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ADDENDUM NO. 01

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

CPL PROJECT NO. R24.16761.00

DATE: May 08, 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 Please review Specification Section 005200 A132 Agreement and its attachments, A132-2019 Owner Contractor Agreement (CMa) and A132-2019 Exhibit A, Insurance and Bonds thoroughly. Bidders are reminded to check with their insurance carriers/agents on all required insurances and are to sign the Insurance Certification Form located in Specification Section 004980.

1.2 A substitution request was received for the metal lockers in the Locker Rooms and Team Rooms. Approved Substitutions are as follows:
Locker Types L1 & L2 – LockersMFG All Welded Lockers
Locker Type L3 – LockersMFG All Welded Open Front Lockers

1.3 **Question:** Who is responsible for excavation and backfill of 5' outside of building.

Answer: As per Section 011000 – Summary of Multiple Contracts; 1.3 General Requirements – All Contracts; Special Notes: All Contracts; 8. "Trenching, excavation, and backfill for the Work of each Contract shall be provided by each Contract for its own Work, unless noted otherwise." Therefore, the Fire Sprinkler Contractor is responsible for excavation and backfill for their Work.

1.4 **Question:** Specification Section 013100-3 (3) states at Architects discretion a cost may be imposed for providing AutoCAD drawings. Will there be a fee? If so how much is the fee?

Answer: Please refer to Specification Section 006000 Forms and Related Documents for Electronic Document Transfer Agreement which indicates a handling fee of $150.

1.5 **Question:** Drawing P501 is calling for a RPDA. This is unusual for fire sprinkler unless there is an antifreeze system or if the building is near a pond or lake. Please confirm.

Answer:. Please refer to forthcoming Addendum No. 01 for revised detail.

1.6 **Question:** Fire protection plans do not show sprinkler heads in ceiling panels. Only upright protection is shown. Please confirm no pendant sprinklers are required.

Answer:. Please refer to forthcoming Addendum No. 01 for clarity on corridor ceiling sprinkler assembly. Classroom ceilings are “cloud-type” less than 4’ wide and greater than 6” apart, which meet obstruction limits.

1.7 **Question:**. Please confirm top of ceiling baffle will be greater than 18” below sprinkler deflector so as to not cause an obstruction to sprinkler spray pattern.

Answer:. Classroom ceiling clouds suspend approximately 3 feet below floor above.

1.8 **Question:**. Are you looking for only a control valve for each zone or a complete assembly with a flow switch and a drain. If the drain is required please provide a discharge location.

Answer:. Complete floor control assembly. Please refer to forthcoming Addendum No. 01 for drain discharge location.

1.9 **Question:**. The CTE Boiler Controls Diagram lists base pumps P-1 and P-2 to be used which doesn't match the plan drawing or equipment schedule. The pipe sizing shown on these diagrams appear to be incorrect compared to what the plan drawings show. The pipe sizing shown on the diagrams also appear to have larger diameter piping associated with mechanical rooms that have less and smaller equipment. Can you confirm the sizing requirements associated with the headers, boilers drops, and pump drops in each mechanical room?

Do flex connectors need to be provided for the inline pumps?

Answer:. H503 diagram has been revised to show the correct pipe sizes. Flex connectors not required for inline pumps.

1.10 **Question:**. Spec 084313 mentions ASTM E1996 as reference standard but glass does not have laminate interlayer to comply. Please confirm if storefront must meet missile impact standard.

Answer:. Omit sub-article 1.03 M, ASTM E1996 reference standard from specification section 084313. Storefront does now need to meet missile impact standard.

1.11 **Question:**. Spec 084313 list storefront BOD Kawneer 451UT center set with Versoleil Sun-Shade Outrigger. I would like to request using YKK 45XT center set storefront with ThermaShade Outriggers + YES SSG TU Casement windows. Please confirm if this is acceptable to alternate.

Answer:. Please submit a complete substitution request per specification section 016000 Product Requirements and 012500 Substitution Requirements. We will need more information in order to determine if the proposed product is acceptable.

1.12 **Question:**. Spec 084413 lists curtain wall BOD Kawneer 1600 system 1 with Thermal U-Value .27 max. Please confirm if YKK 750 XT would be accepted with a maximum U-Value .32.

Answer:. As part of Addendum No. 01. We have updated specification section 084413 Glazed Aluminum Curtain Walls to update the Basis-of-Design product to Kawneer 1600UT System 1 Curtain Wall. Please review the revised specification section and confirm if you would still propose the same YKK system as indicated in your RFI. YKK AP Corp. is listed as an acceptable curtain wall manufacturer, but product data would need to be submitted for CPL to review for comparability.

1.13 **Question:**. Spec 085113 lists BOD for Double hung windows Kawneer AA 5450 ultra thermal. Please confirm if we can substitute these for EFCO HC45 ultra thermal windows.

Answer:. Please submit a complete substitution request per specification section 016000 Product Requirements and 012500 Substitution Requirements. We will need more information in order to determine if the proposed product is acceptable.

1.14 **Question:**. Form Proposal for General Construction Specs 004010 Unit Prices refers to Spec 012700. Spec 012700 is missing. Please provide.

As per Finish Plan dr. I201 walls in Rooms 144 & 145 should receive TW-1, TW-2, TW-3. It is unclear which walls receive tiles. Please clarify.

Dr. I201 shows Base Bid finishes for Vestibule V1. Please clarify ALT GC-1 Finishes for Vestibule V1.

Answer:. Please refer to Specification Section 012200 Unit Prices. There is a typo in the Form of Proposal as it should reference Specification Section 012200 in lieu of 012700.

There is no tile wall finish in Rooms 144 & 145. TW-1, TW-2 & TW-3 tile wall finish is only in the toilet rooms 144B & 145B.

ALT #GC-1 finishes for Vestibule V1 are the same as the base bid finishes. The new walls for ALT #GC-1 in Vestibule V1 have brick veneer finish to match existing.

CHANGES TO THE PROJECT MANUAL:

1.8 **Section 000110 – Table of Contents**

Add the following Section number and name to the Table of Contents; Section 072400 – Exterior Insulation and Finish Systems under item 2.07 Division 07 – Thermal and Moisture Protection after Section 072129 – Sprayed Insulation.

1.9 **Section 004010 – Form of Proposal – General Construction**

Modify paragraph 1.06 A. to change referenced Unit Price spec section from 012700 to 012200.

1.10 **Section 004030 – Form of Proposal – Electrical Construction**

Modify paragraph 1.06 A. to change referenced Unit Price spec section from 012700 to 012200.

1.11 **Section 011100 – Milestone Schedule**

Add the following to immediately follow the 1.2 Milestone Schedule table within Section 011100 Milestone Schedule;

2nd shift work: (+/- 3:00 pm – 11:00 pm)
Second shift work will be performed, at no additional costs to the owner, for any work required in (or connecting into) Vestibule (V1), adjacent corridor and

pathway, during the school year. Any removals, infills, connections or other work associated with the existing buildings, or penetrating the existing buildings, will also be performed second shift during the school year. (See Life Safety Plan OHS G-101). **Contractors will include any/all additional costs in their base bid.**

1.12 Section 012300 - Alternates

Replace Section 012300 – Alternates with the attached revised Section 012300 – Alternates.

1.13 Section 015000 – Temporary Facilities and Controls

Replace Site Logistics Plan within Section 015000 – Temporary Facilities and Controls with the attached revised Site Logistics Plan.

1.14 Section 072100 – Thermal Insulation

Replace Section 072100 – Thermal Insulation with the attached revised Section 072100 – Thermal Insulation.

Added sub-article 2.02 F. to the Specification.
Added sub-article 2.03 B. to the Specification.

1.15 Section 072400 – Exterior Insulation and Finish Systems

Add attached Section 072400 – Exterior Insulation and Finish Systems to the Project Manual.

1.16 Section 084313 – Aluminum-Framed Storefronts

Omit sub-article 1.03 M. ASTM E1996 reference standard from specification section 084313. Storefront does not need to meet missile impact standard.

1.17 Section 084413 – Glazed Aluminum Curtain Walls.

Replace Section 084413 – Glazed Aluminum Curtain Walls with the attached revised Section 084413 – Glazed Aluminum Curtain Walls.

1.18 Section 275116 –IP Public Adress and Clock System.

Delete Section 275116 – IP Public Adress and Clock System.

1.19 Section 275116 –Modifications to Existing IP Public Adress and Clock System.

Add attached Section 275116 – Modifications to Existing IP Public Adress and Clock System.

1.20 Section 281000 – Access Control.

Replace Section 281000 – Access Control with the attached revised Section 281000 – Access Control.

1.21 Section 282000 – Video Surveillance.

Replace Section 282000 – Video Surveillance with the attached revised Section 282000 – Video Surveillance.

CHANGES TO THE DRAWINGS:

1.9 OHS G101 – First Floor Life Safety Plan

Replace sheet OHS G101 with the attached revised sheet OHS G101.

1.10 OHS S002 – General Notes - 02

Replace sheet OHS S002 with the attached revised sheet OHS S002.

1.11 OHS S100.1 – Foundation Plan – Area A0

Replace sheet OHS S100.1 with the attached revised sheet OHS S100.1.

1.12 OHS S101.1 – First Floor Framing Plan – Area A1

Replace sheet OHS S101.1 with the attached revised sheet OHS S101.1.

1.13 OHS S102 – Roof Framing Plan (Existing) – Area A2

Replace sheet OHS S102 with the attached revised sheet OHS S102.

1.14 OHS S102.2 – Second Floor Framing Plan – Area A2

Replace sheet OHS S102.2 with the attached revised sheet OHS S102.2.

1.15 OHS S111.1 – CTE Stair S2
Replace sheet OHS S111.1 with the attached revised sheet OHS S111.1.

1.16 OHS S111.2 – CTE Stair S3
Replace sheet OHS S111.2 with the attached revised sheet OHS S111.2.

1.17 OHS S700 – Typical details
Replace sheet OHS S700 with the attached revised sheet OHS S700.

1.18 OHS S701 – Typical details
Replace sheet OHS S701 with the attached revised sheet OHS S701.

1.19 OHS S703 – Typical details
Replace sheet OHS S703 with the attached revised sheet OHS S703.

1.20 OHS S704 – Typical details
Replace sheet OHS S704 with the attached revised sheet OHS S704.

1.21 OHS S707 – Typical details
Replace sheet OHS S707 with the attached revised sheet OHS S707.

1.22 OHS S708 – Typical details
Replace sheet OHS S708 with the attached revised sheet OHS S708.

1.23 OHS S711 – Exterior Stair details
Replace sheet OHS S711 with the attached revised sheet OHS S711.

1.24 OHS S712 – Structural details
Replace sheet OHS S712 with the attached revised sheet OHS S712.

1.25 OHS S713 – Structural details
Replace sheet OHS S713 with the attached revised sheet OHS S713.

1.26 OHS S714 – Structural details
Replace sheet OHS S714 with the attached revised sheet OHS S714.

1.27 OHS S715 – Elevator details
Replace sheet OHS S715 with the attached revised sheet OHS S715.

1.28 OHS S716 – Structural details
Replace sheet OHS S716 with the attached revised sheet OHS S716.

1.29 OHS S718 – Column Schedule
Replace sheet OHS S718 with the attached revised sheet OHS S718.

1.30 OHS A452 – Wall Sections – Area B
Replace sheet OHS A452 with the attached revised sheet OHS A452.

1.31 OHS A453 – Wall Sections – Area B
Replace sheet OHS A453 with the attached revised sheet OHS A453.

1.32 OHS A811 – Typical Section Details
Replace sheet OHS A811 with the attached revised sheet OHS A811.

1.33 OHS I201 – First Floor Finish Plan – Area A1
Omit TW-1, TW-2 & TW-3 wall finish from Girl's Locker Room 144 & Boy's Locker Room 145 finish tags.

1.34 OHS H503 - Mechanical Controls Diagrams
Replace sheet OHS H503 with the attached revised sheet OHS H503.

1.35 OHS P102 – Existing Roof Demolition Plan
Replace sheet OHS P102 with the attached revised sheet OHS P102.

1.36 OHS P201 – First Floor Waste Piping Plan
Replace sheet OHS P201 with the attached revised sheet OHS P201.

1.37 OHS P204 – Roof Plan
Replace sheet OHS P204 with the attached revised sheet OHS P204.

1.38 OHS P301 – First Floor Domestic Piping Plan
Replace sheet OHS P301 with the attached revised sheet OHS P301.

1.39 OHS P302 – Second Floor Domestic Piping Plan
Replace sheet OHS P302 with the attached revised sheet OHS P302.

1.40 OHS P501 – First Floor Fire Protection Plan
Replace sheet OHS P501 with the attached revised sheet OHS P501.

1.41 OHS P502 – Second Floor Fire Protection Plan
Replace sheet OHS P502 with the attached revised sheet OHS P502.

1.42 OHS P503 – Third Floor Fire Protection Plan
Replace sheet OHS P503 with the attached revised sheet OHS P503.

1.43 OHS P800 – Details
Replace sheet OHS P800 with the attached revised sheet OHS P800.

1.44 OHS E000 - Electrical Symbols Legend & Notes
Replace sheet OHS E000 with the attached revised sheet OHS E000.

1.45 OHS E001 – Power Single Line Diagram
Replace sheet OHS E001 with the attached revised sheet OHS E001.

1.46 OHS E003 – First Floor Electrical Plan - Partial
Replace sheet OHS E003 with the attached revised sheet OHS E003.

1.47 OHS E201 – First Floor Power Plan – Area A1
Replace sheet OHS E201 with the attached revised sheet OHS E201.

1.48 OHS E204 – Basement Power Plan – Area B0
Replace sheet OHS E204 with the attached revised sheet OHS E204.

1.49 OHS E401 – First Floor Systems Plan – Area A1
Replace sheet OHS E401 with the attached revised sheet OHS E401.

1.50 OHS E402 – Second Floor Systems Plan – Area A2
Replace sheet OHS E402 with the attached revised sheet OHS E402.

1.51 OHS E403 – Third Floor Systems Plan – Area A3
Replace sheet OHS E403 with the attached revised sheet OHS E403.

1.52 OHS E404 – Basement Systems Plan – Area B0
Replace sheet OHS E404 with the attached revised sheet OHS E404.

1.53 OHS E405 – First Floor Systems Plan – Area B1
Replace sheet OHS E405 with the attached revised sheet OHS E405.

1.54 OHS E406 – Second Floor Systems Plan – Area B2
Replace sheet OHS E406 with the attached revised sheet OHS E406.

1.55 OHS E407 – Third Floor Systems Plan – Area B3
Replace sheet OHS E407 with the attached revised sheet OHS E407.

1.56 OHS E900 – Electrical Schedules
Replace sheet OHS E900 with the attached revised sheet OHS E900.

1.57 OHS E903 – Electrical Schedules
Replace sheet OHS E903 with the attached revised sheet OHS E903.

1.58 OHS E904 – Lighting Fixtures Schedule
Modify sheet OHS E904 with the following. At fixture type 'S1' change fixture housing finish to Black instead of Bronze, revised catalog number "PBL-42-1-14L-100-NW-G2-5-120-PCB-F1-BK". At fixture type 'WP' change fixture housing finish to Black Matte Textured instead of Dark Bronze Matte Textured, revised catalog number "TRP2-36L-55-4K8-3-UNV-BLT-PC. At fixture type 'WP EM' change fixture housing finish to Black Matte Textured instead of Dark Bronze Matte Textured, revised catalog number "TRP2-36L-55-4K8-3-UNV-BLT-PC-E.

PREVIOSULY ISSUED ADDENDA:

1.12 None.

END OF ADDENDUM NO. 01

SECTION 012300
ALTERNATES

PART 1 GENERAL

1.01 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.02 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
   2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.03 PROCEDURES

A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   1. Include as part of each alternate miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.01 SCHEDULE OF ALTERNATES

A. GENERAL CONSTRUCTION
   1. Alternate No. GC-1: Vestibule V1
      a. Base Bid: Scope per documents with the exception of additional work indicated on sheet A201.2
      b. Alternate: All general construction work associated with the replacement of the exterior doors and the installation of new interior wall partition and new interior doors at Vestibule V1 shall be included as an add alternate.
   2. Alternate No. GC-2: Area A Signage and Wall Graphics
      a. Base Bid: Scope per documents.
      b. Alternate: OMIT metal signage DS-7 and DS-8, Wall Graphics DWG-1, DWG-2 and DWG-3. Paint walls EPT-2 at DWG-2 and DWG-3 locations.
   3. Alternate No. GC-3: Stainless Steel Interior Guardrails and Handrails

a. Base Bid: All interior guardrails and handrails to be standard steel pipe, painted.
b. Alternate: All interior guardrails and handrails shall be stainless steel in lieu of standard steel pipe, painted.

4. Alternate No. GC-4: Area B Signage and AWP
   a. Base Bid: Scope per documents.
   b. Alternate: OMIT DS-1, DS-2 and DS-3. OMIT all instances of AWP-1 and AWP-2.
5. Alternate No. GC-5: Flooring Rooms 161, 163, 165
   a. Base Bid: Epoxy Resin Flooring per documents
   b. Alternate: Provide Sealed Concrete Flooring and RB-1 in lieu of Epoxy Resin Flooring in rooms 161, 163 and 165
6. Alternate No. GC-6: VCT Flooring
   a. Base Bid: Flooring scope per documents.
   b. Alternate: Provide Vinyl Composition Tile (VCT) flooring throughout project in lieu of Luxury Vinyl Tile (LVT) and Resilient Tile (RS) flooring .

Base Bid Material		Alternate Replacement Material	
RT-1	arkett, Pearla, Smooth, Custom #15957	VCT-1	Armstrong, Standard Imperial Texture, Silk 59234
RT-2	Tarkett, Pearla, Smooth, Custom #15961	VCT-2	Armstrong, Standard Imperial Texture, Crimson 57530
RT-3	Tarkett, Pearla, Smooth, Custom #15958	VCT-3	Armstrong, Standard Imperial Texture, Kickin' Kiwi 57510
RT-4	Tarkett, Pearla, Smooth, Custom #15960	VCT-4	Armstrong, Standard Imperial Texture, Sea Green 51824
RT-5	Tarkett, Pearla, Smooth, Custom #15959	VCT-5	Armstrong, Standard Imperial Texture, Bodacious Blue 57517
LVT-1	Tarkett, Contour, Palladian, Palazzo 4662	VCT-1	Armstrong, Standard Imperial Texture, Silk 59234
LVT-2	Tarkett, Contour, Digital Custom #12336	VCT-2	Armstrong, Standard Imperial Texture, Crimson 57530

7. Alternate No. GC-7: LVT Flooring
   a. Base Bid: Flooring scope per documents.
   b. Alternate: Provide Luxury Vinyl Tile (LVT) flooring throughout project in lieu of Resilient Tile (RT) flooring. The table below outlines the original specified material with its replacement. Refer to Finish Schedule for additional information.

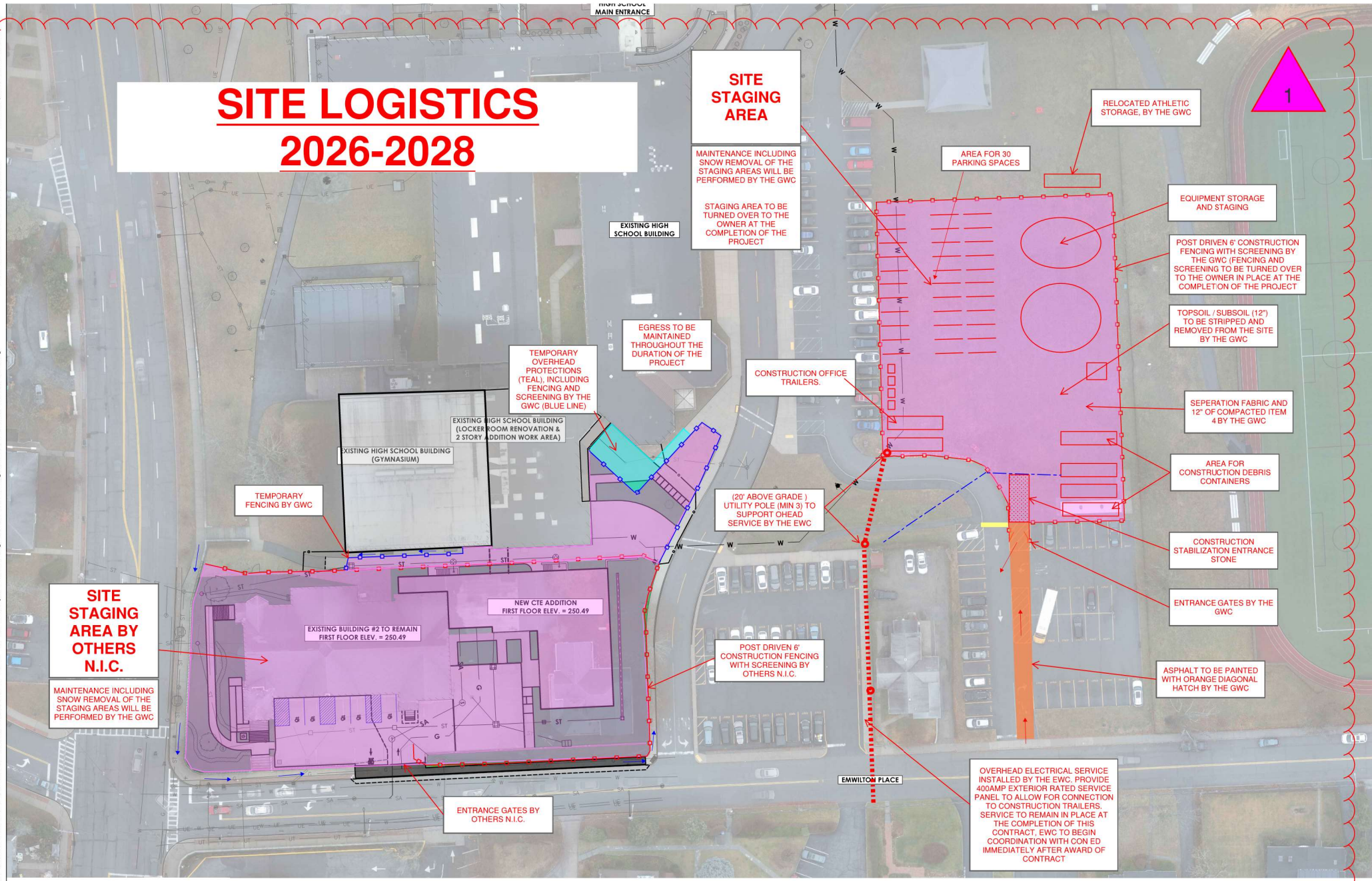
Base Bid Material		Alternate Replacement Material	
RT-1	Tarkett, Pearla, Smooth, Custom #15957	LVT-1	Tarkett, Contour, Palladian, Palazzo 4662
RT-2	Tarkett, Pearla, Smooth, Custom #15961	LVT-2	Tarkett, Contour, Digital Custom #12336
RT-3	Tarkett, Pearla, Smooth, Custom #15958	LVT-3	Tarkett, Contour, Digital Custom #12337
RT-4	Tarkett, Pearla, Smooth, Custom #15960	LVT-4	Tarkett, Contour, Digital Custom #12339

1

RT-5	Tarkett, Pearla, Smooth, Custom #15959	LVT-5	Tarkett, Contour, Digital Custom #12338

B. ELECTRICAL CONSTRUCTION
   1. Alternate No. EC- 1: Vestibule V1
      a. Base Bid: All electrical work associated with relocating existing ADA door operator push button station at existing exterior door.
      b. Alternate: All electrical work associated with the replacement of the exterior doors and the installation of new interior wall partition and new interiors doors at Vestibule V1 shall be included as an add alternate.
   2. Alternate No. EC- 2: Backlit Metal Signage
      a. Base Bid: Scope per documents.
      b. Alternate: OMIT all electrical work associated with backlighting metal signs DS-7 and DS-8.
   3. Alternate No. EC-3: Solar Panels
      a. Base Bid: Scope per documents.
      b. Alternate: OMIT all electrical work associated with the installation of solar panels.

END OF SECTION



OSSINING HIGH SCHOOL OVERALL SITE PLAN

SCALE: 1" = 30'

Date last accessed:8/19/2025 7:38 AM
Date last plotted: 8/19/2025 7:40 AM
Drawing Name: C:\Users\brecer\DC\ACCDocs\CPL\R24.16761.00-OURSD 24 BOND - HS - LKR RVA\Project Files\01 Design\03 Civil\CAD\Design\OHS_R24.16761.00_PH_LOGO_c.dwg
Sheet size: 24x36

SECTION 072100
THERMAL INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Board insulation and integral vapor retarder at cavity wall construction, perimeter foundation wall, underside of floor slabs, and exterior wall behind exterior side wall finish.

B. Batt insulation and vapor retarder in exterior wall, ceiling, and roof construction.

C. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof.

D. Acoustic glass fiber batt insulation in stud framed walls to reduce sound transmission from one room to another.

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 REFERENCE STANDARDS

A. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2023, with Editorial Revision (2024).

B. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2019.

C. ASTM C612 - Standard Specification for Mineral Fiber Block and Board Thermal Insulation; 2014 (Reapproved 2019).

D. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2024.

E. ASTM C764 - Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation; 2025.

F. ASTM C1029 - Standard Specification for Spray-Applied Rigid Cellular Polyurethane Thermal Insulation; 2025.

G. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2019.

H. ASTM C1325 - Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units; 2019.

I. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.

J. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2024.

K. ASTM E136 - Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C; 2024c.

1.04 SUBMITTALS

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

B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

C. ABAA Field Quality Control Submittals: Submit third-party reports of testing and inspection required by ABAA QAP.

D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

E. Manufacturer's Installation Instructions: Include information on special environmental conditions required for installation and installation techniques.

F. ABAA Manufacturer Qualification: Submit documentation of current evaluation of proposed manufacturer and materials.

G. ABAA Installer Qualification: Submit documentation of current contractor accreditation and current installer certification. Keep copies of contractor accreditation and installer certification on project site during and after installation. Present on-site documentation upon request.

1.05 QUALITY ASSURANCE

A. Air Barrier Association of America (ABAA) Quality Assurance Program (QAP); www.airbarrier.org/#sle:
   1. Installer Qualification: Use accredited contractors, certified installers, evaluated materials, and third-party field quality control audit.
   2. Manufacturer Qualification: Use evaluated materials from a single manufacturer regularly engaged in air barrier material manufacture. Use secondary materials approved in writing by primary material manufacturer.

1.06 FIELD CONDITIONS

A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS - 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.

2.02 APPLICATIONS

A. Insulation Under Concrete Slabs: Extruded polystyrene (XPS) board.

B. Insulation at Perimeter of Foundation Walls: Extruded polystyrene (XPS) board.

C. Insulation Over Metal Stud Framed Walls, Continuous: Extruded polystyrene (XPS) board.

D. Insulation in Metal Framed Walls: Batt insulation with integral vapor retarder.

E. Sound Batt Insulation in Metal or Wood framed walls.

F. Insulation exposed at Perimeter of Foundation Walls: Composite polyisocyanurate with laminated cement board.

2.03 FOAM BOARD INSULATION MATERIALS

A. Extruded Polystyrene (XPS) Board Insulation: Complies with ASTM C578 with either natural skin or cut cell surfaces.
   1. Type and Compressive Resistance: Type VII, 60 psi (414 kPa), minimum.
   2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
   3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.

4. Type and Thermal Resistance, R-value: Type VII, 5.0 (0.88), minimum, per 1 inch thickness at 75 degrees F mean temperature.
5. Board Edges: Square.
6. Type and Water Absorption: Type XII, 0.3 percent by volume, maximum, by total immersion.
7. Products:
   a. Owens Corning Corporation; FOAMULAR Extruded Polystyrene (XPS) Insulation: www.ocbuildingspec.com/#sle.
   b. Substitutions: See Section 016000 - Product Requirements.

B. Composite Polyisocyanurate (ISO) Board Insulation Faced with Cement Board: Rigid cellular foam, complying with ASTM C1289 (insulation) and ASTM C1325 (cement board).
1. Classifications:
   a. Type I or II: Faced with cement board on one major surface of core foam and glass fiber reinforced cellulosic felt or uncoated or coated polymer-bonded glass fiber mat facer on other major surface of core foam.
      1) Compressive Strength: 16 psi, minimum.
      2) Thermal Resistance, R-value: At 2 inch thick; 10, minimum, at 75 degrees F.
2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
4. Board Size: 48 inch by 96 inch.
5. Cement Board Thickness: 5/8 inch.
6. Insulation Board Thickness: 2 inch.
7. Board Edges: Square.
8. Products:
   a. **(Basis of Design)** Permabase Building Products, LLC - provided by National Gypsum Company; Permabase CI: www.permabase.com.
   b. Substitutions: See Section 016000 - Product Requirements.

2.04 FIBERBOARD INSULATION MATERIALS

A. Mineral Fiberboard Insulation: Rigid mineral fiber, in accordance with ASTM C612.
1. Facing: None, unfaced.
2. Flame Spread Index: 25 or less, when tested with facing, if any, in accordance with ASTM E84.
3. Smoke Developed Index: 50 or less, when tested with facing, if any, in accordance with ASTM E84.
4. Board Thickness: 1 inch.

2.05 BATT INSULATION MATERIALS

A. Where batt insulation is indicated, either glass fiber or mineral fiber batt insulation may be used, at Contractor's option.

B. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
1. Flame Spread Index: 75 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
4. Formaldehyde Content: Zero.
5. Thermal Resistance: R-value .

6. Thickness: As indicated on drawings.
7. Facing: Unfaced.
8. Products:
   a. CertainTeed Corporation; _____: www.certainteed.com/#sle.
   b. Owens Corning Corporation; EcoTouch PINK FIBERGLAS Insulation: www.ocbuildingspec.com/#sle.
   c. Substitutions: See Section 016000 - Product Requirements.

C. Mineral Fiber Batt Insulation: Flexible or semi-rigid preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
   1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
   2. Smoke Developed Index: 0 (zero), when tested in accordance with ASTM E84.

D. Acoustic Glass Fiber Batt Insulation (Sound Attenuation Batts) - Metal Framed Walls.
   1. Type: Unfaced glass-fiber acoustical insulation, complying with ASTM C665, Type I.
      a. Thickness: 3 1/2 inches (R Value: 11).
      b. Width: 16 to 24 inches.
      c. Length: 96 inches.
   2. Surface Burning Characteristics: ASTM E84.
      a. Maximum flame spread: <25
      b. Maximum smoke developed: <50
   3. Combustion Characteristics: Passes ASTM E136.
   4. Fire Resistance Ratings: Part of ASTM E119 fire tested wall assemblies.
   5. Sound Transmission Class: ASTM C423, STC based on manufacturer's published data on thickness and wall assembly.
   6. Dimensional Stability: Linear Shrinkage less than 0.1%
   7. Products:
      a. Owens Corning Corporation; PINK Next Gen SOUND ATTENUATION BATTS (SAB): www.ocbuildingspec.com/#sle.
      b. Substitutions: See Section 016000 - Product Requirements.

E. Safing Insulation
   1. Glass-Fiber Blanket, Unfaced: ASTM C 665, Type I; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics and made with no formaldehyde.
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) CertainTeed Corporation.
         2) Guardian Building Products, Inc.
         3) **(Basis Of Design)** Johns Manville; a Berkshire Hathaway company; Min Wool.
         4) Knauf Insulation.
         5) Owens Corning.

2.06 ACCESSORIES

A. Insulation for Miscellaneous Voids:
   1. Glass-Fiber Insulation: ASTM C764, Type II, loose fill; with maximum flame-spread and smoke-developed indexes of 5, per ASTM E84.

