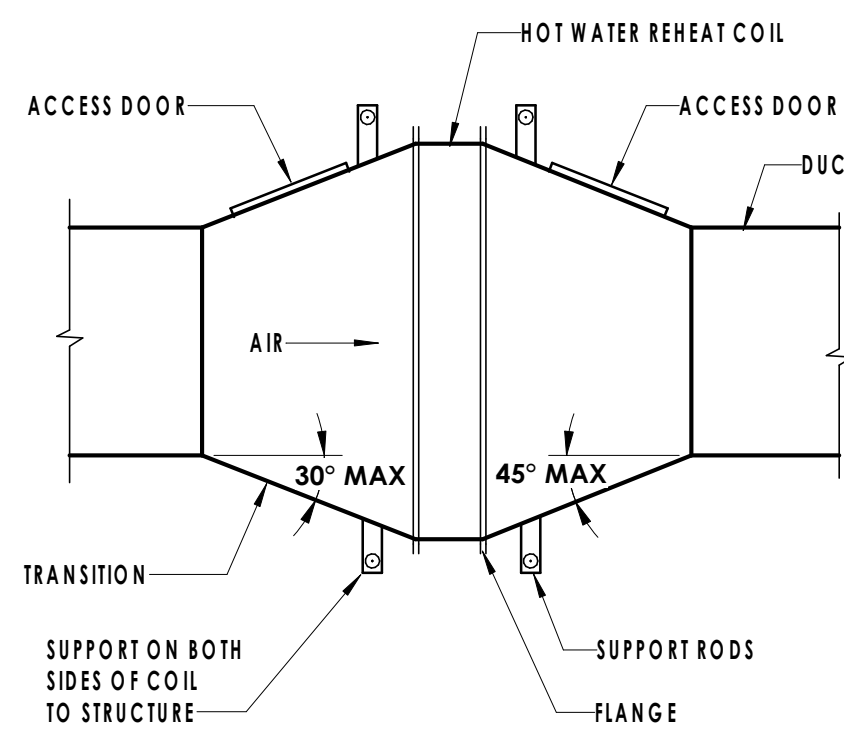
Drawn By AJE Checked By BKM

Drawing Title GYMNASIUM TEMPORARY WORK DEMOLITION PLAN

Drawing Number OHS H703

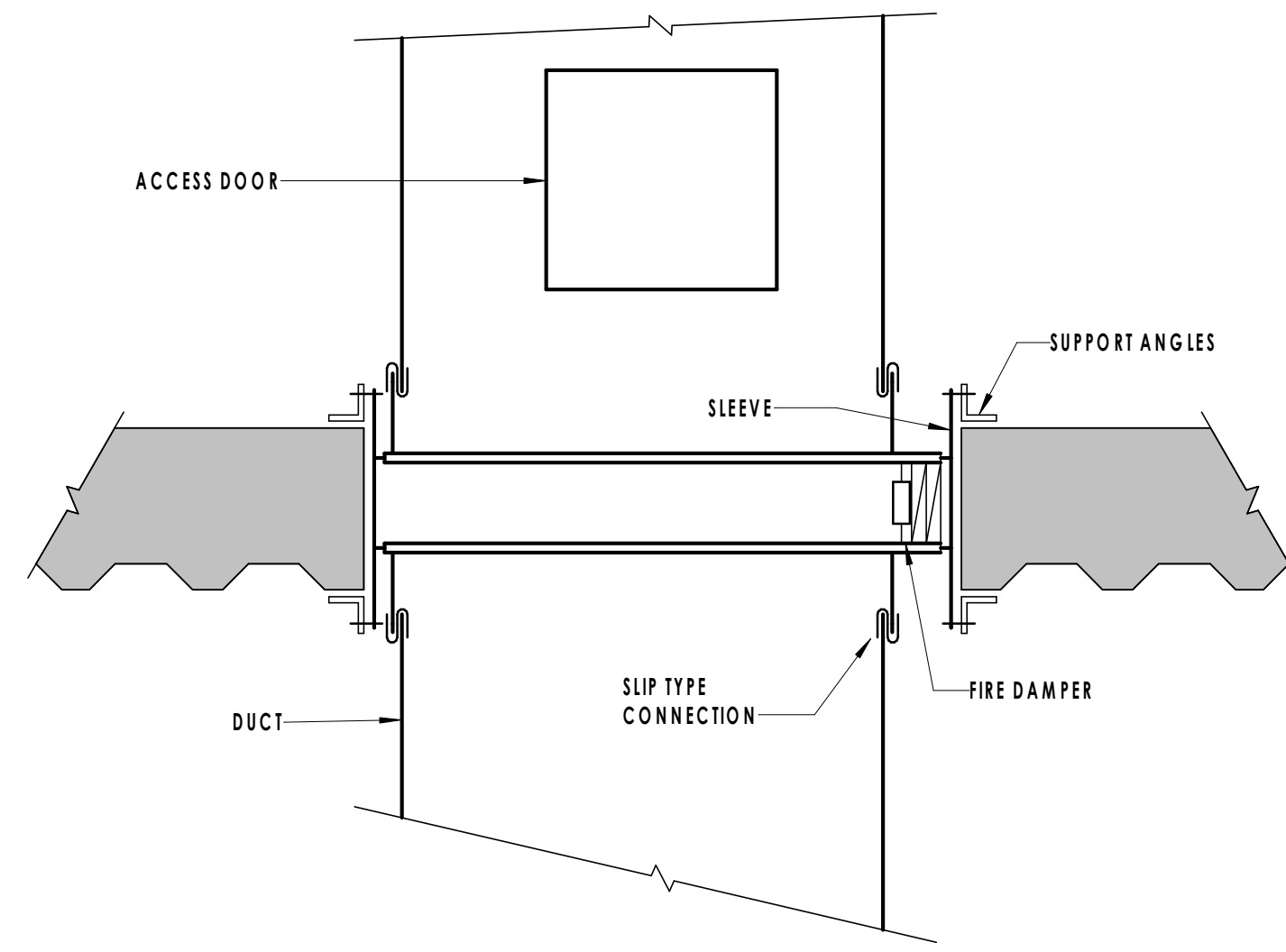
KEY PLAN:



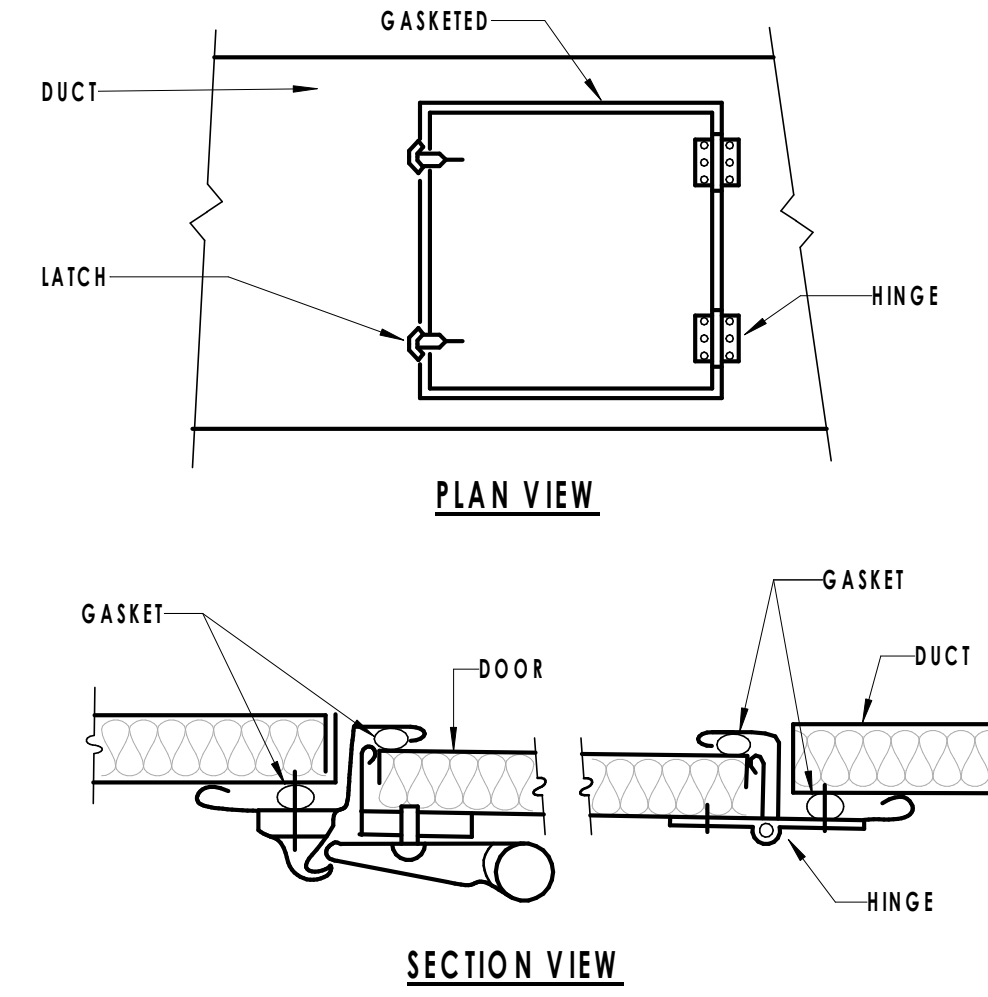


NOTE:
SUPPORT DUCTWORK INDEPENDENTLY OF THE COIL.

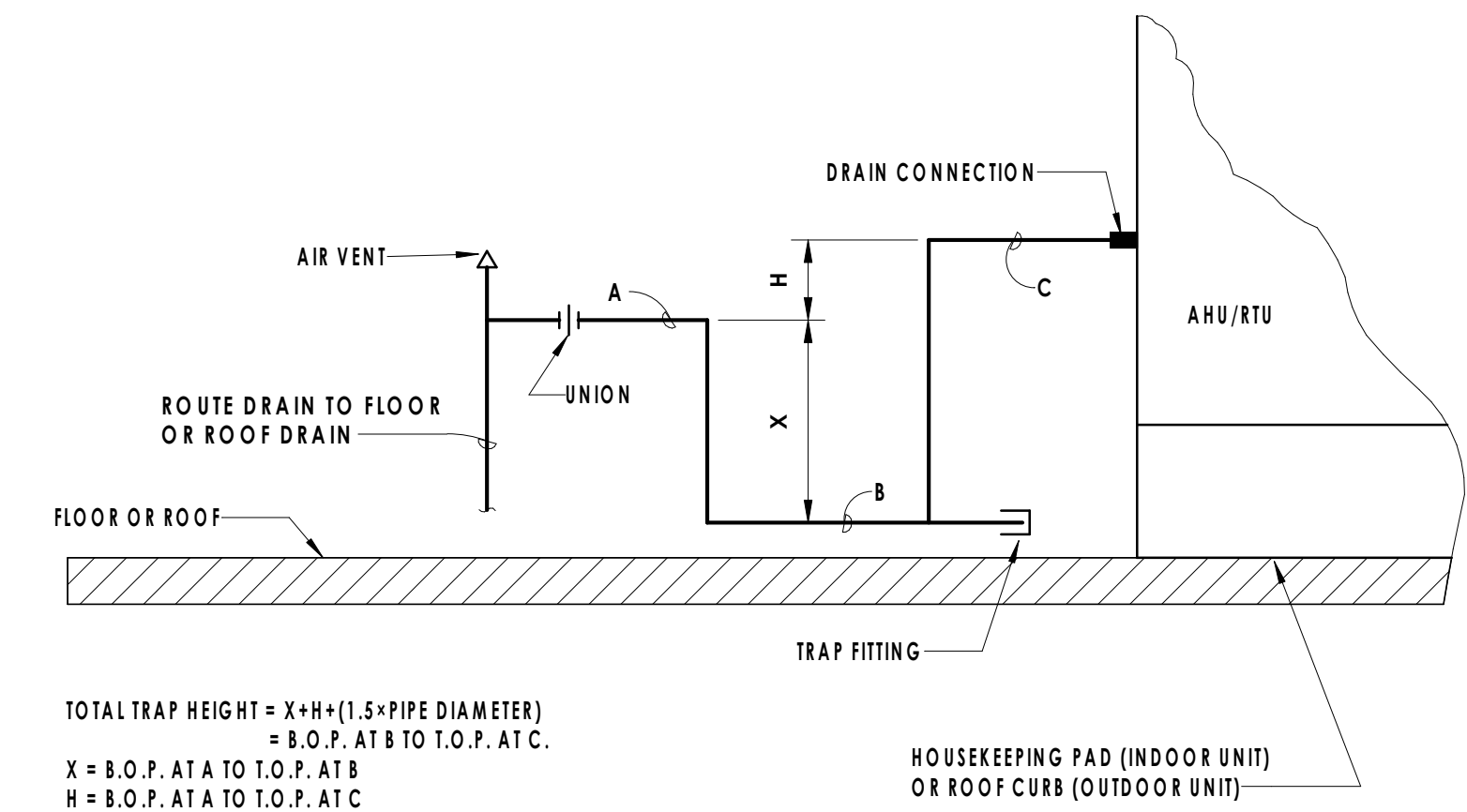
8 REHEAT COIL DETAIL
H800 NOT TO SCALE



6 HORIZONTAL FIRE DAMPER DETAIL
H800 NOT TO SCALE



3 ACCESS DOOR DETAIL
H800 NOT TO SCALE



TOTAL TRAP HEIGHT = $X + H + (1.5 \times \text{PIPE DIAMETER})$
= B.O.P. AT B TO T.O.P. AT C.
 X = B.O.P. AT A TO T.O.P. AT B
 H = B.O.P. AT A TO T.O.P. AT C

POSITIVE STATIC PRESSURES:
 X = AT LEAST 1" PLUS CASING STATIC PRESSURE
 H = AT LEAST 1"

NEGATIVE STATIC PRESSURES:
 X = $1/2 \times H$
 H = AT LEAST 1" PLUS CASING STATIC PRESSURE

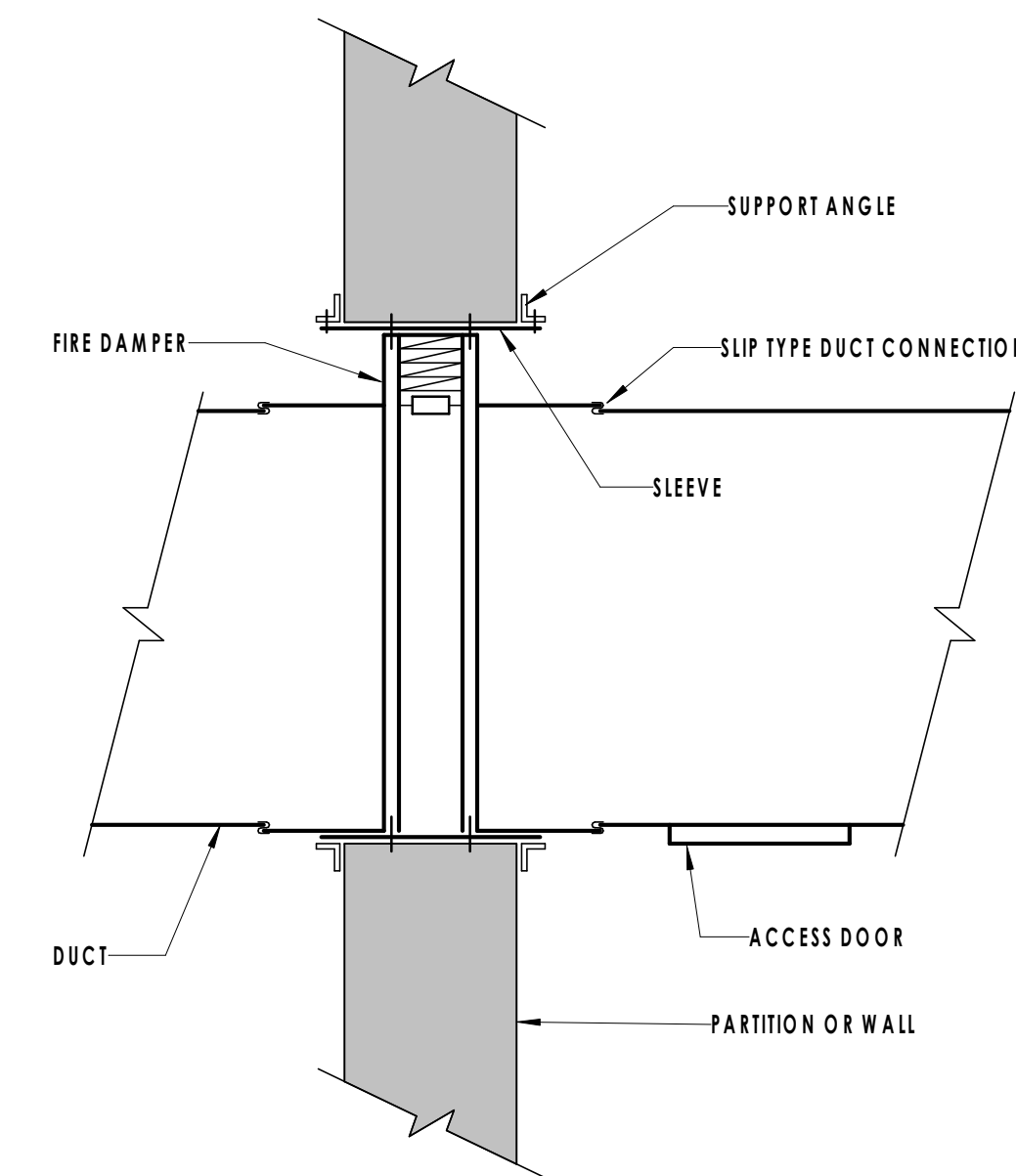
B.O.P. = BOTTOM OF PIPE
T.O.P. = TOP OF PIPE

