ARCHITECTURE
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ADDENDUM NO. 03

PROJECT:	South Orangetown Central School District PHASE 2: 2022 BOND
CPL PROJECT NO.	14457.20
DATE:	November 8, 2024

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

1.1 All RFI's received prior to **11/08/24** have been responded to and are attached to this Addendum.

CORRECTIONS TO ADDENDA

2.1 ADDENDUM #2: ITEM 2.2: Modify "2.20.L" to read as "2.02.L.a"

CHANGES TO THE SPECIFICATIONS

3.1 Before Section 024100: Add attached Section 020800 – ASBESTOS ABATEMENT PROCEDURES.

3.2 Specification Section 096500: Replace with attached revised Section 096500.

3.3 Specification Section 101100: Replace with attached revised Section 101100.

3.4 OMIT Specification Section 096813 – Tile Carpeting.

CHANGES TO THE DRAWINGS

4.1 Drawing HZ101: Replace with attached revised HZ101.

4.2 Drawing HZ102: Replace with attached revised HZ102.

4.3 Drawing HZ103: Replace with attached revised HZ103.

4.4 Drawing A801: Replace with attached revised A801.

4.5 Drawing H201: Replace with attached revised H201.

26 IBM Rd,
Poughkeepsie, NY 12601
cplteam.com
845.567.6700 TEL
845.567.9614 FAX

4.6 Drawing H202 Replace with attached revised H202.

4.7 Drawing H203: Replace with attached revised H203.

4.8 Drawing H204: Replace with attached revised H204.

4.9 Drawing H205: Replace with attached revised H205.

4.10 Drawing H212: Replace with attached revised H212.

4.11 Drawing H213: Replace with attached revised H213.

4.12 Drawing H302: Replace with attached revised H302.

4.13 Drawing H303: Replace with attached revised H303.

4.14 Drawing H903: Replace with attached revised H903.

END OF ADDENDUM NO. 03

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REQUEST FOR INFORMATION

RFI #: 1-10
Date: 11/1/2024

SOCSD PHASE 2: 2022 BOND: 14457.20

Contractor Name: Bertussi Contracting Inc

To: Lisa Fasciglione Firm: CPL

From: Stephanie Weber

WE REQUEST YOUR ATTENTION (OR CONFIRMATION) REGARDING THE FOLLOWING:

Subject:

Location:

Information is Requested By:

MESSAGE:

Please see attached.

1. Yes
2. Yes
3. It is advisable to get started on 01 MAY 25 with ancillary demolition. If the apparent low bidder demonstrates the milestone schedule can be completed with a later starting date, it would be acceptable. (Response from TPG)
4. Yes (Response from TPG)
5. Second shift work is not required for the boiler room work, but it is an option: 3:30PM - 11:30PM (Response from TPG)
6. Please refer to Addendum #1 for construction schedule. The apparent low bidder is responsible to provide the detailed schedule (Response from TPG)
7. No
8. Yes
9. Coordinate with utility provider, Orange & Rockland, for removal of existing 5000cfh meter and replace with 7000 cfm meter.
10. Yes

L.FASCIGLIONE 11/08/24

Contractors Name:

By: Date:

CPL
26 IBM Road
Poughkeepsie NY, 12601
CPLteam.com
800.294.9000 TEL

1. Is grooved piping /fittings acceptable to use on any hydronic / hydraulic on pipe from 2” – 4”? Please advise
2. ACR Soft copper tubing was used on the last project for the VRF system at WOS & CLES. Is ACR soft copper tubing acceptable for use in lieu of rigid copper tubing on the VFR system in Phase 2? Please advise.
3. Would it be acceptable to start boiler room work after 5/15/25? Please advise,
4. If boiler room work is acceptable after 5/15/25, can this work be done during the first shift. Please advise.
5. If night work is required, what are the hours we can work? Please advise.
6. Please provide a detail project schedule.
7. Is glycol required for for the heating system? Please advise.
8. Is Zoomlock Max acceptable for this the VRF system? Please advise.
9. On plumbing drawings it shows upgrading the gas meter. Please provide a more detailed scope of work as to what is required.
10. The drawings show all gas to the boilers is done by the HVAC contractor. Please confirm this is to be done by the HVAC contractor and not the plumbing contractor.

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REQUEST FOR INFORMATION

RFI #: 11
Date: 11/8/2024

SOCSD PHASE 2: 2022 BOND: 14457.20

Contractor Name: Bertussi Contracting Inc

To: Lisa Fasciglione Firm: CPL

From: Stephanie Weber

WE REQUEST YOUR ATTENTION (OR CONFIRMATION) REGARDING THE FOLLOWING:

Subject: VRF System

Location:

Information is Requested By:

MESSAGE:

See attached

Contractors Name:

By: Date:

CPL
26 IBM Road
Poughkeepsie NY, 12601
CPLteam.com
800.294.9000 TEL

We want to make you aware of this issue that has been brought to our attention from our Fujitsu VRF supplier. For the Phase 2 bid, the equipment currently scheduled is going to be phased out due to the new refrigerant laws. Our suppliers can at this time only quote the equipment that is phasing out as pricing for the newer lines that will meet compliance, is not yet available and will not be until mid December/early January.

In the event award, the equipment would have to be purchased and released within the next month and there is NO guarantee the inventory will be available. Additionally there will be price increases with the new line.

VRF equipment can be manufactured with 410A until the end of 2025. There will be no issues if the equipment is ordered in the spring. We received this information direct from the supplier.

J.Masula
11-08-24

OMEGA
ENVIRONMENTAL SERVICES, INC

SECTION 020800

PROJECT SPECIFICATION FOR ASBESTOS ABATEMENT

3

Client Contact:

Lisa Fasciglione
CPL
30 Century Hill Drive
Latham, NY 12110

Project Location:

Tappan Zee High School
15 Dutch Hill Road
Orangeburg, NY 10962
(200, 300 & 400 Wings)

Asbestos Abatement Scope of Work:

- ACM VAT/Mastic & Cove Base: approx. 16,120 sq. ft.
- PACM Board/Chalkboard & Glue Dots: approx. 1,140 sq. ft.

Project Designer(s) Information:

Prepared by: Veronica Kero, CIH, P.E.
USEPA/NYS DOL Project Designer (Cert#: 24-6T6J8-SHAB)
NY-PE License #: 087449-1

Drawing Preparation: Stan Blackman
USEPA/NYS DOL Project Designer (Cert#: 24-6TLAB–SHAB)

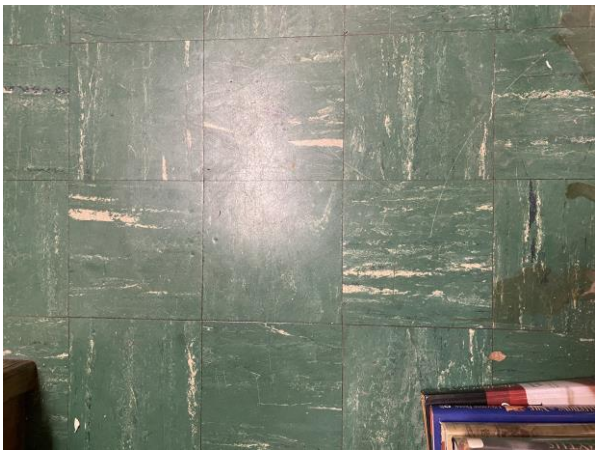
Sr. Project Manager: Anton Rezin
USEPA/NYS DOL Project Designer (Cert#: 24-6Z61L-SHAB)

Date Issued: 11/7/2024

Table of Contents

ACM VAT/Mastic Flooring including Cove Base:






Article I. EXECUTIVE SUMMARY

Section 1.01 General

(a) This Project Specification was prepared by Omega Environmental Services Inc. (Omega) for CPL who shall from this point in the documents be referred to as the Owner's Representative.

(b) This Project Specification was prepared and developed for specific use in Tappan Zee High School for removal of ACM during the proposed renovation scope of work. Use of this document on any project except as described herein is prohibited unless prior written permission is obtained from Omega.

(c) No specific warranties or guarantees are made by Omega or its employees, as to the use of any information, product, apparatus, and/or process disclosed herein. Even though every reasonable effort has been employed by Omega personnel to assure that this document is correct, the Abatement Contractor shall bring all discrepancies to the immediate attention of Omega.

(d) The work described in this document shall comply with the general, supplementary, and other conditions included in the complete set of project documents.

(e) **Abatement Scope of Work (SOW) explained in this Project Specification is based on previous asbestos survey information provided by Omega Environmental Services, Inc. and the current site condition verification walk-through.**

Section 1.02 Primary Contacts

(a) Contact List

(i) **Owners Representative:**
Name Lisa Fasciglione
Phone # (845) 522-5796
E-mail: LJFasciglione@cplteam.com

(ii) **Omega Representative:**
Name Anton Rezin
Phone # (201) 489-8700
E-mail: Antonr@omega-env.com
Note: Any technical question associated with this project specification should be addressed in writing or email to Anton Rezin.

Article II. SUMMARY

Section 2.01 Project Description

(a) The Owner is planning a renovation project in the Tappan Zee High School which requires the removal of asbestos containing flooring (VAT) plus associated mastic and cove base, and "PACM" chalkboard glue dots.

(b) **This project shall be classified as a "large" project below an Educational type facility.**

Section 2.02 Scope of Work

(a) Abatement Contract base bid work shall include removal of ACM utilizing procedures described in Table below.

Scope of Asbestos Abatement Work:

Abatement Contractor is responsible for verifying that all ACM (exposed and concealed) is removed from the SOW areas.

Table 1: Scope of Work Summary

Location(s)		Description of ACM Identified	Estimated Removal QTY	Abatement Procedure	Notes
Floor	**Area**				
200 Wing	Area B, Classrooms 200	VAT/Mastic & Cove Base	820 sq. ft.	NYSDOL Full Containment Utilizing Grinding Methods Use of Chemical Removal may be Required for Specific Rooms/Locations	CPL/Owner to confirm which classroom(s) that will require chemical removal (No residual chemical odors permitted)
300 Wing	Area C1 – C2, Classrooms 301, 303, 305, 306, 307, 309, 310, 311, 311A & 312	VAT/Mastic & Cove Base	6,350 sq. ft.		
400 Wing	Area D1 - D2, Classrooms 400, 402 – 410, 412, 415, & 421	VAT/Mastic & Cove Base	8,950 sq. ft.		
* Exact quantities to be verified during the abatement phase(s).					

Table 2: Scope of Work Summary

Location(s)		Description of ACM Identified	Estimated Removal QTY	Abatement Procedure	Notes
Floor	**Area**				
200 Wing	Multiple Classrooms	(PACM) Board/Chalkboard & Glue Dots	385 sq. ft.	NYSDOL Non-Friable Tent Procedures	Abatement Contractor to verify exact square feet of Chalkboard & Glue Dots
300 Wing	Multiple Classrooms	(PACM) Board/Chalkboard & Glue Dots	650 sq. ft.		
400 Wing	Multiple Classrooms	(PACM) Board/Chalkboard & Glue Dots	105 sq. ft.		
* Exact quantities to be verified during the abatement phase(s).					

Table Notes

(b) **Abatement scope of work includes the removal of VAT/mastic/cove base and PACM chalkboard glue in the Tappan Zee High School.**

(c) Abatement Contractor is responsible for field verification of locations and the quantities of ACM. No change orders for extras shall be approved in the event the Abatement Contractor fails to verify the reported locations and quantities of ACM**.**

(d) Building personnel will not have access to the portions of the building in which the work is being performed during the entire asbestos removal operation, including completion of clean-up except for an emergency.

(e) Two means of emergency egress to remain available at all times during the abatement period. Abatement Contractor to coordinate with Owner/GC for exact egress routes.

(f) Abatement Contractor will be responsible for all filing fees and variance (*if required*).

(g) **Abatement Contractor is responsible for the removal of all ACM materials delineated in the asbestos abatement work area(s) and shown on drawings, including any strips of VAT/mastic under partition walls and/or PTEC units to be demolished.**

(h) Abatement work must be conducted in strict accordance with CPL, abatement, and construction schedules.

(i) Prior to the start of any prep work, the Owners Licensed Electricians, Plumbers, and other Tradesman shall Lockout/Tag-Out existing systems utilities where disconnects are available outside the work area.

(j) Abatement Contractor to coordinate with the Owner for the exact AFD exhaust locations to the outside.

(k) **Abatement work is expected to be scheduled during the Spring 2025 school recess.**

(l) Separate wings of the building may be partially occupied at the time of abatement, immediate abatement work area's to be vacated.

(m) **Owner will be responsible for re-locating all contents in the abatement work area prior to the onset of abatement activities, including any bolted down furniture or equipment (disturbance of asbestos floor VAT/mastic not permitted).**

(n) In the event of a schedule change request (i.e. double shifts, weekend work, holiday work, etc.), both the Owner and Omega must be notified in writing 48 hours prior and approved by the notified parties.

(o) Abatement Contractor shall not be permitted to traverse adjacent occupied school areas. Routing to be coordinated with the Owner.

Section 2.03 Filings, Procedures & Regulations

A. This Project falls under New York State jurisdiction, such that all abatement procedures and filings must performed in accordance with ***ICR 56 of Title 12 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (Cited as 12 NYCRR Part 56)***

(a) **Abatement Contractor shall follow all of the owner's policies and procedures, in addition to OSHA, Local, EPA, and NYSDOL rules/regulations pertaining to asbestos abatement.**

(b) Abatement Contractor will be responsible for providing all NYSDOL filing fees. In addition to state filings/notifications, which shall be handled by the Abatement Contractor.

(c) All provisions of State of New York Department of Labor, (DOL) Asbestos Regulations Industrial Code Rule 56.