2. Spray Polyurethane Foam Insulation: ASTM C1029, Type II, closed cell, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E84.

B. Adhesive for Bonding Insulation: Product compatible with insulation and air and water barrier materials, and with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.
   1. Adhesives shall have a VOC content of 70 g/L or less.
   2. Adhesive shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

C. Interior Vapor Retarder: Modified polyethylene/polyacrylate (PE/PA) film reinforced with polyethylene terephthalate (PET) fibers, 6 mil, ___ inch thick.
   1. Width: 4.9 feet.
   2. Products:
      a. SIGA Cover Inc; SIGA-Majrex: www.sigacover.com/#sle.
      b. Substitutions: See Section 016000 - Product Requirements.

D. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
   1. Application: Sealing of interior circular penetrations, such as pipes or cables.
   2. Width: Are required for application.

E. Flashing Tape: Special reinforced film with high performance adhesive.
   1. Application: Window and door opening flashing tape.
   2. Width: As required for application.
   3. Primer: Tape manufacturer's recommended product.
   4. Products:
      a. Protecto Wrap Company; Protecto Super Stick Building Tape: www.protectowrap.com/#sle.

F. Insulation Fasteners: Impaling clip of galvanized steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.
   1. Adhesively Attached, Spindle-Type Anchors: Plate welded to projecting spindle; capable of holding insulation of specified thickness securely in position with self-locking washer in place.
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) AGM Industries, Inc.
         2) Gemco.
      b. Plate: Perforated, galvanized carbon-steel sheet, 0.030 inch thick by 2 inches square.
      c. Spindle: Copper-coated, low-carbon steel; fully annealed; 0.105 inch in diameter; length to suit depth of insulation.
   2. Anchor Adhesive: Product with demonstrated capability to bond insulation anchors securely to substrates without damaging insulation, fasteners, or substrates.
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) AGM Industries, Inc.
         2) Gemco.

G. Protection Board for Below Grade Insulation: Cementitious, 1/4 inch thick.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.

B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

3.02 BOARD INSTALLATION AT FOUNDATION PERIMETER

A. Install boards horizontally on foundation perimeter.
   1. Install in running bond pattern.
   2. Butt edges and ends tightly to adjacent boards and to protrusions.

B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

C. Immediately following application of board insulation, place protective boards over exposed insulation surfaces.

3.03 BOARD INSTALLATION AT EXTERIOR WALLS

A. Adhere 6 inches wide strip of polyethylene sheet over expansion joints with double beads of adhesive each side of joint.
   1. Tape seal joints between sheets.
   2. Extend sheet full height of joint.

B. Apply adhesive to back of boards:
   1. Three continuous beads per board length.
   2. Full bed 1/8 inch thick.

C. Install boards horizontally on walls.
   1. Install in running bond pattern.
   2. Butt edges and ends tightly to adjacent boards and protrusions.

D. Extend boards over expansion joints, unbonded to wall on one side of joint.

E. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

F. Tape insulation board joints.

3.04 BOARD INSTALLATION AT CAVITY WALLS

A. Install boards to fit snugly between wall ties.

B. Install boards horizontally on walls.

C. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.05 BOARD INSTALLATION UNDER CONCRETE SLABS

A. Place insulation under slabs on grade after base for slab has been compacted.

B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

C. Prevent insulation from being displaced or damaged while placing vapor retarder and placing slab.

3.06 BATT INSTALLATION

A. Install insulation and vapor retarder in accordance with manufacturer's instructions.

B. Install in exterior wall and roof spaces without gaps or voids. Do not compress insulation.

C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.

D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.

E. Install with factory-applied vapor retarder membrane facing warm side of building spaces. Lap ends and side flanges of membrane over framing members.

F. Tape seal butt ends, lapped flanges, and tears or cuts in membrane.

G. At metal framing, place vapor retarder on warm side of insulation; lap and seal sheet retarder joints over face of member

H. Tape seal tears or cuts in vapor retarder.

I. Extend vapor retarder tightly to full perimeter of adjacent window and door frames and other items interrupting the plane of the membrane; tape seal in place.

3.07 FIELD QUALITY CONTROL

A. See Section 014000 - BSD Quality Requirements for additional requirements.

B. Coordination of Air Barrier Association of America (ABAA) Tests and Inspections:
   1. Provide testing and inspection required by ABAA Quality Assurance Program (QAP).
   2. Notify ABAA in writing of schedule for air barrier work, and allow adequate time for testing and inspection.
   3. Cooperate with ABAA testing agency.
   4. Allow access to air barrier work areas and staging.
   5. Do not cover air barrier work until tested, inspected, and accepted.

3.08 PROTECTION

A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

SECTION 072400
EXTERIOR INSULATION AND FINISH SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Incidental use of finish coating applied directly to concrete based sheathing.

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 076200 - SHEET METAL FLASHING AND TRIM: Perimeter flashings.

C. Section 079200 - JOINT SEALANTS: Sealing joints between EIFS and adjacent construction and penetrations through EIFS.

1.03 ABBREVIATIONS

A. EIFS: Exterior Insulation and Finish System.

1.04 REFERENCE STANDARDS

A. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus; 2019.

B. ASTM C150/C150M - Standard Specification for Portland Cement; 2020.

C. ASTM C1397 - Standard Practice for Application of Class PB Exterior Insulation and Finish Systems (EIFS) and EIFS with Drainage; 2025.

D. ASTM C1481 - Standard Guide for Use of Joint Sealants with Exterior Insulation and Finish Systems (EIFS); Current Edition.

E. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive; 2025.

F. ASTM D2247 - Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity; 2025.

G. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2016.

H. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.

I. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2016).

J. ASTM E695 - Standard Test Method of Measuring Relative Resistance of Wall, Floor, and Roof Construction to Impact Loading; 2022.

K. ASTM E2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies; 2025.

L. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials; 2013 (Reapproved 2021).

M. ASTM G155 - Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials; 2025.

N. ICC-ES AC24 - Exterior Insulation and Finish Systems; Current Edition.

O. ICC-ES AC219 - Acceptance Criteria for Exterior Insulation and Finish Systems; 2009, with Editorial Revision (2022).

P. ICC-ES AC235 - Acceptance Criteria for EIFS Clad Drainage Wall Assemblies; 2015, with Editorial Revision (2022).

Q. ISO 9001 - Quality Management Systems — Requirements; 2015, with Amendment (2024).

R. NFPA 268 - Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source; 2022.

S. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2025.

1.05 SUBMITTALS

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

B. Product Data: Provide data on system materials, product characteristics, performance criteria, and system limitations.

C. Shop Drawings: Indicate wall and soffit joint patterns, joint details, and molding profiles.

D. Selection Samples: Submit manufacturer's standard range of samples illustrating available coating colors and textures.

E. Verification Samples: Submit actual samples of selected coating on specified substrate, minimum 12 inches square, illustrating project colors and textures.

F. Manufacturer's Installation Instructions: Indicate preparation required, installation techniques, and jointing requirements.

G. Installer's qualification statement.

H. Material or Product Certificates: For each insulation and joint sealant, from manufacturer.

I. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each insulation, reinforcing mesh, joint sealant, and coating.

J. Compatibility and Adhesion Test Reports: For joint sealants from sealant manufacturer indicating the following:
   1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
   2. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.

K. Field quality-control reports.

L. Maintenance Data: For EIFS to include in maintenance manuals.

1.06 QUALITY ASSURANCE

A. Maintain copy of specified installation standard and manufacturer's installation instructions at project site during installation.

B. EIFS Manufacturer Qualifications: Provide EIFS products other than insulation from the same manufacturer with qualifications as follows:
   1. Member in good standing of EIMA (EIFS Industry Members Association).
   2. Manufacturer of EIFS products for not less than 5 years.
   3. Manufacturing facilities ISO 9001 certified.

C. Surface-Burning Characteristics: Provide insulation board, adhesives, base coats, and finish coats with flame-spread index of 25 or less and smoke-developed index of 450 or less, per ASTM E84.

D. Installer Qualifications: Company specializing in the type of work specified and with at least five years of documented experience and approved by manufacturer.

E. Preinstallation Conference: Conduct conference at Project site.

1.07 DELIVERY, STORAGE, AND HANDLING

A. See Section 017419 - Construction Waste Management and Disposal for packaging waste requirements.

B. Delivery: Deliver materials to project site in manufacturer's original, unopened containers with labels intact. Inspect materials and notify manufacturer of any discrepancies.

C. Storage: Store materials as directed by manufacturer's written instructions.
   1. Protect adhesives and finish materials from freezing or overheating: temperatures below 40 degrees F and temperatures in excess of 90 degrees F.
   2. Protect Portland cement based materials from moisture and humidity. Store under cover off the ground in a dry location.
   3. Protect insulation materials from exposure to sunlight.
   4. Protect plastic insulation against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.
   5. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

1.08 FIELD CONDITIONS

A. Do not prepare materials or apply EIFS under conditions other than those described in the manufacturer's written instructions.

B. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.

C. Do not install adhesives, coatings or sealants when ambient temperature is below 40 degrees F.

D. Do not install adhesives, coatings or sealants during rainfall.

E. Do not leave installed insulation board exposed to sunlight for extended periods of time.

F. Proceed with installation only when existing and forecasted weather conditions and ambient outdoor air, humidity, and substrate temperatures permit EIFS to be applied, dried, and cured according to manufacturers' written instructions and warranty requirements.

1.09 COORDINATION

A. Coordinate installation of EIFS with related Work specified in other Sections to ensure that wall assemblies, including sheathing, flashing, trim, joint sealants, windows, and doors, are protected against damage from the effects of weather, age, corrosion, moisture, and other causes. Do not allow water to penetrate behind flashing and barrier coating of EIFS.

1.10 WARRANTY

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

B. Provide manufacturer's standard material warranty, covering a period of not less than 5 years.

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 EXTERIOR INSULATION AND FINISH SYSTEM

A. Fire Characteristics:
   1. Flammability: Pass, when tested in accordance with NFPA 285.
   2. Ignitibility: No sustained flaming when tested in accordance with NFPA 268.

B. Water Penetration Resistance: No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes, when tested in accordance with ASTM E331 at 6.24 psf differential pressure with tracer dye in the water spray; include in tested sample at least two vertical joints and one horizontal joint of same type to be used in construction; disassemble sample if necessary to determine extent of water penetration.

C. Drainage Efficiency: Average minimum efficiency of 90 percent, when tested in accordance with ASTM E2273 for 75 minutes.

D. Salt Spray Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 300 hours exposure in accordance with ASTM B117, using at least three samples matching intended assembly, at least 4 by 6 inches in size.

E. Freeze-Thaw Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 10 cycles, when tested in accordance with ICC-ES AC219 or ICC-ES AC235.

F. Weathering Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating when viewed under 5x magnification after 2000 hours of accelerated weathering conducted in accordance with ASTM G153 Cycle 1 or ASTM G155 Cycles 1, 5, or 9.

G. Water Degradation Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 14 days exposure, when tested in accordance with ASTM D2247.

H. Mildew Resistance: No growth supported on finish coating during 28 day exposure period, when tested in accordance with ASTM D3273.

I. Abrasion Resistance Of Finish: No cracking, checking or loss of film integrity when tested in accordance with ASTM D968 with 113.5 gallons of sand.

J. Impact Resistance: No cracking or denting when tested in accordance with ASTM E695 with a 30 pound impact mass.

2.03 MATERIALS

A. Compatibility: Provide adhesive, fasteners, board insulation, reinforcing meshes, base-coat, finish-coat systems, sealants and accessories that are compatible with one another and with substrates and approved for use by EIFS manufacturer for Project.

B. Primer/Sealer: EIFS manufacturer's standard substrate conditioner designed to seal substrates from moisture penetration and to improve the bond between substrate of type indicated and adhesive used for application of insulation.

C. Flexible-Membrane Flashing: Cold-applied, fully self-adhering, self-healing, rubberized-asphalt and polyethylene-film composite sheet or tape and primer; EIFS manufacturer's standard or product recommended in writing by EIFS manufacturer.

D. Finish Coating Top Coat: Water-based, air curing, acrylic finish with integral color and texture.
   1. Texture: Dryvit Systems, Inc; Elastomeric, with Dirt Pickup Resistance; Weatherlastic Smooth: www.dryvit.com/#sle.
   2. Color: As selected by Architect from manufacturer's standard range.
   3. Substitutions: See Section 016000 - Product Requirements.

E. Waterproof Adhesive/Base-Coat Materials: EIFS manufacturer's standard waterproof formulation complying with one of the following:
   1. Job-mixed formulation of portland cement complying with ASTM C150/C150M, Type I, white or natural color; and manufacturer's standard polymer-emulsion adhesive designed for use with portland cement.
   2. Job-combined formulation of manufacturer's standard polymer-emulsion adhesive and manufacturer's standard dry mix containing portland cement.

F. Water: Potable.

2.04 ACCESSORIES

A. Metal Flashings: See Section 076200.

B. Sealant Materials: Compatible with EIFS materials and as recommended by EIFS manufacturer.
   1. Elastomeric Sealant Products: Provide EIFS manufacturer's listed and recommended chemically curing, elastomeric sealant that is compatible with joint fillers, joint substrates, and other related materials, and complies with requirements for products and testing indicated in ASTM C1481 and with requirements in Division 07 Section "Joint Sealants."
   2. Sealant Color: As selected by Architect from manufacturer's full range.

2.05 MIXING

A. General: Comply with EIFS manufacturer's requirements for combining and mixing materials. Do not introduce admixtures, water, or other materials except as recommended by EIFS manufacturer. Mix materials in clean containers. Use materials within time period specified by EIFS manufacturer or discard.

PART 3 EXECUTION

3.01 EXAMINATION

A. With installer present, verify that substrate is sound and free of oil, dirt, other surface contaminants, efflorescence, loose materials, or protrusions that could interfere with EIFS installation and is of a type and construction that is acceptable to EIFS manufacturer. Do not begin work until substrate and adjacent materials are complete and thoroughly dry.

B. Verify that substrate surface is flat, with no deviation greater than 1/8 inch when tested with a 10 ft straightedge.

3.02 PREPARATION

A. Protect contiguous work from moisture deterioration and soiling caused by application of EIFS. Provide temporary covering and other protection needed to prevent spattering of exterior finish coats on other work.

B. Protect EIFS, substrates, and wall construction behind them from inclement weather during installation. Prevent penetration of moisture behind EIFS and deterioration of substrates.

C. Prepare and clean substrates to comply with EIFS manufacturer's written instructions to obtain optimum bond between substrate and adhesive for insulation.
   1. Concrete Substrates: Provide clean, dry, neutral-pH substrate for insulation installation. Verify suitability of substrate by performing bond and moisture tests recommended by EIFS manufacturer.

D. Apply primer to substrate as recommended by EIFS manufacturer for project conditions.

3.03 INSTALLATION - GENERAL

A. Install in accordance with EIFS manufacturer's instructions and ASTM C1397.
   1. Where different requirements appear in either document, comply with the most stringent.
   2. Neither of these documents supercedes provisions of Contract Documents that defines contractual relationships between parties or scope of this work.

3.04 SUBSTRATE PROTECTION APPLICATION

A. Waterproof Adhesive/Base Coat: Apply over sloped surfaces, window sills, parapets, and where otherwise indicated on Drawings to protect substrates from degradation.

3.05 INSTALLATION - CLASS PB FINISH

A. Primer: Apply over dry base coat according to EIFS manufacturer's written instructions.

B. Finish Coat: Apply over dry primed base coat, maintaining a wet edge at all times for uniform appearance, in thickness required by EIFS manufacturer to produce a uniform finish of color and texture matching approved sample and free of cold joints, shadow lines, and texture variations.
   1. Texture: As selected by Architect from manufacturer's full range.
   2. Color: As selected by Architect from manufacturer's full range.

C. Seal control and expansion joints within the field of exterior finish and insulation system, using procedures recommended by sealant and finish system manufacturers.

3.06 INSTALLATION - JOINT SEALANTS

A. Prepare joints and apply sealants, of type and at locations indicated, to comply with applicable requirements in Division 07 Section "Joint Sealants" and in ASTM C1481.
   1. Apply joint sealants after base coat has cured but before applying finish coat.
   2. Clean surfaces to receive sealants to comply with indicated requirements and EIFS manufacturer's written instructions.
   3. Apply primer recommended in writing by sealant manufacturer for surfaces to be sealed.
   4. Install sealant backing to control depth and configuration of sealant joint and to prevent sealant from adhering to back of joint.
   5. Apply masking tape to protect areas adjacent to sealant joints. Remove tape immediately after tooling joints, without disturbing joint seal.

3.07 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform special inspections according to ICC-ES AC24.

B. Remove and replace EIFS where test results indicate that EIFS does not comply with specified requirements.

C. Prepare test and inspection reports.

3.08 CLEANING

A. See Sections 017300 - Execution and 017700 - Closeout Procedures for additional requirements.

B. Remove temporary covering and protection of other work. Promptly remove coating materials from window and door frames and other surfaces outside areas indicated to receive EIFS coatings.

3.09 PROTECTION

A. Protect completed work from damage and soiling by subsequent work.

END OF SECTION

SECTION 084413
GLAZED ALUMINUM CURTAIN WALLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed curtain wall, with vision glazing and infill panels.

B. Curtain wall covers.

C. Firestopping between curtain wall and edge of floor slab.

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.

B. Section 033000 - CAST-IN-PLACE CONCRETE: Weld plates embedded in concrete for attachment of anchors.

C. Section 051200 - STRUCTURAL STEEL FRAMING: Steel attachment members.

D. Section 055000 - METAL FABRICATIONS: Steel attachment devices.

E. 072726 - Fluid Applied Vapor Permeable Membrane Air Barriers: Sealing framing to water-resistive barrier installed on adjacent construction.

F. Section 078400 - FIRESTOPPING: Firestop at system junction with structure.

G. Section 079200 - JOINT SEALANTS: Sealing joints between frames and adjacent construction.

H. Section 085113 - Aluminum Windows: Operable sash within glazing system.

I. Section 088000 - Glazing.

1.03 REFERENCE STANDARDS

A. AAMA 501.1 - Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure; 2017.

B. AAMA 501.4 - Recommended Static Test Method for Evaluating Window Wall, Curtain Wall and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drift; 2018.

C. AAMA 503 - Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems; 2014.

D. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum; 2025.

E. AAMA 611 - Specification for Anodized Architectural Aluminum; 2024.

F. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

A. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site; 2015.

B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

C. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.

D. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

E. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

F. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer; 2015 (Reapproved 2022).

G. ASTM C793 - Standard Test Method for Effects of Laboratory Accelerated Weathering on Elastomeric Joint Sealants; 2023.

H. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).

I. ASTM C1087 - Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems; 2023.

J. ASTM C1135 - Standard Test Method for Determining Tensile Adhesion Properties of Structural Sealants; 2019 (Reapproved 2024).

K. ASTM C1184 - Standard Specification for Structural Silicone Sealants; 2023.

L. ASTM C1249 - Standard Guide for Secondary Seal for Sealed Insulating Glass Units for Structural Sealant Glazing Applications; 2018 (Reapproved 2023).

M. ASTM C1401 - Standard Guide for Structural Sealant Glazing; 2023.

N. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

O. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.

P. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).

Q. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2016).

R. ASTM E413 - Classification for Rating Sound Insulation; 2022.

S. ASTM E783 - Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors; 2002 (Reapproved 2018).

T. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference; 2015.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with installation of other components that comprise the exterior enclosure.

B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

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

B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, internal drainage details, glazing, and infill.

C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, and field welding required.

D. Shop Drawings: Provide details of proposed structural sealant glazing (SSG) and weather sealant joints indicating dimensions, materials, bite, thicknesses, profile, and support framing.

E. Samples: Submit two samples 12" by 12" inches in size illustrating finished aluminum surface, glazing, infill panels, and glazing materials.
   1. Full-size components must indicate details of joinery and glazing.

F. Manufacturer's Certificate: Certify that the products supplied meet or exceed the specified requirements.

G. Design Data: Provide framing member structural and physical characteristics and engineering calculations, and identify dimensional limitations; include load calculations at points of attachment to building structure.

H. Structural Sealant Glazing (SSG): Submit product data and calculations showing compliance with performance requirements.

I. Test Reports: provide test results for glazed aluminum curtain walls. Submit results of full-size mock-up testing. Test reports must be based on evaluation of comprehensive tests performed by a qualified preconstruction testing agency.
   1. Test reports must indicate compliance with performance requirements.

J. Field Quality Control Submittals: Report of field testing for water penetration and air leakage.

K. Manufacturer's Qualification Statement.

L. Installer's Qualification Statement.

M. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Designer Qualifications: Design curtain wall and its structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed at the State in which the Project is located.

B. Verify that each component is appropriate for use in structural sealant glazing (SSG) application in regards to at least the following properties: size, shape, dimensions, material, durability, storage conditions, and color.

C. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with not less than five years of documented experience.
   1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.
      a. Insulating Glass Certification Council (IGCC).

D. Installer Qualifications: Company specializing in performing work of type specified and with at least five years of documented experience.

E. Pre-installation Conference:
   1. Conduct conference at project site to comply with requirements in Division 01 Project management and coordination section. Attendence by general contractor and curtain wall installation sub-contractor is required.

1.07 MOCK-UPS

A. See Section 014000 – Quality Requirements, for additional requirements.

B. Construct mock-up indicating each component being used on the project. Assemble to illustrate component assembly including glazing materials, weep drainage system, attachments, anchors, and perimeter sealant.

C. Locate where directed.

D. Mock-up may remain as part of work.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Handle products of this section in accordance with AAMA CW-10.

B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.09 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F. Maintain this minimum temperature during and 48 hours after installation.

1.10 WARRANTY

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

B. Manufacturer Warranty: Provide 5-year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units. Complete forms in Owner's name and register with installer.

C. Finish Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

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.

C. Follow all instructions as indicated in Section 012519 - Equivalent Procedures.

D. Glazed Aluminum Curtain Walls Manufacturers:
   1. Kawneer North America: www.kawneer.com/#sle.
   2. Basis-of-Design Product.
      a. Kawneer Company Inc.
         1) CW 1: 1600UT System™1 Curtain Wall with 1" (25.4 mm) double glazed insulating units:
            (a) Sightline: 2-1/2" (63.5 mm)
            (b) Outside glazed pressure plate format.
            (c) System depth: 6” (152.4 mm).
      b. Subject to compliance with requirements, provide a comparable product by the following.
         1) YKK AP Corp.
         2) EFCO Corporation.

3. Substitutions: See Section 016000 - Product Requirements.

2.02 CURTAIN WALL

A. Aluminum-Framed Curtain Wall: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
   1. Inside glazed, with pressure plate and mullion cover.
   2. Fabrication Method: Field fabricated stick system.
   3. Glazing Method: Field glazed system.
   4. Finish: Class I natural anodized.
      a. Factory finish surfaces that will be exposed in completed assemblies.
      b. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
   5. Provide flush joints and corners, weathersealed, accurately fitted and secured; prepared to receive anchors; fasteners and attachments concealed from view; reinforced as required for imposed loads.
   6. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
   7. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
   8. Maintain continuous air barrier and/or vapor retarder seal throughout assembly, primarily in line with inside pane of glazing and inner sheet of infill panel and heel bead of glazing compound.

B. Structural Performance Requirements: Design and size components to withstand the following load requirements without damage or permanent set.
   1. Design Wind Loads: Comply with Design Crieria as indicated on drawings .
      a. Measure performance by testing in accordance with ASTM E330/E330M, using test loads equal to 1.5 times the design wind loads and 10 second duration of maximum pressure.
      b. Member Deflection: For spans less than 13 feet 6 inches, limit member deflection to flexure limit of glass in any direction, and maximum of 1/175 of span or 3/4 inch, whichever is less and with full recovery of glazing materials.
      c. Member Deflection: For spans over 13 feet 6 inches and less than 40 feet, limit member deflection to flexure limit of glass in any direction, and maximum of 1/240 of span plus 1/4 inch, with full recovery of glazing materials.
   2. Seismic Loads: Design and size components to withstand seismic loads and sway displacement in accordance with requirements of ASCE 7.
   3. Interstory Differential Lateral Movement: Meeting pass/fail criteria of AAMA 501.4 for Use Group I, Standard Occupancy, when tested at design displacement of 0.010 times greater adjacent story height, maximum, and 1.5 times design displacement, through three complete cycles.
   4. Wind-Borne-Debris Resistance: Identical full-size glazed assembly without auxiliary protection tested in accordance with ASTM E1886 and in formation in ASTM 1996. for Large and Small Missile impact and pressure cycling at design wind pressure
      a. Large missile impact ; for aluminum framed system located within 30 feet of grade.
      b. Small missle impact; for aluminum framed systesms located above 30 feet of grade.
   5. Movement: Accommodate the following movement without damage to components or deterioration of seals:

a. Expansion and contraction caused by 180 degrees F surface temperature.
b. Expansion and contraction caused by cycling temperature range of 170 degrees F over a 12 hour period.
c. Movement of curtain wall relative to perimeter framing.
d. Deflection of structural support framing, under permanent and dynamic loads.

6. Test Performance: No buckling, stress on glass; sealant failure; excess stress on framing, anchors and fasteners; or reduction of performance when tested in accordance with AAMA 501.5.

C. Water Penetration Resistance on Manufactured Assembly: No uncontrolled water on indoor face when tested as follows:
1. Test Pressure Differential: 15 psf.
2. Test Method: ASTM E331.
3. Test Method: AAMA 501.1.

D. Air Leakage: 0.06 cfm/sq ft maximum leakage of wall area when tested in accordance with ASTM E283/E283M at 6.24 psf pressure difference across assembly.

E. Thermal Transmittance (U-factor) Physical Test
1. Thermal transmittance test results in accordance with AAMA 1503 are based upon argon-filled 1" (25.4 mm) or 1-3/4" (44.4 mm) clear low-emissivity coated glass with warm edge spacer.
2. For 1" (25.4 mm) low-emissivity coated glass: When tested using AAMA 1503, the thermal transmittance (U-factor) shall not be more than 0.33 Btu/(hr·ft^2·°F).

F. Thermal Transmittance (U-Factor) Simulation
1. Thermal transmittance simulation results using NFRC 100 or AAMA 507 are based upon argon-filled 1" (25.4 mm) or 1-3/4" (44.4 mm) clear low-emissivity coated glass with warm edge spacer.
2. For 1" (25.4 mm) glass with Center of Glass (COG) U-factor of 0.24 Btu/(hr·ft^2·°F) and warm edge spacer, when simulated using NFRC 100 or AAMA 507, the thermal transmittance (U-factor) shall not be more than 0.32 Btu/(hr·ft^2·°F).

G. Condensation Resistance Factor (CRF)
1. Condensation resistance test results in accordance with AAMA 1503 or CSA A440 are based upon argon-filled 1" (25.4 mm) or 1-3/4" (44.4 mm) clear low-emissivity coated glass with warm edge spacer.
2. For 1" (25.4 mm) glass: When tested using AAMA 1503, the CRF_{frame} and CRF_{glass} shall not be less than 79 and 76 respectively.

H. Solar Heat Gain Coefficient
1. Fixed glazing and framing areas shall have a solar heat gain coefficient of no greater than 0.33 as determined according to NFRC 200 and the ECCNY 2025.

I. Acoustical Performance Requirements:
1. Sound Attenuation: STC of 37, minimum, from exterior to interior.
2. Test Method: ASTM E90, with calculation in accordance with ASTM E1425.

2.03 COMPONENTS

A. Aluminum Framing Members:
1. Manufacturer's standard extruded or formed aluminum members of thikness required and reinforced as required to support imposed loads.

B. Glazing: See Section 088000.

C. Curtain Wall Cover: Part No. 832-985

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M) 6063-T6 alloy and temper.

B. Sheet Aluminum: ASTM B209/B209M.

C. Fasteners: Stainless steel; type as required or recommended by curtain wall manufacturer.

D. Anchors, Clips, and Accessories:
   1. Aluminum, nonmagnetic stainless steel or zinc-coated steel or iron comlying with ASTM B633 for SC 3 severe service conditions.

E. Reinforcing Members:
   1. Aluminum, nonmagnetic stainless steel ornickel/chrome-plated steel comlying with ASTM B456 for SC 3 severe service conditions or zinc-coated steel or iron comlying with ASTM B633 for SC 3 severe service conditions.

F. Firestopping: See Section 078400.

G. Structural Sealant Glazing (SSG) Adhesive: Neutral curing, silicone sealant formulated for SSG applications in compliance with ASTM C1184 and structural glazing industry guidelines, ASTM C1401.
   1. SSG adhesive in compliance with ASTM C920; Type S - Single-component, Grade NS, Class 50, Use NT, G, and A.
   2. Ultimate Tensile Strength: Minimum of 50 psi as determined by test method ASTM C1135 under the following conditions.
      a. Exposure to air temperatures of 190 degrees F and minus 20 degrees F.
      b. Water immersion for seven (7) days, minimum.
      c. Exposure to weathering for 5,000 hours, minimum.
   3. Sealant Design Tensile Strength: 20 psi, maximum.
   4. Hardness: 20 to 60 with Type A-2 durometer in compliance with test method ASTM C661.
   5. Shelf Life: Six (6) months, minimum.
   6. Color: Black.
   7. Volatile Organic Compound (VOC) Content: Less than 20 g/l.
   8. SSG sealant tested for compatibility with glazing accessories in compliance with ASTM C1087, tested for accelerated weathering in compliance with ASTM C793, and in compliance with insulating glass secondary sealant design standards of ASTM C1249.
   9. Manufacturers:
      a. Dow; DOWSIL 121 Structural Glazing Sealant: www.dow.com/#sle.
      b. Dow; DOWSIL 983 Structural Glazing Sealant: www.dow.com/#sle.
      c. Tremco Inc: www.tremcosealants.com/#sle.
      d. Substitutions: See Section 016000 - Product Requirements.

H. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

I. Glazing Accessories: See Section 088000.

2.05 FINISHES

A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils thick.
   1. Color: To be selected by Architect from manufacturer's standard range.

B. Class I Color Anodized Finish: AAMA 611 AA-M12C22A42 Integrally colored anodic coating not less than 0.7 mils thick.
   1. Color: To be selected by Architect from manufacturer's standard range.

C. Superior Performing Organic Coatings System: Manufacturer's standard multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent polyvinylidene fluoride (PVDF) resin, and at least 80 percent of aluminum extrusion and panels surfaces having minimum total dry film thickness (DFT) of 1.2 mils, 0.0012 inch.
   1. Color: To be selected by Architect from manufaturer's full range. Up to (3) custom colors to be included for the curtain wall covers.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify dimensions, tolerances, and method of attachment with other related work.

B. Verify that curtain wall openings and adjoining water-resistive and air barrier seal materials are ready to receive work of this section.

C. Verify that anchorage devices have been properly installed and located.

3.02 INSTALLATION

A. Install curtain wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Provide alignment attachments and shims to permanently fasten system to building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

E. Provide thermal isolation where components penetrate or disrupt building insulation.

F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.

G. Install firestopping at each floor slab edge.

H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.

I. Pressure Plate Framing: Install glazing and infill panels using exterior dry glazing method; see Section 088000.

J. Structural Sealant Glazing (SSG) Adhesive: Install structural sealant glazing adhesive and weatherseal sealant in accordance with manufacturer's instructions.

K. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.03 TOLERANCES

A. Maximum Variation from Plumb: 0.06 inch per 3 feet noncumulative or 0.5 inches per 100 feet, whichever is less.

B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.