NOTE:

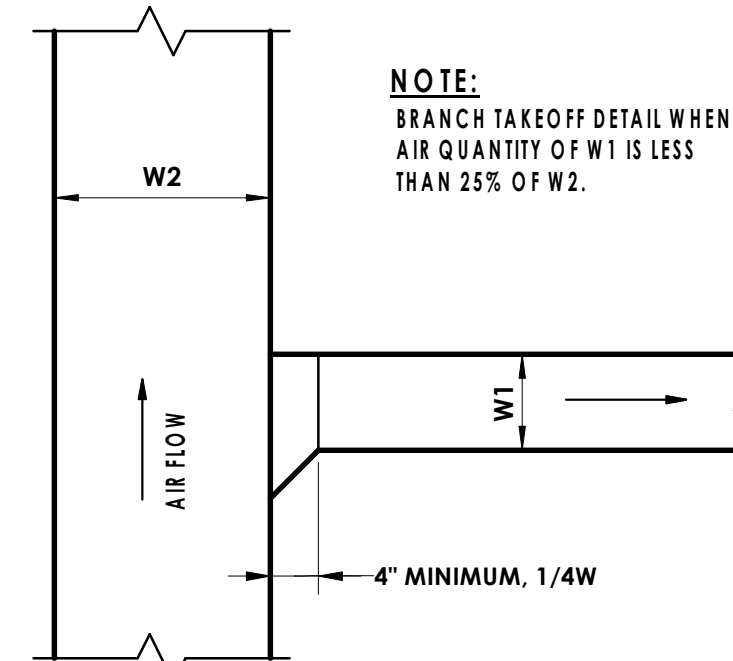
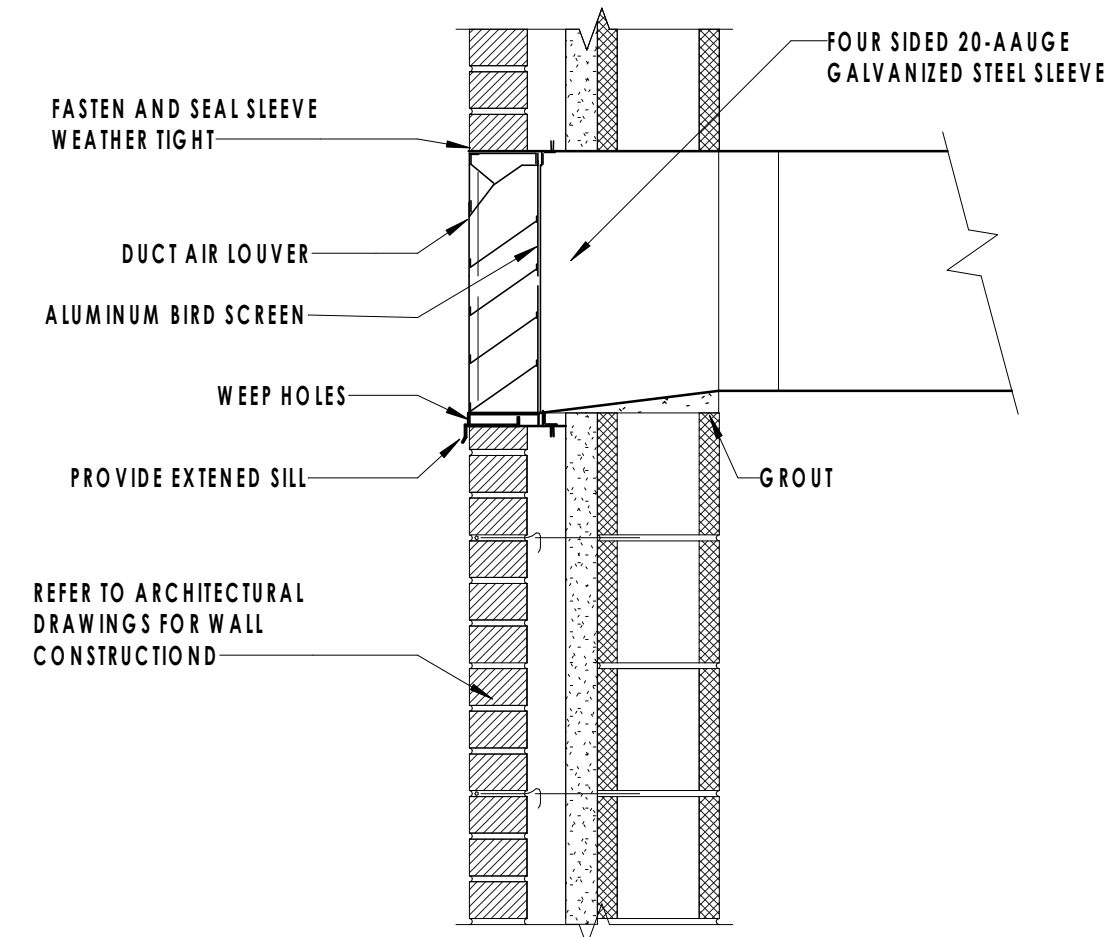
DRAIN PIPING SHALL BE MINIMUM UNIT CONNECTION SIZE. UNITS 25 TONS AND LARGER SHALL HAVE DRAIN SIZE ONE PIPE SIZE LARGER THAN DRAIN CONNECTION.

SLOPE 1/8" PER FOOT
PVC PIPING (ON ROOF)

1 TYPICAL AHU/RTU CONDENSATE DRAIN DETAIL
H800 NOT TO SCALE

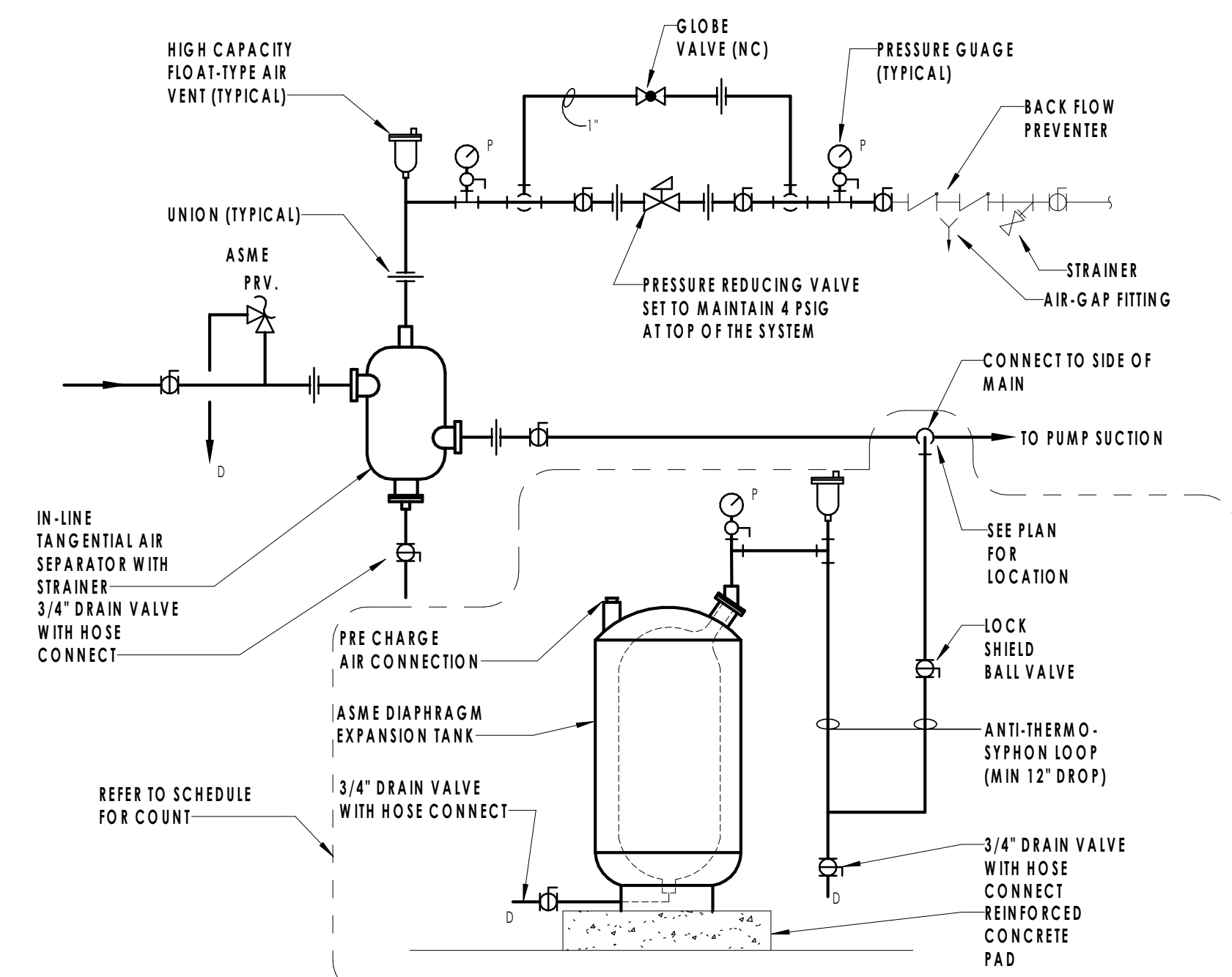


7 LOUVER THROUGH WALL SECTION DETAIL
H800 NOT TO SCALE



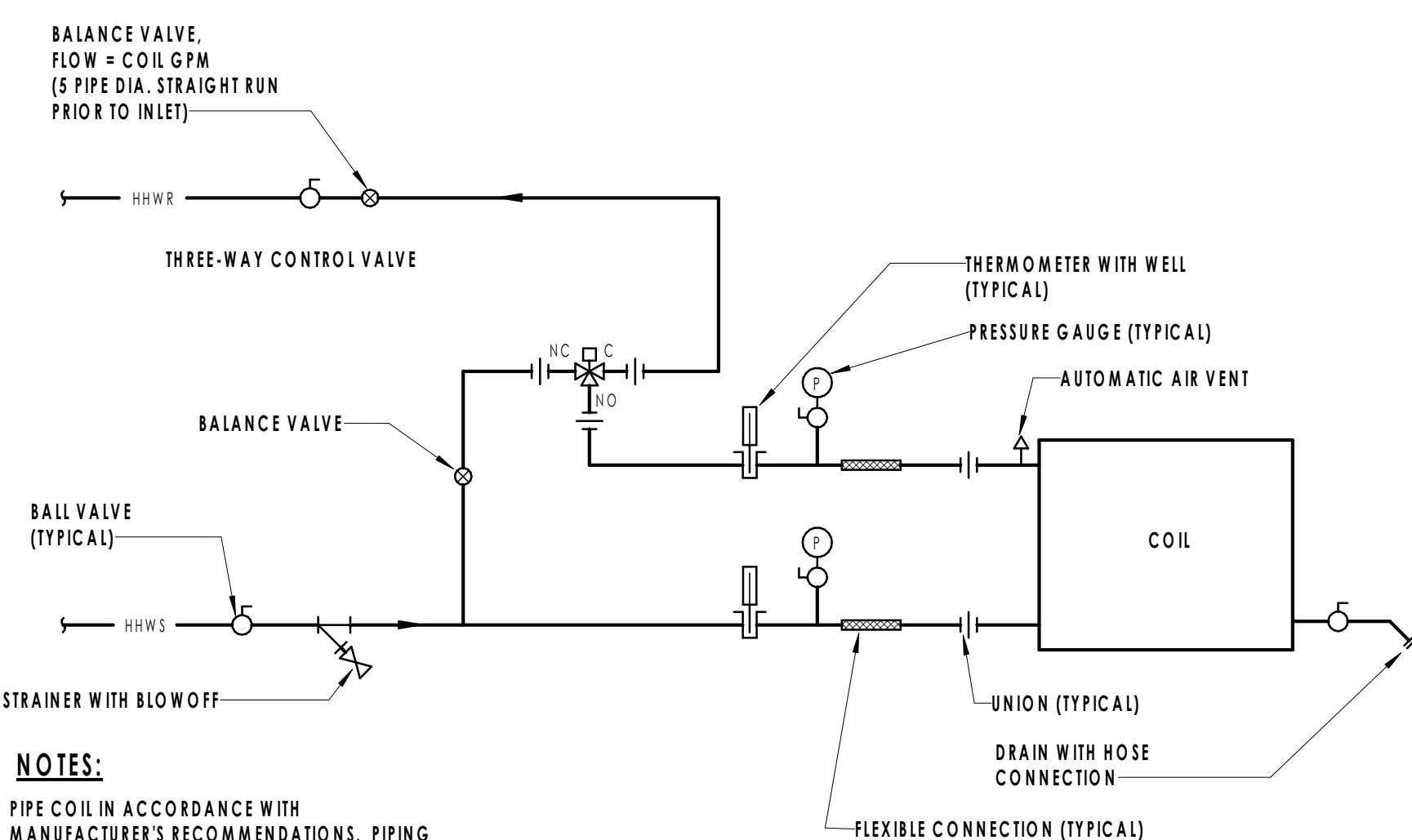
NOTE:
BRANCH TAKEOFF DETAIL WHEN AIR QUANTITY OF W1 IS LESS THAN 25% OF W2.