(d) U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA):
- Asbestos Regulations: Title 29, Part 1910, of the Code of Federal Regulations.
- Respiratory Protection: Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
- Construction Industry: Title 29, Part 1926, of the Code of Federal Regulations.
  Access to Employee Exposure & Medical Records: Title 29, Part 1910, Section 20 of the Code of Federal Regulations.
- Hazard Communication: Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
- Specifications for Accident Prevention Signs and Tags: Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

(e) U.S. Environmental Protection Agency (EPA)
- 40 CFR Part 763
- 40 CFR Part 61

(f) New York State Department of Environmental Conservation (DEC) Regulations regarding waste collection registration. Title 6, Part 364 of the New York State Official Compilation of Codes, Rules, and Regulations – 6NYCRR 364.

(g) NYSDOH Title 10 Part 73 – Asbestos Safety Program and Environmental Laboratory Approval Program.

Section 2.04 Applicable Standards:

A. Applicable standards include, but are not limited to, the following:

a. Environmental Protection Agency (EPA)
Region II
Air and Hazardous Materials Division
Federal Building, Room 802
26 Federal Plaza
New York, NY 10007

b. Occupational Safety & Health Admin. (OSHA)
US Dept. of Labor
1515 Broadway/Room 3445
New York, NY 10036
[asbestos, lead, fall protection, electrical, etc.]

c. State of NY Dept. of Environmental Conservation
Division of Solid Waste Management
50 Wolf Road
Albany, NY 11202

d. NYS Dept. of Labor (DOL)
Asbestos Control Program
One Hudson Square, 75 Varick Street (7th Floor)
New York, NY 10013

e. American National Standards Institute (ANSI)
1430 Broadway
New York, NY 10018

B. The Contractor has the responsibility of informing his/her personnel and the Owner of the requirements of these agencies and shall satisfy completely these specifications and all referenced regulations, and as amended.

Section 2.05 Occupant Safety

(a) Abatement Contractors shall not generate excess levels of noise, dust, or other nuisance hazards such that occupants cannot perform their normal work routine especially if the space above the work area involves sensitive health care operations. Abatement Contractor shall not damage elevators or other building services such that the spaces cannot be utilized by the occupants. Abatement Contractors shall not damage flooring or other finishes in non-construction areas.

(b) Neighboring Spaces:

(i) While the abatement area shall be non-occupied during abatement, adjacent spaces may be partially occupied and operational.

Section 2.06 Scheduling & Labor

(a) Anticipated project schedule: **TBD** (Spring 2025 or other school break time period)**.**

(b) The official Start date must be approved by the Owner. The Abatement Contractor shall be responsible for notifying Omega Environmental of the official start date prior to permits being issued.

(c) All schedules changes must be approved by Owner prior to onset of work.

(d) Special schedule requirements: **TBD.**

(e) The asbestos Abatement Contractor should utilize multiple crews such that overtime premium labor rates do not apply.

(f) Times and shifts will be coordinated during the mandatory pre-bid walkthrough meeting.

Section 2.07 Project-Specific Details:

(a) Abatement Details:

(i) **The following methods should be utilized for ACM removal:**
- **NYSDOL procedures for abatement of interior materials for removal of VAT/Mastic. Grinding of ACM mastic shall be conducted in full containment where applicable.**
- **Limited use of NYSDOL procedures utilizing chemical removal is expected where applicable (Owner to confirm exact location/classroom). No residual chemical odors permitted at completion of abatement**

(ii) Manual method(s) to be utilized throughout the abatement phase(s), except for the mastic grinding.

(iii) Abatement area(s) shall be 100% asbestos free for current SOW at completion of abatement project.

(iv) Abatement Contractor may not block/prop open any fire-rated doors during abatement, as it would cause an unnecessary fire hazard.

(v) Abatement Contractor to report any cabinetry or furniture blocking of ACM material so that items can be removed by the Owner.

(vi) Expected decon staging locations(s).

Article III. UTILITIES HOOK-UP

Section 3.01 Water Service:

(a) Temporary Water Service Connection: All connections to the owner's water system shall include backflow prevention. After completion of use connections and fittings shall be removed without damage or alteration to existing water piping and equipment. Leaking fittings/valves shall be repaired and/or replaced as required.

(b) Water Hoses: Use heavy-duty abrasion-resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water into each work area and to each decon.

(c) Water Heater: Provide UL-rated 40-gallon electric water heaters to supply hot water for the personal decontamination shower. Drip pans shall be at least 6" deep and securely fastened to the water heater.

Section 3.02 Electrical Service:

(a) Temporary Power: Provide service to decon sub-panel with minimum 100 AMP, 2-pole circuit breaker, or fused disconnect connected to the building's main distribution panel. Sub-panel and disconnect shall be sized and equipped to accommodate all electrical equipment required for the completion of work.

(b) Temporary Lighting: Abatement Contractor shall provide adequate lighting to ensure proper workmanship.

(c) Ground Fault Protection: Equip all circuits with ground fault circuit interrupters. Locate panel outside containment.

(d) Wiring: Provide circuits of adequate size and proper characteristics for each use.

(e) Extension Cords: Use only grounded heavy-duty extension cords in single lengths.

Article IV. WASTE REMOVAL

Section 4.01 Removal & Storage:

(a) **Asbestos Waste Container with Owner/GC approval to be utilized for this project.**

(b) All routes through the building to be used for transportation of waste shall be protected to avoid contamination and damage. If abatement waste routes utilize elevators, the Abatement Contractor shall be responsible for protection of the elevators during waste bag out and all phases of this project.

(c) ACM shall be packaged and sealed in leak-proof containers according to the following:

(i) The Abatement Contractor shall double-bag all waste material utilizing 6 mil. polyethylene bags which should not be overfilled. Air inside the bags shall be evacuated with the HEPA vacuum. The top of the bags shall be twisted and tied in order to achieve a seal.

(ii) Contamination material with sharp edges (metal lather, ductwork, ceiling grid, etc.) shall be cut to size and placed in plastic-lined boxes which are subsequently bagged.

(iii) All bags shall be marked with pre-printed labels as prescribed in Section 61.150 of the EPA regulations, OSHA regulations, and DOT regulations.

(d) All waste shall be transported through the building (in enclosed carts) according to the route specified.

(e) At no time shall random removal of waste from the work area be allowed;

(f) No material shall be dropped inside the work area;

(g) No asbestos waste bags shall be stored on-site. A waste pick-up must be scheduled by the Abatement Contractor at the conclusion of each shift.

(h) The work site and all access routes shall be cleaned daily by the Abatement Contractor.

Section 4.02 Transportation & Disposal:

(a) Asbestos container location to be approved by Owner.

(b) All ACM, ACM-wastes, and plastic, disposable equipment, and supplies shall be disposed of as contaminated waste in accordance with EPA NESHAPS regulations.

(c) Each asbestos waste bag shall be labeled individually with Generator ID as required which shall be inspected by the Project Monitor.

SECTION 096500
RESILIENT FLOORING

3

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient tile flooring.

B. Resilient base.

C. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 033000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors to receive adhesive-applied resilient flooring.

B. Section 090561 - COMMON WORK RESULTS FOR FLOORING PREPARATION: Removal of existing floor coverings, cleaning, and preparation.

C. Section 260526 - Grounding and Bonding for Electrical Systems: Grounding and bonding of static control flooring to building grounding system.

1.03 REFERENCE STANDARDS

A. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, with Editorial Revision (2020).

B. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring; 2006 (Reapproved 2018).

C. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2019, with Editorial Revision (2020).

D. ASTM F970 - Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading; 2022.

E. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2018).

F. ASTM F1344 - Standard Specification for Rubber Floor Tile; 2021a.

G. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.

H. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2016a.

I. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

J. NSF 332 - Sustainability Assessment for Resilient Floor Coverings; 2022.

K. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings; 2011.

L. UL 2824 - GREENGUARD Certification Program Method for Measuring Microbial Resistance from Various Sources Using Static Environmental Chambers; Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 013300 - Submittal Procedures, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Verification Samples: Submit two samples, 12 by 12 inch in size illustrating color and pattern for each resilient flooring and accessory product specified.

D. Verification Samples: Submit two samples, full sized, illustrating color and profile for each reisilient wall base and accessory product specified.

E. Sustainable Design Submittal: Submit VOC content documentation for flooring and adhesives.

F. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

G. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.

H. Manufacturer's Qualification Statement.

I. Installer's Qualification Statement.

J. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

K. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 016000 - Product Requirements, for additional provisions.
   2. Extra Flooring Material: Quantity equivalent to 5 percent of each type and color.
   3. Extra Wall Base: Quantity equivalent to 5 percent of each type and color.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience.

B. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience.

C. Testing Agency Qualifications: Independent firm specializing in performing concrete slab moisture testing and inspections of the type specified in this section.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.

B. Store all materials off of the floor in an acclimatized, weather-tight space. Cartons to be stored on a flat, dry, level surface.

C. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

D. Protect roll materials from damage by storing on end.

E. Do not double stack pallets.

1.07 WARRANTY

A. Provide manufacturers written warraanty for each type of product specified in this section.

1.08 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 RESILIENT TILE FLOORING

A. Refer to Interior Drawings and Finish Schedule for Manufacturer, Product and Color.

B. Vinyl Composition Tile [VCT]: Homogeneous, with color extending throughout thickness.
   1. Manufacturers: **Basis of Design: Refer to I000 Finish Schedule**
      a. Substitutions: See Section 016000 - Product Requirements.
   2. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
   3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   4. Size: Refer to I000 Finish Schedule

5. Thickness: Refer to I000 Finish Schedule
6. Pattern: Refer to I000 Finish Schedule.
7. Color: Refer to I000 Finish Schedule

2.02 RESILIENT BASE

A. Refer to Interior Drawings for Manufacturer, Product, and Color.

B. Resilient Base [RB]: ASTM F1861, Type TV, vinyl, thermoplastic. **Manufacturer**: **Basis of design, Refer to I000 Finish Schedule**
   1. Substitutions: See Section016000-Product Requirements.
      a. Burke Flooring; Commercial Wall Base - TS: www.burkeflooring.com/#sle.
      b. Armstrong Flooring: www.armstrongflooring/#sle.
      c. Roppe Corp: www.roppe.com/#sle.
      d. Substitutions: See Section 016000 - Product Requirements.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   3. Height: Refer to I000 Finish Schedule
   4. Thickness: 0.125 inch.
   5. Finish: Matte.
   6. Length: Roll.
   7. Color: Refer to drawing I000 Finish Schedule
   8. Accessories: Premolded external corners and internal corners.

2.03 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.

C. Adhesive for Vinyl Flooring: As recommended by manufacturer

D. Moldings, Transitions, Nosings, and Edge Strips: As indicated on Interior Drawings and Finish Schedule.
   1. Manufacturers: **Basis of Design, Refer to drawing I000 Finish Schedule**
      a. Substitutions: See Section 016000 - Product Requirements.

E. Filler for Coved Base: Plastic.

F. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
   1. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
   2. Follow moisture and alkalinity remediation procedures in Section 090561.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Remove existing resilient flooring and flooring adhesives; follow the recommendations of RFCI (RWP).

B. Prepare floor substrates for installation of flooring in accordance with Section 090561.

C. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

D. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with portland cement based subfloor filler and leveling compounds to achieve smooth, flat, hard surface.

E. Thoroughly sand existing terrazzo substrate to remove all glaze and waxes.

F. Prohibit traffic until filler is fully cured.

G. Clean substrate.

H. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Adhesive-Applied Installation:
   1. Spread only enough adhesive to permit installation of materials before initial set.
   2. Place copper grounding strip in conductive adhesive and apply additional adhesive to top side of strip before installing static control flooring. Allow strip to extend beyond flooring in accordance with static control flooring manufacturer's instructions. Refer to Section 260526 for grounding and bonding to building grounding system.
   3. Fit joints and butt seams tightly.
   4. Set flooring in place, press with heavy roller to attain full adhesion.

D. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
   1. Metal Strips: Attach to substrate before installation of flooring using stainless steel screws.
   2. Resilient Strips: Attach to substrate using adhesive.

F. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints. Provide flexible silicone joints where resilient flooring is adjacent to ceramic wall tile.

G. Install flooring in recessed floor access covers, maintaining floor pattern.

H. At movable partitions, install flooring under partitions without interrupting floor pattern.

3.04 INSTALLATION - TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

B. Lay flooring with joints and seams parallel to building lines to produce symmetrical pattern.

C. Install square tile to in pattern indicated on Interior Drawing and Finish Schedule. Allow minimum 1/2 full size tile width at room or area perimeter.

3.05 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

3.06 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

3.07 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

B. Install Ram Board with Vapor Cure Seam Tape for protection after installation

END OF SECTION

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SECTION 101100
VISUAL DISPLAY UNITS

3

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tackboards.

B. Magnetic Writeable Surfaces.

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 061000 - ROUGH CARPENTRY: Blocking and supports.

C. Section 092116 - Gypsum Board Assemblies: Concealed supports in metal stud walls.

1.03 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2022.

B. ASTM F793/F793M - Standard Classification of Wall Coverings by Use Characteristics; 2020.

1.04 SUBMITTALS

A. See Section 013300 - Submittal Procedures, for submittal procedures.

B. Product Data: Provide manufacturer's data on glass markerboard, tackboard, trim, and accessories.

C. Shop Drawings: Indicate wall elevations, dimensions, joint locations , special anchor details.

D. Samples: Color charts for selection of color and texture of glass markerboard, tackboard, tackboard surface covering, and trim.

E. Test Reports: Show compliance to specified surface burning characteristics requirements.

F. Manufacturer's Qualification Statement.

G. Maintenance Data: Include data on regular cleaning, stain removal .

H. Maintenance Materials: Provide one additional Glass Magnetic Marker Board with mounting hardware per classroom.

1.05 QUALITY ASSURANCE

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

1.06 WARRANTY

A. See Section 017700-Closeout Procedures for additional warranty requirements.

B. Provide manufacturers standard warranty for products outlined in this section.

PART 2 PRODUCTS

2.01 VISUAL DISPLAY UNITS

A. Tackboards: Composite cork with full thickness color. (TAS-1).
   1. Cork Thickness: 1/4 inch.
   2. Color: As selected from manufacturer's full range.
   3. Backing: Jute, , laminated to tack surface.
   4. Surface Burning Characteristics: Flame spread index of 75, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
   5. Size: As indicated on drawings.
   6. Frame: Extruded aluminum , with concealed fasteners.