C. Sealant Space Between Curtain Wall Mullions and Adjacent Construction: Maximum of 3/4 inch and minimum of 1/4 inch.

3.04 FIELD QUALITY CONTROL

A. Provide services of curtain wall manufacturer's field representative to observe for proper installation of system and submit report.

B. See Section 014000 – Quality Requirements, for independent field testing and inspection requirements, and requirements for monitoring quality of specified product installations.

C. Provide field testing of installed curtain wall system by AAMA accredited independent laboratory in accordance with AAMA 503 during construction process and before installation of interior finishes.
   1. Perform a minimum of two tests in each designated area as directed by Architect.
   2. Conduct tests in each area prior to 10 percent and 50 percent completion of this work.
   3. Field test for water penetration in accordance with ASTM E1105 with uniform static air pressure difference (Procedure A) not less than 4.18 psf.
      a. Maximum allowable rate of water penetration in 15-minute test is 0.5 ounce that is not contained in an area with provisions to drain to exterior, or collected on surface of interior horizontal framing member.
   4. Field test for air leakage in accordance with ASTM E783 with uniform static air pressure difference of 1.57 psf.
      a. Maximum allowable rate of air leakage is 1.5 times specified rate of 0.09 cfm/sq ft.

D. Repair or replace curtain wall components that have failed designated field testing, and retest to verify performance complies with specified requirements.

3.05 CLEANING

A. See Section 017300 - Execution and 017700 - Closeout Procedures for additional requirements.

B. Remove protective material from pre-finished aluminum surfaces.

C. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths, take care to remove dirt from corners, and wipe surfaces clean.

D. Upon completion of installation, thoroughly clean aluminum surfaces in accordance with AAMA 609 & 610.

3.06 PROTECTION

A. Protect installed products from damage untils substantial completion is determined by the Architect.

END OF SECTION

SECTION 275116
MODIFICATIONS TO EXISTING IP PUBLIC ADDRESS AND CLOCK SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Amplifier and control equipment.

B. Input equipment.

C. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 260526 - Grounding and Bonding for Electrical Systems.

B. Section 260533.16 - Boxes for Electrical Systems.

1.03 REFERENCE STANDARDS

A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 SYSTEM DESCRIPTION

A. Modify existing InformaCast Fusion system to add POE audio speakers and POE combination clock/speaker assemblies. New POE clock/speaker devices shall match existing manufacturer from Advanced Network Devices (AND). Tie new system into existing Rualand Telecenter analog system amplifiers using approprate AND zone modules.

B. Existing District Vendor is Day Automation Systems, Jenn Fitz Simmons Telephone 1-(845) 303-33556).

C. Purchase new InformacCast Fusion license for each and every new IP clock and/or speaker device indicated herin and on the plans.

D. Provide multiple zone controllers in existing Rauland Telecenter analog rack tointegrate signal from InformaCast system.

E. Integration into District's Informacast system. Provide all required hardware, equipment, accessories and wiring to complete interconnection.

1.05 SUBMITTALS

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

B. Shop Drawings: Indicate electrical characteristics and connection requirements. Indicate layout of equipment mounted in racks and cabinets, component interconnecting wiring, and wiring diagrams of field wiring to speakers and remote input devices.

C. Product Data: Provide data showing electrical characteristics and connection requirements for each component.

D. Test Reports: Indicate satisfactory completion of each test recommended by the manufacturer.

E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.

F. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

G. Manufacturer's Field Reports: Indicate that installation is complete and system performs according to specified requirements.

H. Project Record Documents: Record actual locations of speakers, control equipment, and outlets for input/output connectors.

I. Operation Data: Include instructions for adjusting, operating, and extending the system.

J. Maintenance Data: Include repair procedures and spare parts documentation.

1.06 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70 .

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience with service facilities within 100 miles of Project.

C. Supplier Qualifications: Authorized distributor of specified manufacturer with minimum three years documented experience.

D. Installer Qualifications: Authorized installer of specified manufacturer with service facilities within 100 miles of Project.

E. Products: Listed, classified, and labeled as suitable for the purpose intended.

F. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Advanced Network Devices (AND) to match existing system.

2.02 COMPONENTS

A. Combination IP Clock/PA Speaker device.
   1. Surface mounted design with 8" diameter speaker and high definition 1920x720 full color LCD screen.
   2. Hands-Free two-way intercom.
   3. White Finish.
   4. Speaker Frequency Response 60 Hz - 17 kHz.
   5. RGB flashing LED bar with customizing additional visual messaging in any color.
   6. PoE+ 30.0W power input.
   7. Product:Advanced Network Devices IPSWDHD-MW.

B. Double sided combination IP Clock/PA Speaker device:
   1. Wall mounted design with 4" speaker each side and double sided high definition 1920x720 full color LCD display.
   2. Black Finish.
   3. Speaker Frequency Response 150 Hz - 17 kHz.
   4. RGB flashing LED bar with customizing additional visual messaging in any color.
   5. PoE+ 30.0W power input.
   6. Product: Advanced Network Devices (AND) IPCSHD-DS-BM.

C. Ceiling IP PA Speaker device :

1. Flush mounted ceiling with 8" diameter speaker and 10.5" overall diamter.
2. White Finish
3. Speaker Frequency Response 60 Hz - 17 kHz.
4. PoE 15.4W or PoE+ 10.0W power input.
5. Product: Advanced Network Devices (AND) IPSCM-RMe.

D. Wall mounted IP PA Speaker device:
1. Surface mounted box with 8" diameter speaker and overall 11.6"x11.6"x 4" deep box.
2. White Finish.
3. Speaker Frequency Response 60 Hz - 17 kHz.
4. PoE 15.4 or PoE+ 10.0W power input.
5. Product: Advanced Network Devices (AND) IPSWS-SM.

E. Outdoor IP PA Speaker.
1. Weather-resistant IP54 surface mounted high efficiency horn speaker.
2. White Finish.
3. Speaker Frequency Response 600 Hz - 15 kHz
4. PoE 15.4W or PoE+ 10.0W power input.
5. Product: Advanced Network Devices (AND) IPSWS-SM-O.

F. Zone Controller.
1. Zone controller network device with IP POE in, analog line in and analog line out connections.
2. Speaker output 8 ohm.
3. Input/Output jacks to/from analog public address amplifiers.
4. PoE 15.4 or PoE+ 30.0W power input.
5. Product: Advanced Network Devices (AND) ZoneC2.

2.03 WIRE AND CABLE

A. Plenum rated Category 6A data cable (Green in color). Refer to specification section 271000 - Structured Cabling.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Mounting Heights: Coordinate locations of outlet boxes specified in Section 260533.16 to obtain mounting heights indicated or as indicated on drawings.

C. Install data cable and terminate at device and at data patch panel.

D. Providee interconnection at existing Rauland Telecenter Public Address system cabinet using. Connect minimum of (4) zone controllers to include the existing PA system zones.

E. Leave 18 inches excess data cable at each device termination point.

F. Leave 6 feet excess cable at each termination at data cabinet

G. Provide protection for exposed cables where subject to damage.

H. Support cables above accessible ceilings to keep them from resting on ceiling tiles. Use spring metal clips or plastic cable ties to support cables from structure for ceiling suspension system. Include bridle rings or drive rings.

I. Ground and bond equipment and circuits in accordance with Section 260526.

3.02 FIELD QUALITY CONTROL

A. See Section 014000 - BSD Quality Requirements, for additional requirements.

B. Provide the services of manufacturer's technical representative to prepare and start system.
   1. Include making of final wiring connections, inspection and adjusting of completed installation, and systems demonstration.
   2. Certify that installation is complete and performs according to specified requirements.

C. Measure and record sound power levels at designated locations.

3.03 ADJUSTING

A. Adjust devices and wall plates to be flush and level.

3.04 CLOSEOUT ACTIVITIES

A. See Section 017900 - Demonstration and Training, for additional requirements.

B. Demonstration: Demonstrate operation of system to Owner's personnel.
   1. Use operation and maintenance data as reference during demonstration.
   2. Conduct walking tour of project.
   3. Briefly describe function, operation, and maintenance of each component.

C. Training: Train Owner's personnel on operation and maintenance of system.
   1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
   2. Provide minimum of one day of training.
   3. Instructor: Manufacturer's training personnel.

3.05 MAINTENANCE

A. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

B. Provide service and maintenance of public address and music system for one year from Date of Substantial Completion.

END OF SECTION

1

SECTION 281000
ACCESS CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Access control system requirements.

B. Access control units and software.

C. Access control point peripherals, including readers.

D. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 078400 - FIRESTOPPING.

B. Section 087100 - Door Hardware: Electrically operated door hardware, for interface with access control system.

C. Section 142100 - Electric Traction Elevators: For interface with access control system.

D. Section 260526 - Grounding and Bonding for Electrical Systems.

E. Section 260533.13 - Conduit for Electrical Systems.

F. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

G. Section 271000 - Structured Cabling: Data cables for access control system IP network connections.

1.03 DEFINITIONS

A. Access Control Cloud Services: Subscription-based hosted application utilizing Software as a Service (SaaS) delivery model in lieu of on-premises servers/software.

1.04 REFERENCE STANDARDS

A. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2023.

B. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

C. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. UL 294 - Access Control System Units; Current Edition, Including All Revisions.

1.05 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the work with other installers to provide suitable door hardware as required for both access control functionality and code compliance.
   2. Coordinate the placement of readers with millwork, furniture, equipment, etc. installed under other sections or by others.
   3. Coordinate the work with other installers to provide power for equipment at required locations.
   4. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Preinstallation Meetings:
   1. Conduct meeting with facility representative to review reader and equipment locations.

2. Conduct meeting with facility representative and other related equipment manufacturers to discuss access control system interface requirements.

1.06 SUBMITTALS

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

B. Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.

C. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

D. Evidence of qualifications for installer.

E. Manufacturer’s detailed field testing procedures.

F. Field quality control test reports.

G. Project Record Documents: Record actual locations of system components and installed wiring arrangements and routing.

H. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.
   1. Include contact information for entity that will be providing contract maintenance and trouble call-back service.

I. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in Owner's name and registered with manufacturer.

1.07 QUALITY ASSURANCE

A. Comply with the following:
   1. NFPA 70.
   2. NFPA 101 (Life Safety Code).
   3. The requirements of the local authorities having jurisdiction.
   4. Applicable TIA/EIA standards.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience with access control systems of similar size, type, and complexity and providing contract maintenance service as a regular part of their business; authorized manufacturer's representative.

C. Maintenance Contractor Qualifications: Same entity as installer.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.

B. Store products in manufacturer's unopened packaging, keep dry and protect from damage until ready for installation.

1.09 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

B. Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Access Control Units - Basis of Design of existing system: Avigilon, as indicated under product descriptions below.

B. Access Control Units:
   1. Avigilon.

C. Access Control Software - Existing Avigilon Unity Access 7 Professional

D. Readers:
   1. HID: Signo Readers Model 20 to match existing building type.

2.02 ACCESS CONTROL SYSTEM REQUIREMENTS

A. Provide installation of access control system consisting of required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, work required for a complete operational system that provides the functional intent indicated. Owner to furnish access control reader controllers, REX sensors, and prximity card readers for installation by this contract. Existing system is Avigilon Unity Access 7 Professional.

B. System Battery Backup: Provide batteries/uninterruptible power supplies (UPS) as required for 90 minutes of full operation.

C. The Owner's vendor is Day Automation Systems: Contact Jenn Fitzsimmons at phone # (845)303-3356.

D. Access Control Points:
   1. See article "ACCESS CONTROL POINT PERIPHERALS" below for device descriptions.
   2. Elevator Number 1:
      a. Location: Each Floor.
      b. Access: Free access to elevator call, controlled access to designated floors.
      c. Peripherals Outside Elevator on Designated Floors:
         1) Reader: Contactless smart card reader.

E. Provide products listed, classified, and labeled as suitable for the purpose intended.
   1. Access Control Units and Readers: Listed and labeled as complying with UL 294.

2.03 ACCESS CONTROL UNITS AND SOFTWARE

A. Provide access control units compatible with readers to be connected.

2.04 ACCESS CONTROL POINT PERIPHERALS

A. Provide devices compatible with control units and software.

B. Provide devices suitable for operation under the service conditions at the installed location.

C. Readers:
   1. General Requirements:
      a. Provide readers compatible with credentials to be used.
   2. Reader Controllers (Furnished by Owner):
      a. Avigilon LP1501-1 (1) door reader controller.
      b. Avigilon LP1502-2 (2) door access controller.
   3. Card Reader (CR) (Furnished by Owner):
      a. Basis of Design: HID Signo Model 20.

b. Credentials Supported: Communicates with 13.56 MHz smart cards and 125 kHz proximity cards.
c. Features:
1) Mullion mount.
2) Black color.
3) 12V DC.

D. Door Position Switches (DC):
1. Magnetic Door Contacts: Encapsulated reed switch(es) and separate magnet; designed to monitor opened/closed position of doors.
2. Contact Color: White unless otherwise indicated.
3. Products:
a. Interlogix 1070D-G.
b. Substitutions: See Section 016000 - Product Requirements.

E. Request to Exit Devices:
1. Request-To-Exit Sensors (REX) (Furnished by Owner): Passive infrared.
a. Products:
1) Bosch DS150i series or equal.
2) Substitutions: See Section 016000 - Product Requirements.

F. Door Locking Devices (Electric Strikes Locks): This contract to wire completely. Devices and power supplies furnished and installed by GC. refer to Division 087100.

2.05 ACCESSORIES

A. Provide components as indicated or as required for connection of access control system to devices and other systems indicated.

B. Unless otherwise indicated, credentials to be provided by Contractor.
1. Provide credentials compatible with readers and control units/software to be used.

C. Unless otherwise indicated, network switches required for network connections to system components to be provided by Owner.

D. Provide cables as indicated or as required for connections between system components.
1. Unshielded twisted pair (UTP) complying with Section 271000. Cabling as required to an from equipment herein this specification and also noted on drawings.

E. Provide accessory racks/cabinets as indicated or as required for equipment mounting.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that ratings and configurations of system components are consistent with the indicated requirements.

C. Verify that mounting surfaces are ready to receive system components.

D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system.

E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Install access control system in accordance with NECA 1 (general workmanship).

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

C. Wiring Method: Unless otherwise indicated, use cables (not in conduit) unless exposed in finished spaces, then cables in surface metal raceway.
   1. Use suitable listed cables in wet locations, including underground raceways.
   2. Use suitable listed cables for vertical riser applications.
   3. Use listed plenum rated cables in spaces used for environmental air.
   4. Install wiring in conduit for the following:
      a. Where required for rough-in.
      b. Where required by authorities having jurisdiction.
      c. Where exposed to damage.
      d. Where installed outside the building.
      e. For exposed connections from outlet boxes to devices.
   5. Conduit: Comply with Section 260533.13.
   6. Conceal cables unless specifically indicated to be exposed.
   7. Use power transfer hinges complying with Section 087100 for concealed connections to door hardware.
   8. Cables in the following areas may be exposed, unless otherwise indicated:
      a. Equipment closets.
      b. Within joists in areas with no ceiling.
   9. Route exposed cables parallel or perpendicular to building structural members and surfaces.
   10. Do not exceed manufacturer's recommended maximum cable length between components.

D. Provide grounding and bonding in accordance with Section 260526.

E. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.

F. Identify system wiring and components in accordance with Section 260553.

3.03 FIELD QUALITY CONTROL

A. See Section 014000 - BSD Quality Requirements, for additional requirements.

B. Prepare and start system in accordance with manufacturer's instructions.

C. Program system parameters according to requirements of Owner.

D. Test for proper interface with other systems.

E. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

F. Submit detailed reports indicating inspection and testing results and corrective actions taken.

3.04 CLEANING

A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.05 CLOSEOUT ACTIVITIES

A. See Section 017800 - Closeout Submittals, for closeout submittals.

B. See Section 017900 - Demonstration and Training, for additional requirements.

C. Demonstration: Demonstrate proper operation of system to Owner, and correct deficiencies or make adjustments as directed.

D. Training: Train Owner's personnel on operation, adjustment, and maintenance of system.
   1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
   2. Provide minimum of four hours of training.
   3. Location: At project site.

3.06 PROTECTION

A. Protect installed system components from subsequent construction operations.

3.07 MAINTENANCE

A. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

B. Provide trouble call-back service upon notification by Owner:
   1. Include allowance for call-back service during normal working hours at no extra cost to Owner.
   2. Owner will pay for call-back service outside of normal working hours on an hourly basis, based on actual time spent at site and not including travel time; include hourly rate and definition of normal working hours in maintenance contract.

END OF SECTION

1

SECTION 282000
VIDEO SURVEILLANCE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Video surveillance system requirements.

B. Video recording and viewing equipment.

C. Cameras.

D. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 078400 - FIRESTOPPING.

B. Section 260526 - Grounding and Bonding for Electrical Systems.

C. Section 260529 - Hangers and Supports for Electrical Systems.

D. Section 260533.13 - Conduit for Electrical Systems.

E. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

F. Section 271000 - Structured Cabling: Data cables for IP video surveillance system network connections.

1.03 REFERENCE STANDARDS

A. 47 CFR 15 - Radio Frequency Devices; current edition.

B. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2023.

C. NECA 303 - Standard for Installing Closed-Circuit Television (CCTV) Systems; 2025.

D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate the placement of cameras with structural members, ductwork, piping, equipment, luminaires, diffusers, fire suppression system components, and other potential conflicts installed under other sections or by others.
2. Coordinate the work with other installers to provide power for cameras and equipment at required locations.
3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Preinstallation Meetings:

1. Conduct meeting with facility representative to review camera and equipment locations and camera field of view objectives.
2. Conduct meeting with facility representative and other related equipment manufacturers to discuss video surveillance system interface requirements.

1.05 SUBMITTALS

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

B. Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.

C. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

D. Design Data:
   1. Standby battery/UPS calculations.
   2. Video storage capacity calculations.

E. Certify that proposed system design and components meet or exceed specified requirements.

F. Evidence of qualifications for installer.

G. Evidence of qualifications for maintenance contractor (if different entity from installer).

H. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and operation of product.

I. Manufacturer’s detailed field testing procedures.

J. Field quality control test reports.

K. Project Record Documents: Record actual locations of system components and installed wiring arrangements and routing.

L. Operation and Maintenance Data: Include detailed information on system operation, equipment programming and setup, replacement parts, and recommended maintenance procedures and intervals.
   1. Include contact information for entity that will be providing contract maintenance and trouble call-back service.

M. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in Owner's name and registered with manufacturer.

N. Maintenance contracts.

O. Software: One copy of software not resident in read-only memory.

1.06 QUALITY ASSURANCE

A. Comply with the following:
   1. NFPA 70.
   2. Applicable TIA/EIA standards.

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

C. Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience with video surveillance systems of similar size, type, and complexity and providing contract maintenance service as a regular part of their business; authorized manufacturer's representative.
   1. Contract maintenance office located within 100 miles of project site.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and NECA 303.

B. Store products in manufacturer's unopened packaging, keep dry and protect from damage until ready for installation.

1.08 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

B. Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

PART 2 PRODUCTS

2.01 VIDEO SURVEILLANCE SYSTEM

A. Provide installation of video surveillance system consisting of all required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, work as required for a complete operational system that provides the functional intent indicated. Owner to furnish cameras, camera mounting hardware/brackets and NVR equpment for installation by this contract. Exisitng System is Avigilon Unity 7 Video Enterprise.

B. System Description: IP system with connection to network (IP) cameras.
   1. Video Storage Capacity: Upgrade existing storing video from all cameras for 30 days, NVR furnished by owner, this contract to install and program system.
   2. System Battery Backup: Provide additional batteries/uninterruptible power supplies (UPS) as required for 90 minutes of full operation. This contract to provide compatible battery upgrades for NVR power based on owner's NVR listed in paragraph 2.02.
   3. The onwer's security vendor is Day Automation Systems: Contact Jenn Fitzsimmons at phone # (845)303-3356.

C. Cameras:
   1. See article "CAMERAS" below for product descriptions.

D. Video Recording and Viewing Equipment:
   1. See article "VIDEO RECORDING AND VIEWING EQUIPMENT" below for product descriptions.

E. Provide products listed, classified, and labeled as suitable for the purpose intended.

F. Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Limits: Comply with FCC requirements of 47 CFR 15, for Class B, consumer application.

2.02 VIDEO RECORDING AND VIEWING EQUIPMENT

A. Install new NVR system recorder and utilize existing owner's software.

B. Additional NVR recording capacity to accommodate (37) additional cameras to system with minimum 30 days recording storage (Furnished by owner).This contract to install and fully program all cameras.

C. Network Video Recorders (NVRs) (Furnished by owner):
   1. Supports connection of network (IP) cameras.
   2. Supports continuous and event-based recording.
   3. Network Video Recorder Type NVR6 Premium Form D:
      a. Model: Avigilon NVR6-PRM-Form-d-160TB-S22.
      b. Capacity: 160 TB.

D. Software:

1. Unless otherwise indicated, provide all software and licenses required for fully operational system.
2. Video Management System:
   a. Existing Software: Existing Avigilon Unity Video Enterprise Edition ACC 7 .

2.03 CAMERAS (FURNISHED BY OWNER)

A. Provide cameras and associated accessories suitable for operation under the service conditions at the installed location. Provide additional components (e.g. enclosures, heaters, blowers, etc.) as required.

B. Where not factory-installed, provide additional components (e.g. lenses, mounting accessories, etc.) as necessary for complete installation.

C. Network (IP) Cameras:
   1. Signal-to-Noise Ratio: Not less than 50 dB.
   2. Provide the following standard features:
      a. Automatic electronic shutter.
      b. Automatic gain control.
      c. Automatic white balance.
      d. Web-based interface for remote viewing and setup.
      e. Password protected security access.
   3. Network (IP) Camera 3-Head Sensors - Avigilon (C-3, C-2)
      a. 24C-H5A-3MH
      b. H5AMH-AD-PEND1
      c. H5AMH-DO-COVR1
      d. WLMT-1001
      e. H4AMH-AD-IRIL1
      f. POE60U01BTE
   4. Network (IP Camera 2-Head Sensors - Avigilon 10.0C-H6ADH-D01-1R (C-14, C-16, C-24, C-26 C-27, C-29, C-31, C-35, C-37)
   5. Network (IP) Camera - Avigilon 4.0C-H6A-D1 (C-4, C-5, C-9, C-10, C-11, C-12, C-13, C-15, C-17, C-18, C-19, C-20, C-21, C-22, C-23, C-28, C-30, C-32, C-33, C-34, C-36)
   6. Network (IP) Camera - Avigilon 8.0C-H6A-BO1-1R (C-1, C-2).
   7. Network (IP) Camera - Avigilon 16.0C-H6ADH-D01-1R (C-6, C-7, C-8)

D. Camera Enclosures and Mounting Brackets:
   1. Where not factory-installed, provide accessory camera enclosures suitable for operation under the service conditions at the installed location.
   2. Where not factory-installed, provide accessory camera mounting brackets necessary for installation.

2.04 ACCESSORIES

A. Provide components as indicated or as required for connection of video surveillance system to devices and other systems indicated.

B. Provide components as indicated or as required for system power and network connections.

C. Provide cables as indicated or as required for connections between system components.
   1. Data Cables for IP Network Connections: Unshielded twisted pair (UTP), minimum Category 6A , complying with Section 271000.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that ratings and configurations of system components are consistent with the indicated requirements.

C. Verify that mounting surfaces are ready to receive system components.

D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system where applicable.

E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Install video surveillance system in accordance with NECA 1 (general workmanship) and NECA 303.

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

C. Provide required support and attachment in accordance with Section 260529.

D. Wiring Method: Unless otherwise indicated, use cables (not in conduit).
   1. Use suitable listed cables in wet locations, including underground raceways.
   2. Use suitable listed cables for vertical riser applications.
   3. Use listed plenum rated cables in spaces used for environmental air.
   4. Install wiring in conduit for the following:
      a. Where required for rough-in.
      b. Where required by authorities having jurisdiction.
      c. Where exposed to damage.
      d. Where installed outside the building.
      e. For exposed connections from outlet boxes to cameras.
   5. Conduit: Comply with Section 260533.13.
   6. Conceal all cables unless specifically indicated to be exposed.
   7. Cables in the following areas may be exposed, unless otherwise indicated:
      a. Equipment closets.
   8. Route exposed cables parallel or perpendicular to building structural members and surfaces.
   9. Include service loop cable lengths to allow relocation of cameras within 20 feet of installed location.

E. Provide grounding and bonding in accordance with Section 260526.

F. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.

G. Identify system wiring and components in accordance with Section 260553.

3.03 FIELD QUALITY CONTROL

A. See Section 014000 - BSD Quality Requirements, for additional requirements.

B. Provide services of a manufacturer's authorized representative to observe installation and assist in inspection and testing. Include manufacturer's detailed testing procedures and field reports with submittals.

C. Adjust cameras to provide desired field of view and produce suitable images under all service lighting conditions.

D. Program system parameters according to requirements of Owner.

E. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

F. Submit detailed reports indicating inspection and testing results and corrective actions taken.

3.04 CLEANING

A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

3.05 CLOSEOUT ACTIVITIES

A. See Section 017800 - Closeout Submittals, for closeout submittals.

B. See Section 017900 - Demonstration and Training, for additional requirements.

C. Demonstration: Demonstrate proper operation of system to Owner, and correct deficiencies or make adjustments as directed.

D. Training: Train Owner's personnel on operation, adjustment, and maintenance of system.
   1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
   2. Provide minimum of four hours of training.
   3. Location: At project site.

3.06 PROTECTION

A. Protect installed system components from subsequent construction operations.

3.07 MAINTENANCE

A. See Section 017000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

B. Provide to Owner, a proposal as an alternate to the base bid, a separate maintenance contract for the service and maintenance of video surveillance system for two years from date of Substantial Completion; Include a complete description of preventive maintenance, systematic examination, adjustment, cleaning, inspection, and testing, with a detailed schedule.

C. Provide trouble call-back service upon notification by Owner:
   1. Include allowance for call-back service during normal working hours at no extra cost to Owner.
   2. Owner will pay for call-back service outside of normal working hours on an hourly basis, based on actual time spent at site and not including travel time; include hourly rate and definition of normal working hours in maintenance contract.

END OF SECTION

CLASSIFICATION OF WORK KEY

- EXISTING CONSTRUCTION TO REMAIN
- AREAS OF ALTERATION - LEVEL 1
- AREAS OF ALTERATION - LEVEL 2
- AREA OF ADDITION(S)

LIFE SAFETY GENERAL NOTES

1. WALL RATINGS INDICATE RATING ASSEMBLY REQUIRED IN HOURS. FOR DESIGNATIONS BETWEEN FIRE BARRIER, FIRE PARTITION, AND FIRE WALL, REFER TO LIFE SAFETY PLANS & CODE STUDY.
2. ***WHERE "FG" IS INDICATED, FIRE-RATED GLAZING SYSTEM TO BE PROVIDED. REQUIRED OPENING PROTECTIVE RATING IS DEPENDENT ON TYPE OF FIRE-RATED ASSEMBLY (I.E. FIRE BARRIER, FIRE PARTITION, FIRE WALL). REFER TO CODE STUDY / LIFE SAFETY PLANS FOR WALL ASSEMBLY DESIGNATIONS.***

TEMPORARY LOCKER ROOM NOTES

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED
5. NOT USED
6. ONCE TEMPORARY LOCKER ROOMS ARE NO LONGER NEEDED - REMOVE LOCKERS, BENCHES, TEMPORARY PARTITIONS AND TEMPORARY PRIVACY FILMS IN THEIR ENTIRETY. RESTORE EXISTING FLOOR, CEILING AND WALL FINISHES AND ANY OTHER FINISHES DISTURBED BY TEMPORARY CONSTRUCTION TO MATCH EXISTING. REMOVE TEMPORARY PRIVACY FILM FROM ALL GLAZING AND RESTORE/CLEAN GLAZING.
7. INSTALL NEW 36" W SINK BASE CABINET w/ SOLID SURFACE COUNTER & SINK. (PC TO INSTALL NEW SINK AND CONNECT TO EXISTING SUPPLY & DWV PIPING)
8. ONCE TEMPORARY LOCKER ROOMS ARE NO LONGER NEEDED - PREP AND PAINT WALL SURFACES TO MATCH EXISTING. INSTALL ALL NEW WALL BASE.