4 BRANCH TAKE-OFF DETAIL
H800 NOT TO SCALE



2 EXPANSION TANK & AIR SEPARATOR
H800 NOT TO SCALE

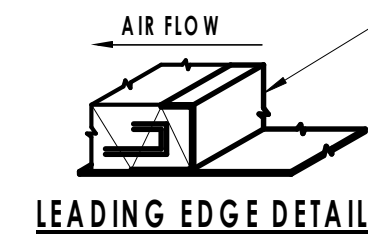
10 VERTICAL FIRE DAMPER DETAIL
H800 NOT TO SCALE



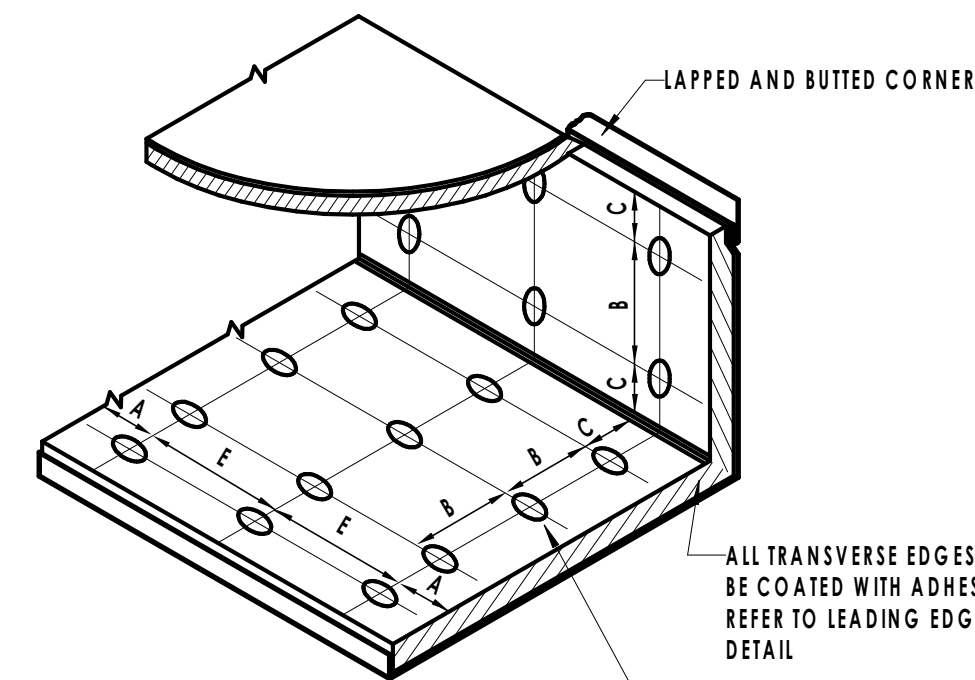
NOTES:
PIPE COIL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PIPING ARRANGEMENT SHALL ALLOW FOR REMOVAL OF COIL WITHOUT REMOVAL OF PIPING BEYOND UNIONS.

11 3-WAY HHW COIL PIPING SCHEMATIC FOR BLOWER COILS, HEATING COILS AND UNIT HEATERS
H800 NOT TO SCALE

METAL NOSING, NOSING REQUIRED AT FIRST JOINT AFTER EQUIPMENT AND AT POINTS WHERE LINING BEGINS. IN ADDITION, NOSING IS REQUIRED AT AIR FLOW VELOCITIES EXCEEDING 4000 FPM ON ALL LEADING TRANSVERSE EDGES. METAL NOSING SHALL BE CONSTRUCTED OF SAME MATERIAL AND GAUGE AS ADJOINING DUCT.



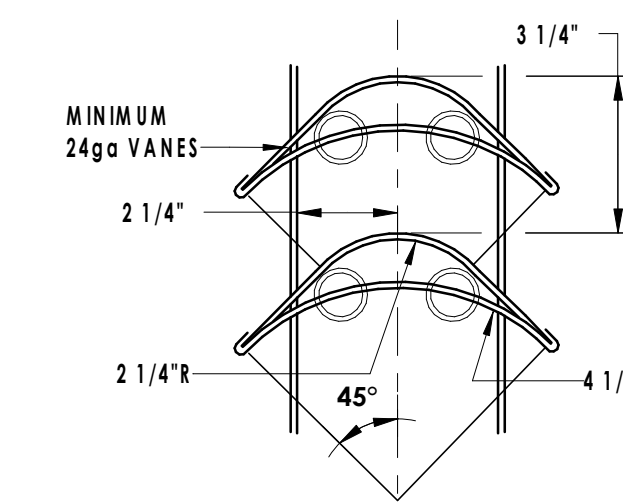
LEADING EDGE DETAIL



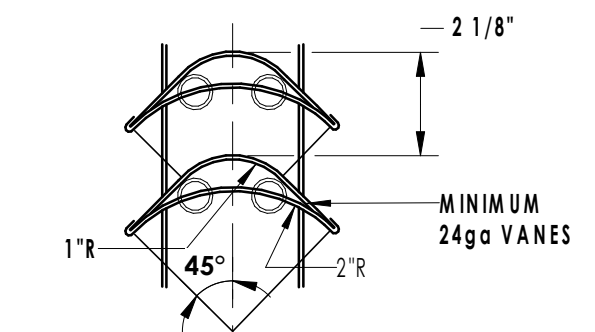
NOTE:
LINER ADHERED TO THE DUCT WITH 100% AREA COVERAGE OF ADHESIVE

MAXIMUM FASTENER SPACING				
VELOCITY	DIMENSIONS			
	A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-4000 FPM	3"	6"	4"	16"

5 DUCT LINER INSTALLATION DETAIL
H800 NOT TO SCALE

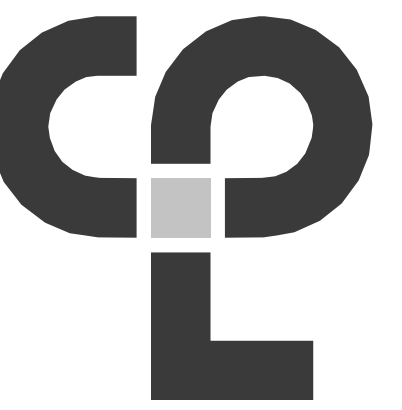


VANES FOR SQUARE THROAT ELBOWS OVER 20" WIDE



VANES FOR SQUARE THROAT ELBOWS THRU 20" WIDE

9 TYPICAL TURNING VANE DETAIL
H800 NOT TO SCALE



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NY ENGINEERING FIRM CERTIFICATE #0021419



OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number

R24.16761.00

Client Name

OSSINING UNION FREE SCHOOL DISTRICT

Project Name

2024 BOND: PHASE 1

OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION

Project Address

29 S HIGHLAND AVE, OSSINING, NY 10562

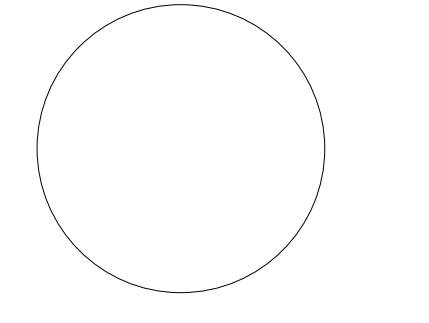
OSSINING UNION FREE SCHOOL DISTRICT

OSSINING HIGH SCHOOL 1603 NY 16-1401-00-000-047

PROJECT ISSUE & REVISION SCHEDULE

3 05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



NEW YORK STATE DECISION PAYMENT

IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMONWEALTH'S REGULATIONS FOR ANY PROFESSION, LICENSED UNDER THE PROVISIONS OF SUCH EDUCATION LAW, ENGINEER OR ARCHITECT, ENGINEER OR ARCHITECT, TO PROVIDE ANY OF THE SERVICES DESCRIBED IN THESE DOCUMENTS, THE ARCHITECT, PROFESSIONAL ENGINEER OR ARCHITECT, SHALL BE SUBJECT TO THE PENALTIES PROVIDED BY SUCH LAW AND THE STATE OF NEW YORK, AND A SPECIFIC DECISION OF THE ARCHITECT.

SHEET INFORMATION

Issued 04/27/2026 Scale As indicated

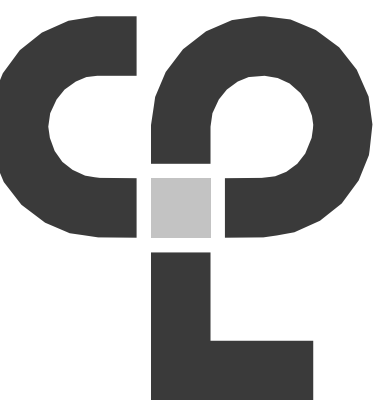
Project Status BID DOCUMENTS

Drawn By AJE Checked By BKM

Drawing Title MECHANICAL DETAILS

Drawing Number

OHS H800



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NY ENGINEERING FIRM CERTIFICATE #0221419



OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.16761.00

Client Name
OSSINING UNION FREE SCHOOL DISTRICT

Project Name
2024 BOND: PHASE 1

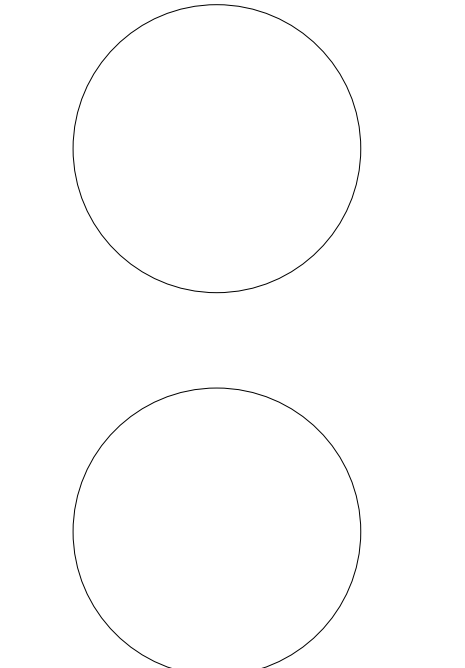
OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
Project Address
29 S HIGHLAND AVE, OSSINING, NY 10562

OSSINING UNION FREE SCHOOL DISTRICT
OSSINING HIGH SCHOOL SED NO. 66-1401-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

Issue Description
3 05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



NEW YORK STATE DISCLOSURE STATEMENT

IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMPASSIONATE REGULATION FOR ANY PERSON, UNDER ANY LICENSE OR REGISTRATION OF ANY REGISTERED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ASSIST IN ANY WAY IN ANY OF THE ABOVE LISTED SERVICES, IS IDENTIFIED, THE ARCHITECT, ENGINEER OR LAND SURVEYOR SHALL IMMEDIATELY REPORT SUCH VIOLATION TO THE STATE EDUCATION AND THE STATE BAR ASSOCIATION, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

SHEET INFORMATION

Issued 04/27/2026 Scale As indicated

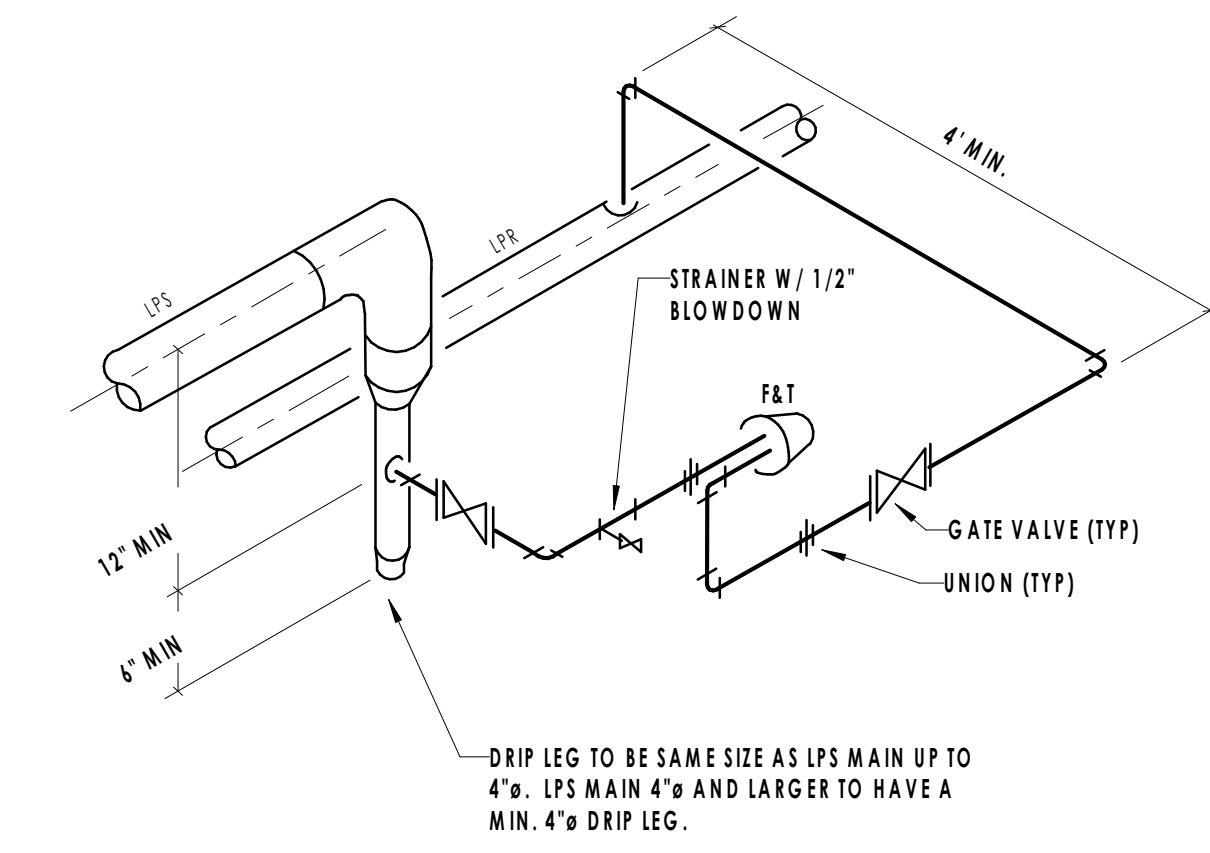
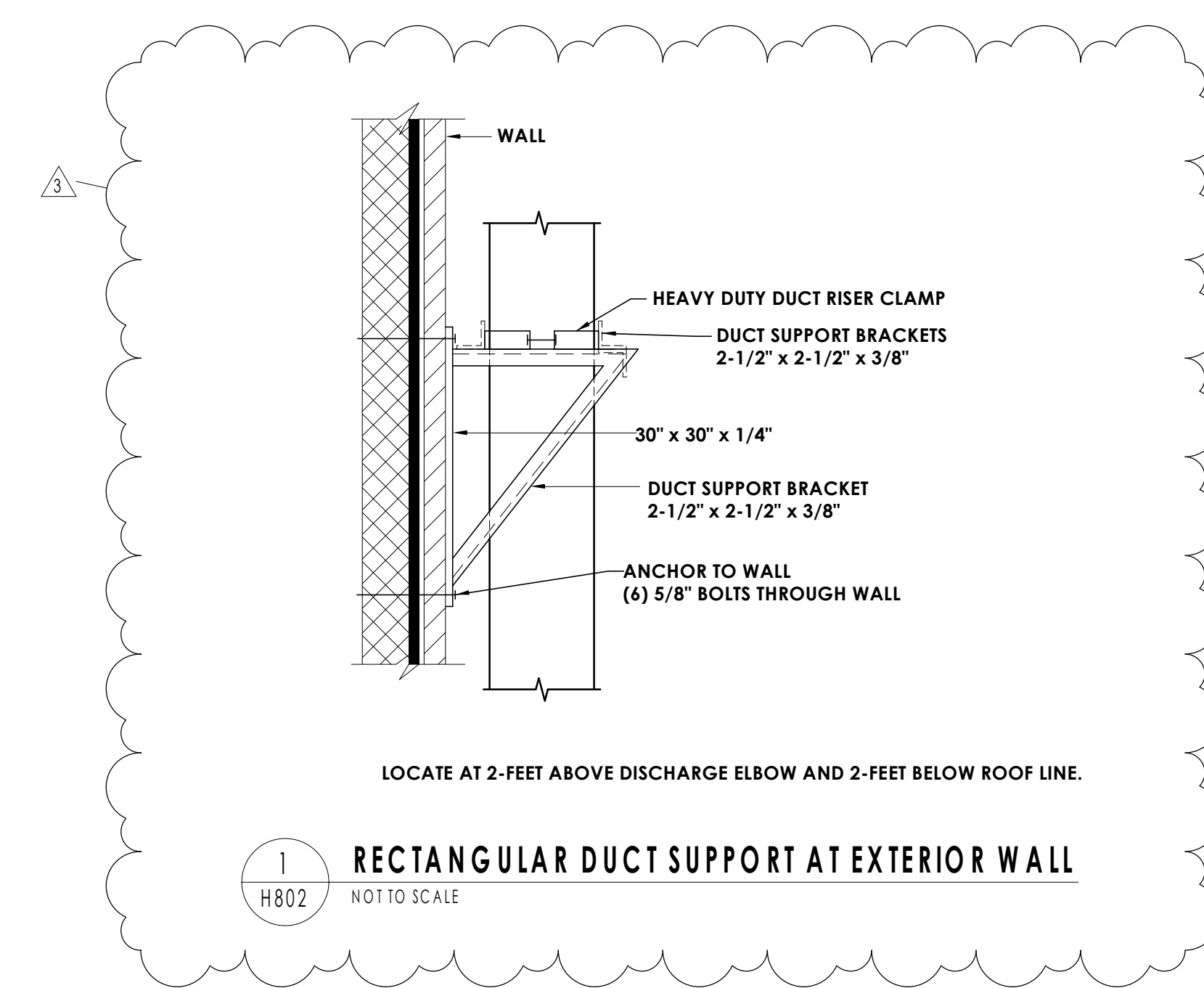
Project Status BID DOCUMENTS