7. Frame Profile: As indicated on drawings.
8. Frame Finish: Anodized, natural.
9. Warranty: manufacturers five-year limited waranty against defects.
10. Manufacturers: **Basis of Design: Tac-Wall by Koroseal, Refer to l000 finish Schedule.**
    a. US Forbo: Basis of Design.
    b. Substitutions: See Section 016000 - Product Requirements.

B. Writeable Surface Wallcovering (WS-1)
1. Woven backed, ferrous sheet bonded with white pigmented vinyl and capped with semi-gloss, dry erase film.
2. Color: White
3. Magnetic Receptive
4. Form: Rolled goods
5. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84.
6. Warranty: Manufacturers ten-year kimited warranty against defects.
7. Manufacturers: **Basis of Design: Walltalkers by Koroseal, Refer to l000 Finish Schedule.**
    a. Substitutions: See Section 016000 - Product Requirements.

2.02 MATERIALS

A. Corkboard: Homogenous material consisting of linseed oil, cork, rosin binders and dry pigments.

B. Coated Cellulose Wallcovering: Roll stock, complying with the following:
1. Total Thickness: 16 mil.
2. Total Weight: 20.5 oz/sq yd.
3. Coating Finish Weight: 0.95 oz/sq yd.
4. Roll Width: 60 inches.
5. Color: White.
6. Surface Texture: smooth.
7. Overcoating: Stain resistant polyester.

C. Adhesives: Type used by manufacturer.

2.03 ACCESSORIES

A. Aluminum Trim: Provide manufacturers aluminum trim at all exposed edges. Profile to be selected by architect from manufacturers full range.

B. Temporary Protective Cover: Sheet polyethylene, 8 mil thick.

C. Marker Tray: Aluminum, architect to select from manufacturers full range , _____, _____.

D. Mounting Brackets: Concealed.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.

C. Verify flat wall surface for adhesive-applied rolled goods. Installation indicated acceptance of substrate condition.

3.02 PREPARATION

A. Acclimatize wall panels by removing from packaging in installation area not less than 24 hours before application.

B. Remove switchplates, wall plates, and surface-mounted fixtures where corkboard and writeable surface is applied. Reinstall items on completion of installation.

C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Level 5 wall finish required at a
   1. Level 5 finish required at all wall surfaces to recieve magnetic dry erease and tackable surfaces.

3.03 INSTALLATION

A. Install boards in accordance with manufacturer's instructions, per substrate type within scope.

B. Secure units level and plumb.

C. Butt Joints: Install with tight hairline joints.

D. Carefully cut holes in boards for electrical devices.

3.04 CLEANING

A. Clean surfaces in accordance with manufacturer's instructions.

B. Cover with protective cover, taped to frame.

C. Remove temporary protective cover at Date of Substantial Completion.

END OF SECTION

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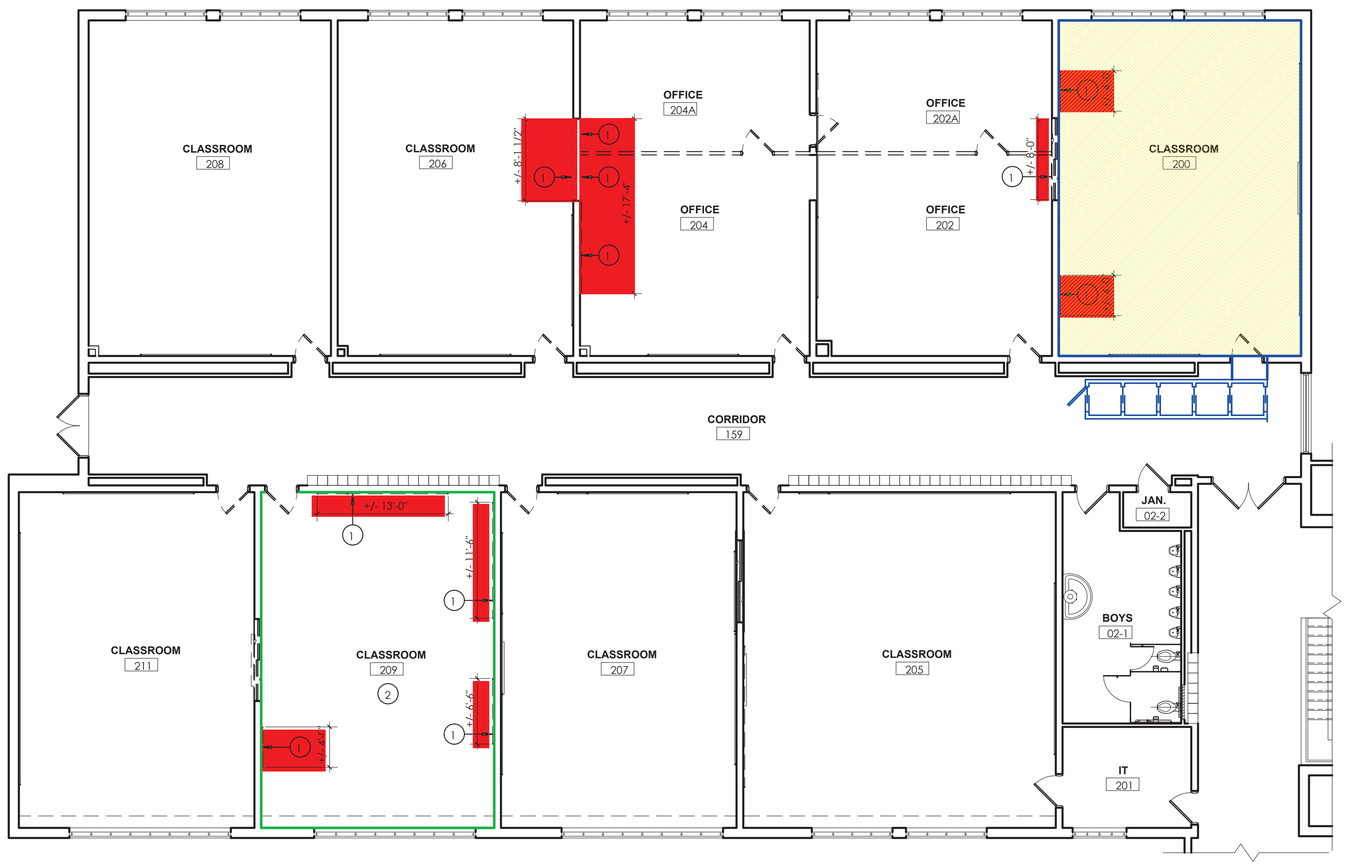
PLAN VIEW



1 HZ101 **AREA B -ASBESTOS ABATEMENT PLAN**
1/8" = 1'-0"

NOT TO SCALE

LEGEND:
- Remove Vinyl Asbestos Floor Tile, Wall Base, and Mastic down to Concrete Substrate.
- (1) Remove Wall Mounted PACM Board/Caulkboard & Glue Dots.
- (2) Remove Applied Wood Wall Paneling, Trim and Base, down to Plaster below (Full Extent of Room)
- Approximate Location of the Decon & Work Area Perimeter

Asbestos Abatement General Notes:

1. All drawings are a graphic representation of approximate locations of existing and new materials. It is the contractor's responsibility to field verify all existing conditions, quantities and dimensions prior to commencement of work.
2. The abatement plan notes list indicated below may, or may not, be indicated on the abatement plan(s) on this drawing sheet.
3. Abatement plan notes that point to a specific item indicates abatement of that item. Abatement plan notes that do not point to a specific item indicates abatement within the entire room, corridor, etc.
4. All work shall be performed in accordance with the project specification, OSHA 29 CFR 1926.1101, USEPA 40 CFR part 763 and 40 CFR part 61 - Sub Part M, NYS industrial code rule 56 and any appropriate applicable and/or site specific variances.
5. The location of any on-site storage of materials, equipment, decontamination facilities and dumpster/waste trailer shall be coordinated with and approved by the owner's representative and architect.
6. Where applicable, contractor shall ensure all electrical circuits within their work areas are properly locked/tagged in accordance with OSHA 29 CFR 1926.417.
7. Any quantities provided on the drawings are for bidding purposes only. The contractor is responsible for field verifying all job conditions and material quantities prior to bidding.
8. All work associated with asbestos abatement plan notes 5 7 and 8 shall be performed in accordance with asbestos variance file 22-0534 as appended to section 028213 - asbestos remediation.

Table 1: Scope of Work Summary

Location(s)		Description of ACM Identified	Estimated Removal QTY	Abatement Procedure	Notes
Floor	Area				
200 Wing	Area B, Classrooms 200	VAT/Mastic & Cove Base	820 sq. ft.	NYSDOL Full Containment Utilizing Grinding Methods Use of Chemical Removal may be Required for Specific Rooms/Location	CPL/Owner to confirm which classroom(s) that will require chemical removal
200 Wing	Multiple Classrooms	(PACM) Board/Chalkboard & Glue Dots	385 sq. ft.	NYSDOL Non-Friable Tent Procedures	Abatement Contractor to verify exact square feet of Chalkboard & Glue Dots

* Exact quantities to be verified during the abatement phase(s).

ASBESTOS LOCATION PLAN: 200 WING - AREA B

DWG: 01

SITE:
Tappan Zee High School
15 Dutch Hill Road,
Orangeburg, NY 10962

CONSULTANT:
Omega Env. Services
280 Huyler Street
S Hackensack,NJ 07606
Tel: (201) 489-8700
Fax: (201) 342-5412

Veronica Kero
Project Designer:
License #: 91-00474

NY-PE License #:
087449-1

STATE OF NEW YORK * VERONICA KERO * LICENSED PROFESSIONAL ENGINEER * 087449-1

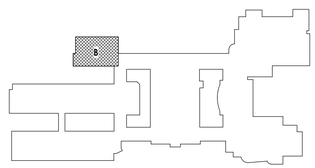
Job #: 24-10-3385

REVISION

No.	Date
1	11/07/2024
2	

OMEGA ENVIRONMENTAL SERVICES, INC

KEY PLAN:



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CPLeam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION
Project Number
R22.14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
3	11/08/2024	BID ADDENDUM #3

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA B ASBESTOS ABATEMENT PLAN
3
Drawing Number: TZHS HZ101

PLAN VIEW

NOT TO SCALE

LEGEND:

- (Yellow) Remove Vinyl Asbestos Floor Tile, Wall Base, and Mastic down to Concrete Substrate.
- (Red, 1) Remove Wall Mounted PACM Board/Caulkboard & Glue Dots.
- (Green, 2) Remove Applied Wood Wall Paneling, Trim and Base, down to Plaster below (Full Extent of Room)
- (Blue) Approximate Location of the Decon & Work Area Perimeter

Asbestos Abatement General Notes:

1. All drawings are a graphic representation of approximate locations of existing and new materials. It is the contractor's responsibility to field verify all existing conditions, quantities and dimensions prior to commencement of work.
2. The abatement plan notes list indicated below may, or may not, be indicated on the abatement plan(s) on this drawing sheet.
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6. Where applicable, contractor shall ensure all electrical circuits within their work areas are properly locked/tagged in accordance with OSHA 29 CFR 1926.417.
7. Any quantities provided on the drawings are for bidding purposes only. The contractor is responsible for field verifying all job conditions and material quantities prior to bidding.
8. All work associated with asbestos abatement plan notes 5, 7 and 8 shall be performed in accordance with asbestos variance file 22-0534 as appended to section 028213 asbestos remediation.

SITE:
Tappan Zee High School
15 Dutch Hill Road,
Orangeburg, NY 10962

CONSULTANT:
Omega Env. Services
280 Huyler Street
S Hackensack,NJ 07606
Tel: (201) 489-8700
Fax: (201) 342-5412

Veronica Kero
Project Designer:
License #: 91-00474

NY-PE License #:
087449-1

STATE OF NEW YORK · VERONICA KERO · 087449-1 · LICENSED PROFESSIONAL ENGINEER

Job #: 24-10-3385

REVISION	
No.	Date
1	11/07/2024
2	

Table 1: Scope of Work Summary

Location(s)		Description of ACM Identified	Estimated Removal QTY	Abatement Procedure	Notes
Floor	Area				
300 Wing	Area C1 – C2, Classrooms 301, 303, 305, 306, 307, 309, 310, 311, 311A & 312	VAT/Mastic & Cove Base	6,350 sq. ft.	NYSDOL Full Containment Utilizing Grinding Methods Use of Chemical Removal may be Required for Specific Rooms/Location	CPL/Owner to confirm which classroom(s) that will require chemical removal
300 Wing	Multiple Classrooms	(PACM) Board/Chalkboard Glue Dots	650 sq. ft.	NYSDOL Non-Friable Tent Procedures	Abatement Contractor to verify exact square feet of Chalkboard & Glue Dots

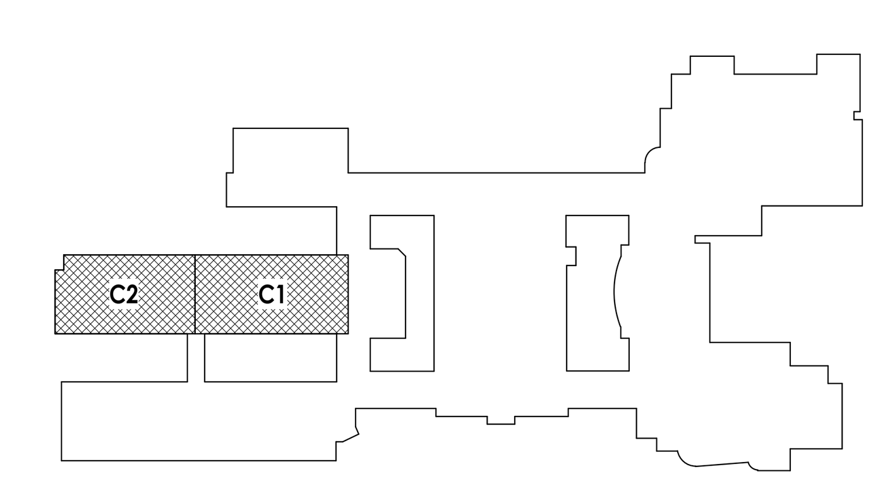
* Exact quantities to be verified during the abatement phase(s).