LIFE SAFETY SYMBOL LEGEND

- EXIT
- EXIT DISCHARGE
- EXIT ACCESS DOOR
- ACCESSIBLE ENTRANCE
- HORIZONTAL EXIT
- EXIT SIGN
- RESCUE WINDOW
- FIRE-RATED GLAZING SYSTEM. ***RATING REQUIREMENTS AS INDICATED ON PLAN.***
- SMOKE COMPARTMENT
- SUITE (NFPA 101)
- 1 HR RATED HORIZONTAL ASSEMBLY - UL-D710 (REFER TO G200 FOR MORE INFORMATION)
- 2 HR RATED HORIZONTAL ASSEMBLY - UL-D710 & D902

ROOM/AREA NAME — ## / ### SF — ROOM AREA; OCCUPANT LOAD FACTOR; CALCULATED OCCUPANT LOAD

ROOM/AREA NAME — ## / -- — ROOM AREA; INDICATES OCCUPANCY OTHER THAN CODE MIN; STATED OCCUPANT LOAD

STAIR 60" / 44" / 100 — PROVIDED WIDTH; REQUIRED WIDTH; ANTICIPATED LOAD

###-# / ##" ### ### / ## MIN — DOOR NUMBER; ANTICIPATED LOAD; EGRESS CAPACITY; FIRE RATING; CLEAR WIDTH

TRAVEL DISTANCE 0' - 0" (0'-0" MAX) — TRAVEL DISTANCE

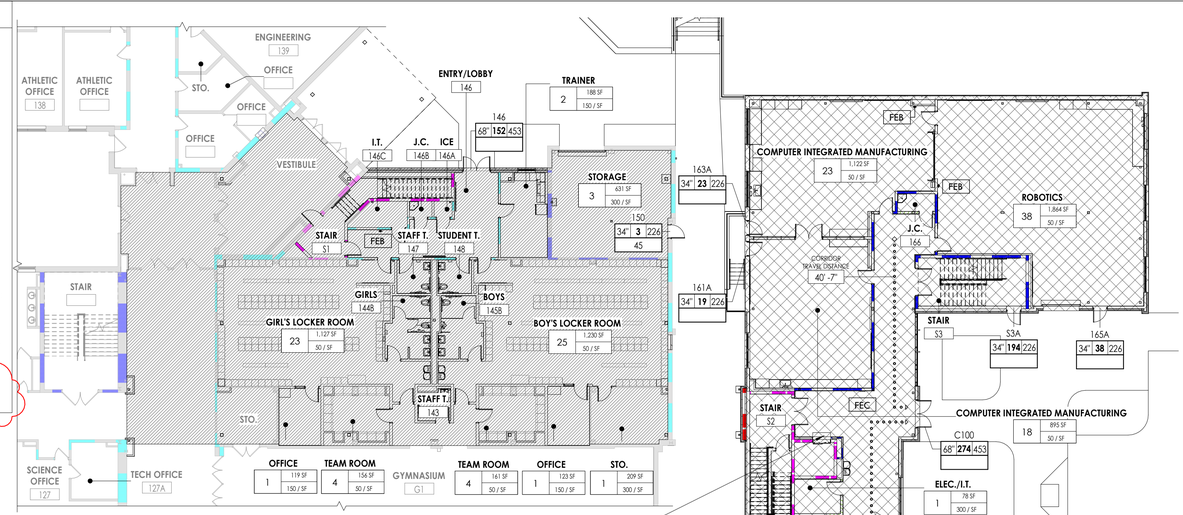
COMMON PATH OF TRAVEL 0' - 0" (0'-0" MAX) — COMMON PATH TRAVEL

DEAD END DISTANCE 0' - 0" (0'-0" MAX) — DEAD END DISTANCE

FIRE SHUTTER 1 HR — FIRE SHUTTERS

- 1 HOUR RATED SMOKE TIGHT BARRIER
- 1 HOUR FIRE RATED PARTITION
- 1 HOUR FIRE RATED BARRIER
- 2 HOUR FIRE RATED BARRIER
- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL

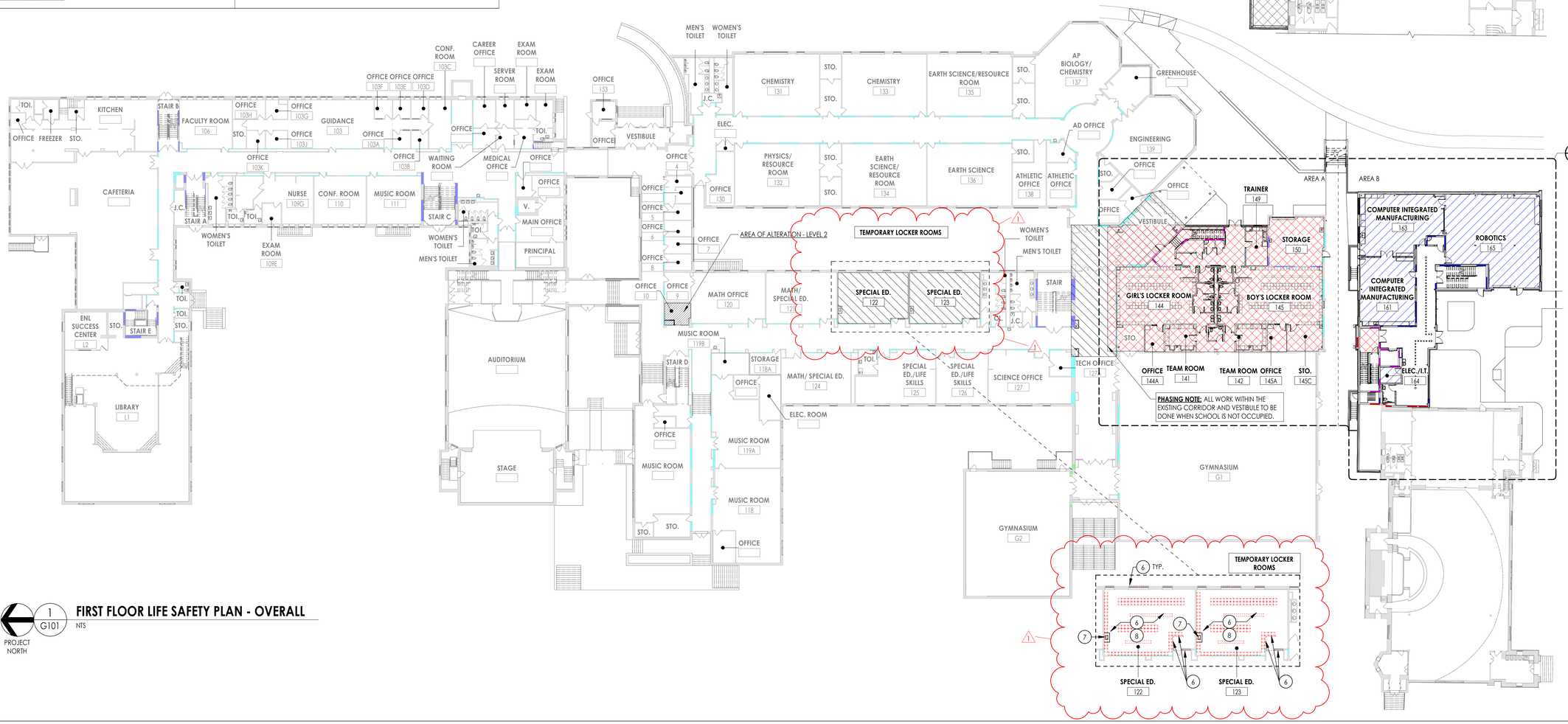
FE	EXISTING FIRE EXTINGUISHER	FE	FIRE EXTINGUISHER
FEB	EXISTING BRACKET MTD FIRE EXTINGUISHER	FEB	BRACKET MTD FIRE EXTINGUISHER
FEC	EXISTING FIRE EXTINGUISHER CABINET	FEC	FIRE EXTINGUISHER CABINET
FHC	EXISTING FIRE HOSE CABINET	FHC	FIRE HOSE CABINET
TES	TACTILE EXIT SIGNAGE	2WC	TWO-WAY COMMUNICATION
TRS	TACTILE RESTROOM SIGNAGE		SYMBOL OF ACCESSIBILITY
OCC	MAXIMUM POSTED OCCUPANCY	AR	AREA OF REFUGE



PROVIDE ELEVATOR SMOKE CURTAIN IN COMPLIANCE WITH UL 1784 AS REQUIRED BY NYSBC SECTION 716.2.2.1.1 AND SECTION 3002.1.1

2 / G101 — **FIRST FLOOR LIFE SAFETY PLAN - AREA A & B**
1/16" = 1'-0"

PROJECT NORTH



1 / G101 — **FIRST FLOOR LIFE SAFETY PLAN - OVERALL**
NTS

PROJECT NORTH

5/8/2026 12:40:32 PM PROJECT FILES ON ACC

CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LANDSCAPE ARCHITECT, TO ALTER ANY ITEM ON THIS PLAN BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
04/27/2026	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
JR	SW

Drawing Title
FIRST FLOOR LIFE SAFETY PLAN

Drawing Number
OHS
G101

CONSTRUCTION JOINTS

1. CONSTRUCTION JOINTS FOR SLABS ON METAL DECK SHALL BE LOCATED MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. JOINTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. AND STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.
2. HORIZONTAL JOINTING WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENT. VERTICAL JOINTS SHALL OCCUR AT CENTER OF SPANS AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
3. CONSTRUCTION JOINTS BETWEEN FOOTINGS AND PILASTERS AND SIMILAR JOINTS SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE IN AN APPROVED MANNER TO A FULL AMPLITUDE OF APPROXIMATELY 1/4", LEAVING THE CONTACT SURFACE FREE AND CLEAR OF LAITANCE. REINFORCED (DOWELLED) JOINTS SHALL HAVE BINDER ADDITIVE APPLIED PRIOR TO POUR.
4. PROVIDE CONTINUOUS WASTERSTOPS AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS AND/OR AS NOTED ON PLAN, SIZED AND CONFIGURED TO SUIT JOINTS. MINIMUM PROVIDED WATERSTOP SHALL BE 6" PVC RIBBED WITH CENTER BULB WATERSTOP BY "GREENSTREAK" OR APPROVED EQUAL. INSTALL TO FORM CONTINUOUS, WATERTIGHT DAM, WITH FIELD JOINTS FABRICATED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
5. CONSTRUCTION JOINTS FOR MILD-REINFORCED CONCRETE SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON REINFORCING STEEL SHOP DRAWINGS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.

PIPES/CONDUITS/SHOP DWGS

1. SLEEVES AND OPENINGS THROUGH CAST-IN-PLACE CONCRETE FRAMING ARE PROHIBITED EXCEPT WHERE THOSE SLEEVES AND OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED REBAR PLACEMENT DRAWINGS. ALL SLEEVES AND OPENINGS SHALL BE INCLUDED WITHIN REBAR PLACEMENT (SHOP DRAWINGS) AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.
2. CONTRACTOR SHALL SUBMIT A SINGLE DIMENSIONED AND COORDINATED DRAWING FOR EACH LEVEL SHOWING THE LOCATIONS THE FOLLOWING:
   - SLAB OPENINGS
   - SLEEVES (CAST IN PLACE & POST-INSTALLED FIELD CORED SLEEVES)
   - EMBEDDED PLATES AND ALL OTHER EMBEDS
   - SLAB EMBEDDED ELECTRICAL CABLE AND CONDUIT
3. SLEEVES, OPENINGS AND OTHER PENETRATIONS THROUGH CAST-IN-PLACE CONCRETE FRAMING SHALL BE CAST INTO THE CONCRETE; SAW CUTTING, CORING OR DRILLING OF SLEEVES OR OPENINGS THROUGH PREVIOUSLY CAST CONCRETE IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.
4. REINFORCING STEEL IN EXISTING CONCRETE SHALL BE LOCATED PRIOR TO INSTALLATION OF NEW OPENINGS OR CORING OF HOLES IN THE CONCRETE. REINFORCING STEEL MAY NOT BE CUT WITHOUT APPROVAL FROM THE ENGINEER.
5. THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, AT THE END OF THE JOB, ONE (1) ELECTRONIC VERSION OF THE FINAL FIELD COPIES OF ALL STEEL REINFORCING SHOP DRAWINGS.
6. PIPES OR CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 THE SLAB THICKNESS AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN SLABS WITHIN 12 INCHES OF COLUMN FACE OR FACE OF BEARING WALL. NO CONDUITS MAY BE PLACED IN EXTERIOR SLABS OR SLABS SUBJECTED TO FLUIDS.
7. CONDUIT PLACED IN CONCRETE SLABS MUST BE PLACED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:
   - CONTRACTOR SHALL NOT INSTALL CONDUIT THAT IS NOT SHOWN ON MECHANICAL DRAWINGS.
   - DO NO CROSS MORE THAN ONE LAYER OF CONDUIT OVER ANOTHER IN ANY GIVEN AREA.
   - PLACE CENTER OF CONDUIT OR CONDUIT GROUP AT THE MID-HEIGHT OF SLAB.
   - CONDUIT OR CONDUIT GROUP SHALL NOT EXTEND OUTSIDE THE MIDDLE 1/3" OF SLAB.
   - MAINTAIN A MINIMUM CLEAR SPACING BETWEEN THE CONDUIT OF 3" DIAMETER. THIS REQUIREMENT APPLIES EXCEPT WHERE CONDUITS ACCUMULATE AT "TURN DOWNS". THE CONDITIONS AT "TURN DOWN" LOCATIONS MUST BE EVALUATED AT EACH LOCATION BY THE ENGINEER OF RECORD. "TURN DOWNS" CANNOT OCCUR AT COLUMN LOCATIONS.
   - DO NOT PLACE ANY CONDUIT IN THE SLAB WITHIN 36" FROM THE EDGE OF ANY COLUMN OR WALL ABOVE OR BELOW THE SLAB.
   - SLAB REINFORCEMENT MUST NOT BE MOVED, CUT OR BENT TO ACCOMMODATE CONDUIT PLACEMENT.
   - CONDUIT SHALL NOT TO RUN THROUGH OR WITHIN COLUMN OR WALL.
   - ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN SLAB.
   - ANY DEVIATIONS MUST BE SUBMITTED ON A SHOP DRAWING FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO CONDUIT PLACEMENT.

REBAR/SPLICING

1. PROVIDE TWO (2) #3 x 4'-0" AT ALL RE-ENTRANT CORNERS PLACED ON THE DIAGONAL W/ 1-1/2" CLEARANCE FROM THE CORNER AND TOP OF SLAB. REFER TO DETAIL.
2. SPLICES IN REINFORCING STEEL SHALL BE MADE ONLY AT THOSE LOCATIONS WHERE SPLICES ARE SHOWN ON THE STRUCTURAL DRAWINGS AND AT THOSE LOCATIONS WHERE SPLICES HAVE BEEN DETAILED ON THE REINFORCING STEEL SHOP DRAWINGS THAT HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. ALL SPLICES SHALL BE CLASS "B: TENSION LAP SPLICES (SEE TENSION DEVELOPMENT LENGTH TABLE IN TYPICAL CONCRETE DETAILS), EXCEPT WHERE INDICATED OTHERWISE ON THE STRUCTURAL DRAWINGS. MECHANICAL SPLICE COUPLERS CAPABLE OF DEVELOPING 125% OF THE YIELD STRENGTH OF THE REINFORCING STEEL MAY BE USED INSTEAD OF TENSION LAP SPLICES AT THE CONTRACTOR'S OPTION AT ANY LOCATION. COMPRESSION LAP SPLICES (SEE COMPRESSION DEVELOPMENT AND LAP SPLICE LENGTH TABLE IN TYPICAL CONCRETE DETAILS) MAY BE USED ONLY AT THOSE LOCATIONS WHERE SUCH SPLICES ARE SPECIFICALLY INDICATED. STAGGER SPLICES WHERE REQUIRED TO PROVIDE 1-1/2" CLEAR SPACING BETWEEN REINFORCING STEEL AT SPLICE LOCATIONS.
3. WHEREVER POSSIBLE, SPLICES OF MILD STEEL SHALL BE MADE IN A COMPRESSION AREA. NO MORE THAN 50% OF BARS (ALTERNATED) SHALL BE SPLICED IN A TENSION AREA.
4. VERTICAL DOWELS PROJECTING OUT OF FOUNDATIONS INTO WALLS SHALL BE THE SAME SIZE AND SPACING AS THE VERTICAL REINFORCING STEEL IN THE WALL, U.O.N. AND SHALL BE INSTALLED FOR THE FULL DEPTH OF THE FOUNDATION AND TERMINATE WITH STANDARD 90 DEGREE HOOKS, U.O.N.; VERTICAL DOWELS PROJECTING OUT OF THE TOPS OF WALLS INTO SLABS SHALL BE THE SAME SIZE AND SPACING AS THE VERTICAL STEEL IN THE WALLS, U.O.N. AND SHALL EXTEND TO THE TOP OF THE SLAB AND TERMINATE WITH STANDARD 90 DEGREE HOOKS, U.O.N.; ALL DOWELS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES TO THE VERTICAL REINFORCING STEEL IN THE WALLS.
5. ALL HOOKS IN REINFORCING STEEL SHALL BE STANDARD 90 DEGREE HOOKS, U.O.N.
6. ALL HOOKS ON #5 AND SMALLER TOP REINFORCING STEEL IN SLABS SHALL BE STANDARD 90 DEGREE STIRRUP HOOKS; A CONTINUOUS PERPENDICULAR TOP BAR (#4 MINIMUM) SHALL BE INSTALLED INSIDE THE CORNERS OF ALL HOOKED BARS.
7. VERTICAL REINFORCING STEEL IN CONCRETE AND MASONRY WALLS WITH ONE LAYER OF REINFORCING BARS SHALL BE INSTALLED IN THE CENTER OF THE WALL, U.O.N.

CAST-IN-PLACE CONCRETE MISC. DIRECTIONS

1. MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301.
2. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, AND DETAILS OF ALL ARCHITECTURAL FEATURES IN THE CONCRETE; REFER TO THE ARCHITECTURAL DRAWINGS AND PROJECT SPECIFICATIONS FOR REQUIREMENTS FOR ALL CONCRETE FINISHES; REFER TO THE ARCHITECTURAL DRAWINGS FOR THE TOP OF WALL ELEVATIONS FOR WALLS WHERE TOP OF WALL ELEVATIONS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS.
3. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN, ENGINEERING, AND CONSTRUCTION OF FORMWORK CAPABLE OF SUPPORTING ALL APPLIED LOADS UNTIL THE CONCRETE IS ADEQUATELY CURED, WITHIN ALLOWABLE TOLERANCES AND DEFLECTION LIMITS.
4. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS, STIRRUPS OR CHAIRS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT AND PROVIDE MINIMUM REINFORCEMENT COVER FOR ALL BARS.
5. BONDING AGENT SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE.
6. ALL BEAMS, SPANDRELS AND SLABS ARE TO BE PLACED MONOLITHICALLY UNLESS OTHERWISE SHOWN.
7. WHERE MASONRY ABUTS CONCRETE WALLS, PROVIDE DOVETAIL SLOTS AND MASONRY ANCHORS.
8. COORD W/ARCH DWGS. THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE, TO THE ELEVATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO FORMWORK, METAL DECK, AND FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION. THE CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 5/8" AVERAGE THICKNESS FOR ADDITIONAL CONCRETE DURING PLACEMENT FOR ALL SLABS SUPPORTED AND FORMED ON STEEL DECK OVER THE ENTIRE FLOOR AREA. THE CONTRACTOR SHALL PROVIDE THE MEANS BY WHICH THE MAXIMUM AND MINIMUM CONCRETE SLAB THICKNESS CAN BE MONITORED AND VERIFIED DURING AND AFTER THE PLACING AND FINISHING OPERATIONS.
9. REPAIR CONCRETE EXHIBITING VOIDS DUE TO SNAP TIES, "HONEYCOMB", ROCK POCKETS, AND RUNS, SPALLS OR OTHERWISE DAMAGED SURFACES WITH DRY PACK OR CEMENT GROUT, AND FINISH FLUSH WITH ADJOINING SURFACES. AT THE DISCRETION OF THE STRUCTURAL ENGINEER OR AS A QUALIFIED BY LAB TESTING, EXCESSIVE HONEYCOMBS OR EXPOSED REINFORCEMENT THAT JEOPARDIZES THE DESIGN, SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
10. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.
11. CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT FINISHED SURFACES FROM STAINS OR ABRASIONS. NO FIRE SHALL BE ALLOWED IN DIRECT CONTACT WITH CONCRETE. PROVIDE ADEQUATE PROTECTION AGAINST INJURIOUS ACTION BY SUN OR WIND. FRESH CONCRETE SHALL BE THOROUGHLY PROTECTED FROM HEAVY RAIN, FLOWING WATER, AND MECHANICAL INJURY.
12. TOP OF FOUNDATIONS SHALL BE TROWEL FINISHED AND SMOOTH.
13. PROVIDE 15 MIL. VAPOR BARRIER (SLAB) & WATERPROOFING MEMBRANE (ELEVATOR PIT) IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS FOR WATERPROOFING MEMBRANE.
14. WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE CONCRETE SUPPLIER AND PUMPER TO ENSURE PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS, AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR PROPER USE OF RETARDANTS AND OTHER ADDITIVES. USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
15. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH ACI RECOMMENDATIONS 302-89 AND 304-89 FOR GARAGES.
16. CONTRACTOR SHALL PROTECT CONCRETE THAT IS NOT AIR ENTRAINED BUT WHICH IS EXPOSED TO WEATHER DURING CONSTRUCTION FROM FREEZE THAW DAMAGE UNTIL SUCH TIME AS THE CONCRETE IS NO LONGER EXPOSED TO FREEZE/THAW CONDITIONS.
17. FOUNDATION SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED MUST BE FREE FROM STANDING WATER, MUD AND DEBRIS. SURFACES SHALL BE CLEAN AND FREE FROM OIL, OBJECTIONABLE COATINGS, AND LOOSE OR UNSOUND MATERIAL.
18. PROTECT CONCRETE FROM SUN AND RAIN. DO NOT PERMIT CONCRETE TO BECOME DRY DURING CURING PERIOD. CONCRETE SHALL NOT BE SUBJECTED TO ANY LOADS UNTIL CONCRETE IS COMPLETELY CURED, AND UNTIL CONCRETE HAS ATTAINED IT'S 28 DAY STRENGTH AND 14 DAYS MINIMUM.
19. UPON COMPLETION OF FINISHING OPERATION, THE SURFACE OF SLABS SHALL BE SEALED AGAINST MOISTURE LOSS FOR 7 DAYS BY THE APPLICATION OF A CURING MEMBRANE OR BLANKET.
20. CONCRETE IN FORMS SHALL BE KEPT MOIST UNTIL REMOVAL. IMMEDIATELY UPON REMOVAL OF FORMS, AN APPROVED SPRAYED-ON CURING COMPOUND SHALL BE APPLIED TO THE CONCRETE SURFACES IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CURING SHALL BE MAINTAINED FOR 7 DAYS.
21. PROVIDE 7 DAY CURING IMMEDIATELY AFTER FINISHING USING ONE OF THE FOLLOWING METHODS:
   - A. CONTINUOUSLY WATERED BURLAP
   - B. WATERPROOF MEMBRANES
   - C. SPRAYED-ON LIQUID MEMBRANE

   REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR REQUIREMENTS. PROTECT THE CONCRETE SURFACE BETWEEN FINISHING OPERATIONS ON HOT, DRY DAYS OR ANY TIME PLASTIC SHRINKAGE CRACKS DEVELOP USING WET BURLAP, PLASTIC MEMBRANES OR FOGGING. PROTECT CONCRETE DECK AT ALL TIMES FROM RAIN, HAIL, OR OTHER INJURIOUS EFFECT.
22. PROVIDE POUR STOP MATERIAL WHERE NOT INDICATED ON PLAN AS REQUIRED TO COMPLETE JOB.
23. HOT WEATHER CONCRETING (ABOVE 90°F)
    WHEN PLACING CONCRETE IN HOT WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 305R-91 SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED CONSTRUCTION SPECIFICATIONS.
24. COLD WEATHER CONCRETING (BELOW 40°F)
    WHEN PLACING CONCRETE IN COLD WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 306R-88 SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS.

CAST-IN-PLACE ANCHORS

1. ALL ANCHORS SHALL ASSUME THE CRACKED CONCRETE DESIGN CONDITION, U.O.N.
2. THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON SITE INSTALLATION TRAINING FOR EACH SPECIFIED ANCHOR TYPE. THE STRUCTURAL ENGINEER OF RECORD SHALL RECEIVE DOCUMENTATION VERIFYING THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE BEEN TRAINED PRIOR TO COMMENCEMENT OF INSTALLING ANCHORS.
3. SURVEY ANCHOR BOLTS FOR PLACEMENT AND ALIGNMENT PRIOR TO CASTING CONCRETE.
4. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
5. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE ENGINEER OF RECORD THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.

CONCRETE MASONRY

1. ALL MASONRY DESIGN AND PLACEMENT SHALL COMPLY WITH THE LATEST EDITION OF THE ACI BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-08, ACI 530.1-08) AND ASCE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (ASCE 5-08, ASCE 6-08).
2. ALL MASONRY WALLS SHALL BE REINFORCED PER SPECIFICATION REQUIREMENTS AND AS SHOWN ON STRUCTURAL AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH ALL OTHER TRADES.
3. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90 WITH A MINIMUM COMPRESSIVE STRENGTH (f'm) OF 2,150 PSI AT 28 DAYS (UNLESS NOTED OTHERWISE).
4. ALL MASONRY REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:

REINFORCEMENT STEEL:	ASTM A 615 - GRADE 60
JOINT REINFORCEMENT:	ASTM A 951
LADDER CONFIGURATION (SIDE / CROSS RODS):	W 1.7 (9 GAUGE) 0.148 IN DIAMETER CROSS RODS SPACED AT 16" ON CENTER
CORROSION PROTECTION (INTERIOR):	MILL GALVANIZED, ASTM A641
(EXTERIOR OR HIGH HUMIDITY CONDITIONS):	HOT IPPED GALVANIZED AFTER FABRICATION. ZINC COATED ASTM A153 (1.50 OZ PER SF)

5. ALL MASONRY ANCHORS SHALL CONFORM TO THE FOLLOWING:

PLATE AND BENT BAR ANCHORS	ASTM A 36
SHEET METAL ANCHORS AND TIES	ASTM A 366
WIRE TIES AND ANCHORS	ASTM A 82
ANCHOR BOLTS	ASTM F1554 36KSI
CORROSION PROTECTION:	
(INTERIOR):	
SHEET METAL ANCHORS OR TIES	ASTM A 653 CLASS G60
(EXTERIOR OR HIGH HUMIDITY CONDITIONS):	
WIRE TIES OR ANCHORS	ASTM A 153
SHEET METAL ANCHORS OR TIES	ASTM A 153 CLASS B
STAINLESS STEEL:	
PLATE AND BENT BAR ANCHORS	ASTM A 666
SHEET METAL ANCHORS AND TIES	ASTM A 167
WIRE TIES AND ANCHORS	ASTM A 580

6. FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT CONFORMING TO ASTM C476 AND SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI.
7. MORTAR SHALL BE MADE WITH PORTLAND CEMENT / LIME AND SHALL CONFORM TO ASTM C-270, TYPE S MORTAR BED PROVIDED SHALL BE "COMPLETE".
8. UNLESS OTHERWISE INDICATED, ALL UNITS SHALL BE LAID IN RUNNING BOND. BOND CORNERS AND INTERSECTIONS OF LOAD-BEARING WALLS.
9. PROVIDE VERTICAL REINFORCING AS INDICATED. PROVIDE BARS AT ALL WALL CORNERS, INTERSECTIONS AND OPENING EDGES. MASONRY WALLS SHALL BE CONSTRUCTED USING "LOW LIFT" TECHNIQUES.
10. PROVIDE DOWELS FROM ALL FOUNDATIONS AND SLABS TO MATCH VERTICAL REINFORCING SIZE AND SPACING. THESE DOWELS SHALL HAVE A MINIMUM LAP LENGTH EQUAL TO 48 BAR DIAMETERS AND BE SET BEFORE CONCRETE IS PLACED TO PREVENT PUSHING THEM INTO THE CONCRETE AFTER IT IS PLACED. PROVIDE MATCHING SIZED ANCHOR RODS OR DOWELS UP INTO CMU WHERE MASONRY WALLS REST ON STRUCTURAL STEEL AND PROVIDE SOFT JOINTS PLUS MATCHING ANCHOR RODS OR DOWELS IN SLEEVES TO ALLOW FOR VERTICAL MOVEMENT WHERE MASONRY ABUTS STRUCTURAL STEEL FROM BELOW.
11. PROVIDE BOND BEAM LINTELS AND BRICK SHELF ANGLES ABOVE ALL WALL OPENINGS PER DETAILS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOOR AND WINDOW OPENING.
12. PROVIDE CMU CONTROL JOINTS AS INDICATED ON ARCHITECTURAL DRAWINGS WITH ADDITIONAL JOINTS SUCH THAT THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING OF ONE THIRD THE SMALLER DIMENSION OF THE WALL. WHERE BEAMS OR LINTELS BEAR AT CMU CONTROL JOINTS, OFFSET AND LAP THE VERTICAL REINFORCING AS REQUIRED.
13. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION, SEE MISCELLANEOUS NOTES.
14. INTERIOR NON-LOAD BEARING MASONRY WALLS SHALL HAVE THE FOLLOWING MINIMUM REINFORCEMENT:
    HORIZONTAL - W1.7 JOINT REINFORCEMENT @ 16" OC
    VERTICAL - ONE (1) NO. 4 BAR @ 10' OC (IN ADDITION TO #9 IN THIS SECTION)

HELICAL PILE:

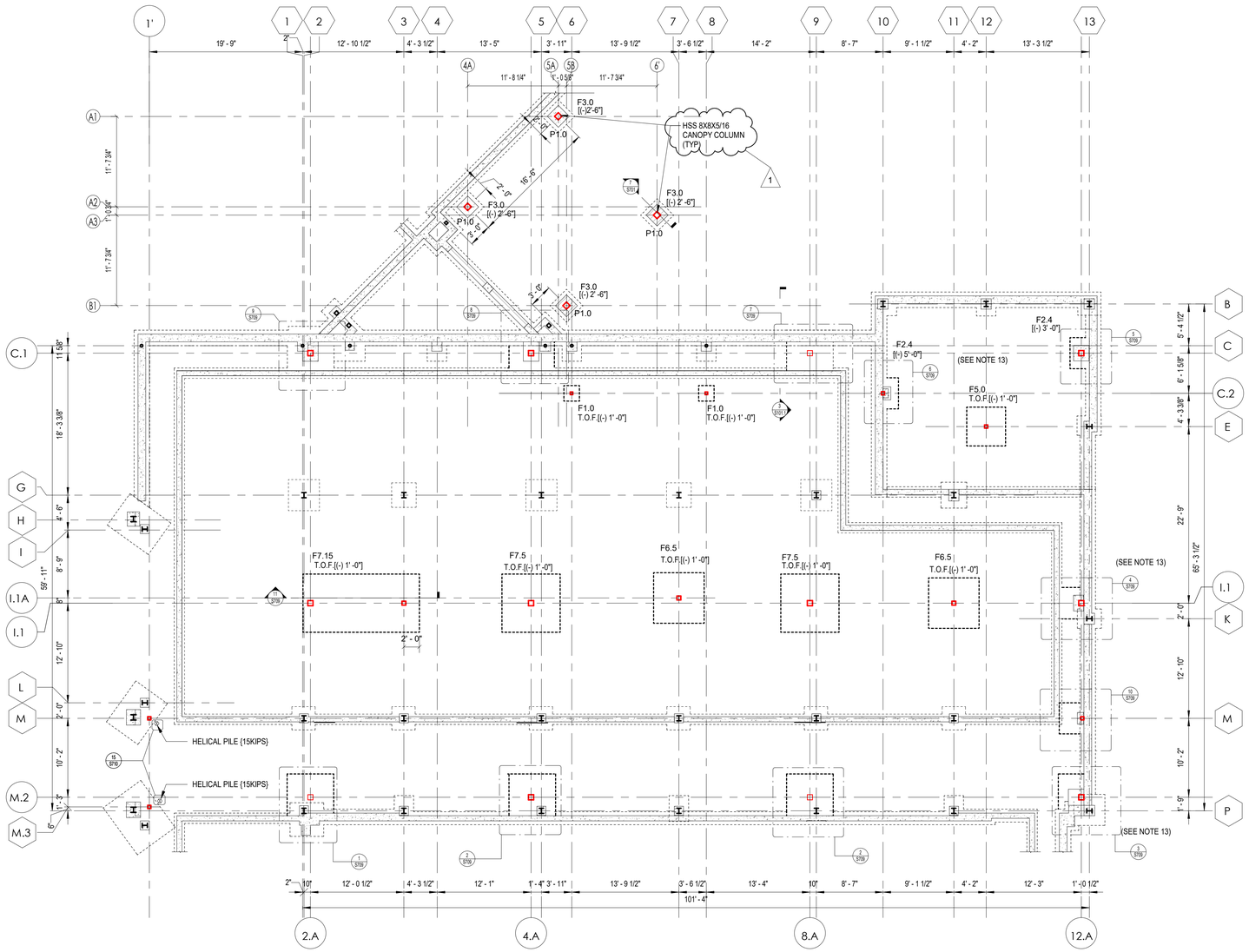
1. HELICAL PIERS SHALL BE MANUFACTURED BY THE A.B. CHANCE CO., CENTRALIA, MO.
2. PIERS SHALL BE INSTALLED BY AN AUTHORIZED A.B. CHANCE INSTALLING CONTRACTOR WHO HAS SATISFIED THE CERTIFICATION REQUIREMENTS RELATING TO THE TECHNICAL ASPECTS OF THE PRODUCT AND THE ASCRIBED INSTALLATION TECHNIQUES. PROOF OF CURRENT CERTIFICATION BY THE A.B. CHANCE CO. MUST BE PROVIDED.
3. ALL WORK AS DESCRIBED HEREIN SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES IN EFFECT AT THE TIME OF INSTALLATION.
4. THE HELICAL LEAD SECTIONS AND EXTENSION SECTIONS SHALL BE SOLID STEEL, ROUND CORNERED SQUARE SHAFT, OR ROUND STEEL PIPE SHAFT, OR COMPOSITE STEEL AND GROUT SHAFT CONFIGURED WITH ONE OR MORE HELICAL BEARING PLATES WELDED TO THE SHAFT.
5. ALL PIERS MUST BE CORROSION PROTECTED BY HOT DIP GALVANIZATION.
6. INSTALLATION UNITS SHALL CONSIST OF A ROTARY TYPE TORQUE MOTOR WITH FORWARD AND REVERSE CAPABILITIES. THESE UNITS ARE TYPICALLY POWERED.
7. INSTALLATION UNITS SHALL BE CAPABLE OF DEVELOPING THE MINIMUM TORQUE/LOAD AS REQ'D.
8. INSTALLATION UNITS SHALL BE CAPABLE OF POSITIONING THE HELICAL PIER AT THE PROPER INSTALLATION ANGLE. THIS ANGLE MAY VARY BETWEEN VERTICAL AND 5 DEGREES DEPENDING UPON APPLICATION AND TYPE OF LOAD TRANSFER DEVICE SPECIFIED OR REQUIRED.
9. INSTALLATION TORQUE SHALL BE MONITORED THROUGHOUT THE INSTALLATION PROCESS.
10. HELICAL PIERS SHALL BE INSTALLED TO THE MINIMUM TORQUE VALUE REQUIRED TO PROVIDE THE LOAD CAPACITIES SHOWN ON THE PLANS.
11. THE APPROPRIATE STEEL BRACKET LOAD TRANSFER DEVICE SHALL BE USED.
12. APPROPRIATE HELICAL PIER SELECTION WILL CONSIDER DESIGN LOAD PLUS SAFETY FACTOR SOIL PARAMETERS AND THE INSTALLATION TORQUE VS. CAPACITY EQUATION AS PER THE MANUFACTURERS RECOMMENDATIONS.