Drawn By AJE Checked By BKM

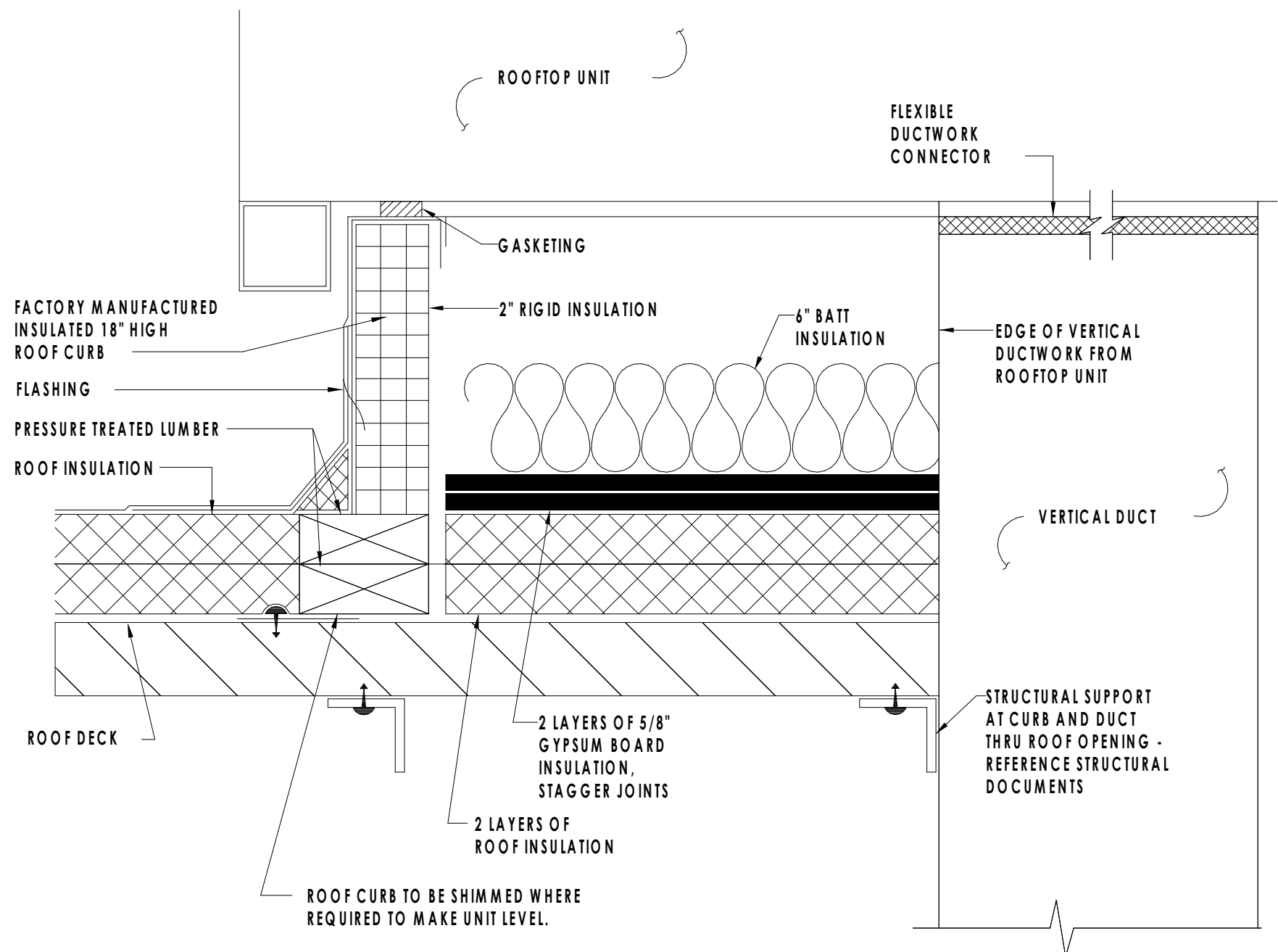
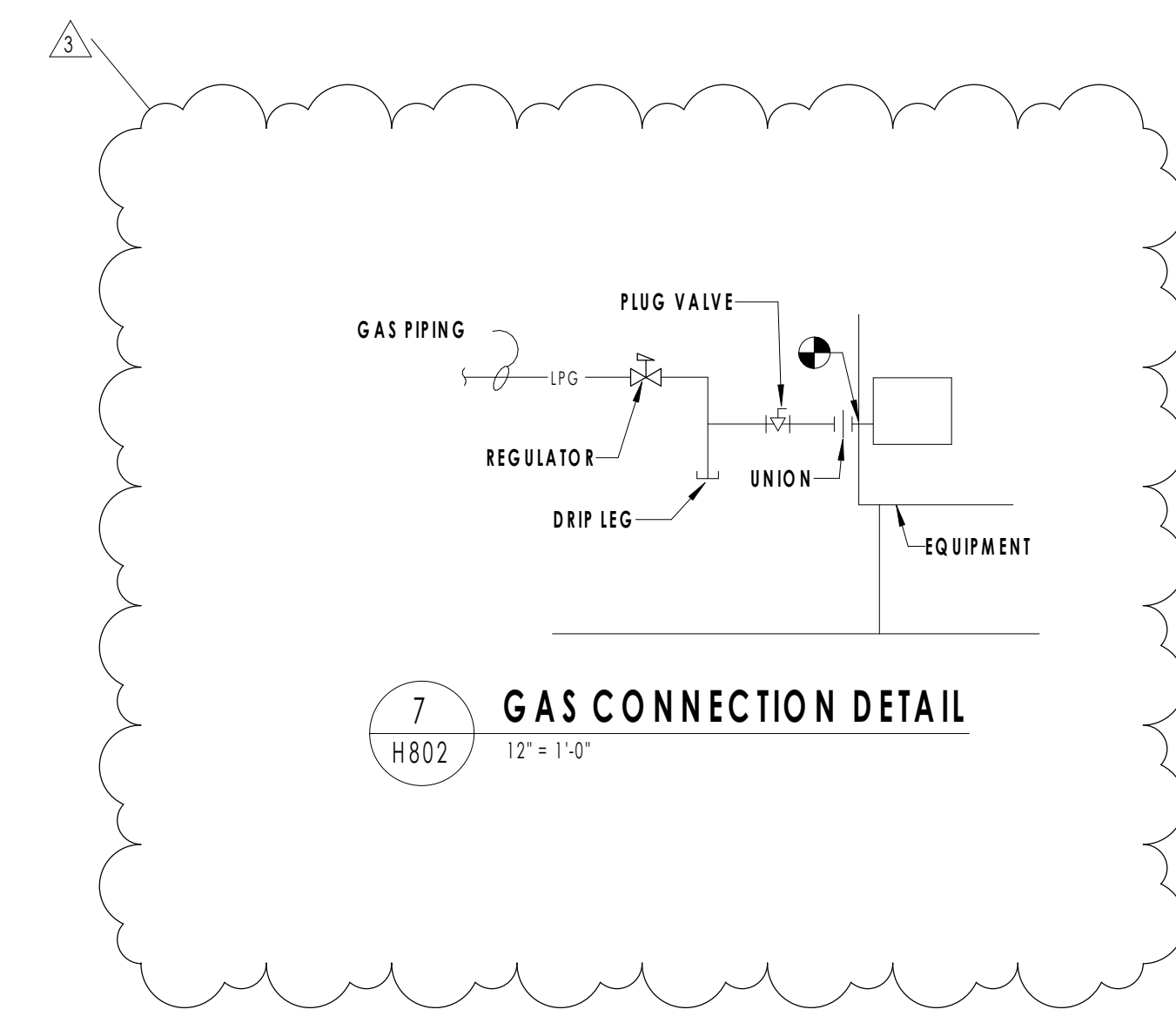
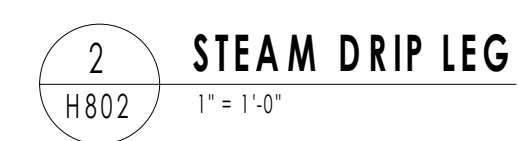
Drawing Title MECHANICAL DETAILS

Drawing Number

OHS
H802



STEAM-END OF MAIN DRIP LEG DETAIL

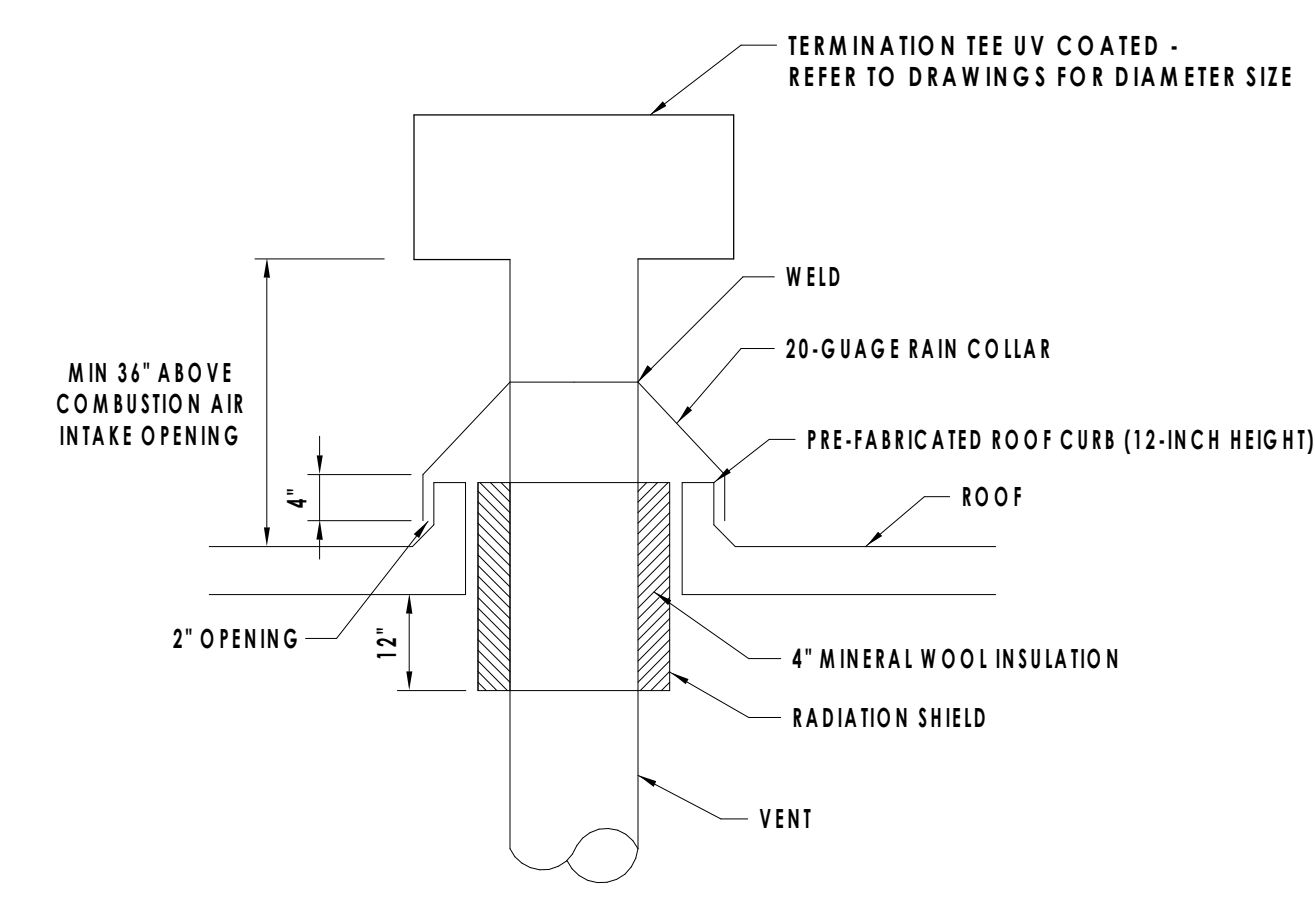


EXISTING ROOF NOTES:

1. ALL ROOFTOP HVAC UNITS TO HAVE CURB AND CURB INTERIOR AS SHOWN.
2. MODIFY ROOFING PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
3. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB. CUT OPENING IN EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB, DUCT AND PIPING.
4. CRICKET ROOFING AWAY FROM CURB.
5. SECURE EQUIPMENT TO CURB WITH CADMIUM PLATED HARDWARE.
6. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
7. PROVIDE STRUCTURAL SUPPORT FOR MECHANICAL EQUIPMENT AND OPENING EDGE.

NEW ROOF NOTES:

1. ALL ROOFTOP HVAC UNITS TO HAVE CURB AND CURB INTERIOR AS SHOWN.
2. INSTALL ROOFING PER NRCA RECOMMENDATIONS.
3. CRICKET AWAY FROM CURB FOR DRAINAGE.
4. SECURE EQUIPMENT TO CURB WITH CADMIUM PLATED HARDWARE.
5. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
6. PROVIDE STRUCTURAL SUPPORT FOR MECHANICAL EQUIPMENT AND OPENING EDGE.