ASBESTOS LOCATION PLAN: 300 WING - AREA C1-C2

DWG: 02

OMEGA ENVIRONMENTAL SERVICES, INC

KEY PLAN:



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CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates

Lauren Tarsio	09/30/26
Anthony Marchetti	05/31/27
Dave Hart	02/28/25
Jennifer Wengender	06/30/27

PROJECT ISSUE & REVISION SCHEDULE

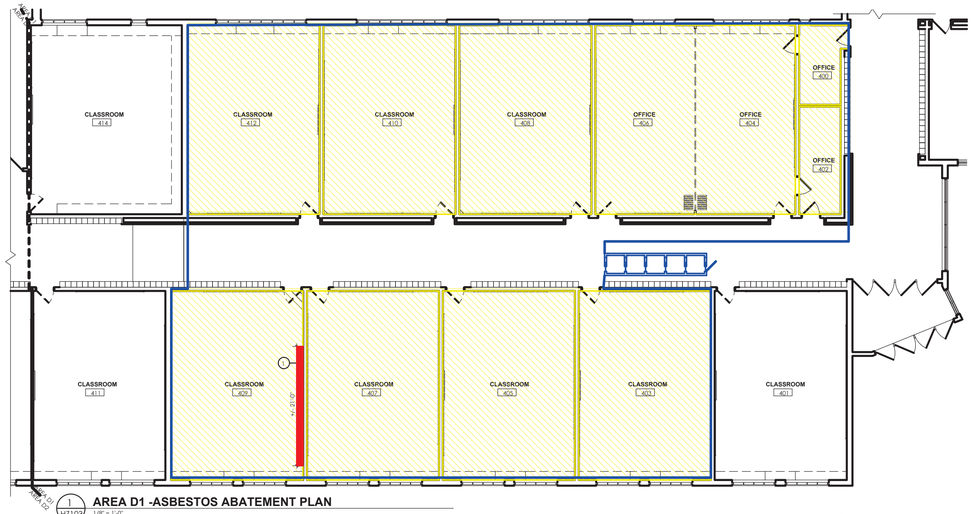
#	Date	Description
3	11/08/2024	BID ADDENDUM #3

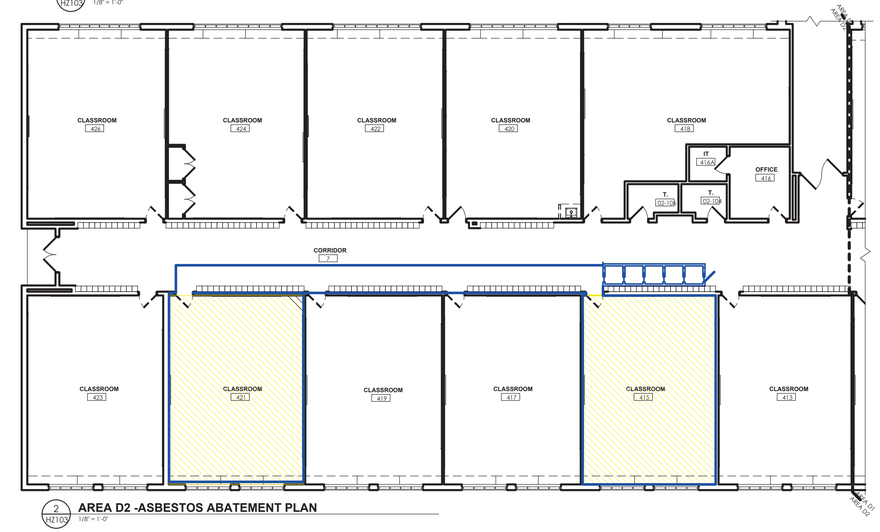
PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA C ASBESTOS ABATEMENT PLAN
Drawing Number: TZHS HZ102 (3)

PLAN VIEW





NOT TO SCALE

LEGEND:

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Table 1: Scope of Work Summary

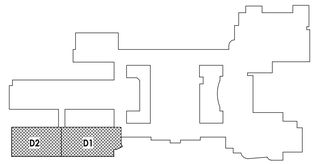
Location(s)		Description of ACM Identified	Estimated Removal QTY	Abatement Procedure	Notes
Floor	Area				
400 Wing	Area D1 - D2, Classrooms 400, 402 – 410, 412, 415, & 421	VAT/Mastic & Cove Base	8,950 sq. ft.	NYSDOL Full Containment Utilizing Grinding Methods Use of Chemical Removal may be Required for Specific Rooms/Location	CPL/Owner to confirm which classroom(s) that will require chemical removal
400 Wing	Multiple Classrooms	(PACM) Board/Chalkboard & Glue Dots	105 sq. ft.	NYSDOL Non-Friable Tent Procedures	Abatement Contractor to verify exact square feet of Chalkboard & Glue Dots

* Exact quantities to be verified during the abatement phase(s).

ASBESTOS LOCATION PLAN: 400 WING - AREA D1-D2

DWG: 03

KEY PLAN:



SITE:
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CONSULTANT:
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Tel: (201) 489-8700
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STATE OF NEW YORK * VERONICA KERO * 087449-1 * LICENSED PROFESSIONAL ENGINEER *

Job #: 24-10-3385	
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No.	Date
1	11/07/2024
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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
3	11/08/2024	BID ADDENDUM #3

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
CJD	LT

Drawing Title
AREA D ASBESTOS ABATEMENT PLAN

Drawing Number
3
TZHS HZ103

11/7/2024 3:55:14 PM <project location>\REVIT PROJECT FILES ON BIM 360

CASEWORK SCHEDULE

TYPE MARK	DESCRIPTION	DIMENSIONS	PRODUCT #	NOTES
ADA SINK APRON (ADA)				
ADA-1	ADA COMPLIANT SINK APRON	36" W X 34"H X 24"D	TMI #B2545	
BASE CABINET (BC)				
BC-1	2 DOORS, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # B2052	
BC-2	2 EQUAL LATERAL FILE DRAWERS	VARIES; REF. A700 SERIES	TMI # D2804	
BC-3	1 DOOR SINK CABINIET	18"W x 36"H x 24"D	TMI # B2500	DEMONSTRATION TABLE
BC-4	1 FILE DRAWER/2 EQUAL DRAWERS	19"W x 36"H x 24"D	TMI# 3862	DEMONSTRATION TABLE
BC-5	3 EQUAL DRAWERS	VARIES; REF. A700 SERIES	TMI # D3001	
BC-6	1 DOOR, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # B2050, TMI # B2051	REFER TO ELEVATIONS FOR LEFT OR RIGHT HINGE PLACEMENT
CUSTOM (C)				
C-1	2 DOORS, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI #B2052	REFERENCE TMI PRODUCT FOR DESIGN INTENT; CABINET TO BE CUSTOM 24" HIGH.
C-2	2 EQUAL DRAWERS	VARIES; REF. A700 SERIES	TMI #D2001	REFERENCE TMI PRODUCT FOR DESIGN INTENT; CABINET TO BE CUSTOM 24" HIGH.
METAL CABINET (MC)				
MC-1	OPEN SHELVING, 1 ADJUSTABLE SHELF	36"W x 29"H x 16"D	TRANE # SHL-B-B-1-03	
TALL CABINET (TC)				
TC-1	2 DOOR WARDROBE	VARIES; REF. A700 SERIES	TMI # T2586, TMI #2590	REFER TO ELEVATIONS FOR LEFT OR RIGHT WARDROBE PLACEMENT
TC-2	1 DOOR WARDROBE	VARIES; REF. A700 SERIES	TMI # T2570, # T2571	REFER TO ELEVATIONS FOR LEFT OR RIGHT HINGE PLACEMENT
TC-3	ADJUSTABLE OPEN SHELVING	VARIES; REF. A700 SERIES	TMI # T1100	
TC-4	2 DOORS, 1 FIXED SHELF, 4 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # T2102	
WALL CABINET (WC)				
WC-1	2 DOORS, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # W2052	
WC-2	OPEN SHELVING, 2 ADJUSTABLE SHELVES	VARIES; REF. A700 SERIES	TMI # H1050	

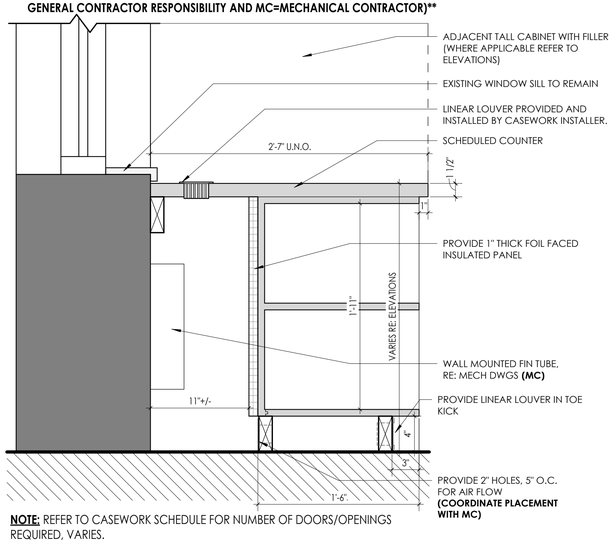
CASEWORK GENERAL NOTES:

***NOTE:**

1. ALL CASEWORK WITH DOORS/ DRAWERS TO RECEIVE LOCKS PER OWNER REQUEST. OWNER IS RESPONSIBLE FOR KEYING.

NOTE: CASEWORK BY OWNER (PROVIDE AND INSTALL), SHOWN FOR REFERENCE ONLY. ALL TRADES TO COORDINATE WITH CASEWORK CONTRACTOR AS REQUIRED.

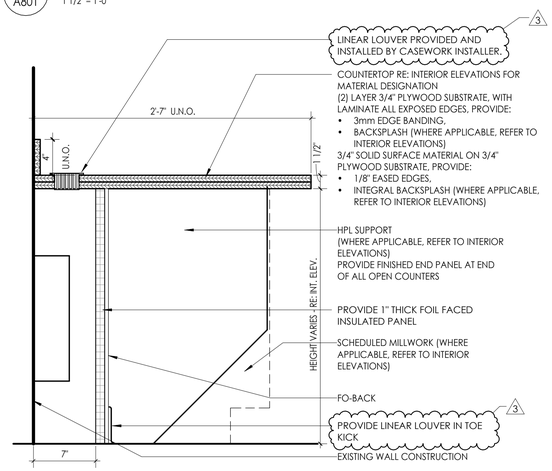
****ALL WORK PERTAINS TO CASEWORK CONTRACTOR UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY AND MC=MECHANICAL CONTRACTOR)****



NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/OPENINGS REQUIRED, VARIES.

5 A801 **BASE CABINET W/ FIN TUBE VENTILATION**

1 1/2" = 1'-0"

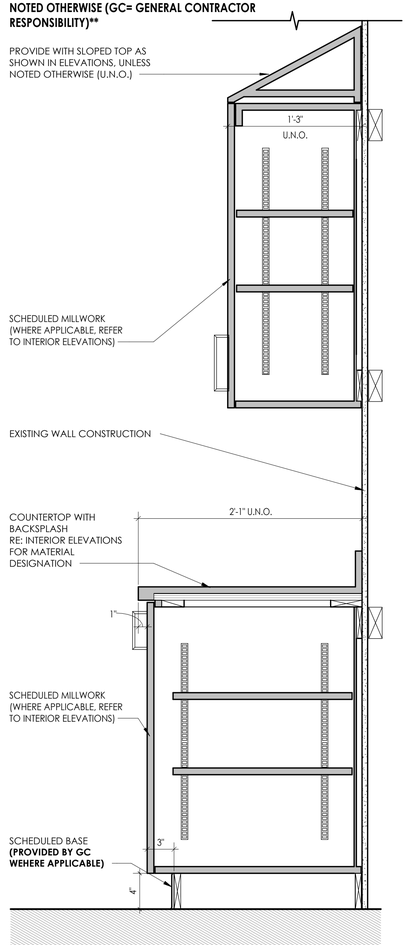


****ALL WORK PERTAINS TO CASEWORK CONTRACTOR UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

4 A801 **TYPICAL LAMINATE WORKSURFACE SECTION**

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK CONTRACTOR UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

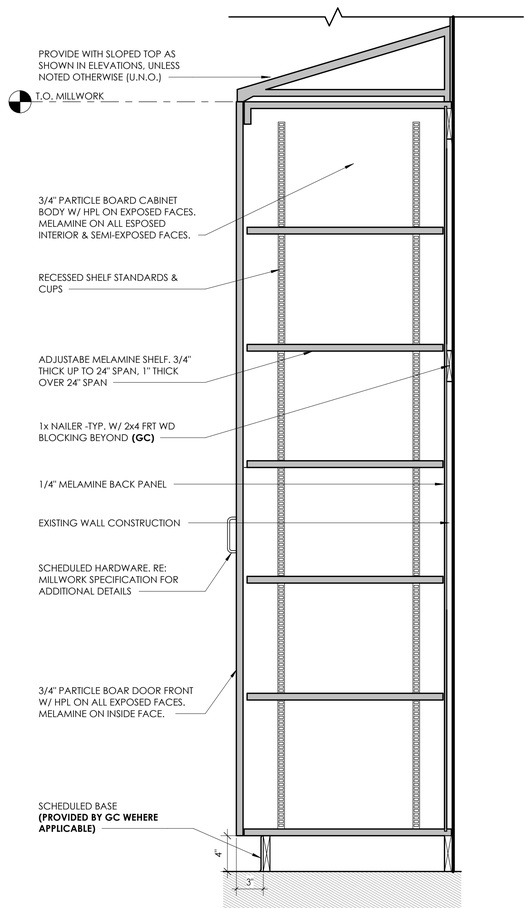


NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/OPENINGS REQUIRED, VARIES.