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2. RETAINING WALL DESIGN STANDARDS
   - A. THE WALL DESIGN ENGINEER AND/OR GEOTECHNICAL ENGINEER SHALL CONSIDER THE INTERNAL STABILITY, LOCAL STABILITY, EXTERNAL STABILITY, AND BEARING CAPACITY OF THE SOIL MASS ABOVE, BEHIND AND BELOW THE WALL STRUCTURE. PROJECT GEOTECH ENGINEER SHALL VERIFY GLOBAL STABILITY.
   - B. THE MINIMUM FACTORS OF SAFETY SHALL BE (OR GREATER IF SPECIFIED BY THE ENGINEER):
     EXTERNAL STABILITY: BASE SLIDING = 1.5; OVERTURNING = 1.5; BEARING CAPACITY = 2.0
     INTERFACE SHEAR = 1.5
   - C. THE SITE GRADES AND INFORMATION SHALL DETERMINE THE LENGTH, HEIGHT, AND OVERALL ELEVATIONS FOR THE MAGNUMSTONE®/ RETAINING WALL REQUIREMENTS.
   - D. THE DESIGN HEIGHT (H) SHALL BE MEASURED FROM THE TOP OF THE BASE LEVELING PAD TO THE TOP OF THE WALL CAP UNITS.
   - E. THE ABOVE AND BELOW SLOPES OF THE WALL DETAILS SHALL BE DEPICTED ON THE SITE CONSTRUCTION DRAWINGS.
   - F. THE MINIMUM EMBEDMENT DEPTH OF THE WALL SHALL BE NO LESS THAN 1/2 UNIT (12"; 0.3 M) OR AS SPECIFIED BY THE SITE CONSTRUCTION DRAWINGS.

POST-INSTALLED ANCHORS

1. ALL POST INSTALLED ANCHORS SHALL BE HILTI UNLESS OTHERWISE NOTED ON PLAN.
2. ALL ALTERNATE FASTENER TYPE/MANUFACTURER SHALL BE SUBMITTED TO EOR FOR REVIEW/APPROVAL. SUBMITTAL SHALL INCLUDE DESIGN CALCULATIONS SIGNED & SEALED BY LICENSED PROFESSIONAL WITHIN PROJECT JURISDICTION.
3. POST-INSTALLED CONCRETE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
4. POST INSTALLED ANCHORS SHALL BE INSTALLED IN A MANNER THAT DOES NOT DAMAGE REINFORCING STEEL WITH CAST-IN-PLACE CONCRETE. CONTRACTOR SHALL SCAN ALL AREAS WITH REINFORCEMENT PRIOR TO INSTALLATION TO MITIGATE DAMAGE OR REINFORCEMENT.
5. NOTIFY EOR IF AS-BUILT LOCATION OF ANCHORAGE IS LARGER THAN 1/2" FROM LOCATION AS DESIGNATED WITHIN CONTRACT DOCUMENTS.
6. MECHANICAL ANCHORS (WEDGE/UNDERCUT) SHALL BE ANY OF THE FOLLOWING (REF. TO SCHEDULE).
7. CHEMICAL ANCHORS (EPOXY SET) SHALL BE ANY OF THE FOLLOWING (REF. TO SCHEDULE).
8. UNLESS OTHERWISE NOTED, ALL DRILL & EPOXY REBAR SHALL USE HILTI HIT-HY-200 ADHESIVE, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM EMBEDMENT LENGTHS SHALL BE 8" (UON).
9. ALL ANCHORS SHALL ASSUME CRACKED CONCRETE DESIGN CONDITION.
10. CONTRACTOR SHALL ARRANGE FOR HILTI REPRESENTATIVE TO PROVIDE ON SITE INSTALLATION TRAINING FOR EACH SPECIFIED ANCHOR TYPE. THE STRUCTURAL ENGINEERING OF RECORD SHALL RECEIVE DOCUMENTATION VERIFYING ALL OF THE CONTRACTOR'S PERSONNEL INSTALLING ANCHORS HAVE BEEN TRAINED PRIOR TO COMMENCEMENT OF ANCHOR INSTALLATION.
11. CONCRETE SHALL HAVE ACHIEVED DESIGN STRENGTH PRIOR TO INSTALLING POST-INSTALLED ANCHORS. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE THAT HAS CURED A MINIMUM OF 21 DAYS.
12. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE/MASONRY. INSTALL ANCHOR IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON DRAWINGS.
13. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN A MANNER THAT DOES NOT DAMAGE REINFORCING STEEL. REINFORCING STEEL SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. WHERE THE ANCHOR LAYOUT CANNOT AVOID INTERFERENCE WITH REINFORCEMENT STEEL, THE CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER TO OBTAIN AN ALTERNATIVE ANCHOR LAYOUT.
14. ADHESIVE ANCHOR SHALL BE INSTALLED WITH A 6" EMBEDMENT DEPTH UNLESS OTHERWISE NOTED. ANCHORS OTHER THAN ADHESIVE ANCHORS SHALL BE INSTALLED WITH EMBEDMENT DEPTH EQUAL TO MAXIMUM EMBEDMENT DEPTH NOTED IN THE MANUFACTURER'S PRODUCT TECHNICAL GUIDE UNLESS OTHERWISE NOTED ON PLAN. WHERE EMBEDMENT DEPTH IS SPECIFIED, THAT DEPTH IS REQUIRED FINAL EFFECTIVE MINIMUM EMBEDMENT DEPTH.
15. POST-INSTALLED ANCHORS SHALL BE INSPECTED PERIODICALLY DURING INSTALLATION.
16. OVERHEAD AND/OR CONSTANT TENSION ADHESIVE ANCHOR INSTALLATIONS NOT SHOWN ON THE DRAWINGS SHALL NOT BE PERMITTED UNLESS EACH CONDITION IS REVIEWED AND APPROVED IN WRITING BY THE FOR.
17. INSPECTIONS SHALL BE PERFORMED BY SPECIAL INSPECTOR WHO HAS BEEN APPROVED BY LOCAL BUILDING OFFICIAL. THE INSPECTOR SHALL VERIFY THAT ALL ANCHORS WERE INSTALLED IN ACCORDANCE WITH REQUIREMENTS O



LEGEND	
——	EXISTING COLUMN
——	NEW COLUMNS

NOTES:

1. COORDINATE ALL DIMENSIONS, ELEVATIONS, DOOR AND WINDOW LOCATIONS W/ ARCHITECTURAL DRAWINGS AND/OR EXISTING CONDITIONS.
2. COORDINATE ALL WALL PENETRATIONS, UNDERSLAB UTILITIES AND MECHANICAL CHASES W/ APPLICABLE TRADES.
3. [xx.xx'] - INDICATES TOP OF FOOTING / PIER ELEVATION. TYPICAL TOP OF FOOTING EL = [(-) 4' - 6"] (UNO). TYPICAL TOP OF PIER ELEVATION =[(-)0'- 8"] (UON).
4. F# - INDICATES FOOTING DESIGNATIONS (SEE FOOTING SCHEDULE).
5. P# - INDICATES PIER DESIGNATION (SEE PIER SCHEDULE).
6. REFER TO COLUMN SCHEDULE FOR COLUMN /BASE PLATES DETAILS.
7. ALL FLOOR SLABS SHALL BEAR ON 6" MIN. LAYER OF 3/4" CLEAN CRUSHED STONE.
8. SPREAD FOOTINGS "F" SHALL BE CENTERED ON THE POST/COLUMN (UNO).
9. ALL WALL FOOTINGS SHALL BE CENTERED ON WALL ABOVE (UNO).
10. CONTRACTOR SHALL COORDINATE FINISHED GRADING WITH FINAL SITE PLAN. ANY PROPOSED FOOTINGS ELEVATIONS THAT DO NOT MEET MINIMUM FROST DEPTH OF 3.5 FT WHERE REQUIRED SHALL BE DROPPED BASED ON FINISHED GRADE.
11. GC SHALL BE RESPONSIBLE TO PROVIDE ALL TEMPORARY SUPPORT OF ECAVATION TO COMPELETE AS NEEDED TO COMPLETE THE FOUNDATION EXCAVATION AND CONSTRUCTION. IF REQUIRED, THE GC SHALL SUBMIT A SUPPORT OF EXCAVATION PLAN/ DETAILS/ CALCULATIONS, SIGNED AND SEALED BY ANY STATE PE.
12. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION INSULATION AND WATER PROOFING REQUIREMENTS.
13. DEMO TOP OF EXISTING FOUNDATION WALL AS NEEDED TO INSTALL BASEPLATE

FOOTING SCHEDULE LOOKER ROOM

Mark	DIMENSIONS THICK.	WIDTH	LENGTH	REINFORCEMENT LONG DIRECTION	TRANSVERSE DIRECTION	NOTES
F1.0	1' - 0"	2' - 0"	2' - 0"	(3) # 4	(3) # 4	
F2.4	1' - 0"	2' - 0"	4' - 0"	(2) # 4	(3) # 4	
F3.0	1' - 0"	3' - 0"	3' - 0"	(4) # 4	(4) # 4	
F4.0	1' - 2"	4' - 0"	4' - 0"	(5) # 5	(5) # 5	
F5.0	1' - 2"	5' - 0"	5' - 0"	(6) # 5	(6) # 5	
F6.5	1' - 2"	6' - 6"	6' - 6"	(7) # 6	(7) # 6	
F7.5	1' - 2"	7' - 6"	7' - 6"	(9) # 6	(9) # 6	
F7.15	1' - 6"	7' - 6"	15' - 0"	#6@9"OC	(SEE NOTE 9)	TOP & BOT BARS
FPT	1' - 6"	SEE S709	SEE S709	#5@6"OC	#5@6"OC	SEE NOTE 10

NOTES:

1. FS INDICATES FOOTING STEP.
2. 3" COVER UNLESS NOTED OTHERWISE. (U.N.O.)
3. USE ASTM A615, 60 ksi REBAR, U.N.O.
4. PROVIDE LISTED SIZE AND QUANTITY OF REBAR IN EACH DIRECTION AS SHOWN.
5. CONTINUE REINFORCEMENT OF ADJACENT STRIP FOOTINGS THROUGH OR INTO COLUMN FOOTINGS U.N.O. USE 40 BAR DIA MIN LAP SPLICE LENGTH.
6. POUR ADJACENT STRIP FOOTINGS MONOLITHICALLY WITH COLUMN FOOTINGS U.N.O.
7. SEE GENERAL CONCRETE NOTES FOR FOOTING CONCRETE REQUIREMENTS ON DRAWING S-001.
8. SEE GENERAL EARTHWORK NOTES FOR SUBGRADE, SUBBASE, AND OTHER REQUIREMENTS ON DRAWING S-001.
9. REFER TO S709 FOR TRANSVERSE REINFORCEMENT DETAILS / LAYOUT.
10. FOOTING 'FTP' REINFORCEMENT APPLIES TO ALL FOOTINGS LOCATED IN THE PIPE TRENCH - REFER TO S709 FOR ADDITIONAL INFORMATION.

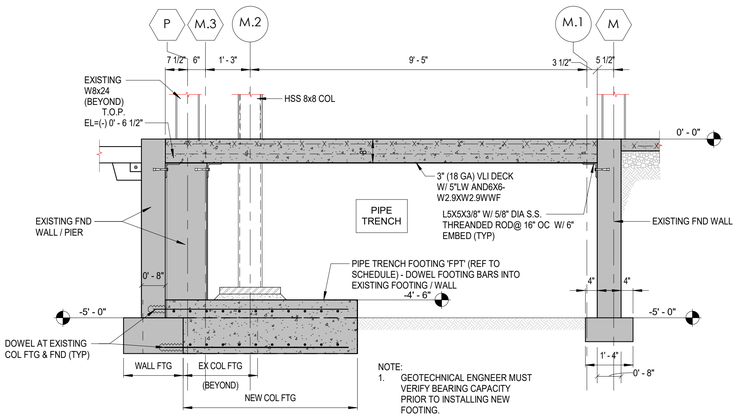
PIER SCHEDULE

Mark	DIMENSION	VERTICAL REINF.	TIES	NOTES
P1.0	24"X24"	(8)#8	#4@10"OC, (4) 3" OC AT TOP	
	1	1		

FOUNDATION PLAN - AREA A0

1/8" = 1'-0"

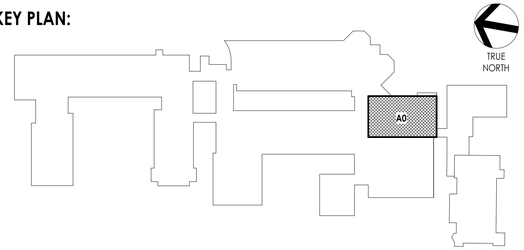
TRUE NORTH / PROJECT NORTH — 1 / S100.1



NOTE:
1. GEOTECHNICAL ENGINEER MUST VERIFY BEARING CAPACITY PRIOR TO INSTALLING NEW FOOTING.

2 TYP. SECTION@PIPE TRENCH
1/2" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC
36 Grist Mill Lane
Pleasant Valley, NY 12569
www.connollyengineering.com

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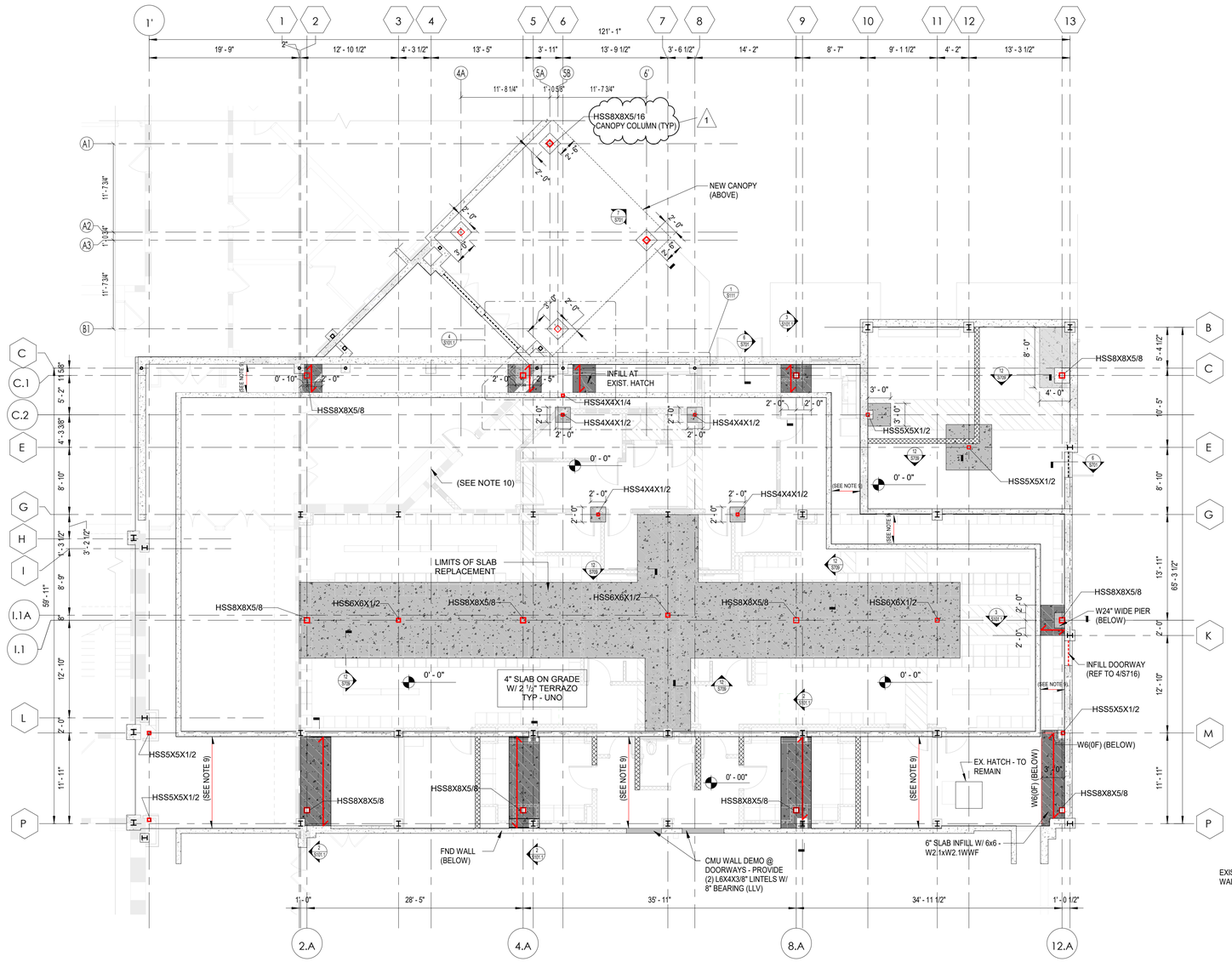
SHEET INFORMATION

Issued	Scale
04/27/2026	As indicated
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
MH	NH

Drawing Title
FOUNDATION PLAN - AREA A0

Drawing Number
OHS
S100.1

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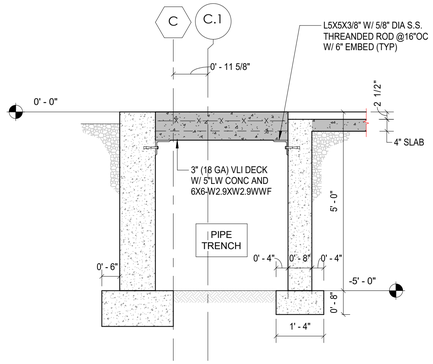
1 S101.1 **FIRST FLOOR FRAMING PLAN - AREA A1**
1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

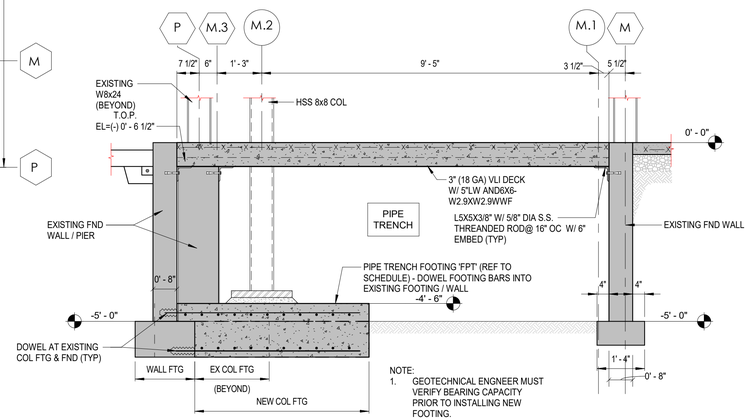
LEGEND	
——	EXISTING COLUMN
——	NEW COLUMNS
W6(0F) BELOW	REUSE W6 STEEL BEAMS FROM ROOF OVER-FRAMING.
7" 12"	NEW 6-1/2" CONCRETE SLAB (UON)
	3" (18 GA) VLI DECK W/5"LW AND6X6-W2.9XW2.9WWF

NOTES:

1. COORDINATE T / SLAB ELEVATIONS W/ ARCH. PRIOR TO CONSTRUCTION.
2. COORDINATE ALL DIMENSIONS, ELEVATIONS, DOOR AND WINDOW LOCATIONS W/ ARCH. DRAWINGS AND / OR EXISTING CONDITIONS.
3. COORDINATE ALL WALL PENETRATIONS, UNDERSLAB UTILITIES AND MECHANICAL CHASES W/ APPLICABLE TRADES.
4. TOP OF EXISTING SLABS ARE (-) 0' - 2 ½" DOWN TO BELOW TERRAZO FLOORING
5. - INDICATES TOP OF SLAB ELEVATION.
6. X.XX' X.XX" - INDICATES CHANGE IN T.O. SLAB ELEVATION.
7. ALL FLOOR SLABS SHALL BEAR ON 6" MIN. LAYER OF ¾" CLEAN CRUSHED STONE.
8. EPOXY COATED WELDED WIRE FABRIC SHALL BE USED IN EXTERIOR SLABS ON GRADE.
9. EXISTING 5 ½" REINFORCED CONCRETE SLAB WITH 2 1/2" TERRAZO FLOORING AND FIVE FT DEEP PIPE TRENCH BELOW.
10. FILL TOP COURSES OF CMU SOLID AND DRY - PACK OR SHIM TIGHT BELOW STEEL GIRDER.
11. REFER TO S700 FOR GYM LOCKER PAD DETAILS.
12. REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR, NON-LOAD BEARING WALL LAYOUTS NOT SHOWN HERE.

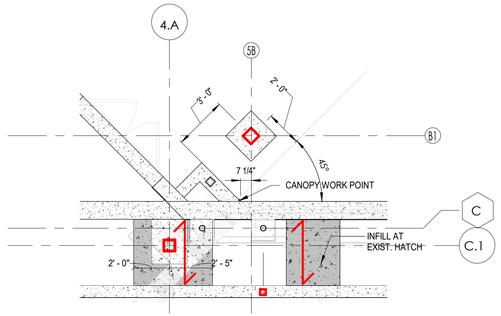


3 SECTION
1/2" = 1'-0"



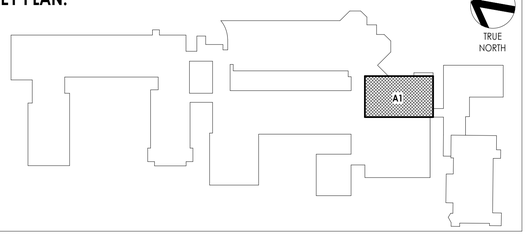
NOTE:
1. GEOTECHNICAL ENGNEER MUST VERIFY BEARING CAPACITY PRIOR TO INSTALLING NEW FOOTING.

2 SECTION
1/2" = 1'-0"



4 CANOPY WORK POINT
1/4" = 1'-0"

KEY PLAN:



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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

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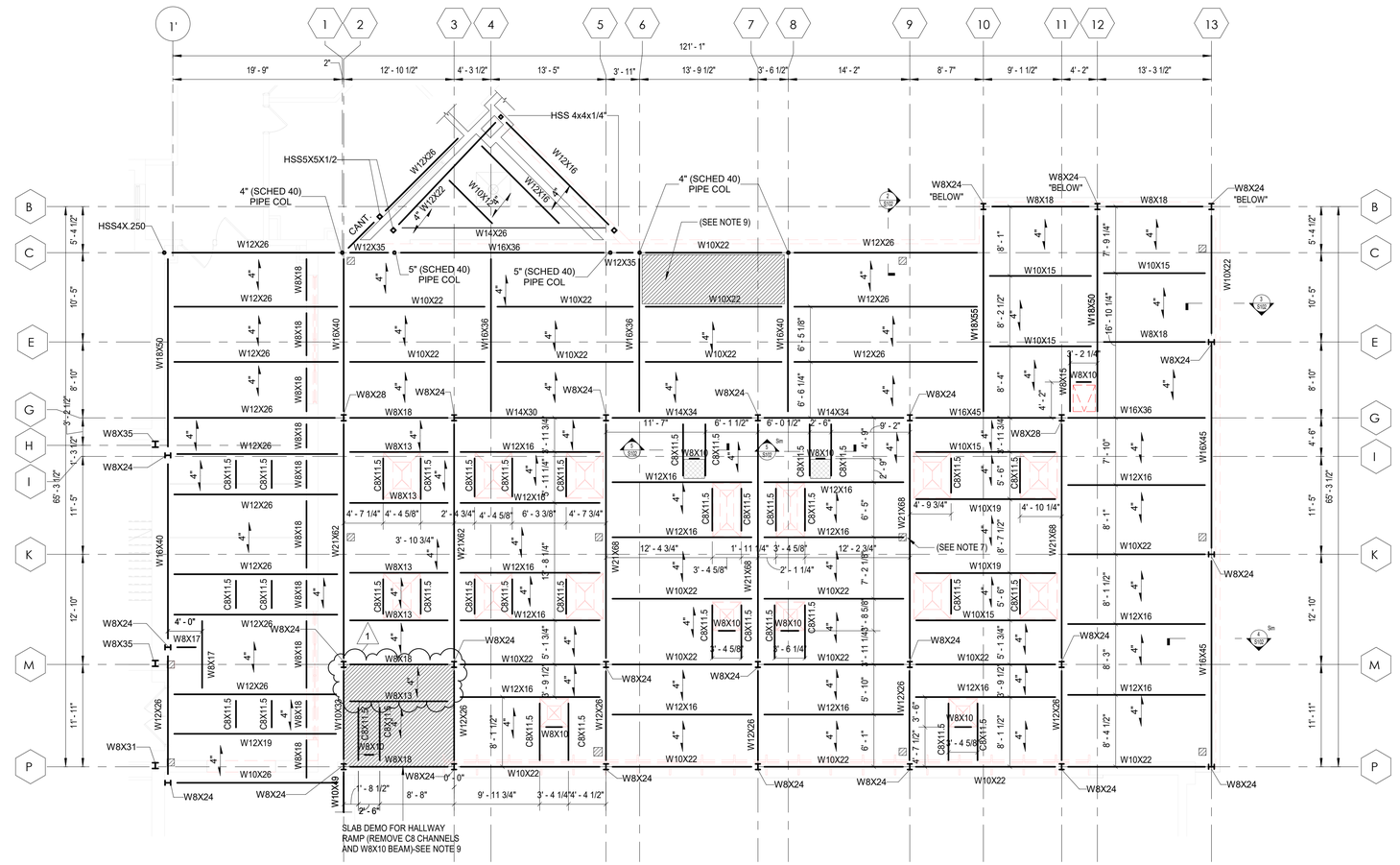
Project Status
BID DOCUMENTS

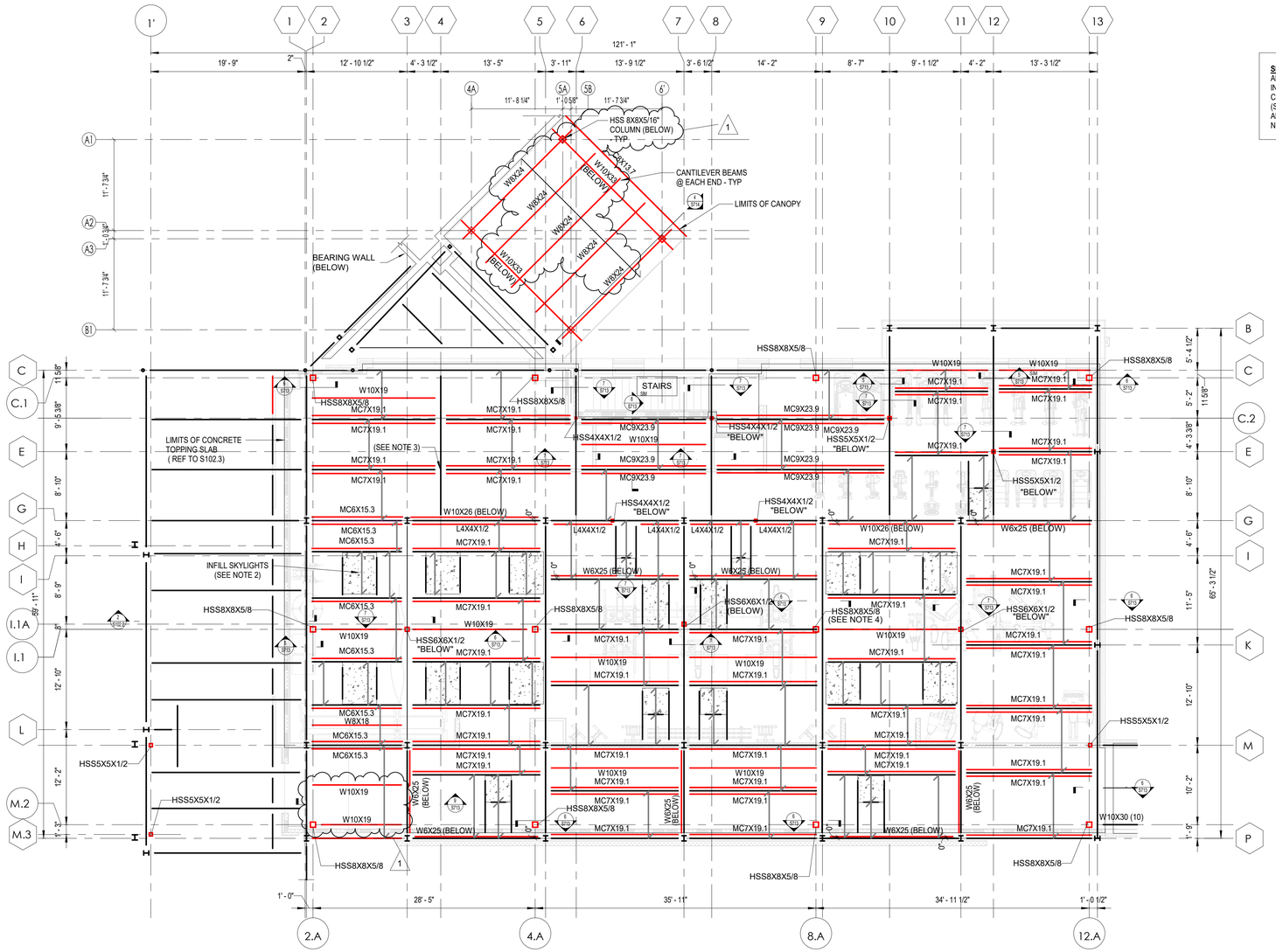
Drawn By	Checked By
MH	NH

Drawing Title
FIRST FLOOR FRAMING PLAN - AREA A1

Drawing Number
OHS S101.1

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1' 1 2 3 4 5 6 7 8 9 10 11 12 13
121' - 1"
19' - 9" 2" 12' - 10 1/2" 4' - 3 1/2" 13' - 5" 3' - 11" 13' - 9 1/2" 3' - 6 1/2" 14' - 2" 8' - 7" 9' - 1 1/2" 4' - 2" 13' - 3 1/2"
B C E G H I K M P
HSS 4x4x1/4"
HSS5X5X1/2
W12X26
W12X16
W10X22
W10X12
W13X49
W14X26
4" (SCHED 40) PIPE COL
CANT.
5" (SCHED 40) PIPE COL
(SEE NOTE 9)
HSS4X.250
W12X35
W16X36
W10X22
W12X26
W8X24 "BELOW"
W8X18
W10X15
W18X50
W16X40
W16X36
W8X28
W14X30
W14X34
W16X45
W8X35
W8X24
W8X13
W12X16
C8X11.5
W8X10
W21X62
W21X68
W16X40
W12X19
W10X26
W10X49
W8X17
W12X26
W10X53
W12X65
W12X87
W10X33
W12X106
W12X58
W12X53
W12X72
W10X68
W10X54
W10X45
W10X39
W8X31
W8X18
W8X24
W10X22
W12X16
W16X45
W16X36
W8X13
W8X10
W8X18
W8X24
W10X22
W8X24
W8X18
W8X24
W10X22
W8X24
W8X24
W8X24



1 S102.2 — **SECOND FLOOR FRAMING PLAN - AREA A2**

1/8" = 1'-0"

TRUE NORTH PROJECT NORTH

SEQUENCE
ALL NEW BEAMS, CHANNELS AND DECKING MUST BE INSTALLED PRIOR TO ANY WORK COMMENCING ABOVE. CONTRACTOR MUST SUBMIT TEMPORARY SHORING PLANS (SIGNED AND SEALED) IF THEY WISH TO COMMENCE WORK ABOVE PRIOR TO COMPLETING THE INSTALLATION OF THE NEW STEEL.