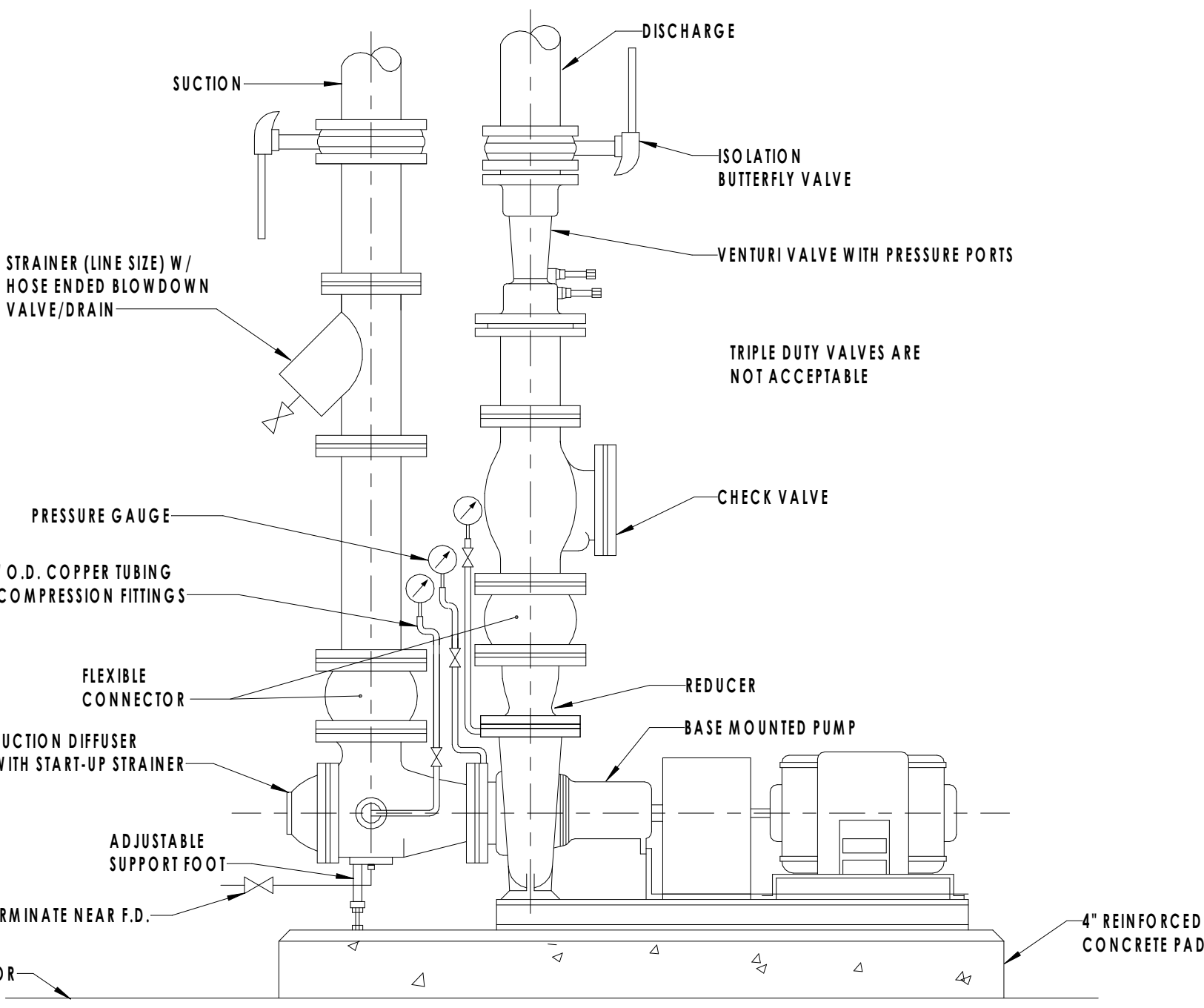
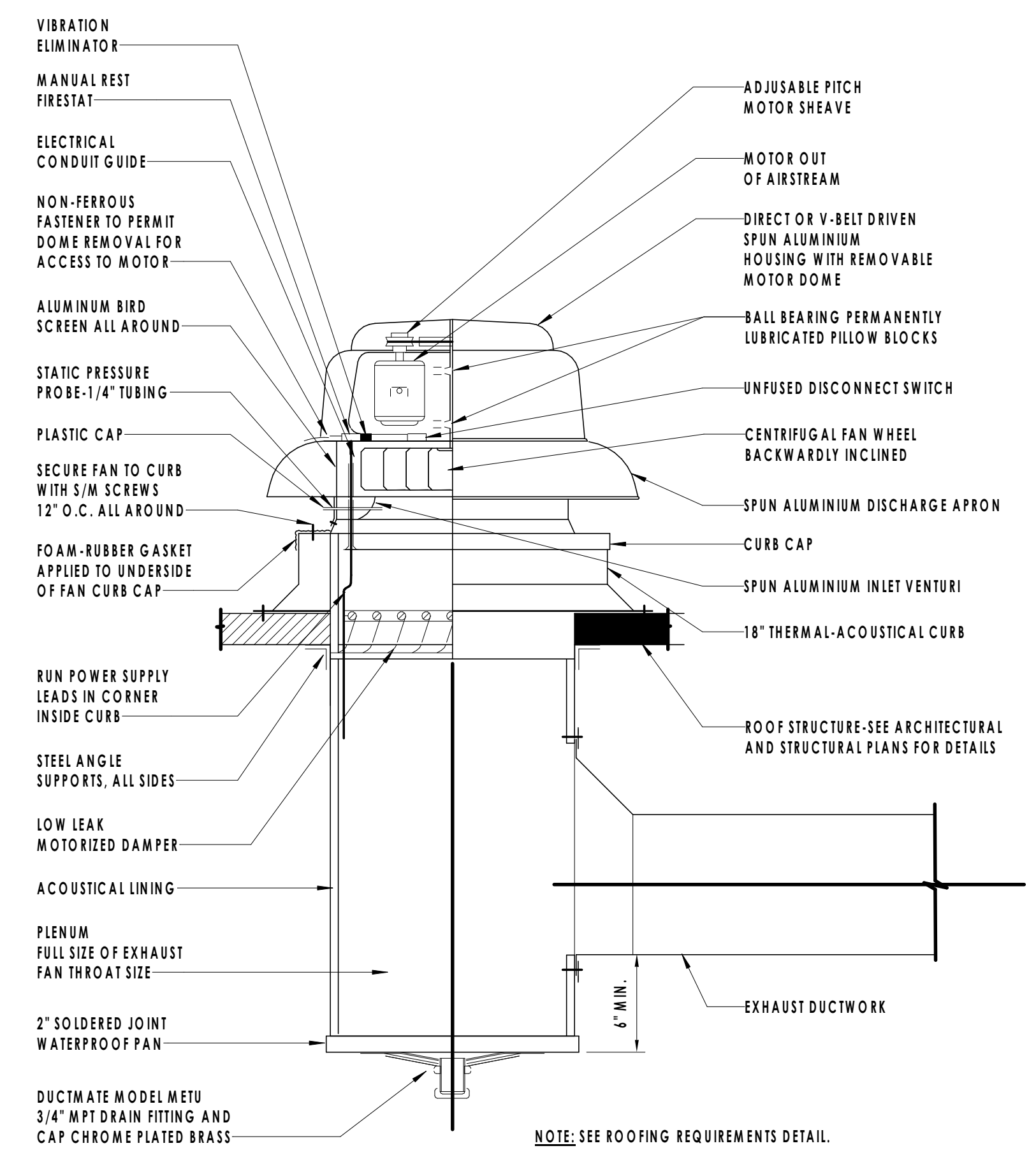


EXISTING ROOF NOTES:

1. ALL BOILER VENT ROOF PENETRATIONS SHALL HAVE CURB AS SHOWN.
2. MODIFY THE EXISTING ROOFING AS NECESSARY PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
3. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC CURB. CUT OPENING IN EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB AND VENT.
4. CRICKET ROOFING AWAY FROM CURB.
5. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
6. PROVIDE STRUCTURAL FRAMING FOR OPENING EDGE.

NEW ROOF NOTES:

1. ALL BOILER VENT ROOF PENETRATIONS SHALL HAVE CURB AS SHOWN.
2. INSTALL ROOFING PER NRCA RECOMMENDATIONS.
3. CRICKET AWAY FROM CURB FOR DRAINAGE.
4. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
5. PROVIDE STRUCTURAL FRAMING FOR OPENING EDGE.



PLUMBING EQUIPMENT & FIXTURE SCHEDULE										
MARK	FIXTURE	CW	HW	SAN	V	DESCRIPTION	Manufacturer	Model	ACCESSORIES	REMARKS
DN-1	DOWNSPOUT OUTLET COVER			6"		DOWNSPOUT COVER, ROUND FABRICATED STAINLESS STEEL FRAME WITH FABRICATED SECURED PERFORATED STAINLESS STEEL STRAINER.	ZURN INDUSTRIES	Z199-DC		
EMS-1	EMERGENCY SHOWER	1 1/4"	1 1/4"			BARRIER FREE SAFETY STATION WITH WIDE AREA EYE/FACE WASH. PLASTIC SHOWER HEAD.	GUARDIAN	GBF 1909		
EWC-1	BOTTLE FILLING STATION	1/2"		1 1/2"	1 1/2"	WALL MOUNTED, 8-LEVEL ELECTRIC WATER COOLER WITH BOTTLE FILLER, FILTERED, REFRIGERATED WITH 8 GPH CHILLING CAPACITY.	ELKAY	LZSTL8WSLK		1
EWS-1	EYE WASH STATION	1/2"				EYE WASH STATION, DECK MOUNTED ON COUNTER NEXT TO SINK, 90° SWIVEL, RIGHT HAND MOUNTING, FLOW ACTIVATED BY FLAG HANDLE. PROVIDE WITH THERMOSTATIC MIXING VALVE.	GUARDIAN	G1086		
FD-1	FLOOR DRAIN			4"	2"	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND NICKEL BRONZE STRAINER. PROVIDE WITH TRAP SEAL.	ZURN INDUSTRIES	Z415-4NH-6B		
FD-2	FLOOR DRAIN			4"	<varies >	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET AND BRONZE STRAINER. PROVIDE WITH TRAP SEAL.	ZURN INDUSTRIES	Z415-4NH-6B		
LAV-1	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	WALL HUNG SINK, VITREOUS CHINA (3) HOLES ON 4" CENTER, 0.5 GPM METERING FAUCET. PROVIDE THERMOSTATIC MIXING VALVE SET TO 110 DEGREE HOT WATER OUTLET. ASSE 1070 MIXING VALVE.	AMERICAN STANDARD	0355.012	FAUCET: LF-1, ZURN Z6915-XL MIXING VALVE: WATTS LFUSG-HWP	1
MR-1	MOP RECEPTOR	1/2"	1/2"	1 1/2"	1 1/2"	FLUSH TO WALL, FLOOR MOUNTING. PRECAST TERRAZZO BASIN WITH RIM GUARD. 24"x24" NEQ CORNER, 12" HIGH. WALL MOUNT FAUCET WITH PAIL HOOK & WALL BRACE 30" LONG HOSE, HOSE BRACKET, MOP HANGER, FAUCET, SF-3.	FIAT	TSBC6010	FAUCET: SF-3, FIAT PRODUCTS MODEL 830AA	
NHFB-1	HOSE BIB	3/4"				WALL HYDRANT	ZURN INDUSTRIES	Z1305		
RD-1	ROOF DRAIN					15" DIAMETER DEEP SUMP 45 DUAL OUTLET ROOF DRAIN WITH LOW SILHOUETTE DOME	ZURN INDUSTRIES	FROET 100C		
SK-1	SINK	1/2"	1/2"	1 1/2"	1 1/2"	22x19.5x5.5 SINGLE BOWL DROP-IN SINK, STAINLESS STEEL. PROVIDE THERMOSTATIC MIXING VALVE SET TO 110 DEGREE HOT WATER OUTLET AND FAUCET, SF-1.	JUST MANUFACTURING	SLADA1921 A5S-J	FAUCET: SF-1, JUST MANUFACTURING JPO-250 MIXING VALVE: WATTS LFUSG-HWP	
SK-2	SCIENCE SINK	1/2"	1/2"	1 1/2"	1 1/2"	EPOXY RESIN SINK BASIN MOLDED IN CASEWORK PROVIDED BY OTHERS. PROVIDE POINT OF USE ACID NEUTRALIZATION KIT. PROVIDE THERMOSTATIC MIXING VALVE SET TO 110 DEGREE HOT WATER OUTLET AND FAUCET, SF-2	BY OTHERS	BY OTHERS	FAUCET: SF-2, T&S LABORATORY PRODUCTS BL-5704-08WH4 MIXING VALVE: WATTS LFUSG-HWP ACID TRAP: ZURN Z9A-PHX	
SK-3	SCIENCE SINK	1/2"	1/2"	1 1/2"	1 1/2"	EPOXY RESIN SINK BASIN MOLDED IN CASEWORK PROVIDED BY OTHERS. PROVIDE POINT OF USE ACID NEUTRALIZATION KIT. PROVIDE THERMOSTATIC MIXING VALVE SET TO 110 DEGREE HOT WATER OUTLET AND FAUCET, SF-2	BY OTHERS	BY OTHERS	FAUCET: SF-2, T&S LABORATORY PRODUCTS BL-5704-08WH4 MIXING VALVE: WATTS LFUSG-HWP ACID TRAP: ZURN Z9A-PHX	
SK-4	SCIENCE SINK	1/2"	1/2"	1 1/2"	1 1/2"	EPOXY RESIN SINK BASIN MOLDED IN CASEWORK PROVIDED BY OTHERS. PROVIDE POINT OF USE ACID NEUTRALIZATION KIT. PROVIDE THERMOSTATIC MIXING VALVE SET TO 110 DEGREE HOT WATER OUTLET AND FAUCET, SF-2	BY OTHERS	BY OTHERS	FAUCET: SF-2, T&S LABORATORY PRODUCTS BL-5704-08WH4 MIXING VALVE: WATTS LFUSG-HWP ACID TRAP: ZURN Z9A-PHX	
UR-1	ADA URINAL	1"		4"	2"	WALL MOUNTED, VITREOUS CHINA, INSTALLED AT AN ACCESSIBLE HEIGHT, REAR DISCHARGE, TOP SUPPLY, BATTERY POWERED SENSOR OPERATED FLUSH VALVE, FV-1.	AMERICAN STANDARD	6590.001EC	FLUSH VALVE: FV-1, ZURN ZER6003AV-CPM	1
WC-1	WATER CLOSET	1"		4"	2"	WALL MOUNTED, VITREOUS CHINA, ELONGATED BOWL, OPEN FRONT SEAT. EXPOSED BATTERY POWERED SENSOR OPERATED FLUSH VALVE, FV-2.	AMERICAN STANDARD	2257.101	FLUSH VALVE: FV-2, ZURN ZER6000AV-CPM	
WC-2	ADA WATER CLOSET	1"		4"	2"	WALL MOUNTED, VITREOUS CHINA, ELONGATED BOWL INSTALLED AT ACCESSIBLE HEIGHT, OPEN FRONT SEAT. EXPOSED BATTERY POWERED SENSOR OPERATED FLUSH VALVE, FV-2.	AMERICAN STANDARD	2257.101	FLUSH VALVE: FV-2, ZURN ZER6000AV-CPM	1

REMARKS

1. ALL ACCESSIBLE EQUIPMENT/FIXTURES TO BE INSTALLED PER ADA REQUIREMENTS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR COORDINATION.
2. SIZED PER PLAN

GENERAL PLUMBING EQUIPMENT & FIXTURE COMMENTS:

- A. PLUMBING CONTRACTOR SHALL PROVIDE ALL RISERS, CARRIERS, P-TRAPS, STOPS, STRAINERS, TAIL PIECES, DRAINS, HAMMER ARRESTORS, ETC. AS REQUIRED TO HAVE A COMPLETE AND FUNCTIONAL INSTALLATION.