3 A801 **TYPICAL BASE AND UPPER CABINETS @SCIENCE**

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK CONTRACTOR UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

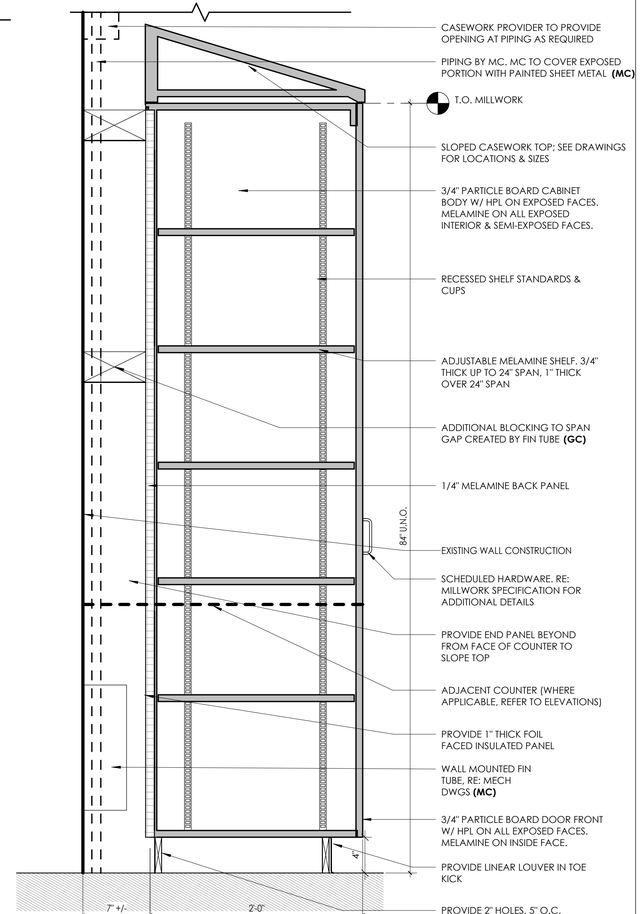


NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/DRAWERS REQUIRED, VARIES.

2 A801 **TYPICAL TALL CABINET @ SCIENCE**

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK CONTRACTOR UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY AND MC=MECHANICAL CONTRACTOR)****

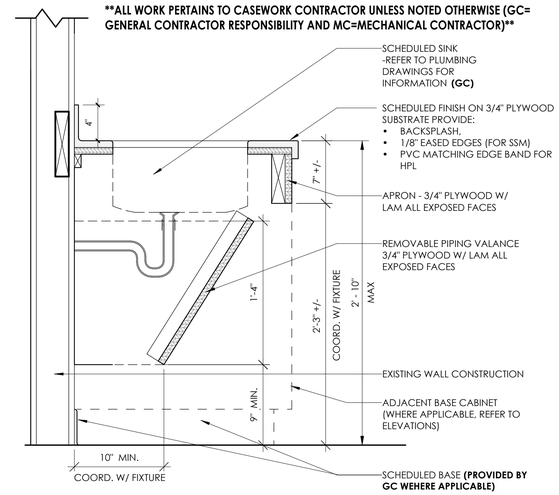


NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/OPENINGS REQUIRED, VARIES.

1 A801 **TALL CABINET W/ FIN TUBE VENTILATION**

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK CONTRACTOR UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY AND MC=MECHANICAL CONTRACTOR)****



6 A801 **ADA SINK**

1 1/2" = 1'-0"

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District

Capital Improvements Bond

Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tarsio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
2	11/06/2024	BID ADDENDUM #2
3	11/08/2024	BID ADDENDUM #3

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

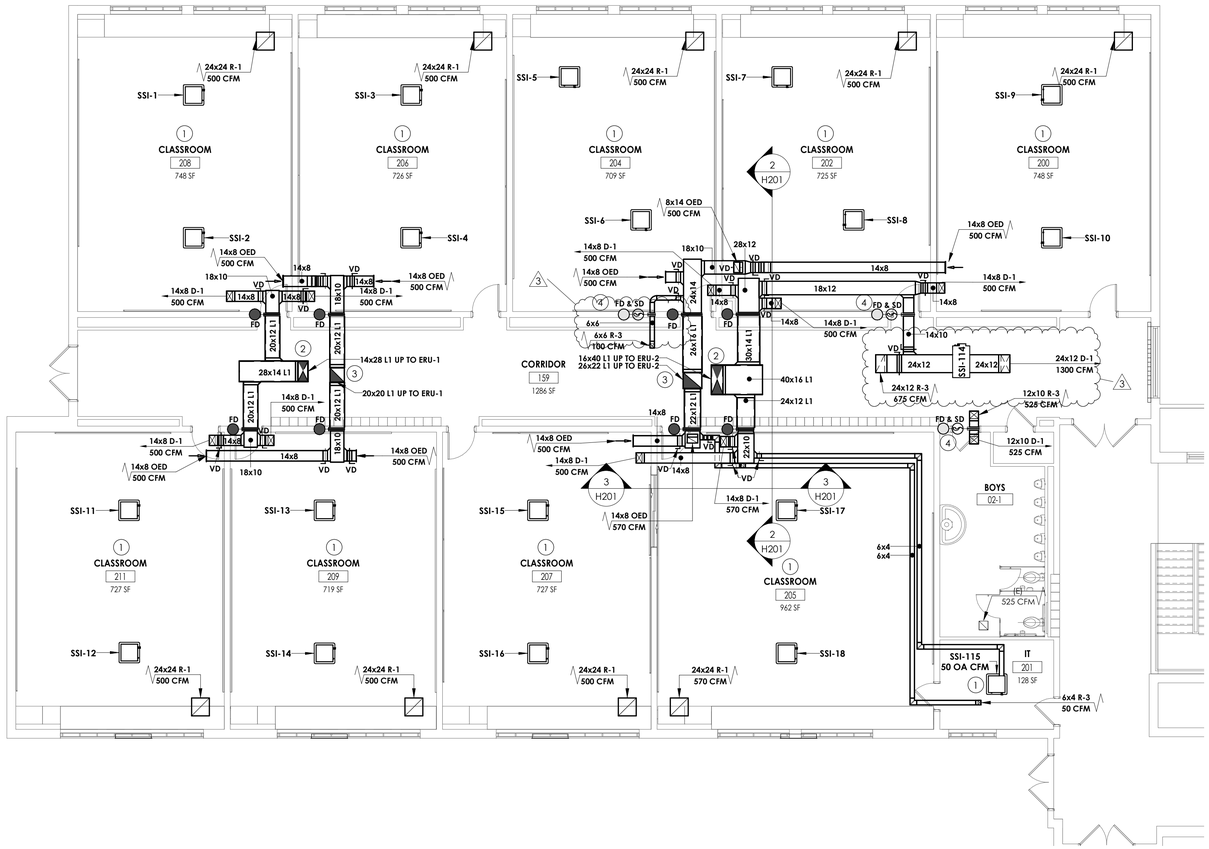
Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

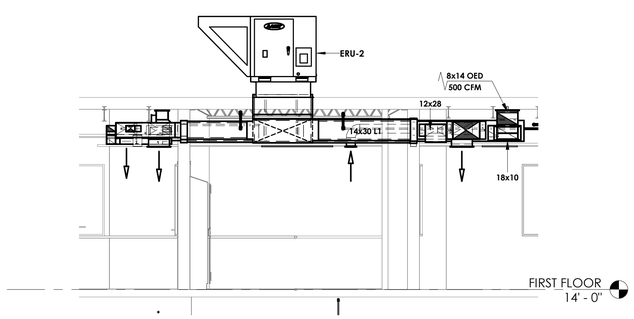
Drawn By	Checked By
CPL	CPL

Drawing Title
MISC. DETAILS

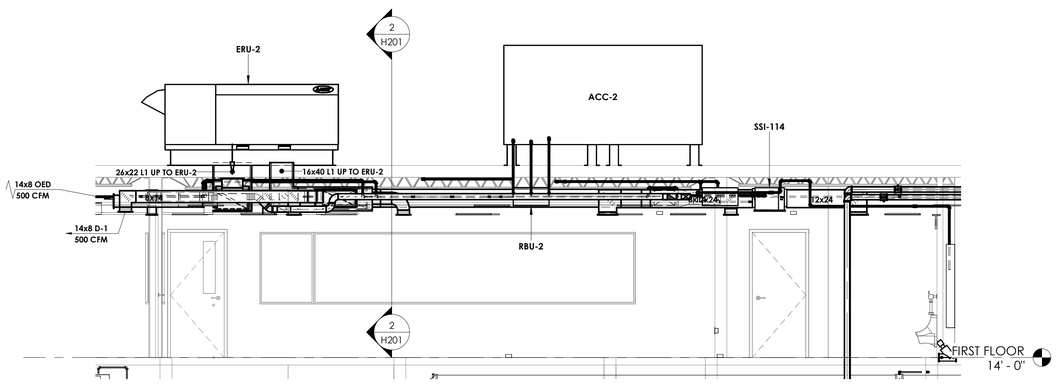
Drawing Number
TZHS A801



1 H201 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA B**
1/8" = 1'-0"



2 H201 **LATERAL SECTION**
1/4" = 1'-0"

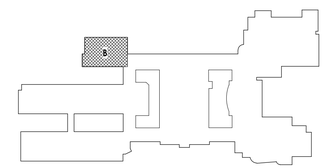


3 H201 **HORIZONTAL SECTION**
1/4" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN ACT CEILING GRID. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
3. RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
4. ALL FIRE/SMOKE DAMPERS ARE 120V.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

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3	11/08/24	BID ADDENDUM #3

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SHEET INFORMATION

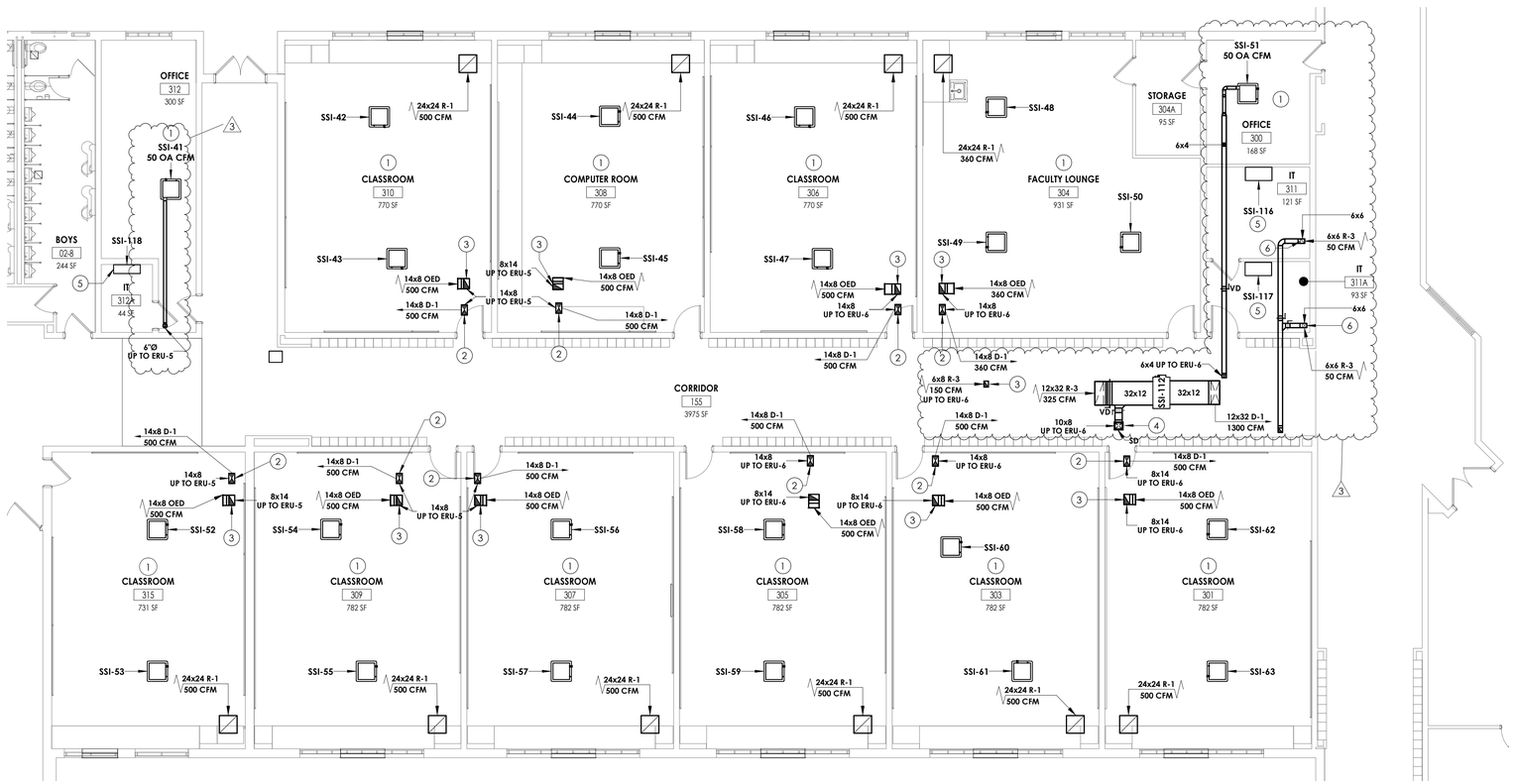
Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA B

Drawing Number
TZHS H201



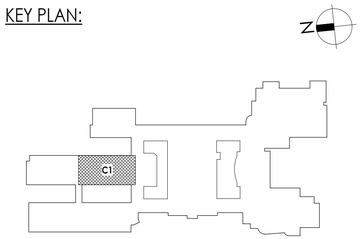
1 H202 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA C1**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN ACT CEILING GRID. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK DOWN FROM ROOF TO SUPPLY GRILLE IN CEILING. COORDINATE WITH STRUCTURAL.
3. RETURN/RELIEF DUCTWORK FROM OPEN DUCT ABOVE CEILING UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.
4. SUPPLY DUCTWORK DOWN FROM ROOF TO EQUIPMENT AS SHOWN.
5. MOUNT SPLIT UNIT HIGH ON WALL. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
6. RETURN/RELIEF DUCTWORK FROM CEILING MOUNTED GRILLE WITH DUCTWORK ROUTED UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.