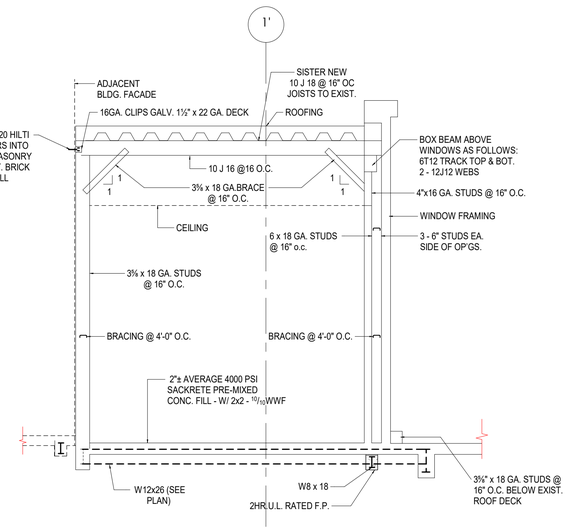
NOTES:

1. ALL EXISTING CONDITIONS SHOWN ARE "FOR REFERENCE ONLY". CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD.
2. INFILL ALL EXISTING SKYLIGHTS - REFER TO S713.
3. REFER TO NOTE #10 ON S101.1 FOR SUPPORT OF EXISTING GIRDER AT BLOCK WALLS BELOW.
4. TEMPORARILY SHORE W12x16 AND RE-ATTACH TO HSS 8x8 AFTER IT HAS BEEN INSTALLED.

1-1/2" VLI (20GA) TYPE 'B' STEEL DECK

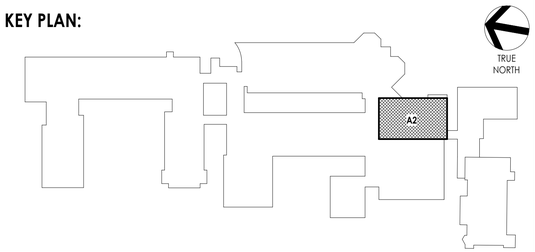
INDICATES EXISTING ROOF PENETRATIONS TO BE INFILLED.

LEGEND	
	EXISTING TO REMAIN
	PROPOSED



2 EXISTING SECTION
1/2" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.1.6761.00

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. 66-14-01-03-0-003-047

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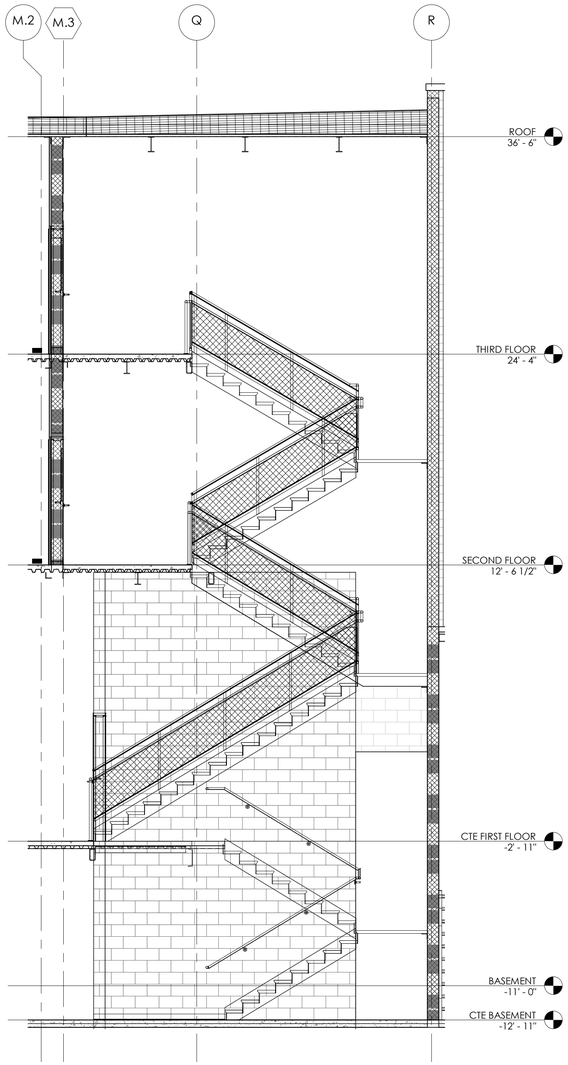
Project Status
BID DOCUMENTS

Drawn By	Checked By
MH	NH

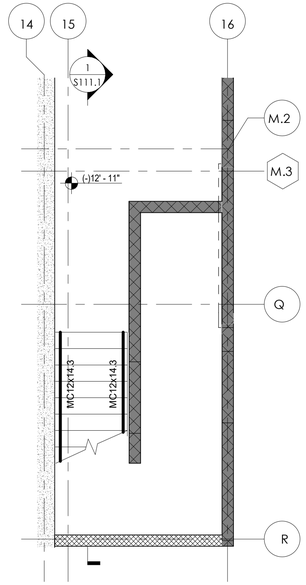
Drawing Title
SECOND FLOOR FRAMING PLAN - AREA A2

Drawing Number
OHS
S102.2

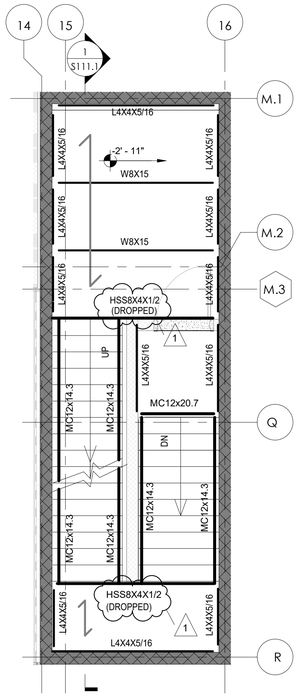
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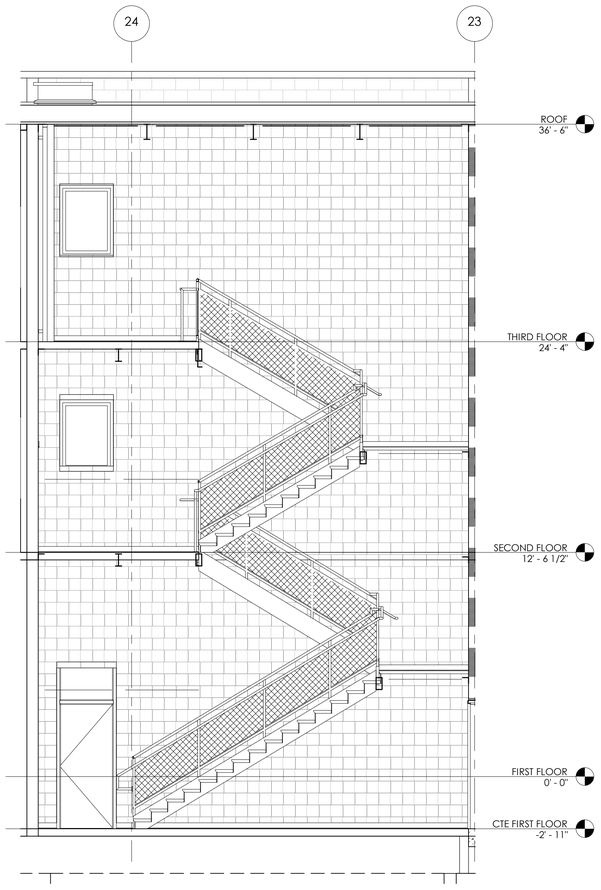


1 CTE-S2 STAIR SECTION
N.T.S.

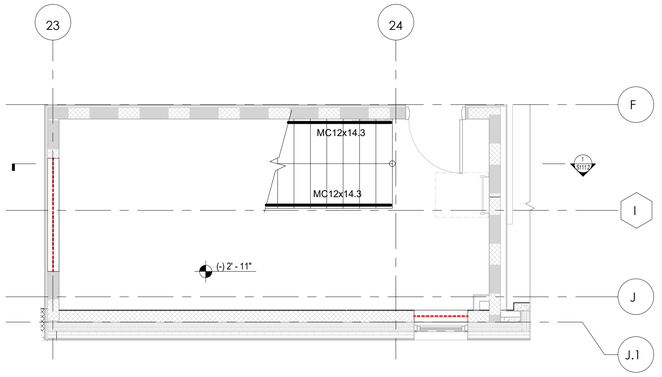


2 STAIR S2 - BASEMENT FLOOR PLAN
N.T.S.

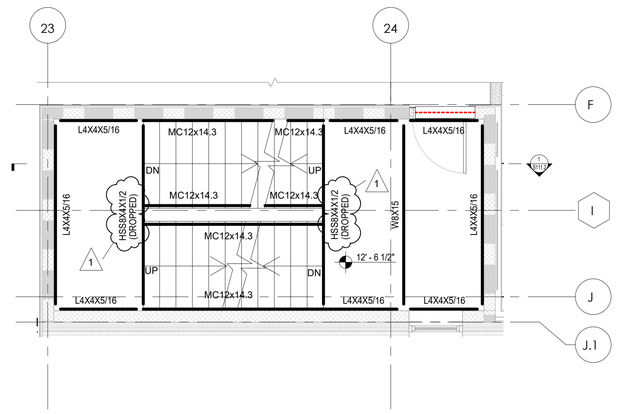

14
15
16
1
S111.1
M.1
M.2
M.3
Q
R
L4X4X5/16
-2' - 11"
W8X15
W8X15
HSS8X4X1/2
(DROPPED)
UP
DN
MC12x20.7
MC12x14.3
MC12x14.3
MC12x14.3
MC12x14.3
MC12x14.3
MC12x14.3
MC12x14.3
MC12x14.3
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L4X4X5/16
L4X4X5/16
L4X4X5/16



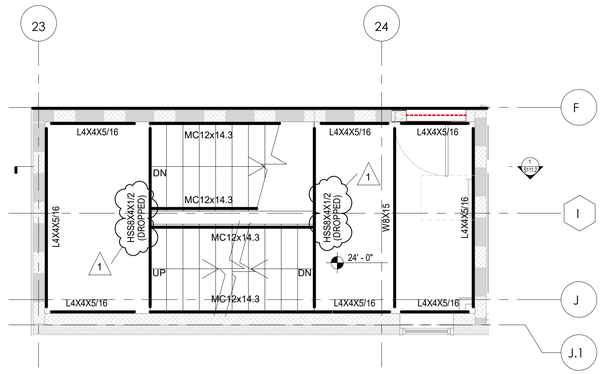
1 CTE-S3 STAIR SECTION
N.T.S.



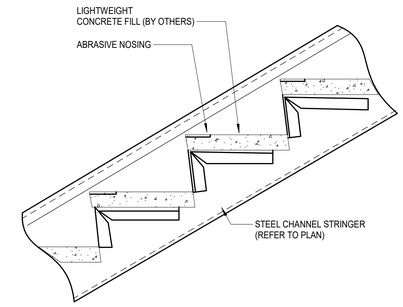
2 STAIR S3 - FIRST FLOOR PLAN
N.T.S.



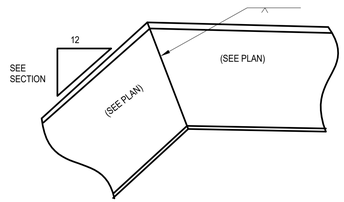
3 STAIR S3 - SECOND FLOOR PLAN
N.T.S.



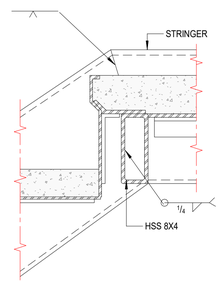
4 STAIR S3 - THIRD FLOOR PLAN
N.T.S.



5 TYPICAL TREAD DETAIL
N.T.S.



6 TYPICAL STRINGER SPLICE
N.T.S.



NOTE:
1. NOTCH STRINGER AT HSS.

7 DETAIL
N.T.S.

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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

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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC
36 Grist Mill Lane
Pleasant Valley, NY 12569
www.connollyengineering.com

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/26	BID ADDENDUM NO.1

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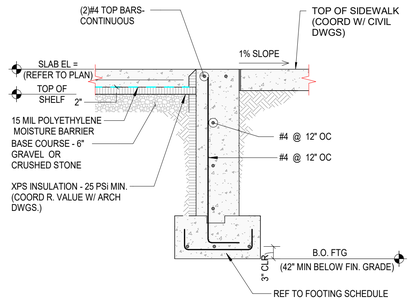
Project Status
BID DOCUMENTS

Drawn By	Checked By
MH	NH

Drawing Title
CTE STAIR S3

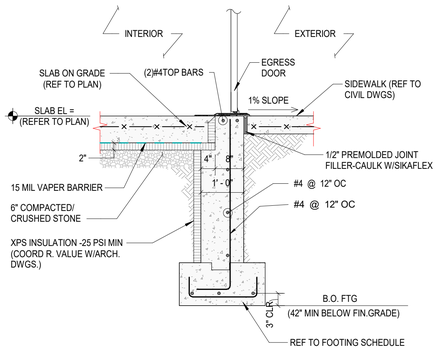
Drawing Number
OHS
S111.2

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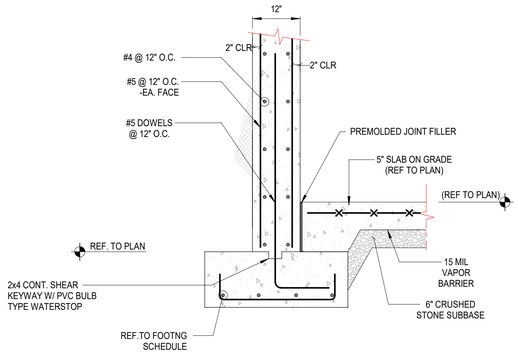
NOTE:
1. REFER TO ARCH DRAWINGS FOR INSULATION / WATERPROOFING DETAILS.

1 TYP. 'CTE' EXTERIOR WALL FOOTING
NTS



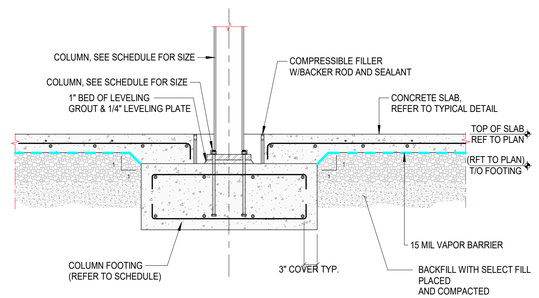
NOTE:
1. REFER TO ARCH DRAWINGS FOR INSULATION / WATERPROOFING DETAILS.

2 CTE WALL FOOTING @ DOORWAY
NTS

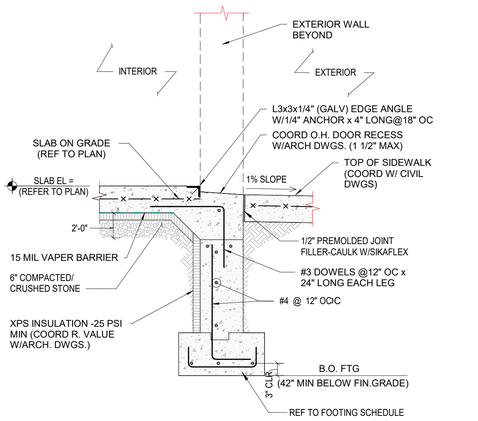


NOTE:
1. REFER TO ARCH DWGS FOR WATERPROOFING AND INSULATION DETAILS.
2. TEMPORARILY SUPPORT FOUNDATION WALL UNTIL FIRST FLOOR FRAMING OF DECKING INSTALLED.

3 TYP BASEMENT FND WALL FOOTING
N.T.S.

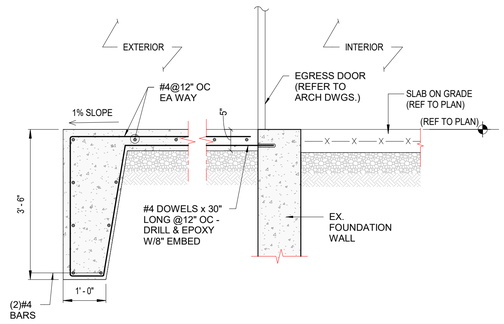


4 TYPICAL INTERIOR COLUMN FOOTING
NTS

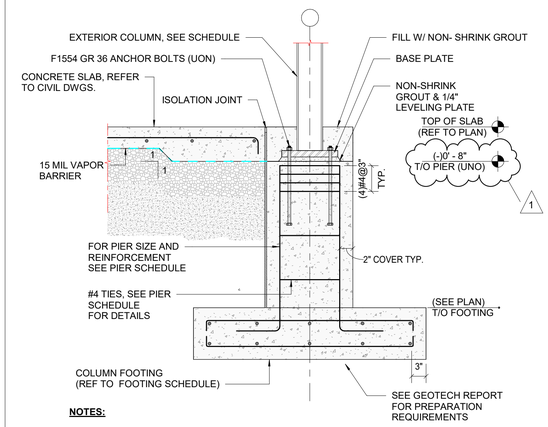


NOTE:
1. REFER TO ARCH DRAWINGS FOR INSULATION / WATERPROOFING DETAILS.

5 CTE WALL FOOTING @ OVERHEAD DOOR
NTS

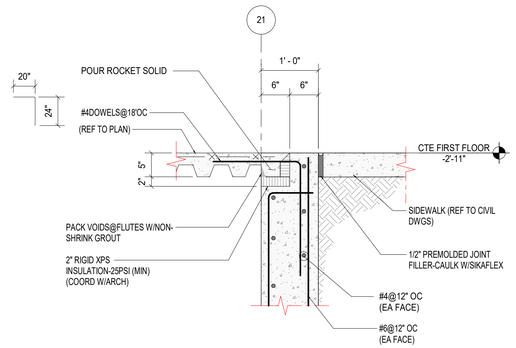


6 APRON @ LOCKER ROOM DOORWAY
NTS

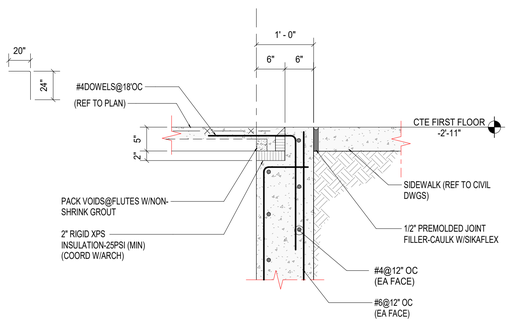


NOTES:
1. PROVIDE (4) TIES AT 3" O.C. AT TOP OF PIERS - TYPICAL.
2. FOUNDATION WALL AND FOOTING REINFORCEMENT TO CONTINUE THROUGH PIERS AND PIER FOOTINGS.

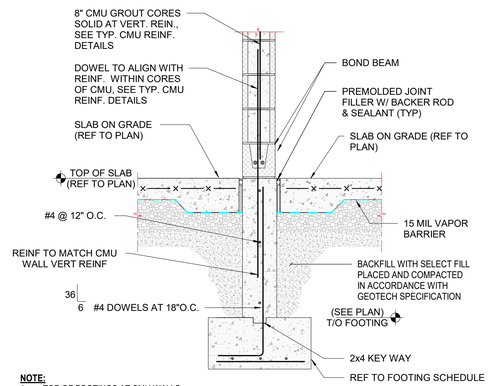
7 TYPICAL EXTERIOR COLUMN FOOTING W/PIER DETAIL
NTS



8 DETAIL @ TOW
NTS



9 DETAIL @ TOW
NTS



NOTE:
1. TOP OF FOOTINGS AT CMU WALLS VARY - REFER TO PLANS FOR TOP OF FOOTINGS ELEVATIONS AND 14/S700 FOR STEPPED FOOTING INFO.

10 FOUNDATION @ CMU WALL
NTS

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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

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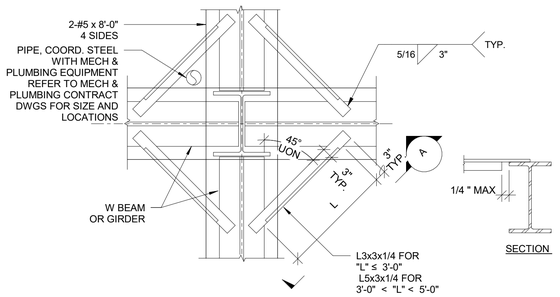
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MH

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NH

Drawing Title
TYPICAL DETAILS

Drawing Number
OHS
S701

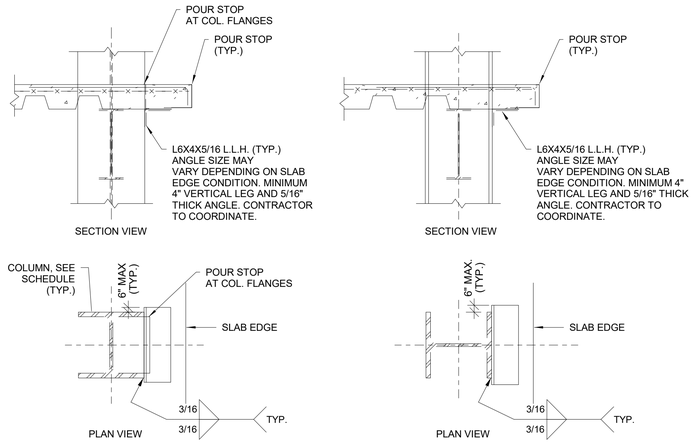
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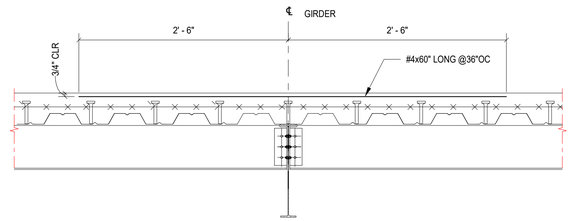
NOTES:

1. DETAIL AT EXTERIOR COLUMN SIMILAR.
2. STRUCTURAL STEEL SUPPORTS FOR METAL DECK SHALL BE COORDINATED WITH METAL DECK CONTRACTOR.
3. CELLS SHALL BE CUT AS REQUIRED TO CLEAR MOMENT CONNECTIONS, VERTICAL PIPING, CONDUIT AND DUCT WORK, ETC. AS REQUIRED BY CONTRACTOR.
4. PROVIDE AND INSTALL STEEL SUPPORT WHERE MORE THAN TWO CELLS ARE UNSUPPORTED.

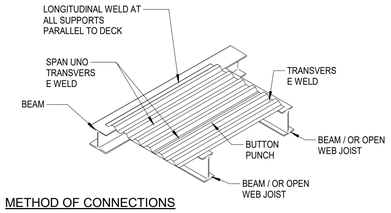
1 STEEL DECK SUPPORT AT INTERIOR COLUMN
N.T.S.



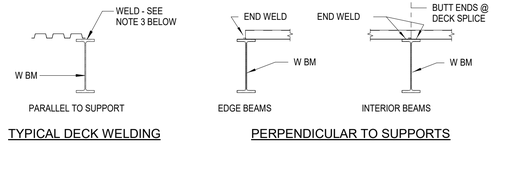
2 STEEL DECK SUPPORT AT EXTERIOR COLUMN
N.T.S.



3 ADDITIONAL SLAB REINF.@GIRDERS
N.T.S.

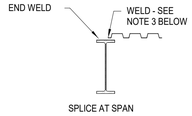


METHOD OF CONNECTIONS



TYPICAL DECK WELDING

PERPENDICULAR TO SUPPORTS



DIRECTION SPAN

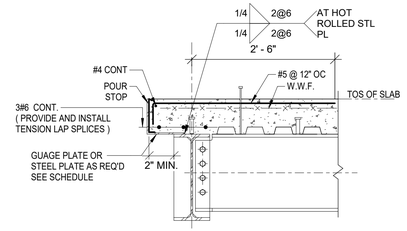
ROOF DECK

1. MECHANICAL FASTENERS AT EACH TRANSVERSE SUPPORT PER PATTERN SHOWN ON 3/S0-04.
2. LONGITUDINAL ATTACHEMENTS USING MECHANICAL FASTENERS @ 6" OC AT ALL LONGITUDINAL SUPPORTS.
3. USE HILTI SLC OR APPROVED EQUAL @ 18" OC AT ALL SEAMS.
4. ALL MECHANICAL FASTENERS SHALL BE HILTI X-ENP-19 L15 OR X-HSN-24 OR APPROVED EQUAL. FOR MORE INFO SEE NOTES ON S004
5. ATTACH DECK TO ALL TRANSVERSE AND LONGITUDINAL SUPPORT BEAMS OR OPEN WEB JOIST.

FLOOR DECK

1. 4 PUDDLE WELDS AT EACH TRANSVERSE SUPPORT UNO.
2. LONGITUDINAL WELDS @ 1'-0" OC AT ALL LONGITUDINAL SUPPORTS.
3. BUTTON PUNCH AT 36" OC AT ALL SEAMS U.N.O.
4. ALL PUDDLE WELDS SHALL BE 1/2" DIA EFFECTIVE.
5. WELD DECK TO ALL TRANSVERSE AND LONGITUDINAL SUPPORT BEAMS.

4 METAL DECK TYPICAL DETAILS
N.T.S.

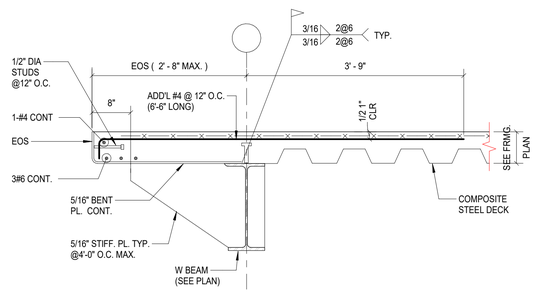


DETAIL AT FLOOR SLAB

EDGE OF DECK SCHEDULE	
MAXIMUM OVERHANG	UP TO = 6 1/4" MINIMUM THICKNESS*
UP TO 3"	12 GAGE
UP TO 6"	12 GAGE
UP TO 9"	10 GAGE
UP TO 12"	3/16"
UP TO 18"	1/4"
UP TO 21"	5/16
UP TO 24"	3/8"

*NOTE: PROVIDE MINIMUM THICKNESS INDICATED, UNLESS A GREATER THICKNESS IS INDICATED IN SECTION OR DETAIL.

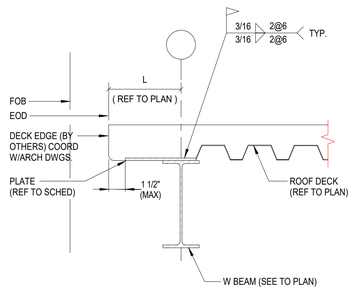
5 TYPICAL SLAB EDGE DETAIL (UNLESS OTHERWISE NOTED ON SECTIONS / PLANS
N.T.S.



NOTES:

1. DECK ORIENTATION MAY VARY.

6 TYP. EXTENDED EDGE OF COMP. SLAB
N.T.S.



L	THICKNESS OF PLATE OR CLOSURE
12" TO 14"	1/4"
10" TO 12"	10 GAGE
< 10"	12 GAGE

NOTES:

1. DECK ORIENTATION MAY VARY.
2. A SINGLE BENT PLATE (OR EQUIV ANGLE) MAY BE USED SUBSTINED AS LONG AS IT ACCOMMODATES SLAB EDGE REQUIREMENTS.

7 TYP. EXT. EDGE OF ROOF DECK
N.T.S.

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CPLteam.com
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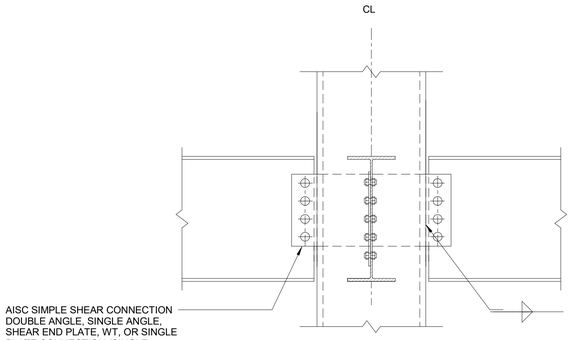
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NH

Drawing Title
TYPICAL DETAILS

Drawing Number
OHS
S703

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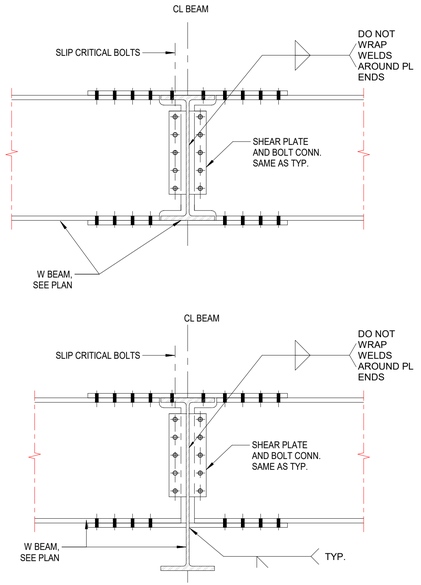


MIN. ROWS OF BOLTS	
W8,W10	2
W12, W14	3
W16	4
W18, W21	4

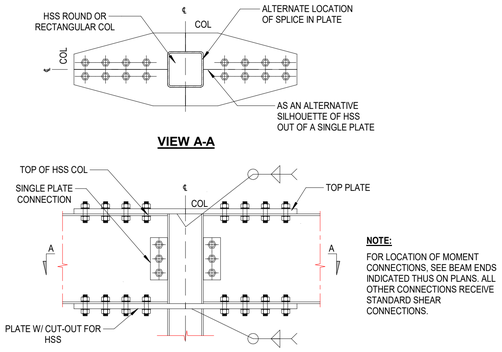
NOTES:

1. CONTRACTOR'S CA. CALCULATIONS SHALL VERIFY HSS/PIPE WALL THICKNESS IS ADEQUATE FOR CONNECTION TYPE CHOSEN PER AISC

1 TYPICAL BEAM TO HSS COLUMN SHEAR CONNECTION
N.T.S.



2 TYP BEAM TO BEAM MOMENT CONNECTION
N.T.S.



VIEW A-A

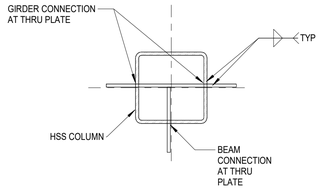
CUT-OUT PLATE

NOTE:
FOR LOCATION OF MOMENT CONNECTIONS, SEE BEAM ENDS INDICATED THUS ON PLANS. ALL OTHER CONNECTIONS RECEIVE STANDARD SHEAR CONNECTIONS.