GAS FIXTURES SCHEDULE						
TAG	FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	REMARKS
GS-1	EMERGENCY GAS SHUT-OFF	LABORATORY UTILITY CONTROLLER WITH LOCKABLE KEY-SWITCH OPERATION. BUILT-IN CONNECTIVITY ALLOWING FOR CONNECTION TO EXISTING FIRE ALARM AND BUILDING MANAGEMENT SYSTEM.	AMERICAN GAS SAFETY	MERLIN 1000SI	SOLENOID VALVE AT CLASSROOM BRANCH OFF OF MAIN	
GT-1	SINGLE GAS TURRET	SINGLE LABORATORY TURRET WITH POLISHED CHROME PLATED BRASS BODY. SERRATED TIP OUTLET 3/8" NPT FEMALE INLET.	T&S LABORATORY PRODUCTS	BL-4200-01		
GT-1	2-WAY GAS TURRET	TWO WAY LABORATORY TURRET WITH POLISHED CHROME PLATED BRASS BODY. VANDAL RESISTANT ANTI-ROTATION PIN. 2 BALL VALVE HOSE COCKS WITH POLISHED CHROME PLATED BRASS BODIES. HANDLES SERRATED TIP OUTLETS AT 180 DEGREES. AND 3/8" NPT FEMALE INLET.	T&S LABORATORY PRODUCTS	BL-4200-02		
GT-2	SINGLE GAS TURRET	SINGLE LABORATORY TURRET WITH POLISHED CHROME PLATED BRASS BODY. SERRATED TIP OUTLET 3/8" NPT FEMALE INLET.	T&S LABORATORY PRODUCTS	BL-4200-01		

SERVICE VALVE SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	SIZE	COMMENTS
DCV-1	DOUBLE CHECK VALVE	AMES Fire & Highworks	C300-OSY-6	6"	
DCV-2	DOUBLE CHECK VALVE	WATTS	SD-2	3/8"	
FCV-1	SPRINKLER FLOOR CONTROL VALVE	VIKING	EASYPAC	2 1/2"	
RPZ-1	REDUCED PRESSURE ZONE	WATTS	LF909OSY	3"	

SUMP PUMP SCHEDULE												
MARK	LOCATION	MANUFACTURER	MODEL	ARRANGEMENT	DISCHARGE	GPM	HEAD (FT)	ELECTRICAL DATA			STARTER	REMARKS
								HP	VOLTS	PHASE		
SP-1	ELEVATOR SUMP PUMP	ZOELLER	MODEL 153	SIMPLEX SUBMERSIBLE ELEVATOR SUMP PUMP	1-1/2"	50	20	1/2	115	1	FLOATS	1,2,3,4,5,6
SP-2	SEWAGE EJECTOR PUMP	ZOELLER	MODEL 802	SUBMERSIBLE GRINDER PUMP	2"	27	20	1/2	115	1	FLOATS	1,3,4,6

- REMARKS:**
1. PROVIDE FIBERGLASS SUMP BASIN K001612 WITH DIMENSIONS OF 18" DIAMETER & 30" HEIGHT.
 2. PROVIDE 4 FLOATS AS INDICATED PER 4/P000.
 3. PROVIDE 18" DIA. STEEL PERFORATED COVER K002059 WITH 1-1/2" DISCHARGE FLANGE AND GROMMET.
 4. PROVIDE PUMP WITH 3/4" SOLIDS HANDLING.
 5. PROVIDE WITH OILTECTOR 115 VOLT OIL SENSOR CONTROL SYSTEM WITH REMOTE ALARM.
 6. PROVIDE WITH 1-1/2" SOCKET WELD BALL AND CHECK COMBINATION VALVE BCV150.

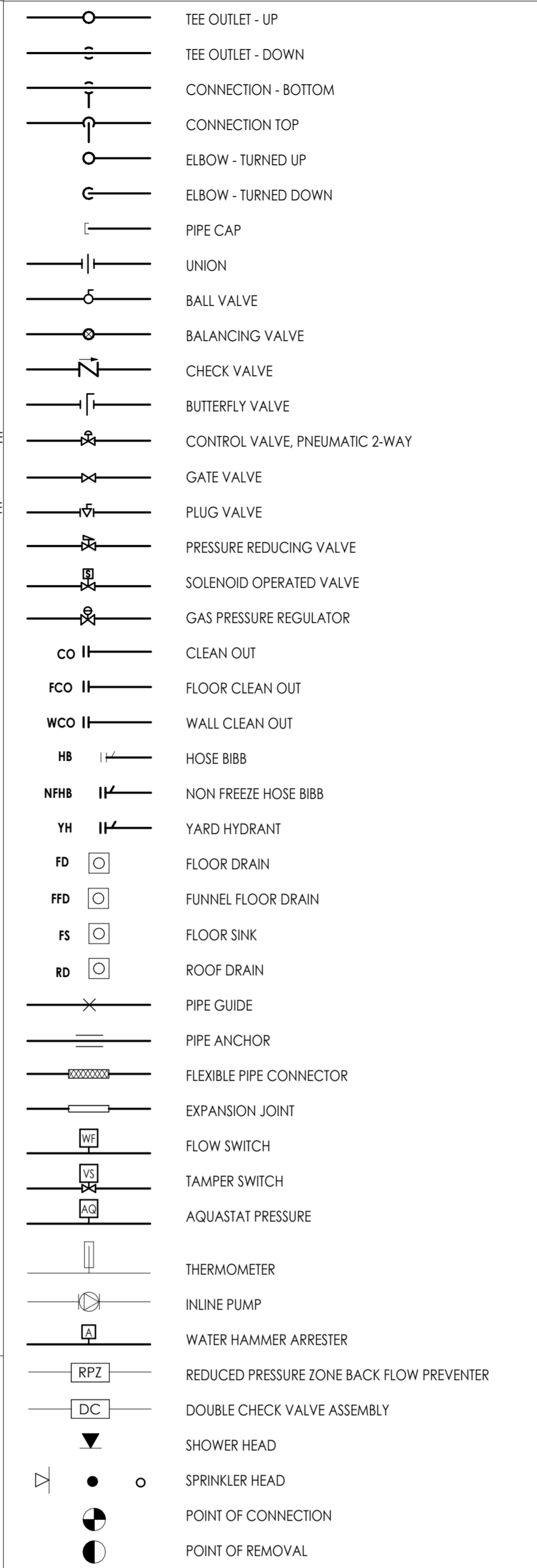
SPRINKLER HEAD SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	MODEL	DIAMETER	K-FACTOR	TEMPERATURE RATING	
PENDANT SPRINKLER	QUICK RESPONSE, CONCEALED SPRINKLER HEAD	VIKING	VK302	1/2"	5.6	135 °F	
SIDE WALL SPRINKLER	QUICK RESPONSE, SIDE WALL SPRINKLER HEAD	VIKING	VK319	1/2"	5.6	135 °F	
UPRIGHT SPRINKLER	QUICK REPSONSE, UPRIGHT SPRINKLER HEAD	VIKING	VK300	1/2"	5.6	135 °F	

WATER HEATER SCHEDULE								
TAG	DESCRIPTION	FUEL TYPE	KW	ELECTRICAL	TEMPERATURE RISE (°F)	MANUFACTURER	MODEL	COMMENTS
EWH-1	Tankless Water Heater	ELECTRIC	4.1	208 SINGLE PHASE	80	Eemax Inc.	SPEX420BT ML	
EWH-2	Tankless Water Heater	ELECTRIC	24	208 SINGLE PHASE	80	Eemax Inc.	XTP024208	
EWH-3	Tankless Water Heater	ELECTRIC	48	208 THREE PHASE	20	HUBBELL	ETX048-6 208/3	

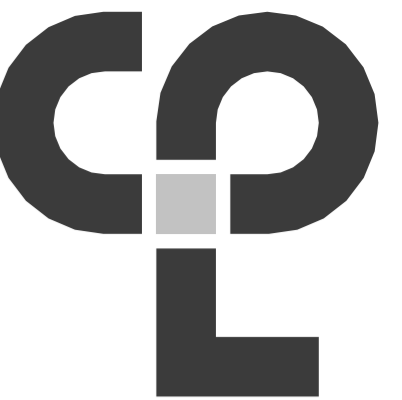
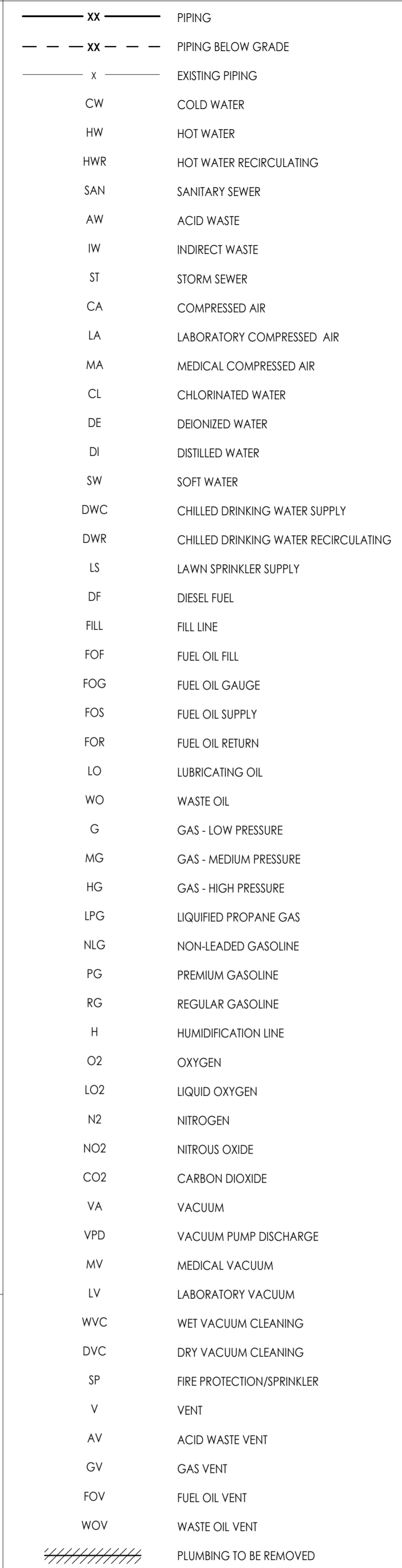
GENERAL NOTES

- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES, AND SPECIAL OCCUPANCY STANDARDS.
- DOMESTIC WATER LINES SHALL BE TYPE L COPPER, LEAD FREE JOINTS. INSULATE ALL PIPING WITH PREFORMED FIBERGLASS PIPE INSULATION WITH ASJ COVER SIZED PER STATE ENERGY CODE. ALL FITTINGS AND VALVES TO BE COVERED WITH PREFORMED PVC FITTING COVERS. ALL EXPOSED VERTICAL FIXTURE SUPPLY LINES TO BE COVERED WITH PVC JACKET TO 7' ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED ON PLANS OR SPECS.
- PROVIDE WATER HAMMER ARRESTORS AS REQUIRED BY STATE PLUMBING CODE ON BRANCH PIPING TO EACH TOILET ROOM, LAUNDRY ROOM, SOLENOID VALVE, FAST CLOSING VALVE OR AS OTHERWISE REQUIRED BY CODE.
- UNDERGROUND SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON, HUB AND SPIGOT WITH RUBBER GASKET PUSH JOINTS. ABOVE GROUND SANITARY AND VENT PIPING SHALL BE NO-HUB CAST IRON OR DWV COPPER WITH DWV COPPER FITTINGS.
- UNDERGROUND STORM PIPING SHALL BE SERVICE WEIGHT CAST IRON, HUB AND SPIGOT WITH RUBBER GASKET PUSH JOINTS. ABOVE GROUND STORM PIPING SHALL BE NO-HUB CAST IRON, ROOF DRAIN BODIES AND HORIZONTAL ABOVE GRADE PIPING SHALL BE INSULATED WITH PREFORMED FIBERGLASS PIPE INSULATION.
- SANITARY AND STORM CLEANOUTS TO BE PROVIDED AS PER STATE PLUMBING CODE AT END OF EACH BRANCH, AT LEAST EVERY 100' ALONG THE MAINS AND AT 90 DEGREE CHANGE IN DIRECTION.
- NATURAL GAS PIPING BELOW GRADE SHALL BE HDPE. NATURAL GAS PIPING ABOVE GRADE SHALL BE ASTM A53 SCH 40 BLACK STEEL, WITH SCREWED JOINTS IN PIPE UP TO 2 1/2" AND WELDED JOINTS IN PIPE 3" AND ABOVE. ALL EXTERIOR EXPOSED GAS PIPE SHALL BE PAINTED (GREY, YELLOW OR AS OTHERWISE SPECIFIED BY THE ARCHITECT).
- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.
- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION. ANY CEILING SYSTEM COMPONENT DAMAGED DURING DEMOLITION, STORAGE, OR RE-INSTALLATION SHALL BE REPLACED WITH A NEW AT NO EXPENSE TO THE OWNER.
- UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PATCH AND FINISH ALL EXISTING PIPE PENETRATIONS AND TRENCHING THRU FLOOR AND WALLS AFTER DEMOLITION. IN ADDITION, ALL NEW PENETRATIONS AND TRENCHING SHALL BE PROVIDED FOR INSTALLATION OF PLUMBING SYSTEM INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, ETC.
- ALL PIPING AND CONDUIT PENETRATIONS THRU RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPING.
- ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED, PURGED, DISINFECTED AND/OR AIR REMOVED AS DICTATED BY CODE, MANUFACTURER SPECIFICATION, HEALTH DEPARTMENT AND/OR OTHER RELATED INDUSTRY STANDARDS. TEST REPORTS SHALL BE SUBMITTED FOR DOCUMENTATION.
- COORDINATE MOUNTING OF FIXTURES AND TRIM WITH ARCHITECTURAL ELEVATIONS, MILLWORK, SPECIALTY EQUIPMENT AND ADA GRAB BARS.
- FLOOR DRAINS AND FLOOR SINKS SHALL BE FLUSH TO FLOOR AND LOCATED AT A LOW POINT IN FLOOR UNLESS OTHERWISE NOTED ON THE PLANS. FLOOR DRAINS SHALL HAVE EITHER A TRAP-PRIMER OR TRAP GUARD INSTALLED.
- SLOPE SANITARY DRAINAGE PIPING 2 1/2" AND LESS MINIMUM OF 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING 3" AND LESS MINIMUM OF 1/8" PER FOOT.
- PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES SERVING TWO OR MORE FIXTURES.
- INSTALL PIPING SO ALL VALVES, STRAINERS, TRAPS, ETC. ARE ACCESSIBLE.

FIXTURES & FITTINGS LEGEND



PIPING LEGEND



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NY ENGINEERING FIRM CERTIFICATE #0021419



OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.16761.00
Client Name

OSSINING UNION FREE SCHOOL DISTRICT

Project Address
2024 BOND: PHASE 1

OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
Project Address
29 S HIGHLAND AVE. OSSINING, NY 10562

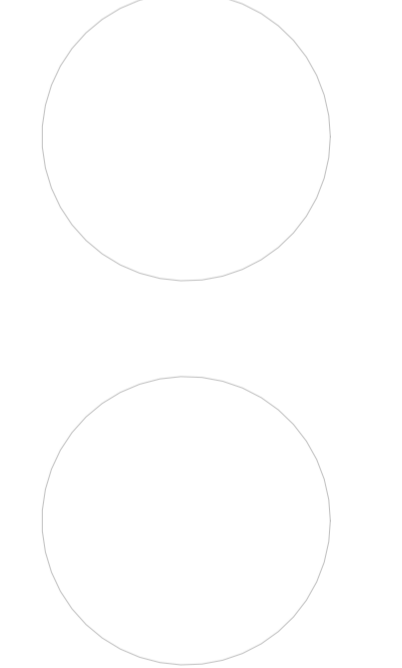
OSSINING UNION FREE SCHOOL DISTRICT

OSSINING HIGH SCHOOL, SEB NO. 66-14-01-03-0-038-047

PROJECT ISSUE & REVISION SCHEDULE

Issue Description
3 05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STANDARDS
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS AND ANY OTHER RULES ACTING UNDER THE SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALIAS AN OTHER NAME, IF ANY, BEING THE NAME OF AN ARCHITECT, ENGINEER OR SURVEYOR AS SET FORTH IN ARTICLE 170-A OF THE EDUCATION LAW TO THE NEW YORK STATE, AND THE RECORDARY ACTED BY FOLLOWING BY THIS SIGNATURE AND THE DATE OF SIGNATURE AND ANY SPECIFIC DESCRIPTION OF THE SERVICES.