KEY PLAN:



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PROJECT INFORMATION

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14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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#	Date	Description
3	11/08/24	BID ADDENDUM #3

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA C1

Drawing Number
TZHS
H202

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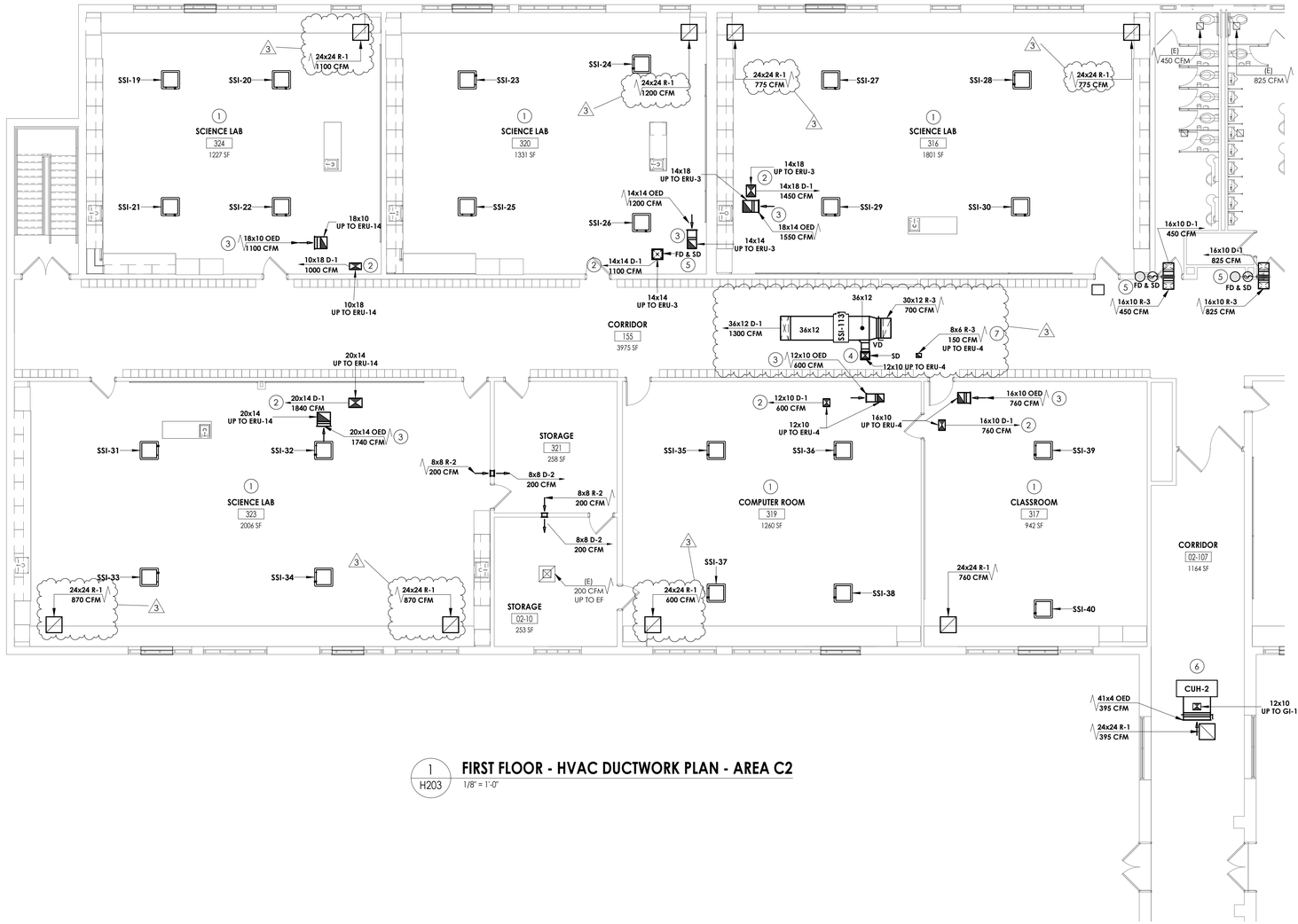


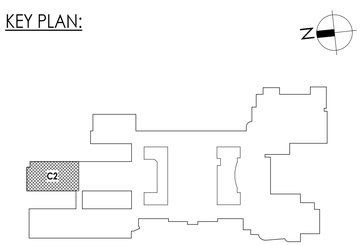
1 H203 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA C2**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK DOWN FROM ROOF TO SUPPLY GRILLE IN CEILING. COORDINATE WITH STRUCTURAL.
3. RETURN/RELIEF DUCTWORK FROM OPEN DUCT ABOVE CEILING UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.
4. SUPPLY DUCTWORK DOWN FROM ROOF TO EQUIPMENT AS SHOWN.
5. ALL FIRE SMOKE DAMPERS ARE 120V.
6. INSTALL CABINET UNIT HEATER IN ACT CEILING GRID AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING. ROUTE DUCTWORK UP TO GRAVITY INTAKE ON THE ROOF.
7. RETURN/RELIEF DUCTWORK FROM CEILING MOUNTED GRILLE WITH DUCTWORK ROUTED UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SHEET INFORMATION

Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA C2

Drawing Number
TZHS
H203

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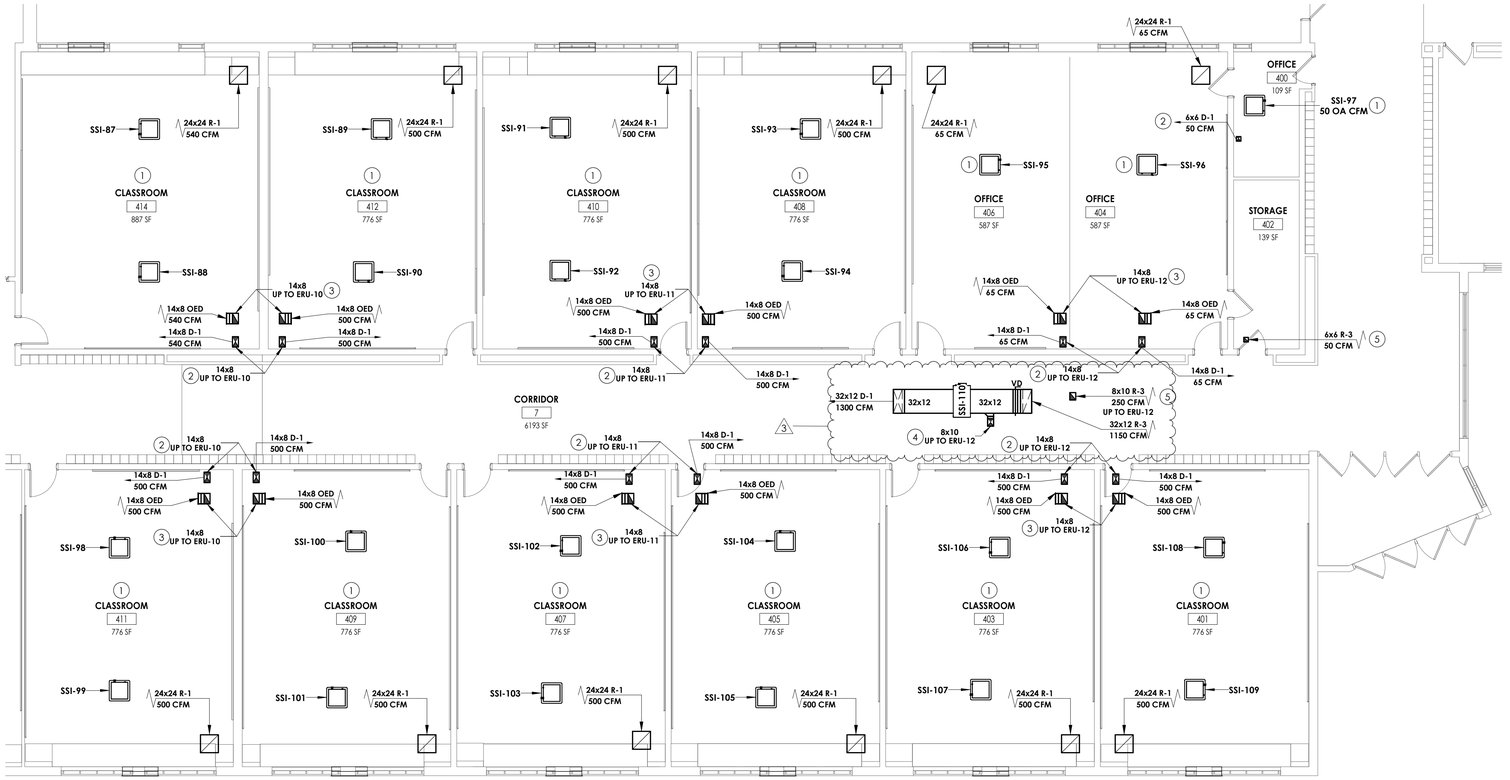


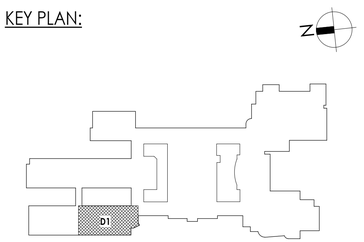
1 H204 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA D1**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK DOWN FROM ROOF TO SUPPLY GRILLE IN CEILING. COORDINATE WITH STRUCTURAL.
3. RETURN/RELIEF DUCTWORK FROM OPEN DUCT ABOVE CEILING UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.
4. SUPPLY DUCTWORK DOWN FROM ROOF TO EQUIPMENT AS SHOWN.
5. RETURN/RELIEF DUCTWORK FROM CEILING MOUNTED GRILLE WITH DUCTWORK ROUTED UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
3	11/08/24	BID ADDENDUM #3

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

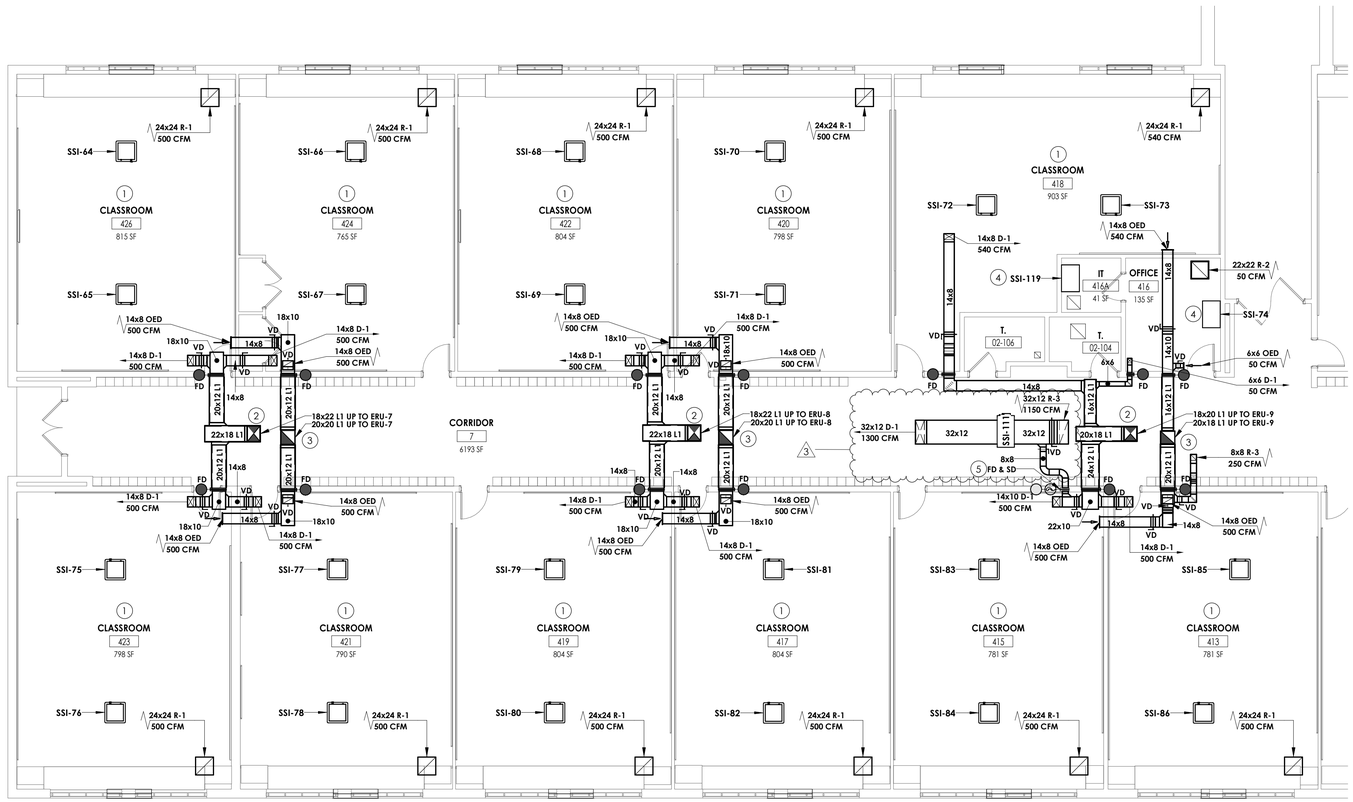
Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA D1

Drawing Number
TZHS
H204

11/8/2024 9:05:15 AM <project location>\REVIT PROJECT FILES ON BIM 360

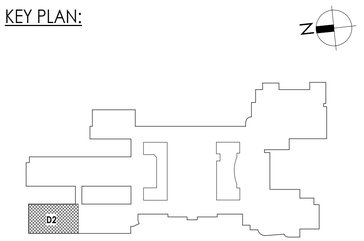


KEY NOTES

1. MOUNT SPLIT UNIT IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
3. RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
4. MOUNT SPLIT UNIT ON WALL BELOW ACT CEILING GRID. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
5. ALL FIRE/SMOKE DAMPERS ARE 120V.