NOTES:

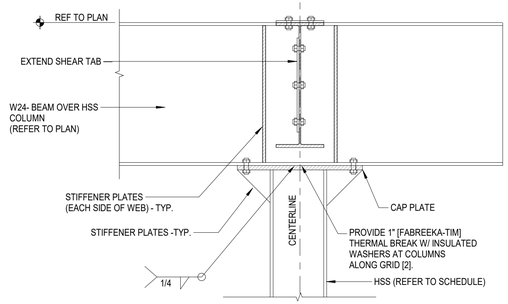
1. ALL CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST AISC ASD SPECIFICATION.
2. CONNECTIONS TO BE DETAILED FOR FULL MOMENT CAPACITY OF BEAMS, ENGINEER TO BE PROVIDED WITH DESIGN CALCULATIONS WITH SHOP DRAWINGS FOR REVIEW.
3. USE KNIFE PLATE CONNECTIONS FOR REACTIONS AS SHOWN ON PLAN FOR BEAMS CONNECTING TO HSS COLUMNS.
4. DETAILER SHALL SUBMIT FOR APPROVAL STANDARD CONNECTION DETAILS CONFORMING TO DETAILS SHOWN WITH ERECTION DRAWINGS.
5. ALL BOLTS TO BE 3/4" DIA A325-SC HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE. ALL WELDING ELECTRODES TO BE E70XX.

3 TYP. HSS MOMENT CONNECTION
NTS



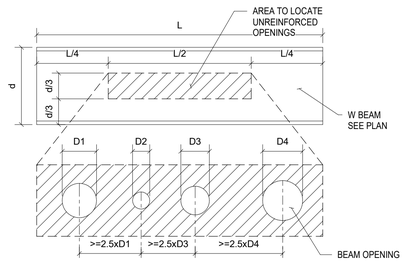
AT TOP OF COLUMN

4 TYP. DET. THRU PLATE @ HSS COLUMN
NTS



NOTE:
1. ROOF DECK NOT SHOWN FOR CLARITY.

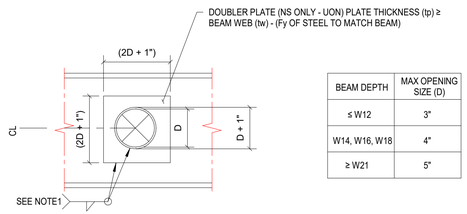
5 BEAM CONTINUOUS OVER HSS COLUMN
N.T.S.



NOTES:

1. BEAM SUPPORTS UNIFORMLY DISTRIBUTED LOAD ONLY.
2. SPACING OF HOLES SHALL BE NO LESS THAN 2.5X DIA. OF LARGER HOLE OF TWO ADJACENT HOLES.
3. FINAL LAYOUT OF OPENINGS SHALL BE APPROVED BY STUCTURAL ENGINEER.
4. REFER TO DETAIL 8/S704 FOR REINFORCED OPENINGS.

6 TYP DETAIL OF SMALL UNREINFORCED BM OPENINGS
N.T.S.



BEAM DEPTH	MAX OPENING SIZE (D)
≤ W12	3"
W14, W16, W18	4"
≥ W21	5"

NOTES:
1. PROVIDE MINIMUM WELD SIZE PERMITTED BY AISC [TABLE J2.4].
2. DOUBLER PLATE (Fy) SHALL MATCH (Fy) OF THE BEAM.

7 TYP. BEAM OPENING REINFORCEMENT
N.T.S.

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SHEET INFORMATION

Issued
04/27/2026

Scale
As indicated

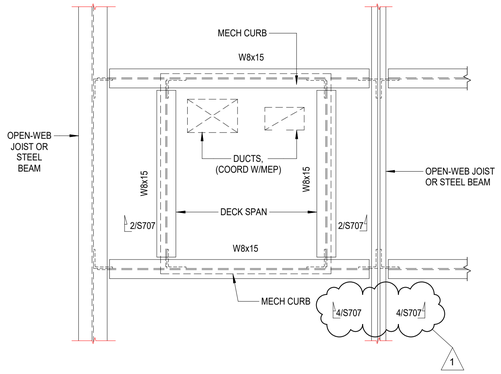
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BID DOCUMENTS

Drawn By
MH

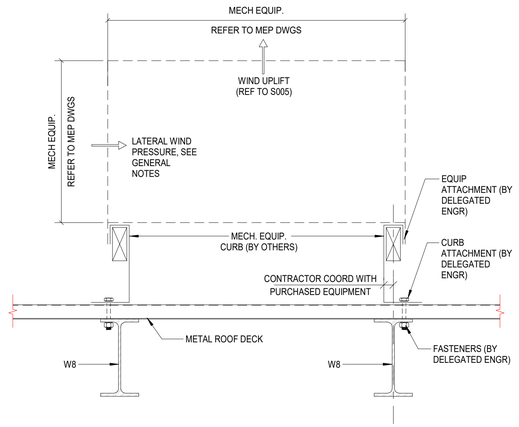
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Drawing Title
TYPICAL DETAILS

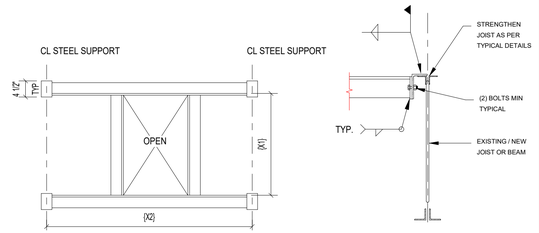
Drawing Number
OHS
S704



1 TYPICAL ROOFTOP EQUIPMENT FRAME
N.T.S.



2 TYPICAL ROOFTOP EQUIPMENT FRAME-SECTION
N.T.S.

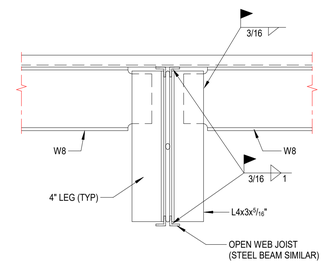


NOTES:

1. FOR SIZE AND LOCATION OF HVAC UNIT AND OPENINGS SEE ARCH'L AND MECH'L DWGS.
2. STEEL CONTRACTOR SHALL VERIFY ALL OPENING LOCATIONS AND SIZES PRIOR TO FABRICATION AND ERECTION OF STEEL FRAMES.
3. PROVIDE STEEL FRAMING AS SHOWN AROUND ALL OPENINGS LARGER THAN 8" AT THE ROOF.
4. PROVIDE STEEL ANGLES ON ALL SIDES OF OPENINGS UNLESS BEAM IS SHOWN ON PLAN. ANGLE SIZES TO BE:

FOR {X1} OR {X2} ≤ 4'-0" L-4x4x5/16
FOR {X1} OR {X2} {4'-6" TO 6'-0"} L-6x6x1/2

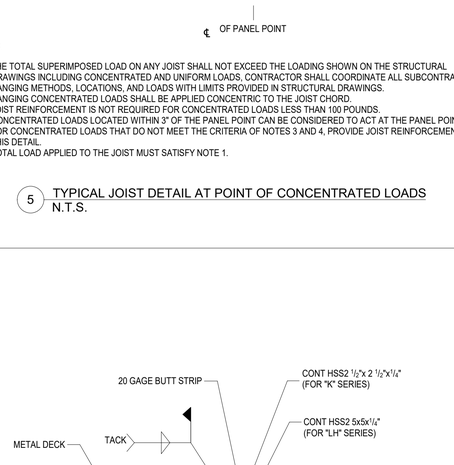
3 TYPICAL FRAMING @ROOF OPENINGS AND ROOFTOP EQUIPMENT (< 800 lbs)
N.T.S.



NOTE:

1. CONTRACTOR MAY OPT TO USE BOLTS IN LIEU OF FIELD WELDING.

4 RTU SUPPORT FRAME CONNECTIONS @ JOIST
N.T.S.



NOTES:

1. THE TOTAL SUPERIMPOSED LOAD ON ANY JOIST SHALL NOT EXCEED THE LOADING SHOWN ON THE STRUCTURAL DRAWINGS INCLUDING CONCENTRATED AND UNIFORM LOADS, CONTRACTOR SHALL COORDINATE ALL SUBCONTRACTORS HANGING METHODS, LOCATIONS, AND LOADS WITH LIMITS PROVIDED IN STRUCTURAL DRAWINGS.
2. HANGING CONCENTRATED LOADS SHALL BE APPLIED CONCENTRIC TO THE JOIST CHORD.
3. JOIST REINFORCEMENT IS NOT REQUIRED FOR CONCENTRATED LOADS LESS THAN 100 POUNDS.
4. CONCENTRATED LOADS LOCATED WITHIN 3" OF THE PANEL POINT CAN BE CONSIDERED TO ACT AT THE PANEL POINT.
5. FOR CONCENTRATED LOADS THAT DO NOT MEET THE CRITERIA OF NOTES 3 AND 4, PROVIDE JOIST REINFORCEMENT PER THIS DETAIL.
6. TOTAL LOAD APPLIED TO THE JOIST MUST SATISFY NOTE 1.

5 TYPICAL JOIST DETAIL AT POINT OF CONCENTRATED LOADS
N.T.S.



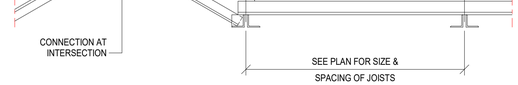
6 TYPICAL BRIDGING AT SPANDREL BEAM
N.T.S.



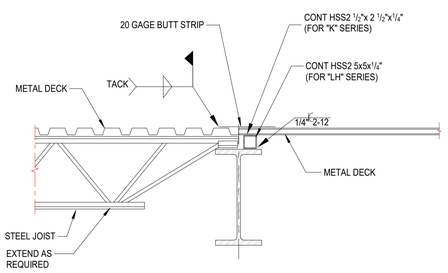
NOTE:

1. STAGGER JOISTS AT BEAM BEARING TO PROVIDE MINIMUM BEARING LENGH

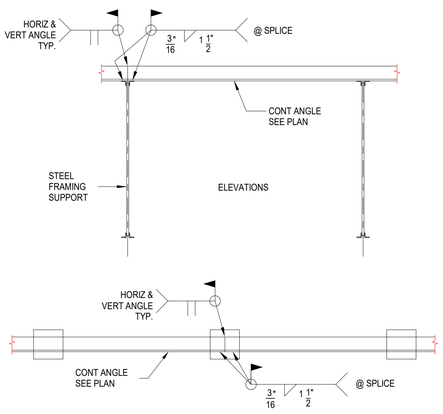
7 TYPICAL JOISTS BEARING ON STEEL BEAM
N.T.S.



8 TYPICAL DETAIL JOIST BRIDGING
N.T.S.

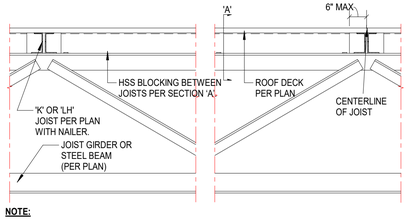


9 TYPICAL DECK SUPPORT WHERE DECK SPAN CHANGE DIRECTION
N.T.S.



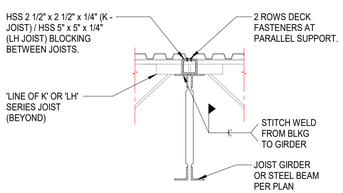
PLANS

10 CONT ANGLE & BENT PLATE SPLICE ON ALL ROOF PERIMETER ANGLES
N.T.S.

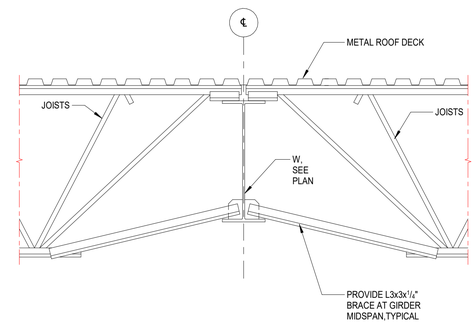


NOTE:

1. DECK INSTALLER TO TAKE CARE TO LOCATE LOW FLUTE OF DECK AT BLOCKING ON TOP OF JOIST GIRDER.
2. AT CONTRACTOR'S OPTION, BLOCKING CAN BE SHOP INSTALLED. CONTRACTOR TO COORDINATE WITH JOIST MANUFACTURER IF OPTION IS DESIRED.



11 HSS BLOCKING ON JOIST GIRDER
N.T.S.



12 TYPICAL BOTTOM CHORD BRACE FOR W GIRDERS
N.T.S.

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CPLteam.com
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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC
36 Grist Mill Lane
Pleasant Valley, NY 12569
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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/26	BID ADDENDUM NO.1

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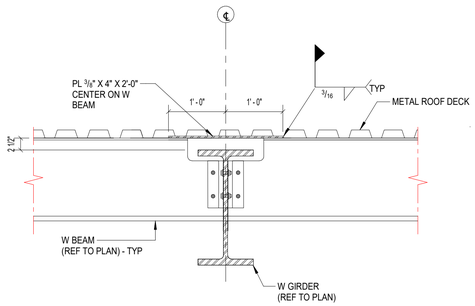
Drawn By	Checked By
MH	NH

Drawing Title
TYPICAL DETAILS

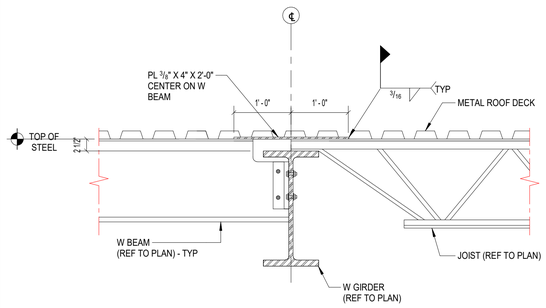
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OHS S707

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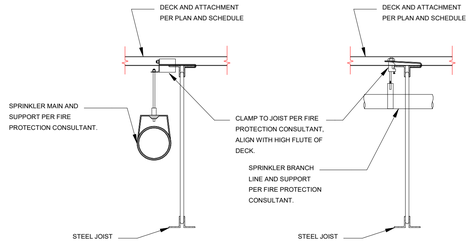
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1 DETAIL
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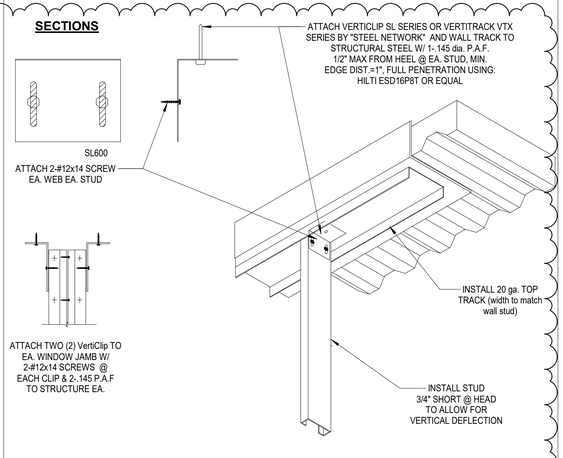


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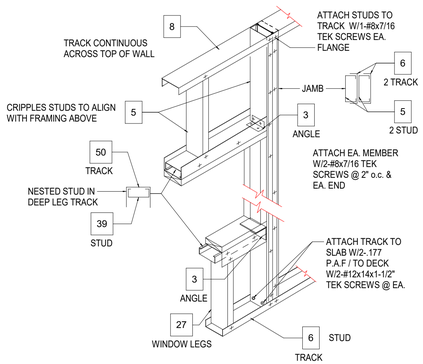


3 SPRINKLER LINES TO JOIST
N.T.S.

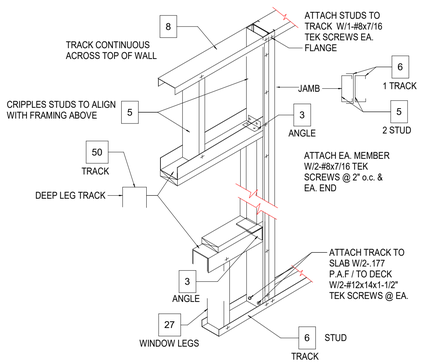
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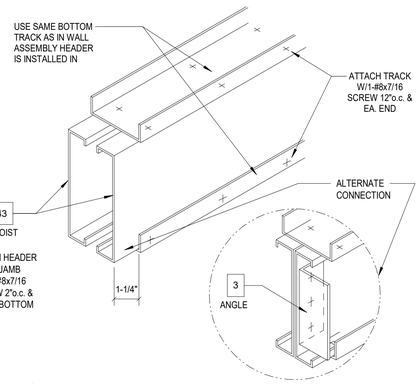
4 CURTAINWALL SLIDE CLIP UNDER SLAB MOUNT
N.T.S.



5 ASSEMBLY FOR OPENINGS 6'-0" TO 9'-0"EXT. NON-LOAD BRNG
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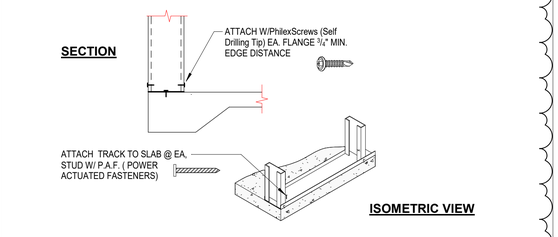


6 ASSEMBLY FOR OPENINGS 4'-0" TO 6'-0" EXT. NON-LOAD BRNG
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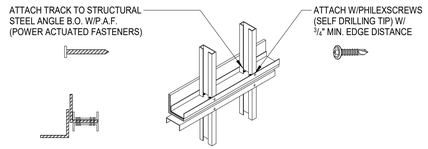
7 HEADER ASSEMBLY
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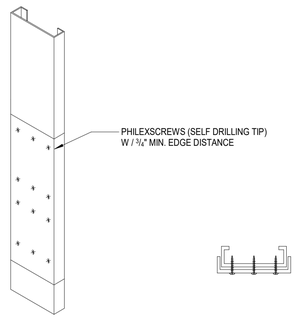
ISOMETRIC VIEW

8 BOTTOM TRACK CONNECTION TO SLAB,
N.T.S.



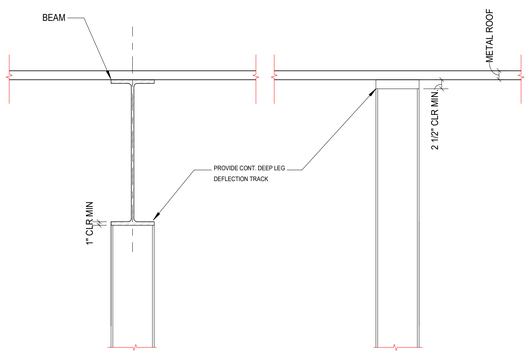
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9 BRICK LENTIL CONNECTION
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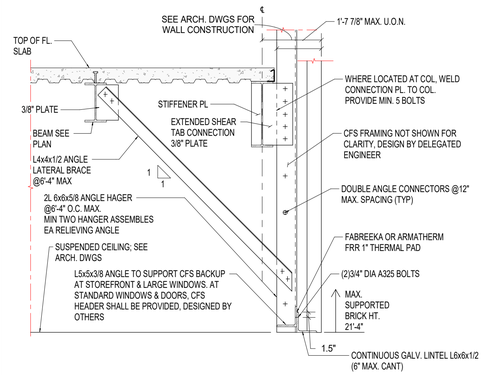
ISOMETRIC VIEW **SECTION**

10 STUD SPLICE CONNECTION
N.T.S.



@BEAM **@ROOF DECK**

11 METAL STUD DETAIL
N.T.S.



NOTES:

1. THIS DETAIL SHALL BE USED AT EXTERIOR WINDOW/DOOR OPENINGS, AT LOW CONTINUOUS RELIEVING ANGLES, AND AT LOW FACADE TRANSITION SUPPORT ANGLES. COORD WITH ARCH.
2. COORDINATE DIMENSIONS WITH ARCHITECTURE DRAWINGS.
3. RELIEVING ANGLE SUPPORT SYSTEMS ARE FOR GRAVITY LOADING ONLY. CFS BACKUP SYSTEM TO BE DESIGNED BY DELEGATED ENGINEER FOR LATER LOADING DUE TO WIND.
4. ALIGN HANGERS WITH COLUMNS AND WITH BEAMS PERRENDICULAR TO FACADE TO MINIMIZE LOAD ON SPANDERAL BEAMS WHERE POSSIBLE.
5. DETAIL SHOWN FOR BALLOON FRAMING, BUT SIMILAR AT PLATFORM FRAMING.

12 TYPICAL HUNG LINTEL /RELIEVING ANGLE
N.T.S.

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OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.1671.00

Client Name
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2024 BOND: PHASE 1

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■ OSSINING HIGH SCHOOL SED NO. 66-14-01-03-0-003-047

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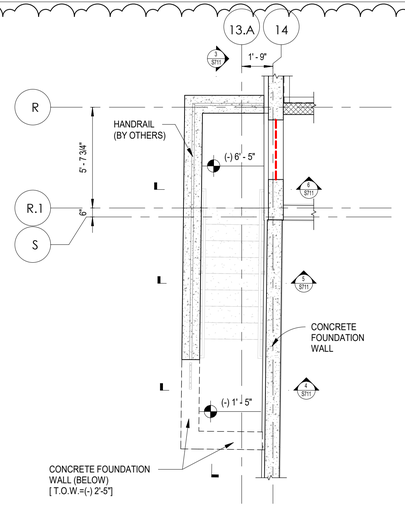
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Drawn By	Checked By
MH	NH

Drawing Title
TYPICAL DETAILS

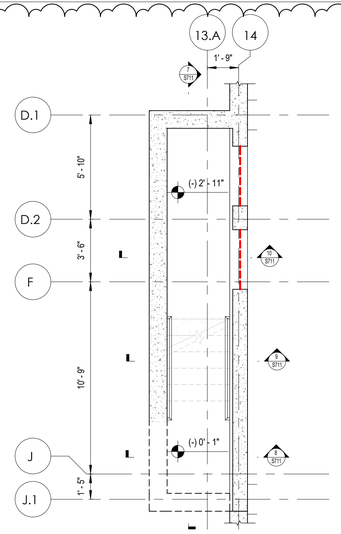
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NOTE:

1. NOSING BARS AND TRANSVERSE BARS SHALL HAVE STANDARD HOOKS AT ENDS.
2. STAIRS SHALL CONSIST OF NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI, AIR ENTRAINED, AND A MAXIMUM WATER TO CEMENTITIOUS RATIO OF 0.40.
3. REFER TO ARCH DRAWINGS FOR FINAL TREAD / STAIR LAYOUT.

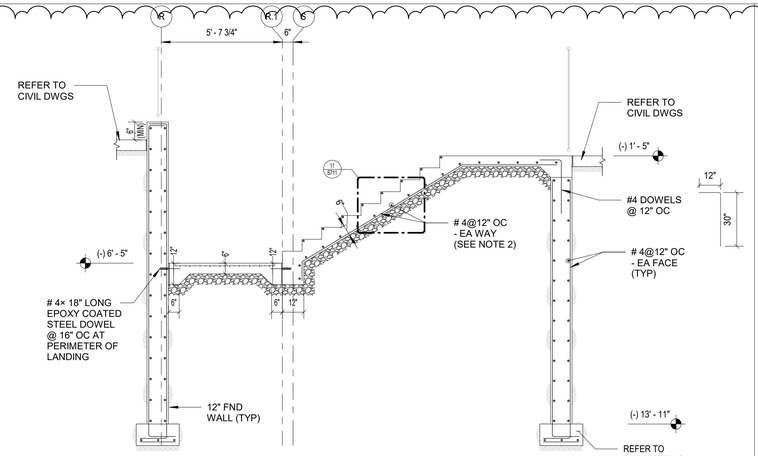
1 EXTERIOR STAIR @ BASEMENT
N.T.S.



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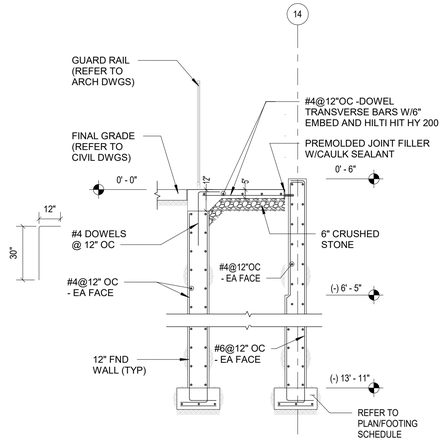
2 EXTERIOR STAIR @ CTE 1ST FLR
N.T.S.



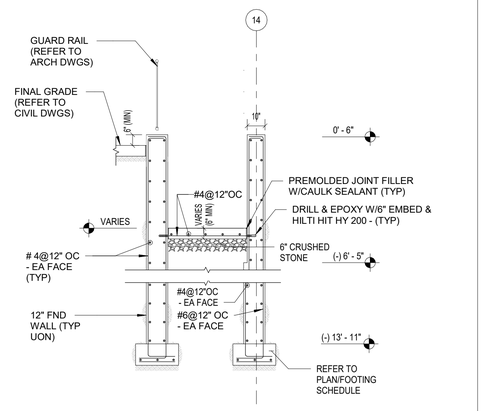
NOTE :

1. REFER TO ARCH PLANS FOR TREAD / RISER DIMENSIONS.
2. TRANSVERSE STAIR REINFORCEMENT SHALL BE DOWELLED INTO ADJACENT CONCRETE FOUNDATION WALLS WITH 6" EMBEDMENT AND HILTI HIT HY 200 EPOXY.

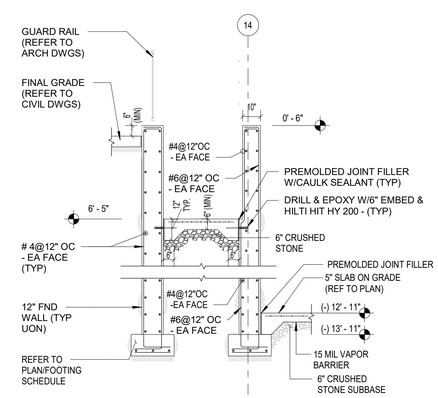
3 STAIR SECTION
N.T.S.



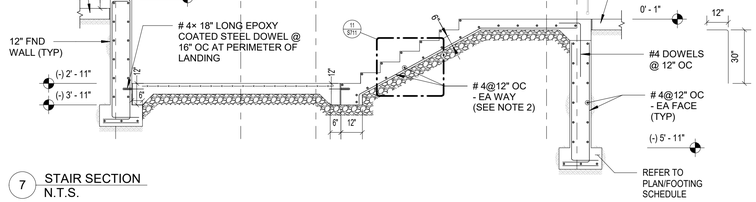
4 SECTION@LANDING
N.T.S.



5 SECTION@STEPS
N.T.S.



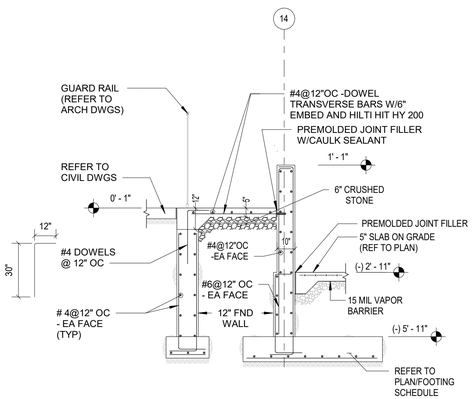
6 SECTION@LANDING
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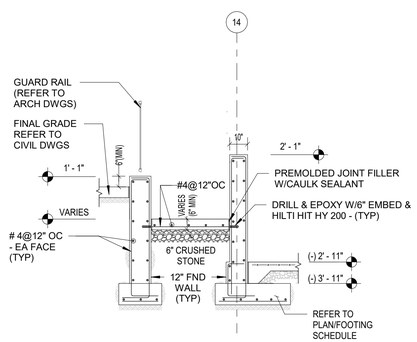
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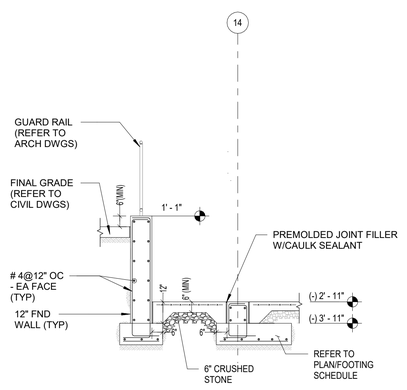
7 STAIR SECTION
N.T.S.



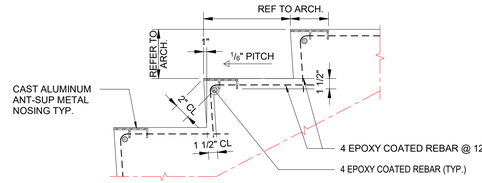
8 SECTION@LANDING
N.T.S.



9 SECTION@STEPS
N.T.S.



10 SECTION@LANDING
N.T.S.



NOTE:

1. NOSING BARS AND TRANSVERSE BARS TO HAVE STANDARD HOOKS AT ENDS.
2. COORDINATE FINAL DETAILS W / ARCH DWGS.

11 STEP / NOSING DETAIL AT EXTERIOR CONCRETE STEPS
N.T.S.

CPL | Architecture Engineering Planning
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Poughkeepsie, NY 12601
CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.1.6761.00

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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC
36 Grist Mill Lane
Pleasant Valley, NY 12569
www.connollyengineering.com

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/26	BID ADDENDUM NO.1

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SHEET INFORMATION

Issued
04/27/2026

Scale
As indicated

Project Status
BID DOCUMENTS

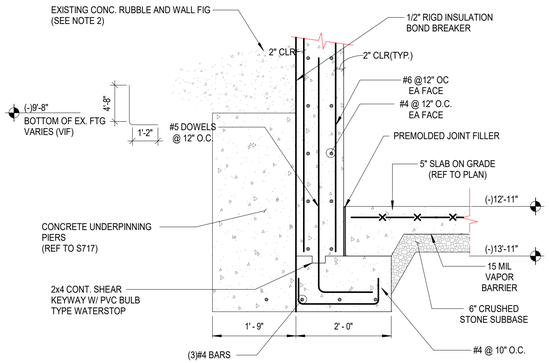
Drawn By
MH

Checked By
NH

Drawing Title
EXTERIOR STAIR DETAILS

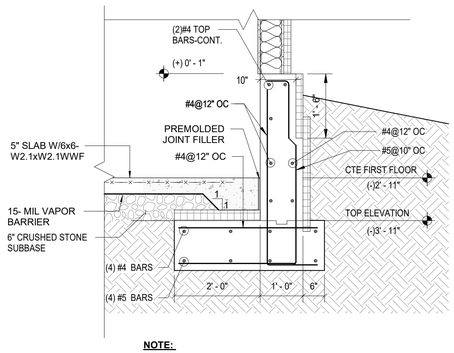
Drawing Number
OHS
S711

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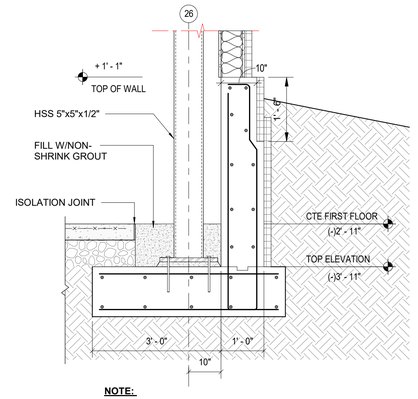
NOTE:
1. REFER TO ARCH DWGS FOR WATERPROOFING AND INSULATION DETAILS.
2. TRIM TOE EXTENSION ON EXTERIOR FOOTING TO PREVENT INTERFERANCE WITH NEW FOUNDATION WALL

1 BASEMENT FND WALL FOOTING AT CHURCH
N.T.S.



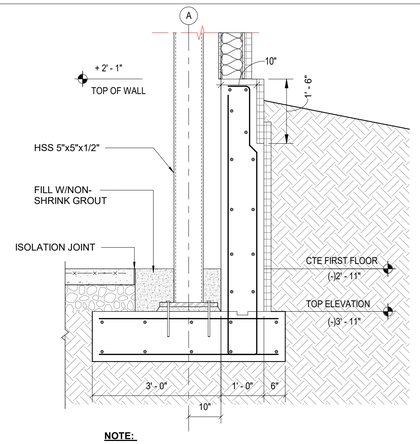
NOTE:
1. REFER TO ARCH DRAWINGS FOR WATERPROOFING AND INSULATION DETAILS

2 CTE FOOTING DETAIL
N.T.S.



NOTE:
1. REFER TO ARCH DRAWINGS FOR WATERPROOFING AND INSULATION DETAILS AND 5/712.
2. REFER TO FOOTING SCHEDULE AND 5/712.