SHEET INFORMATION

Issued Scale
04/27/2026 As indicated

Project Status
BID DOCUMENTS

Drawn By
MLS Checked By
JJW

Drawing Title
PLUMBING LEGEND, NOTES, & SYSTEM DIAGRAMS

Drawing Number

OHS
P000



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Poughkeepsie, NY 12601
CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419



OSSINING
UNION FREE SCHOOL DISTRICT

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OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION

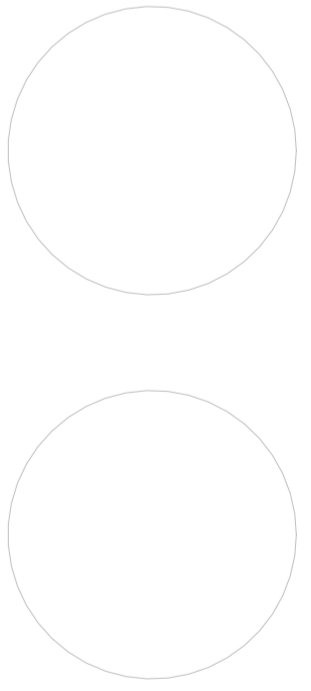
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OSSINING UNION FREE SCHOOL DISTRICT
□ OSSINING HIGH SCHOOL, SED NO. 66-14-01-03-0-03-047

PROJECT ISSUE & REVISION SCHEDULE

Date Description
3 05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTES
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SHEET INFORMATION

Issued 04/27/2026 Scale 1/8" = 1'-0"

Project Status BID DOCUMENTS

Drawn By MLS Checked By JJW

Drawing Title

FIRST FLOOR DEMOLITION PLAN

Drawing Number

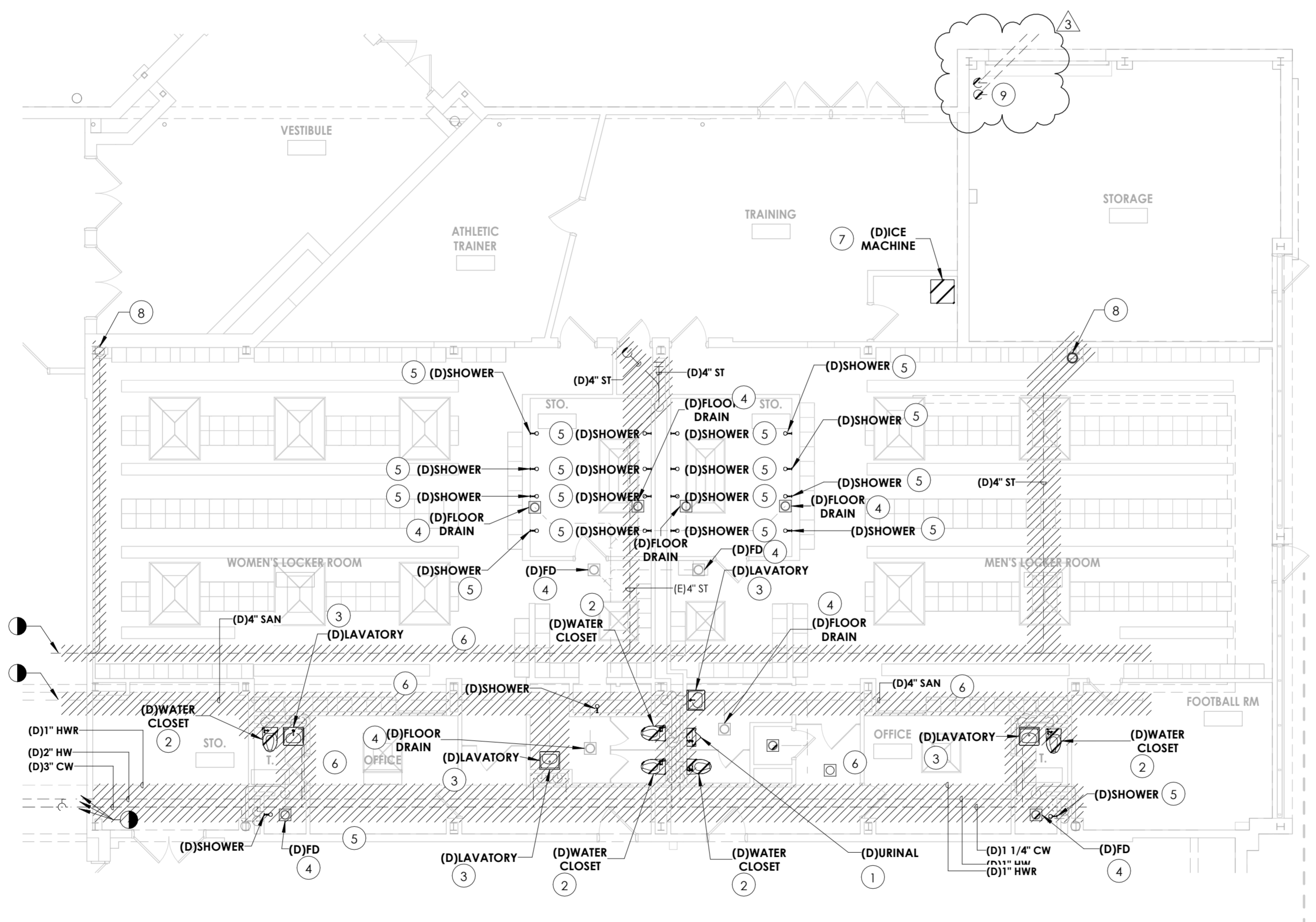
OHS
P101

GENERAL NOTES

- A. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION. ANY CEILING SYSTEM COMPONENT DAMAGED DURING DEMOLITION, STORAGE, OR RE-INSTALLATION SHALL BE REPLACED WITH A NEW AT NO EXPENSE TO THE OWNER.
- B. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PATCH AND FINISH ALL EXISTING PIPE PENETRATIONS AND TRENCHING THRU FLOOR AND WALLS AFTER DEMOLITION. IN ADDITION, ALL NEW PENETRATIONS AND TRENCHING SHALL BE PROVIDED FOR INSTALLATION OF PLUMBING SYSTEM INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, ETC.

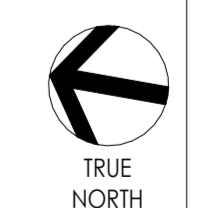
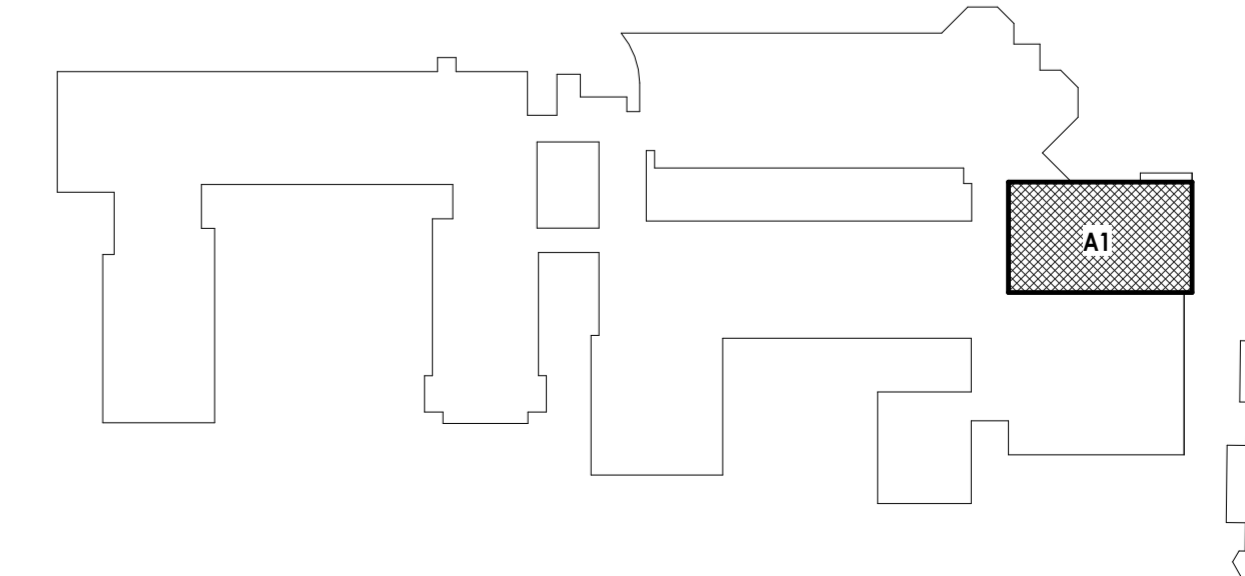
KEY NOTES #

- 1 DISCONNECT & REMOVE EXISTING URINAL, WALL CARRIER, TRIM, AND RELATED WATER/DRAIN/VENT PIPING.
- 2 DISCONNECT & REMOVE EXISTING WATER CLOSET, WALL CARRIER, TRIM, AND RELATED WATER/DRAIN/VENT PIPING.
- 3 DISCONNECT & REMOVE EXISTING LAVATORY, WALL CARRIER, TRIM, AND RELATED WATER/DRAIN/VENT PIPING.
- 4 DISCONNECT & REMOVE EXISTING FLOOR DRAIN, TRIM, AND RELATED WATER/DRAIN/VENT PIPING.
- 5 DISCONNECT & REMOVE EXISTING SHOWER, TRIM, AND RELATED WATER/DRAIN/VENT PIPING.
- 6 REMOVE PIPING BELOW FLOOR. CUT BACK CLEAR OF INSTALLATION OF STRUCTURAL FOOTINGS DURING NEW ADDITION WORK.
- 7 DISCONNECT AND REMOVE ICE MACHINE. REMOVE ALL ASSOCIATED PIPING BACK TO MAIN AND CAP. REMOVE COLD WATER PIPING BACK TO MAIN AND CAP. REMOVE ANY ASSOCIATED FLOOR DRAIN AND PIPING BACK TO MAIN AND CAP.
- 8 DISCONNECT AND REMOVE EXISTING ROOF LEADER.
- 9 DISCONNECT AND REMOVE EXISTING FUEL OIL PIPING. CUT AND REMOVE PIPING PROTRUDING FROM CONCRETE SLAB. BACK OUT TO SITE. SEE C102 FOR CONTINUATION.



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
P101 1/8" = 1'-0"

KEY PLAN:





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CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419



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OSSINING UNION FREE SCHOOL DISTRICT

OSSINING HIGH SCHOOL, SED NO. 66-1401-03-0-03-047

PROJECT ISSUE & REVISION SCHEDULE

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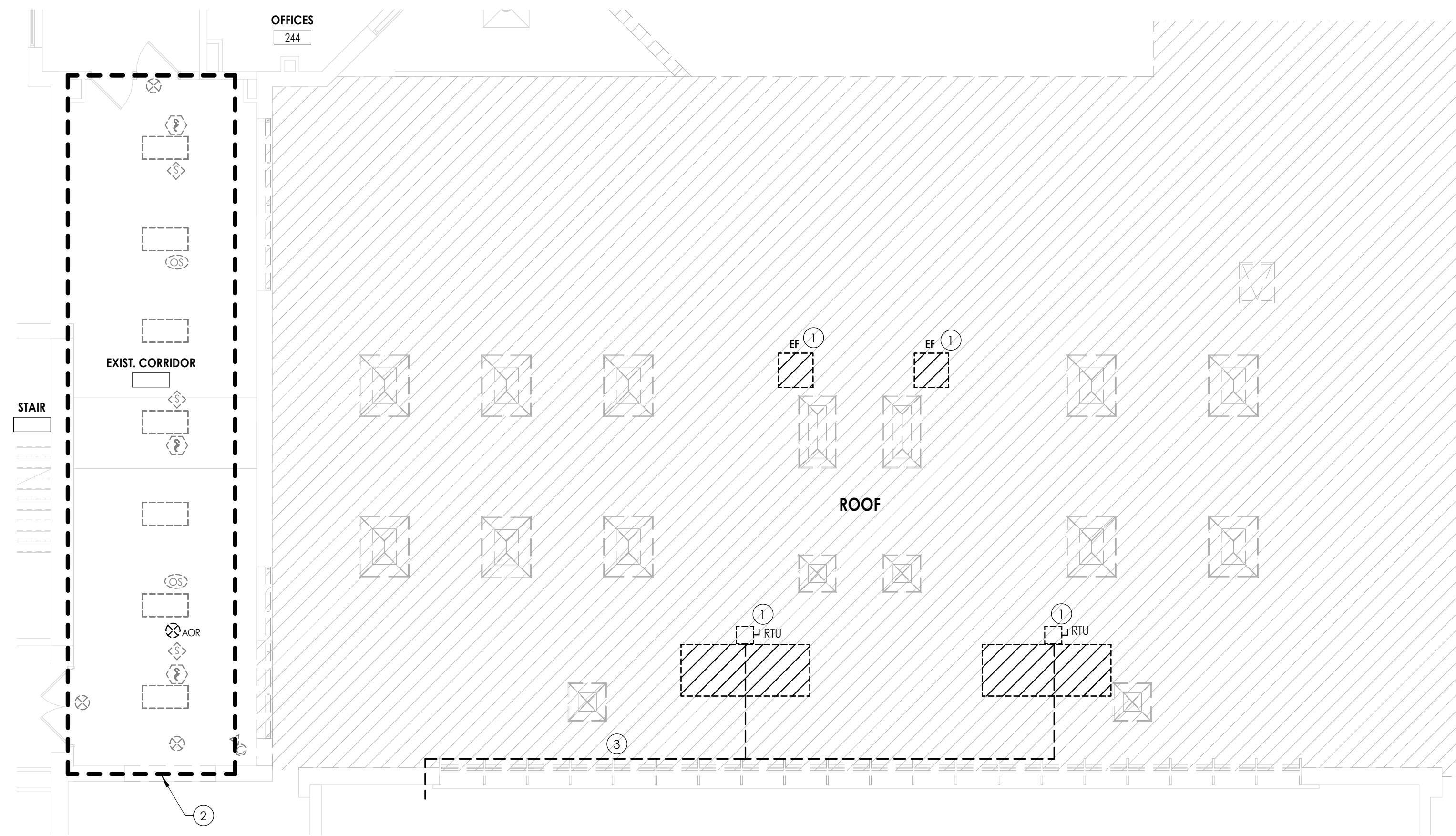
PROFESSIONAL STAMPS

GENERAL NOTES

- A. [E]-EXISTING TO REMAIN, ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING AND CONDUIT, LABELED "[E]" SHALL REMAIN, UNLESS OTHERWISE NOTED.
- B. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.
- C. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.
- D. WHERE DEVICES, FIXTURES, ETC. ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- E. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.
- F. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.
- G. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.
- H. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.
- I. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE ALL BRANCH CIRCUIT AND SYSTEM WIRING BACK TO SOURCE FOR ALL REMOVED ELECTRICAL EQUIPMENT INDICATED.

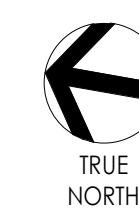
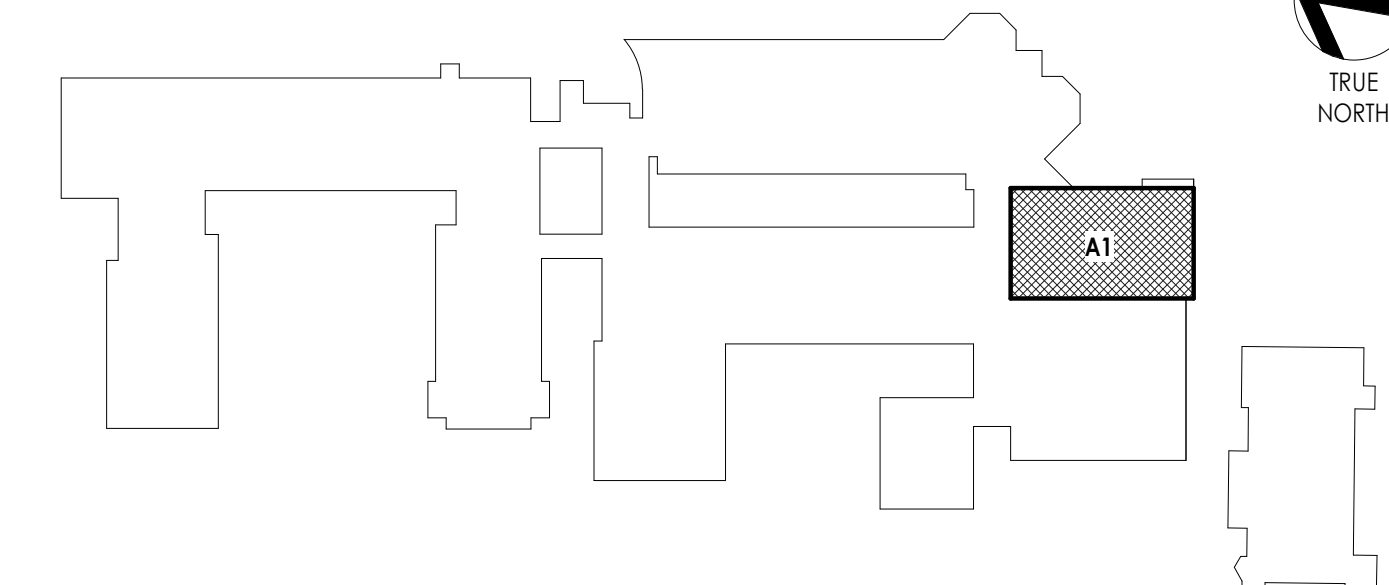
KEY NOTES

- ① DISCONNECT POWER AND REMOVE ALL ASSOCIATED BRANCH CIRCUITRY FROM HVAC EQUIPMENT BACK TO SOURCE IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED MOTOR CONTROLLERS/DISCONNECTS IN THEIR ENTIRETY.
- ② DISCONNECT, REMOVE AND STORE EXISTING LIGHTING FIXTURES, SMOKE DETECTORS, PA SYSTEM SPEAKERS, WIRELESS ACCESS POINTS AND IP CAMERAS ON CEILING WITHIN THIS DASHED AREA UPON COMPLETION OF CEILING REPLACEMENT. TAG AND MAINTAIN EXISTING WIRING FOR RE-USE.
- ③ DISCONNECT AND REMOVE ALL CONDUITS WITH WIRING ASSOCIATED AND HVAC UNITS BACK TO SOURCE IN THEIR ENTIRETY. MAINTAIN EXISTING CIRCUIT BREAKERS IN EXISTING PANEL FOR REUSE IN RELOCATED HVAC UNIT.