1 H205 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA D2**
1/8" = 1'-0"

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

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#	Date	Description
3	11/08/24	BID ADDENDUM #3

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SHEET INFORMATION

Issued: 10/25/2024
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: FIRST FLOOR DUCTWORK PLAN - AREA D2

Drawing Number
TZHS
H205

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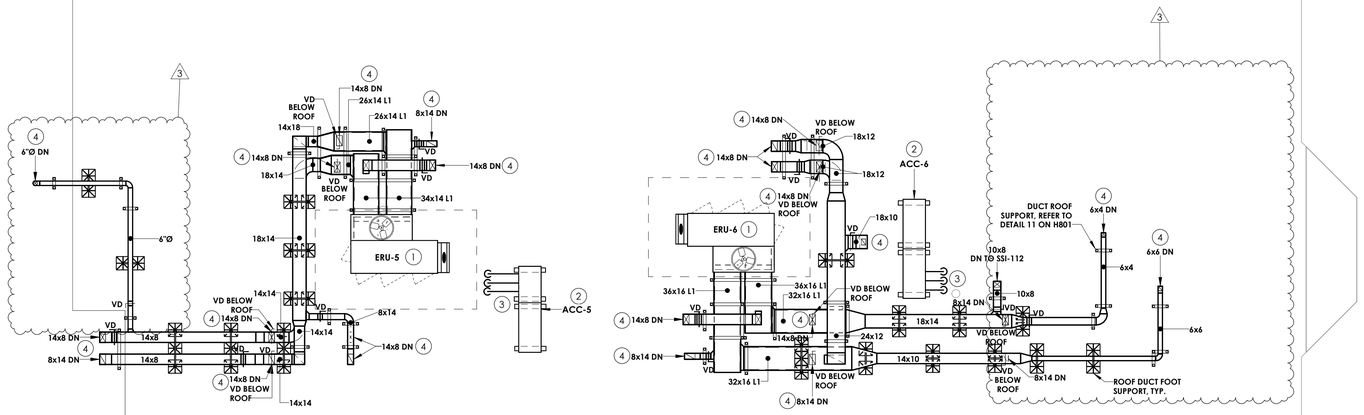
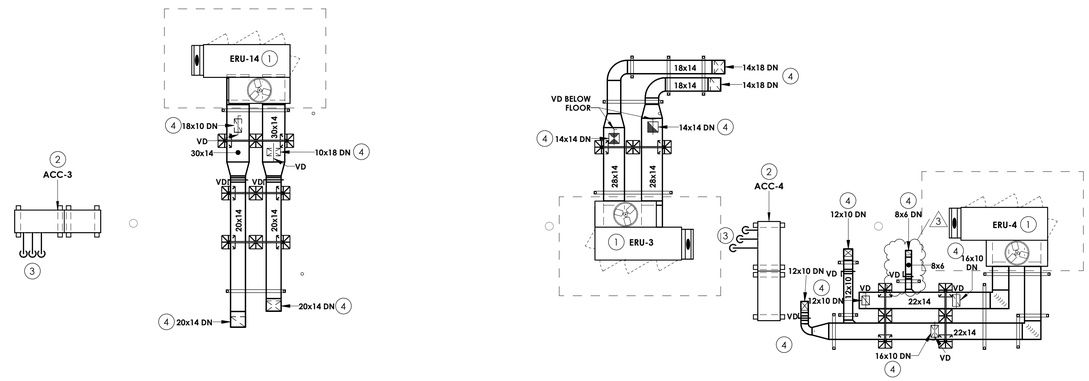
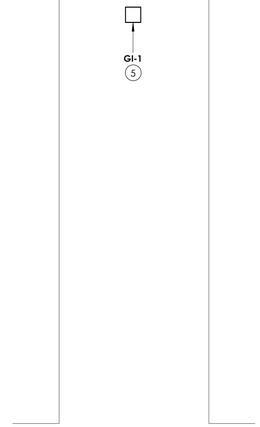


1 H212 **ROOF - HVAC DUCTWORK PLAN - AREA C1**
1/8" = 1'-0"



2 H212 **ROOF - HVAC DUCTWORK PLAN - AREA C2**
1/8" = 1'-0"



3 H212 **ROOF - HVAC DUCTWORK PLAN - AREA C-D CORRIDOR**
1/8" = 1'-0"

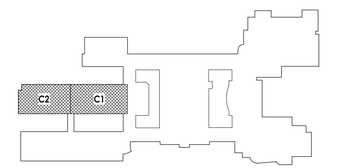
GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ANCHORS/FASTENERS/BRACKETS INDICATED BY SPECIFICATION SECTION 230550.

KEY NOTES

1. MOUNT ENERGY RECOVERY UNIT ON A HORIZONTAL DISCHARGE CURB AT LEAST 24" HIGH. PROVIDE SUPPORTS FOR ALL ROOF MOUNTED DUCTWORK. SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.
2. MOUNT CONDENSING UNIT TO 14" EQUIPMENT RAILS. VIBRATION INSULATION AND PIPE PORTAL. REFERENCE WIND RESTRAINT FOR HVAC SYSTEMS IN SPEC SECTION 230550.
3. ROUTE NEW RS/RL LINES DOWN THROUGH ROOF. COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURE'S INSTRUCTIONS.
4. DUCTWORK DOWN TO SPACE BELOW.
5. MOUNT GRAVITY INTAKE FAN ON 14" CURB WITH VIBRATION INSULATION. ROUTE DUCTWORK TO CUH-2 RETURN DUCT.

KEY PLAN:



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3	11/08/24	BID ADDENDUM #3

PROFESSIONAL STAMPS

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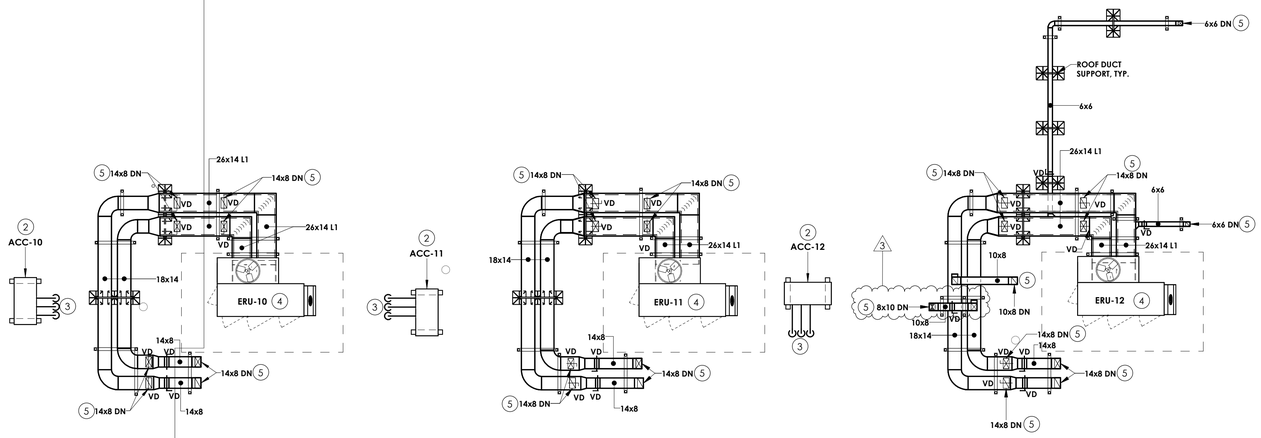
SHEET INFORMATION

Issued: 10/25/2024
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: ROOF DUCTWORK AND PIPING PLANS - AREAS C1 AND C2

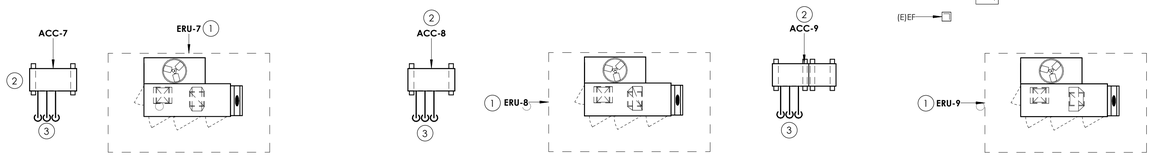
Drawing Number
TZHS
H212

11/8/2024 9:05:16 AM <project location>\REVIT PROJECT FILES ON BIM 360



1 H213 ROOF - HVAC DUCTWORK PLAN - AREA D1

1/8" = 1'-0"



2 H213 ROOF - HVAC DUCTWORK PLAN - AREA D2

1/8" = 1'-0"

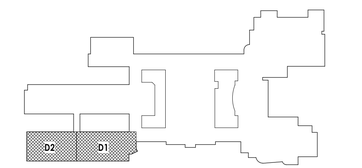
GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ANCHORS/FASTENERS/BRACKETS INDICATED BY SPECIFICATION SECTION 230550.

KEY NOTES

1. MOUNT ENERGY RECOVERY UNIT ON 14" CURB WITH VIBRATION INSULATION, SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.
2. MOUNT CONDENSING UNIT TO 14" EQUIPMENT RAILS. VIBRATION INSULATION AND PIPE PORTAL. REFERENCE WIND RESTRAINT FOR HVAC SYSTEMS IN SPEC SECTION 230550.
3. ROUTE NEW RS/RL LINES DOWN THROUGH ROOF. COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURE'S INSTRUCTIONS.
4. MOUNT ENERGY RECOVERY UNIT ON A HORIZONTAL DISCHARGE CURB AT LEAST 24" HIGH. PROVIDE SUPPORTS FOR ALL ROOF MOUNTED DUCTWORK. SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.
5. DUCTWORK DOWN TO SPACE BELOW.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
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SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Anthony Marchetti 05/31/27
Dave Hart 02/28/25
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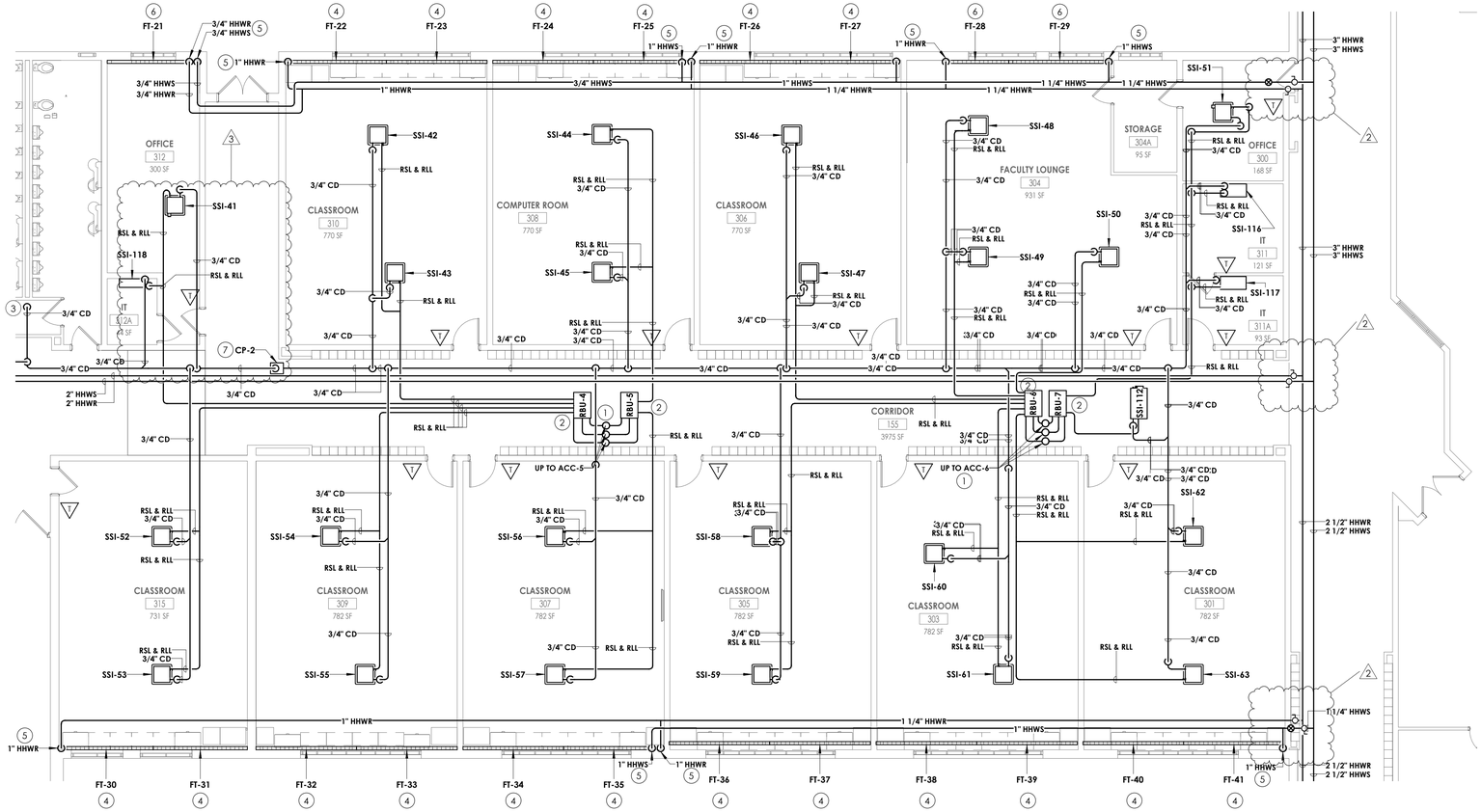


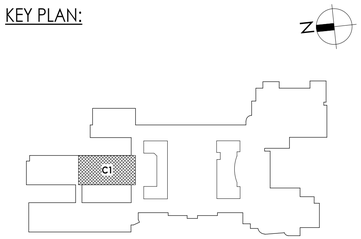
1 H302 **FIRST FLOOR - HVAC PIPING PLAN - AREA C1**

1/8" = 1'-0"

KEY NOTES

1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H600 FOR PIPE SIZES.
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFT STOP WHERE INDICATED.
5. FIN TUBE TO BE ROUTE PIPING ABOVE THE CEILING. PROVIDE 18 GAUGE GALVANIZED STEEL ENCLOSURE PAINTED TO MATCH THE WALL AROUND THE PIPING UP TO CEILING.
6. PROVIDE FIN TUBE WITH ENCLOSURE PAINT TO MATCH THE WALL AROUND ENCLOSURE.
7. PROVIDE INLINE CONDENSATE PUMP. MOUNT ABOVE CEILING. ROUTE CONDENSATE PIPING AS HIGH AS POSSIBLE AND COORDINATE WITH STRUCTURE.