1
E102
SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A2
1/8" = 1'-0"

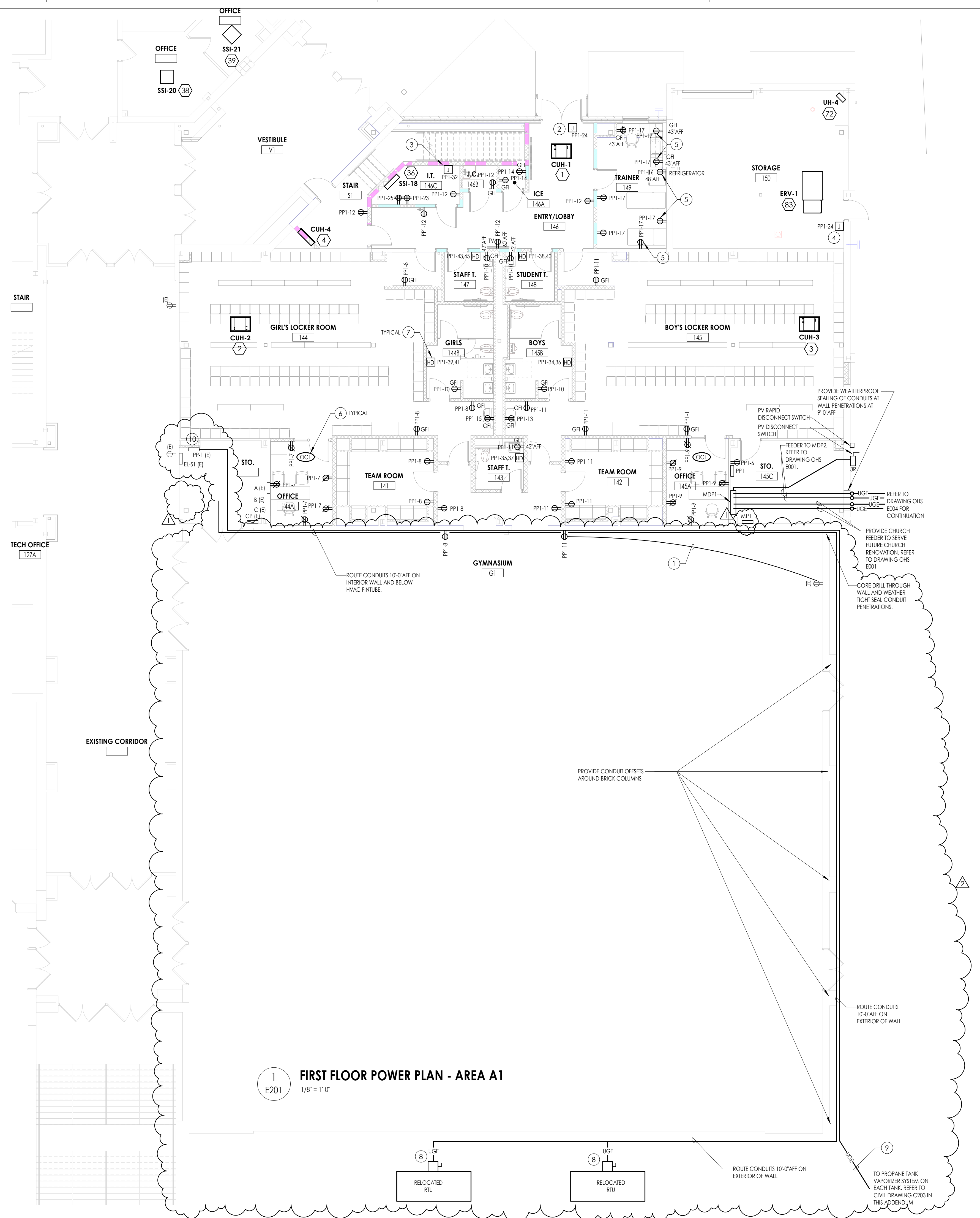
KEY PLAN:



SHEET INFORMATION

Issued 04/27/2026 Scale AS NOTED
Project Status BID DOCUMENTS
Drawn By JAS Checked By JBT
Drawing Title
SECOND FLOOR ELECTRICAL DEMOLITION PLAN - AREA A2

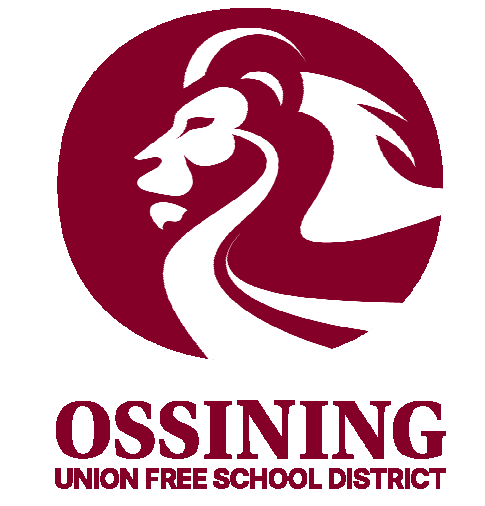
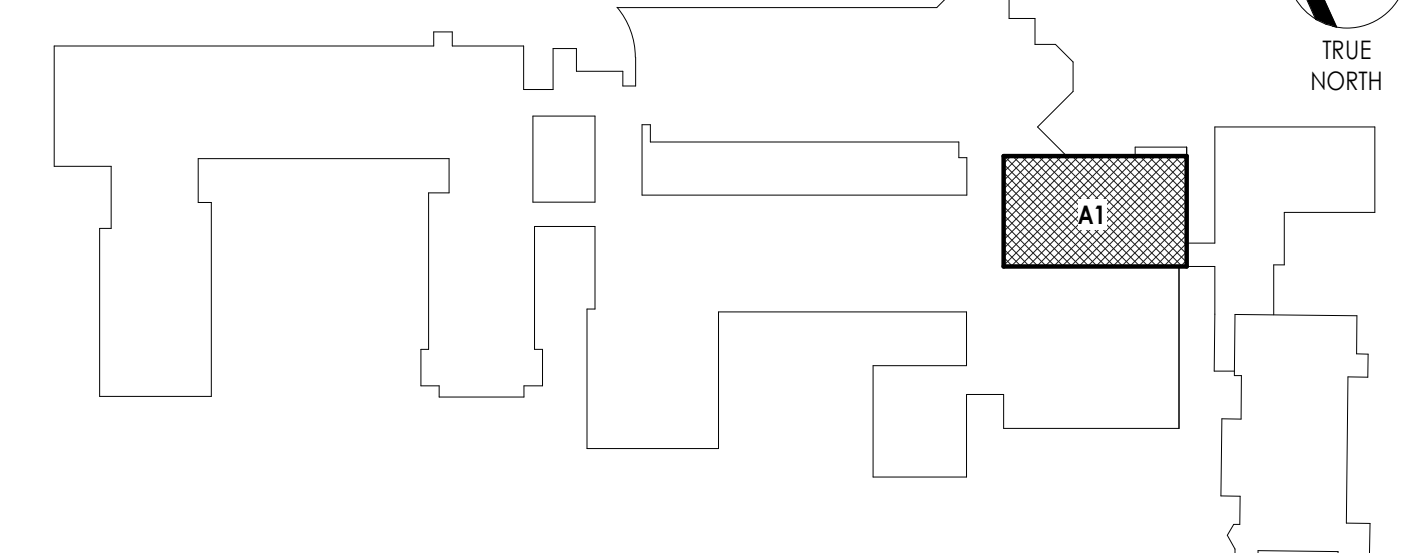
Drawing Number
OHS E102



1 FIRST FLOOR POWER PLAN - AREA A1
 E201 1/8" = 1'-0"

- GENERAL NOTES**
- FIXTURES, DEVICES, AND EQUIPMENT LABELED AS (E) ARE EXISTING AND ARE SHOWN FOR REFERENCE ONLY. THESE DEVICES SHALL REMAIN OPERATIONAL FOLLOWING CONSTRUCTION.
 - UNLESS OTHERWISE NOTED (UON), CONNECT NEW DEVICES TO PANEL AND CIRCUIT INDICATED ADJACENT TO DEVICE. WIRE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.
 - WIRING OVER 100' SHALL BE #10 THHN, UON.
 - AT EACH SYMBOL, (XX) REFER TO DRAWING OHS E900 FOR ALL WIRING, CIRCUIT AND BREAKER INFORMATION.
 - PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.
 - REFER TO DRAWING E006 FOR PV SOLAR REQUIRED NFPA 70 EQUIPMENT LABELING.
 - ON EXISTING CMU/BRICK WALLS TO REMAIN, MOUNT NEW DEVICES USING SINGLE CHANNEL, 2-PIECE SURFACE METAL RACEWAY TYPE SR WITH MANUFACTURER MATCHING DEVICE BOXES. INSTALLATION AT LOCATION OF NEW WALLS SHALL BE RECESSED WITHIN.
- KEY NOTES**
- PROVIDE 2#12, 1#12 EGC IN SURFACE METAL RACEWAY. ROUTE RACEWAY FROM RECEPTACLE UP TO ABOVE WALL PADS AND RUN HORIZONTAL OVER TO EXISTING RECEPTACLE. REMOVE AND REINSTALL WALL PADS FOR VERTICAL RUN DOWN TO EXISTING RECEPTACLE AS REQUIRED.
 - PROVIDE 120-VOLT (2#12, 1#12 EGC IN 3/4" CONDUIT TO PANEL INDICATED) POWER INSTALLED IN JUNCTION BOX ABOVE CEILING TO SERVE ELECTRONIC DOOR HARDWARE POWER SUPPLY. PROVIDE 2#12, 1#12 EGC IN 1/2" CONDUIT FROM JUNCTION BOX DOWN TO DOOR HARDWARE. ROUTE WITHIN DOOR FRAME ON HINGED SIDE OF DOOR. INSTALL DOOR HARDWARE POWER SUPPLY FURNISHED BY GC.
 - PROVIDE 2#12, #12 EGC IN 3/4" CONDUIT FROM ACCESS CONTROLLER TO PANEL PANEL PPI-1 IN STOR. 145C.
 - PROVIDE 120-VOLT (2#12, 1#12 EGC IN 3/4" CONDUIT TO PANEL INDICATED) POWER INSTALLED IN JUNCTION BOX HIGH UP ON WALL TO SERVE ELECTRONIC DOOR HARDWARE POWER SUPPLY. PROVIDE 2#12, 1#12 EGC IN 1/2" CONDUIT FROM JUNCTION BOX DOWN TO DOOR HARDWARE. ROUTE WITHIN DOOR FRAME ON HINGED SIDE OF DOOR. INSTALL DOOR HARDWARE POWER SUPPLY FURNISHED BY GC.
 - DEVICE TO BE INSTALLED IN SINGLE CHANNEL, 2-PIECE SURFACE METAL RACEWAY TYPE SR TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH COMPATIBLE RACEWAY DEVICE BOX. CONDUIT WILL NOT BE ACCEPTED.
 - PROVIDE OCCUPANCY SENSOR MOUNTED ON CEILING FOR AUTOMATICALLY CONTROLLED RECEPTACLES. REFER TO DETAIL 4 DRAWING OHS E800 FOR WIRING AND REQUIRED EQUIPMENT.
 - HARDWIRE CONNECTIONS TO HAND DRYERS. PROVIDE 2#12, 1#12 GND IN 3/4" CONCEALED CONDUIT FOR POWER TO HAND DRYER. COORDINATE CONNECTIONS REQUIRED TO EACH DEVICE WITH FIXTURE INSTALLER.
 - CIRCUIT TO EXISTING PANELBOARD IN STORAGE ROOM AND RECONNECT TO EXISTING CIRCUIT BREAKERS PREVIOUSLY FEEDING RTU UNITS. PROVIDE (3#8, 1#10 EGC IN 1" CONDUIT) ROUTED ALONG EXTERIOR OF BUILDING, THROUGH GYM AND OVER TO STORAGE ROOM WITH PANELS INDICATED. PROVIDE REQUIRED PULL BOXES SIZED PER NEC. AT UNITS FROM WALL USE UNDERGROUND RIGID METAL CONDUIT WITH CONDUCTORS FROM WALL TO UNIT DISCONNECT SWITCHES.
 - PROVIDE 2-SETS OF (2#8 AWG, 1#10 EGC IN 1" CONDUIT) EACH SET. TRANSITION TO UNDERGROUND CONDUIT AT EXTERIOR OF BUILDING WALL WHERE 'UGE' IS INDICATED TO ROUTE OVER TO PROPANE TANKS. MAKE ALL FINAL CONNECTIONS TO PROPANE TANKS USING DIV 1 CLASS 1 ELECTRICAL CONNECTIONS AT AND NEAR TANK.
 - PROVIDE (2) 30 AMP, 208 VOLT, 2-POLE CIRCUIT BREAKERS FOR INSTALLATION IN EXISTING PANELBOARD. CIRCUIT BREAKER TO BE UL LISTED FOR INSTALLATION INTO EXISTING PANELBOARD. LABEL CIRCUIT BREAKERS "PROPANE TANK VAPORIZER". PROVIDE UNDERGROUND TRENCHING OF CONDUITS APPROXIMATELY 100 FEET EACH CIRCUIT WHICH INCLUDES VERTICAL AT TANK TO FEED VAPORIZER UNITS.

KEY PLAN:



PROJECT INFORMATION

Project Number: R24.16761.00
 Client Name: OSSINING UNION FREE SCHOOL DISTRICT
 Project Name: 2024 BOND: PHASE 1
 Project Address: OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION
 29 S HIGHLAND AVE, OSSINING, NY 10562

OSSINING UNION FREE SCHOOL DISTRICT
 OSSINING HIGH SCHOOL, SED NO. 66-1401-03-003-047

PROJECT ISSUE & REVISION SCHEDULE

Issue	Description
1	05/08/2026 BID ADDENDUM NO. 01
2	05/20/2026 BID ADDENDUM NO. 3

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
 I, AS A LICENSED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT I AM THE DESIGNER OF THIS PROJECT AND I AM NOT PROVIDING ENGINEERING SERVICES TO ANY OTHER PARTY FOR THIS PROJECT.

SHEET INFORMATION

Issued	Scale
04/27/2026	AS NOTED

Project Status: BID DOCUMENTS
 Drawn By: JAS
 Checked By: JBT
 Drawing Title: FIRST FLOOR POWER PLAN - AREA A1

Drawing Number: OHS E201