KEY PLAN:



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2	11/06/24	BID ADDENDUM #2
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10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR PIPING PLAN - AREA C1

Drawing Number
TZHS H302

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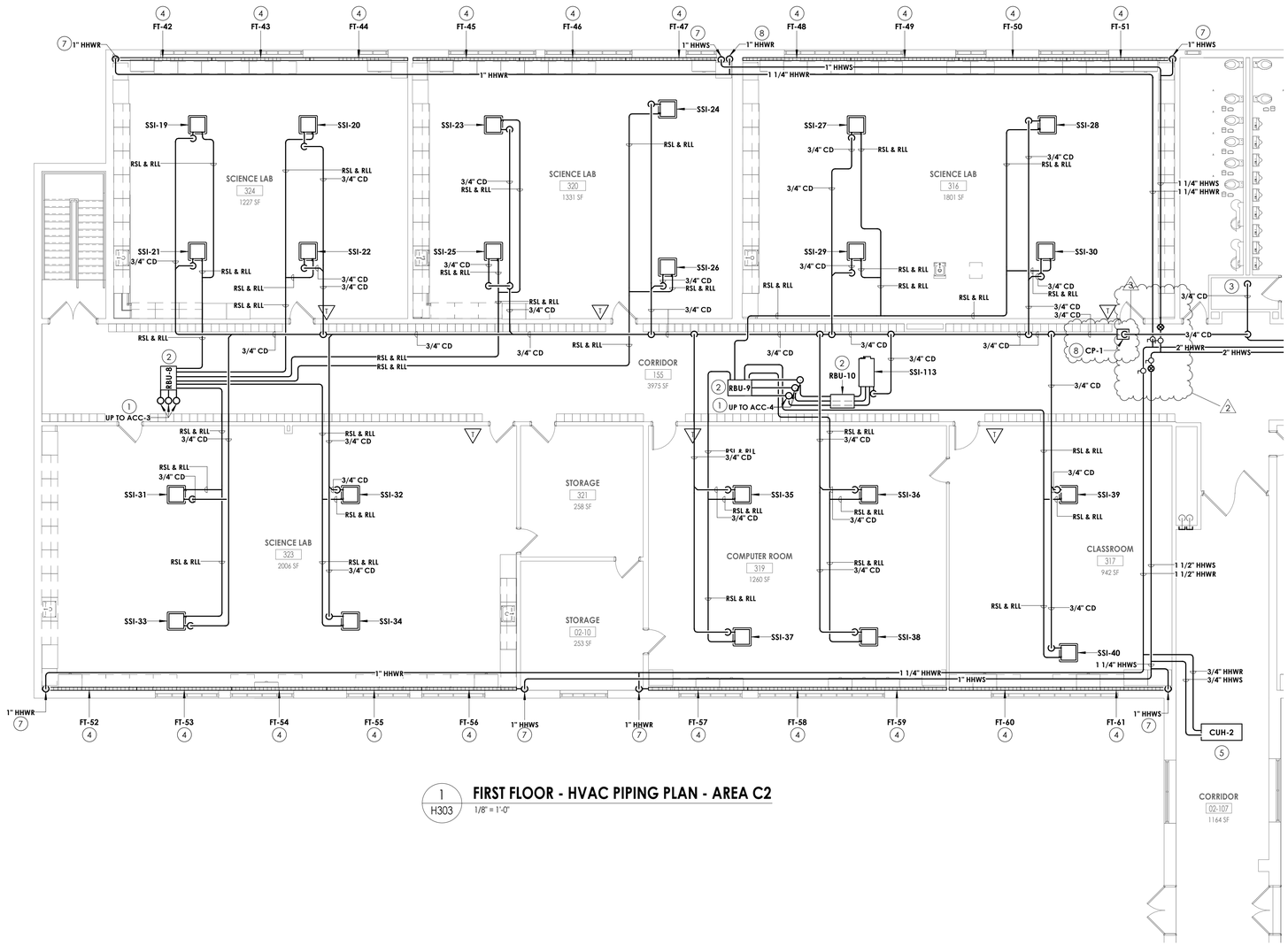


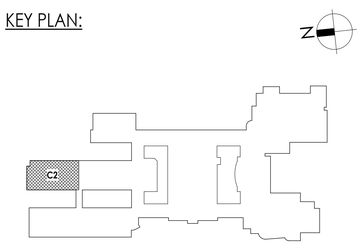
1 H303 **FIRST FLOOR - HVAC PIPING PLAN - AREA C2**

1/8" = 1'-0"

KEY NOTES

1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H600 FOR PIPE SIZES.
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFTSTOP WHERE INDICATED.
5. INSTALL CABINET UNIT HEATER IN ACT CEILING GRID AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING. ROUTE PIPING ABOVE CEILING.
6. PROVIDE ENCLOSURE FOR FIN TUBE BETWEEN THE POINTS INDICATED. COORDINATE ENCLOSURE LENGTH WITH CASEWORK. ENCLOSURE PAINTED TO MATCH THE CASEWORK.
7. FIN TUBE PIPING TO BE ROUTED ABOVE THE CEILING. PROVIDE 18 GAUGE GALVANIZED STEEL ENCLOSURE PAINTED TO MATCH THE WALL AROUND THE PIPING UP TO CEILING.
8. PROVIDE INLINE CONDENSATE PUMP. MOUNT ABOVE CEILING. ROUTE CONDENSATE PIPING AS HIGH AS POSSIBLE AND COORDINATE WITH STRUCTURE.

KEY PLAN:



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Project Status
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Drawing Title
FIRST FLOOR PIPING PLAN - AREA C2

Drawing Number
TZHS
H303

11/8/2024 4:01:04 PM <project location>\REVIT PROJECT FILES ON BIM 360

BOILER SCHEDULE (CONDENSING)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	FUEL	MAX. INPUT (MBH)	MIN. OUTPUT (MBH)	MAX. OUTPUT (MBH)	EFFICIENCY RANGE	EFFICIENCY 80°F TO 180°F	GAS PRESSURE		MAX. WATER FLOW (GPM)	MIN. WATER FLOW (GPM)	EWT (°F)	LWT (°F)	FLUE SIZE	ELECTRICAL						NOTES
											MIN.	MAX.						V	PH	HZ	MCA	FLA	MOCP	
B-4	BOILER	HEATING	FULTON	VTG-2000DF	NG/OIL	2000	387.2	1936	85-95	95%	14	42	192	NA	115	140	10	208	3	60	20	18	20	1,2,3,4

NOTES:
1. FACTORY BOILER MANAGEMENT SYSTEM, CONNECT TO EXISTING SIEMEMS BACNET CONTROLS.
2. CONDENSATE NEUTRALIZATION KIT.
3. UL 1738 PVC PIPING FOR INTAKE AND VENTING.
4. UNIT WEIGHTS 3800LBS DRY.

BOILER SCHEDULE (STEAM) (B) (OWNER PROVIDED)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	FUEL	OIL INPUT (GPH)	GAS INTPUT (MBH)	GROSS OUTPUT (MBH)	BOILER HP	FLUE SIZE (IN)	EFFICENCY	ELECTRICAL				NOTES
												V	PH	HZ	HP	
B-2	BOILER	HEATING	WEIL-McLAIN	1488	NG/OIL	31	4464	3709	110.8	16	83.1	208	3	60	2	1,2
B-3	BOILER	HEATING	WEIL-McLAIN	1488	NG/OIL	31	4464	3709	110.8	16	83.1	208	3	60	2	1,2

NOTES:
1. CONNECT TO EXISTING CONTROLS, FLUE, AND ALL PIPING. FULLY MODULAR CONTROLS WITH BMS. DEDICATED CONTROL PANEL.
2. POWERFLAME C3-G0-25 BURNER.

PUMP SCHEDULE (P)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	FLUID	GPM	HEAD (FT.WG.)	RPM	HP	ELECTRICAL				EFFICIENCY	WEIGHT (LB)	NOTES
											V	PH	HZ	AMPS			
P-1	BOILER	B-4	FULTON	2-30-001762	INLINE	WATER	192	6.3	-	-	208	1	60	3.32	-	49	1,2
P-2	BOILER	HEAT LOOP	BELL & GOSSETT	e-80 3x3x9.5C	INLINE	WATER	198	13.5	1635	5	208	3	60	-	68.6	255	1,2

NOTES:
1. HORIZONTAL INLINE MOUNTING.
2. FACTORY WIRED AND MOUNTED DISCONNECT.

UNIT HEATER SCHEDULE (HYDRONIC)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	OUTDOOR AIR FLOW (CFM)	RETURN AIR FLOW (CFM)	FLOW GPM	P.D. (FT.WG.)	HEATING CAPACITY (MBH)	EWT (°F)	ELECTRICAL					WEIGHT (LBS)	NOTES
												V	PH	HZ	HP	RPM		
UH-1	GARAGE 96	HEATING	MODINE	HCH 170	2870	-	2870	17	7.4	169.564	140	115	1	60	1/3	1140	145	1,3
UH-2	GARAGE 98	HEATING	MODINE	HCH 104	1830	-	1830	10.4	4.8	104.204	140	115	1	60	1/6	1075	93	1,3
UH-3	GARAGE 100	HEATING	MODINE	HCH 104	1830	-	1830	10.4	4.8	104.204	140	115	1	60	1/6	1075	93	1,3
CUH-1	CORRIDOR 159	HEATING	MODINE	CW-01258	1025	-	1025	4	0	29.716	140	115	1	60	0.05	-	240	2,3
CUH-2	CORRIDOR 02-107	HEATING	MODINE	CW-00657	495	100	395	6	0.05	20.717	140	115	1	60	0.05	-	135	2,3,4
CUH-3	CORRIDOR 02-107	HEATING	MODINE	CW-00658	495	-	495	4.7	0	22.352	140	115	1	60	0.05	-	135	2,3

NOTES:
1. MOUNTING HIEGHT PER MANUFACTURER'S RECOMMENDATIONS.
2. RECESSED CEILING MOUNTING.
3. FACTORY WIRED AND MOUNTED DISCONNECT.
4. PROVIDE WITH DUCT COLLAR.

EXPANSION TANK SCHEDULE (ET)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	ACCEPTANCE GALLONS	TOTAL VOLUME	DIMENSIONS (IN.)	CONFIGURATION	TYPE	WEIGHT (LBS)
ET-1	BOILER ROOM	HEATING	BELL & GOSSETT	B800	211	211	32 X 76	VERTICAL	DIAPHRAM	2351

AIR SEPARATOR SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	INLET/OUTLET SIZE	FLOW (GPM)	FREE AREA (IN^2)	FLUID	HEIGHT (IN.)	DIAMETER (IN.)	NOTES
AS-1	BOILER	HEATING	BELL & GOSSET	R-4F	4/4	300	120	WATER	31	12.75	1

NOTES:
1. MOUNT PER MANUFACTURERS INSTRUCTIONS. UNIT SUSPENDED FROM CEILING.

GRAVITY VENTILATOR SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	THROAT AREA (SQ.FT.)	HOOD AREA (SQ.FT.)	AIR FLOW (CFM)	S.P. (IN.WG.)	NOTES
GI-1	ROOF	02-107	GREENHECK	GRSI-8	110.25	330.06	100	0.013	1,2

NOTES:
1. MOTORIZED DAMPER IN CURB.
2. 14" CURB, HINGED BASE AND BIRD SCREEN.

3

CONDENSATE PUMP SCHEDULE

TAG	SERVICE	LOCATION	GPH	HEAD (FT)	ELECTRICAL DATA		PSI	PART	MANUFACTURER	MODEL #	NOTES:
					HP	VOLTS/Ø/HZ					
CP-1	CONDENSATE LIFTING	AREA C2	200	1	1/50	115/1/60	6.1	CONDENSATE PUMP	LITTLE GIANT	VCL-14	1,2
CP-2	CONDENSATE LIFTING	AREA C1	200	1	1/50	115/1/60	6.1	CONDENSATE PUMP	LITTLE GIANT	VCL-14	1,2

NOTES:
1. PROVIDE DISCONNECT.
2. MOUNT UNIT ABOVE CEILING IN AN ACCESSIBLE LOCATION.

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HVAC SCHEDULES

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