3 CTE FOOTING DETAIL AT COLUMN (NO PIER)
N.T.S.



NOTE:
1. REFER TO ARCH DRAWINGS FOR WATERPROOFING AND INSULATION DETAILS
2. REFER TO FOOTING SCHEDULE AND 5/712.

4 CTE FOOTING DETAIL AT COLUMN (NO PIER)
N.T.S.

NOTE:
1. REFER TO ARCH DRAWINGS FOR WATERPROOFING AND INSULATION DETAILS

5 CTE FOOTING DETAIL
N.T.S.

6 TYPICAL BEAM POCKET
N.T.S.

7 SECTION
N.T.S.
1

8 SECTION
N.T.S.
1

9 STAIR SECTION
N.T.S.
1

10 SLAB ON GRADE FLOOR DRAIN
N.T.S.
1

CAST STONE NOTE:
CAST STONE COPINGS ARE TO BE MANUFACTURED USING A WET CAST PROCESS AT A PLANT CERTIFIED BY THE ARCHITECTURAL PRECAST ASSOCIATION (APA)

11 RETAINING WALL - SEAT WALL
N.T.S.
1

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CPLteam.com
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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC
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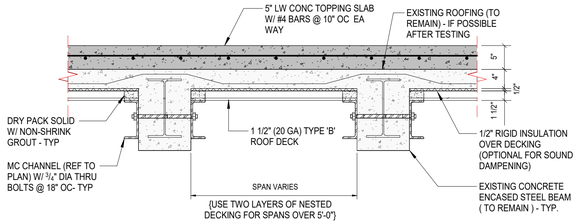
SHEET INFORMATION

Issued	Scale
04/27/2026	As indicated
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
MH	NH

Drawing Title
STRUCTURAL DETAILS

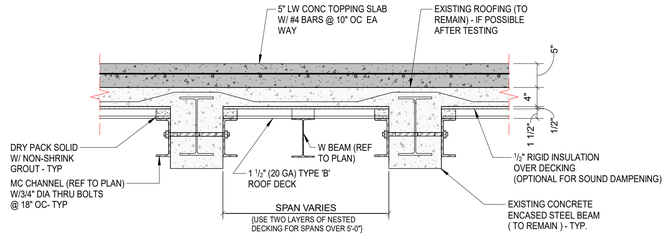
Drawing Number
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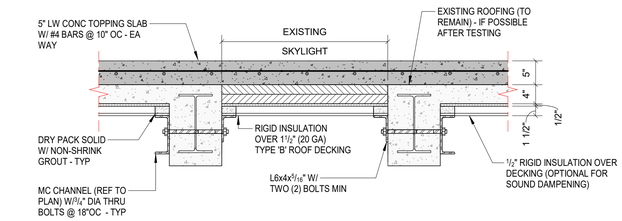
NOTES:
1. THRU-BOLTS MUST GO THROUGH THE WEB OF THE EXISTING CONCRETE ENCASED STEEL BEAM.

1 TYP LKR RM ROOF BAY
N.T.S.



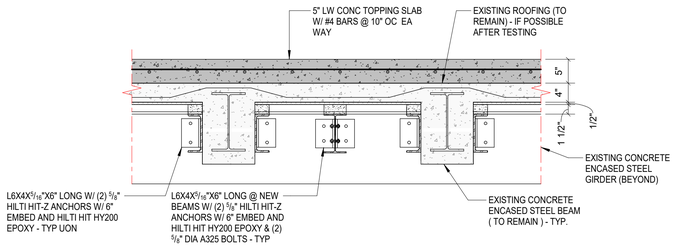
NOTES:
1. THRU-BOLTS MUST GO THROUGH THE WEB OF THE EXISTING CONCRETE ENCASED STEEL BEAM.

2 TYP LKR RM ROOF BAY W/ NEW BEAM
N.T.S.



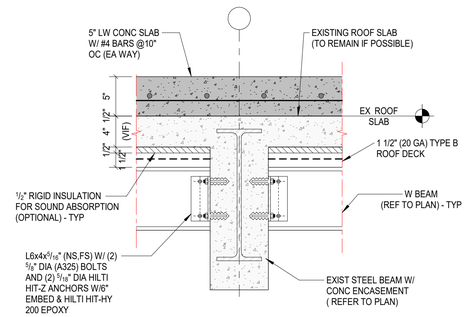
NOTES:
1. THRU-BOLTS MUST GO THROUGH THE WEB OF THE EXISTING CONCRETE ENCASED STEEL BEAM.

3 TYP LKR RM ROOF REINF / 2ND FLR SLAB @ SKYLIGHT
N.T.S.



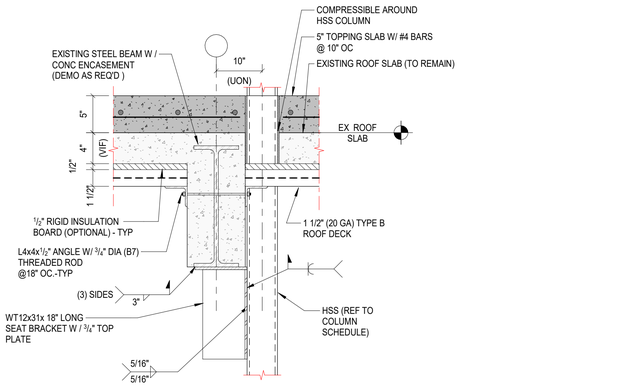
NOTES:
1. REFER TO TYPICAL BAY DETAILS FOR INFORMATION NOT SHOWN FOR CLARITY.

4 TYPICAL BAY CONNECTIONS
N.T.S.

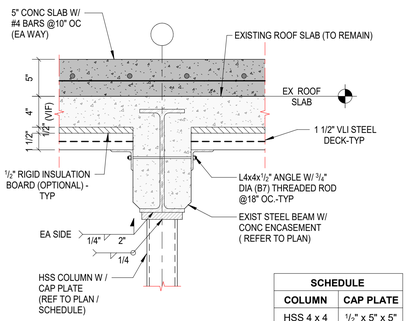


NOTES:
1. IF CONCRETE ENCASEMENT ISN'T SOUND, NOTIFY EOR FOR ALTERNATE ATTACHMENT DETAILS

5 EX. ROOF / 2ND FLOOR GIRDER DETAIL
N.T.S.



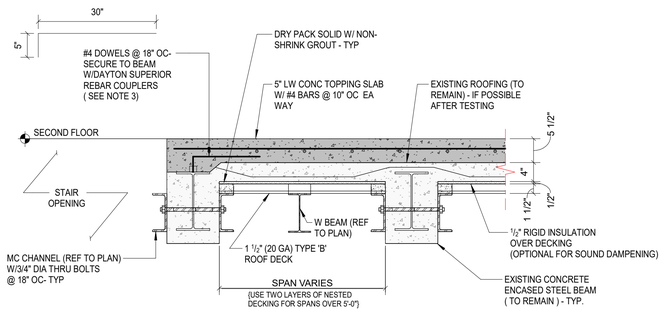
6 EXISTING GIRDER / COLUMN CONN.
N.T.S.



NOTE :
1. DEMO ENCASEMENT AT BOTTOM FLANGE TO ATTACH CAP PLATE

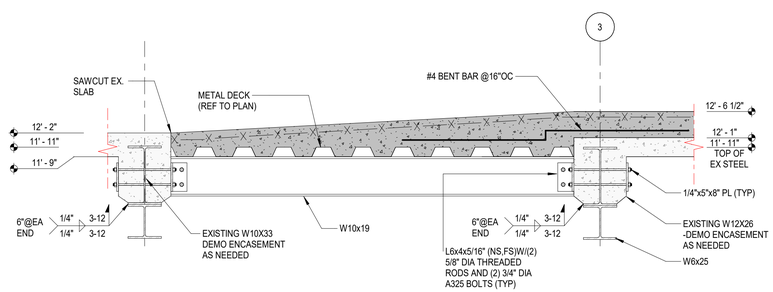
SCHEDULE	
COLUMN	CAP PLATE
HSS 4 x 4	1/2" x 5" x 5"
HSS 5 x 5	5/8" x 6" x 6"
HSS 6 x 6	3/4" x 7" x 7"

7 1ST FLR COLUMN AT EX. GIRDER
N.T.S.



NOTE:
1. DEMO CONCRETE ABOVE EXISTING STEEL BEAM TO EXPOSE TOP FLANGE.
2. DO NOT DAMAGE EXISTING WIRE MESH. TRACK WELD TO EXISTING STEEL BEAMS ADJACENT TO NEW STAIR OPENING.
3. INSTALL #4 DOWELS ADJACENT TO ALL THREE SIDES OF PROPOSED SLAB OPENINGS.

8 LOCKER ROOM ROOF/2ND FLR SLAB ADJACENT TO NEW STAIR
N.T.S.



9 SECTIONS AT CORRIDOR RAMP
N.T.S.
1

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NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.1676I.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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC
36 Grist Mill Lane
Pleasant Valley, NY 12569
www.connollyengineering.com

PROJECT ISSUE & REVISION SCHEDULE

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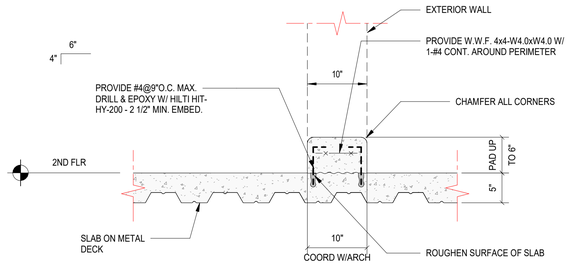
Project Status
BID DOCUMENTS

Drawn By	Checked By
MH	NH

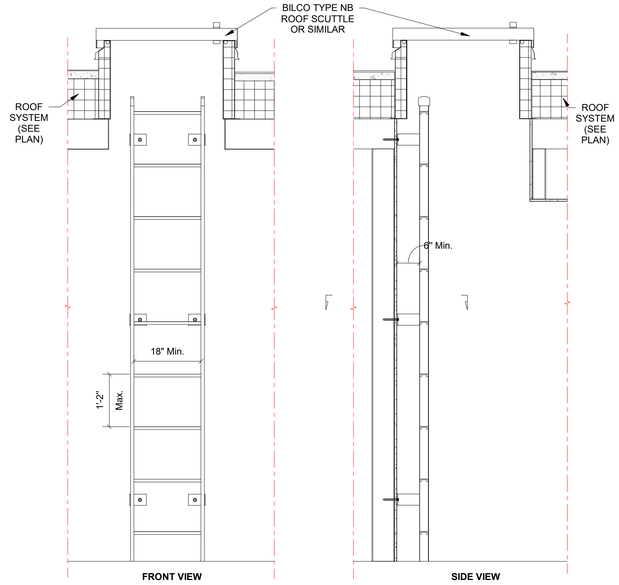
Drawing Title
STRUCTURAL DETAILS

Drawing Number
OHS S713

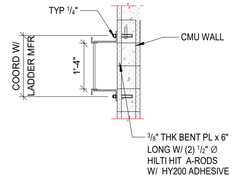
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1 TYPICAL CURB AT CTE EXTERIOR WALL
N.T.S.



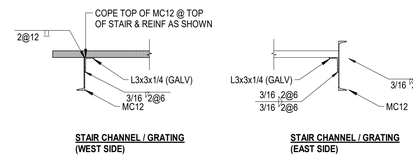
2 ROOF ACCESS LADDER DETAILS
NTS



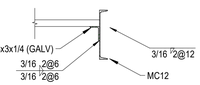
SECTION

NOTES: EQUIPMENT ACCESS- PERMANENT LADDERS

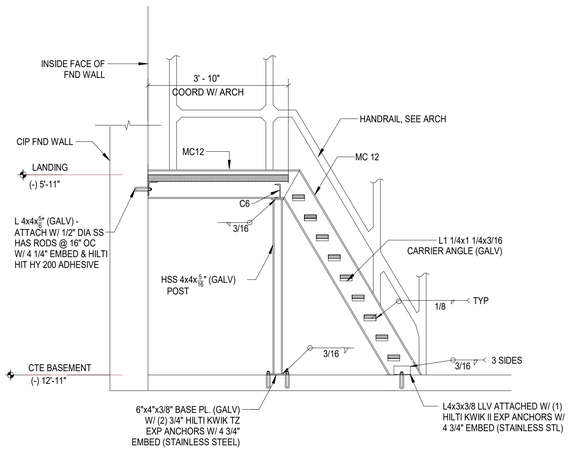
1. LADDERS SHALL HAVE A RUNG SPACING NOT TO EXCEED FOURTEEN INCHES (14 ") ON CENTER. THE UPPER MOST RUNG SHALL NOT BE GREATER THAN TWENTY-FOUR INCHES (24 ") BELOW THE UPPER EDGE OF THE ROOF HATCH, ROOF OR PARAPET.
2. LADDERS SHALL HAVE TOE SPACING NOT LESS THAN SIX INCHES (6").
3. THERE SHALL BE NOT LESS THAN EIGHTEEN INCHES (18") BETWEEN RAILS.
4. RUNGS SHALL HAVE A DIAMETER NOT LESS THAN 0.75 INCH AND BE CAPABLE OF WITHSTANDING A 300 POUND LOAD.
5. THE LADDER SHALL BE PROVIDED WITH A CLEAR AND UNOBSTRUCTED BOTTOM LANDING AREA HAVING A MINIMUM DISTANCE OF THIRTY INCHES (30") BY THIRTY INCHES (30") CENTERED IN FRONT OF THE LADDER.
6. CLIMBING CLEARANCE – THE DISTANCE FROM THE CENTERLINE OF THE RUNGS TO THE NEAREST PERMANENT OBJECT ON THE CLIMBING SIDE OF THE LADDER SHALL NOT BE LESS THAN THIRTY INCHES (30") MEASURED PERPENDICULAR TO THE RUNGS. THIS DISTANCE SHALL BE MAINTAINED FROM THE POINT OF THE LADDER ACCESS TO THE BOTTOM OF THE HATCH.
7. ACCESS TO LADDERS SHALL BE PROVIDED AT ALL TIMES.
8. WHEN APPLICABLE LADDERS OVER THIRTY FEET(30') IN HEIGHT SHALL BE PROVIDED WITH OFFSET SECTIONS AND LANDINGS CAPABLE OF WITHSTANDING 100 POUNDS PER SQUARE FOOT. LANDING DIMENSIONS SHALL NOT BE LESS THAN 18 INCHES (18") AND NOT LESS THAN THE WIDTH OF THE LADDER. A GUARD RAIL SHALL BE PROVIDED ON ALL OPEN SIDES OF THE LANDING.



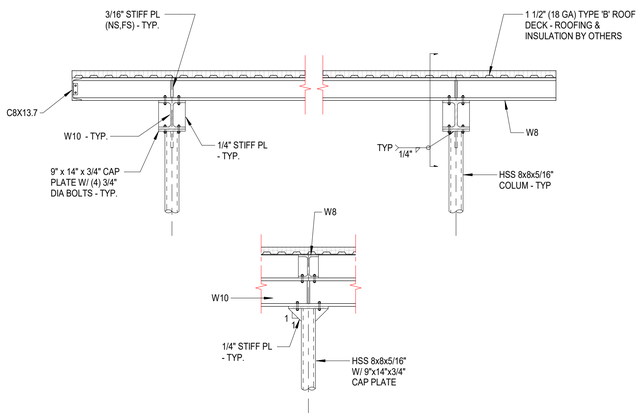
STAIR CHANNEL / GRATING (WEST SIDE)



STAIR CHANNEL / GRATING (EAST SIDE)

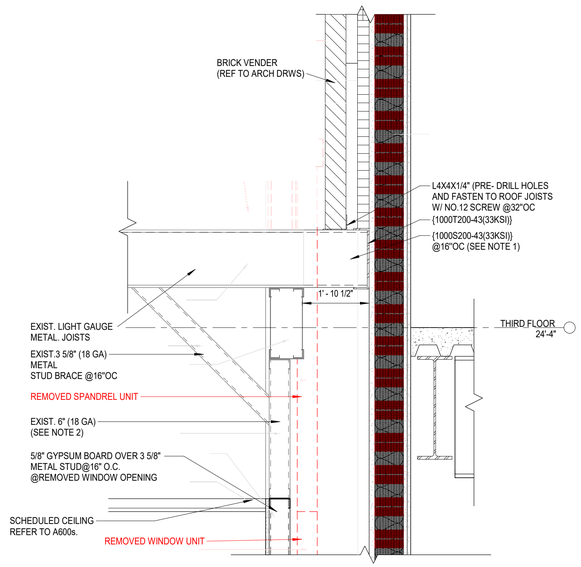


3 STAIR SECTION
N.T.S.



SECTION

4 CANOPY SECTION
N.T.S.



NOTE:
1. SISTER EXISTING 10"(18 GA) ROOF JOISTS WITH NEW 10" (18 GA) JOISTS - FASTEN WITH (3) NO. 8 SELF- DRILLING SCREWS @12" OC.
2. REINFORCE EXISTING STUDS WITH ADDITIONAL 6"(18 GA) STUD -FASTER TO EXISTING STUD WITH (2) NO. 6 SELF DRILLING SCREWS @16"OC

5 SECTION
N.T.S.

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Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.1676.00

Client Name
OSSINING UNION FREE SCHOOL DISTRICT

Project Name
2024 BOND: PHASE 1

OSSINING HIGH SCHOOL: LOCKER ROOM & CTE ADDITION

Project Address
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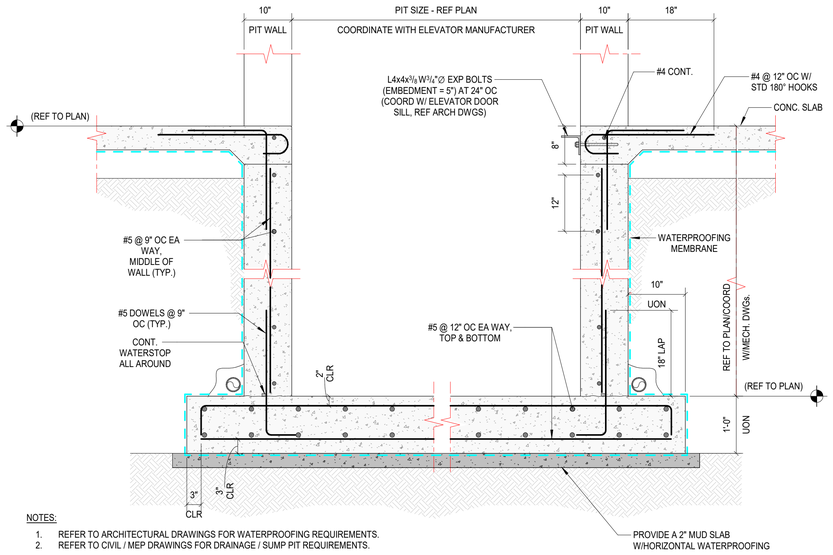
Project Status
BID DOCUMENTS

Drawn By	Checked By
MH	NH

Drawing Title
STRUCTURAL DETAILS

Drawing Number
OHS S714

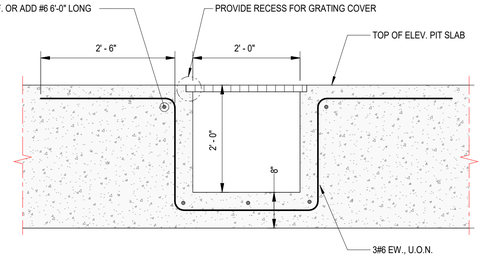
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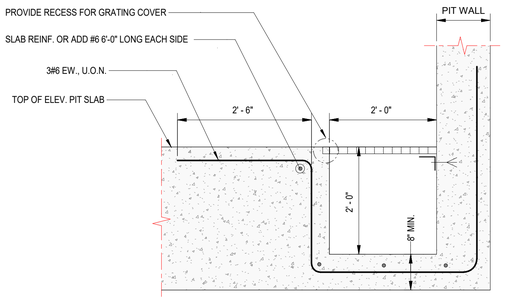
NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING REQUIREMENTS.
2. REFER TO CIVIL / MEP DRAWINGS FOR DRAINAGE / SUMP PIT REQUIREMENTS.

1 TYP. ELEVATOR PIT
NTS

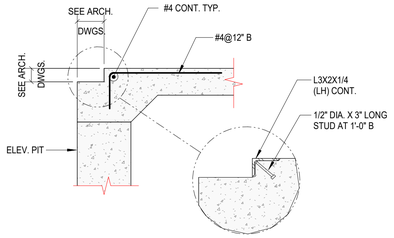


2 TYP. ELEVATOR SUMP PIT REINF.
N.T.S.

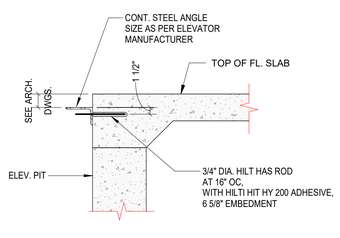


NOTE:

1. PIT SLAB / WALL REINFORCEMENT NOT SHOWN FOR CLARITY



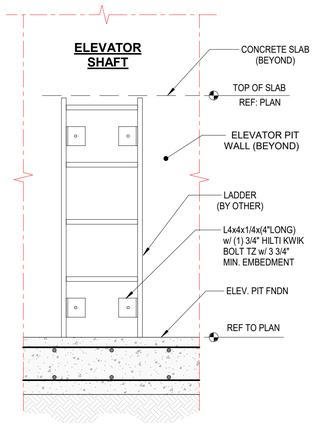
ON RECESS IN CONCRETE



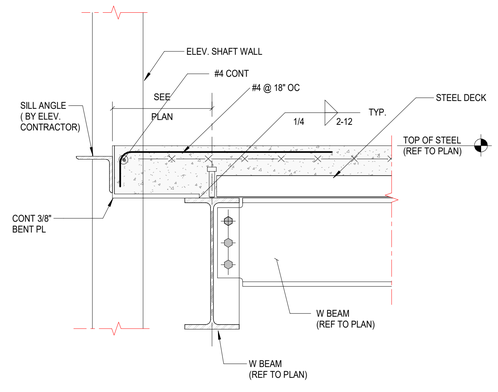
ON STEEL ANGLE

3 TYP. ELEV. PIT SILL DETAIL
N.T.S

REFERENCE DETAIL
A FOR ADDITIONAL
INFORMATION NOT
SHOWN.



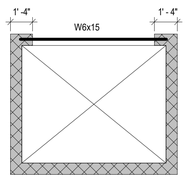
4 TYP. ELEV PIT LADDER
NTS



NOTE:

1. DECK ORIENTATION MAY VARY.

5 TYP. ELEVATOR SILL
N.T.S.

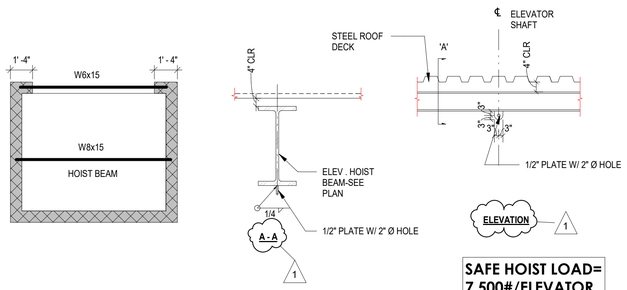


NOTES:

1. PROVIDE A MINIMUM OF 12" BEARING AT W6 AND FILL ALL CELLS BELOW SOLID.
2. PROVIDE A 8"x6"x 1/4" BEARING PLATE AT EACH END OF W6 W/ ONE (1) 3/4" DIA SHEAR STUD ON BOTTOM - MAINTAIN 1" MIN CLEARANCE FROM FACE OF CMU OPENING.
3. PROVIDE DAYTON SUPERIOR REBAR COUPLERS TOP AND BOTTOM OF W6 AT ALL REINF LOCATIONS.
4. SET BOTTOM OF W6 BEAM AT TOP OF ROUGH OPENING HEIGHT - COORD WITH ARCH.

ELEV SHAFT TEMP CONSTRUCTION PLAN

6 ELEV SHAFT FRAMING AT EACH FLOOR
NTS



**SAFE HOIST LOAD=
7,500#/ELEVATOR**

NOTES:

1. PROVIDE A MINIMUM OF 12" BEARING AT W6 AND FILL ALL CELLS BELOW SOLID.
2. PROVIDE A 8"x6"x 1/4" BEARING PLATE AT EACH END OF W6 W/ ONE (1) 3/4" DIA SHEAR STUD ON BOTTOM - MAINTAIN 1" MIN CLEARANCE FROM FACE OF CMU OPENING.
3. PROVIDE DAYTON SUPERIOR REBAR COUPLERS TOP AND BOTTOM OF W6 AT ALL REINF LOCATIONS.
4. SET BOTTOM OF W6 BEAM AT TOP OF ROUGH OPENING HEIGHT - COORD WITH ARCH.

ELEV SHAFT TEMP CONSTRUCTION PLAN

7 ELEV SHAFT FRAMING AT ROOF
NTS

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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING
UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.1671.00

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. 66-14-01-03-0-003-047

Connolly Engineering, PLLC

36 Grist Mill Lane
Pleasant Valley, NY 12569
www.connollyengineering.com

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/26	BID ADDENDUM NO.1

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SHEET INFORMATION

Issued
04/27/2026

Scale
As indicated

Project Status
BID DOCUMENTS

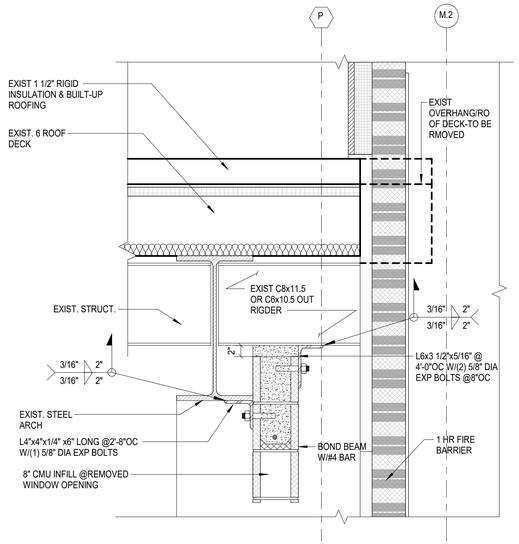
Drawn By
MH

Checked By
NH

Drawing Title
ELEVATOR DETAILS

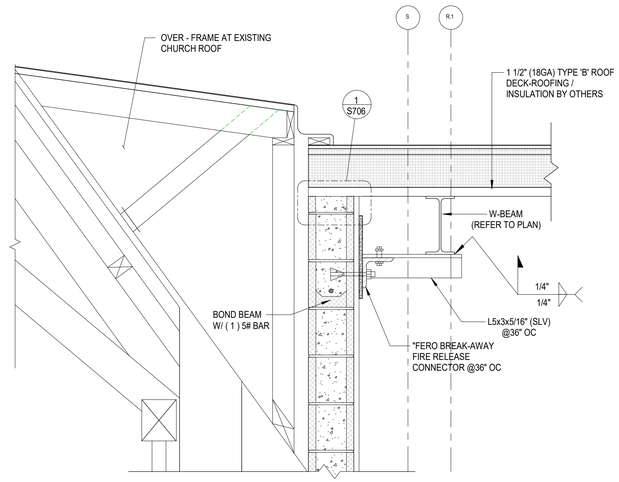
Drawing Number
OHS
S715

5/8/2026 10:31:58 AM PROJECT FILES ON ACC



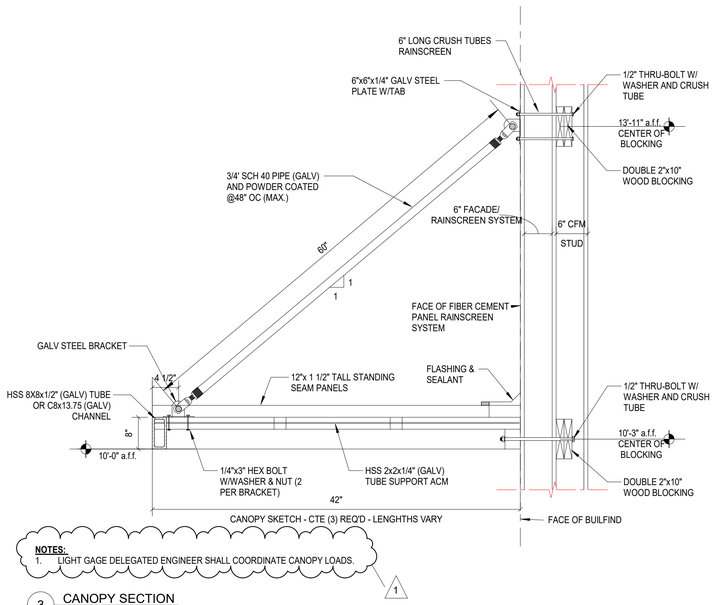
NOTE :
1. FILL TOP COURSE SOLID.
2. WHERE TOP COURSE IS LESS THAN ONE FULL COURSE DUE TO ARCH, FILL PARTIAL TOP COURSE AND FULL COURSE BELOW SOLID.

1 DETAIL
N.T.S.



NOTE:
1. FILL TWO FULL COORSUS AT THE TOP SOLID.

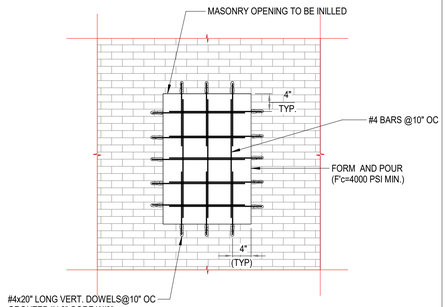
2 SECTION
NTS



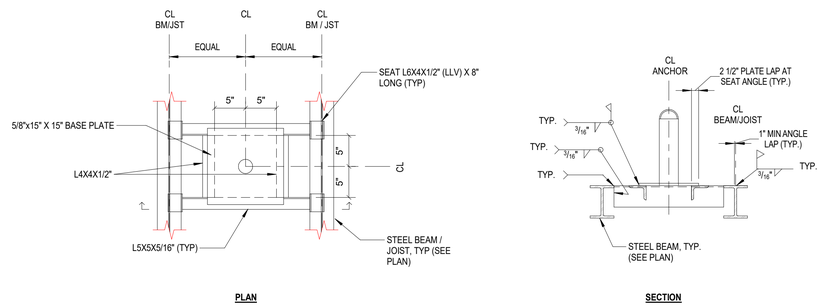
NOTES:
1. LIGHT GAGE DELEGATED ENGINEER SHALL COORDINATE CANOPY LOADS.

1

3 CANOPY SECTION
N.T.S.



4 TYP MASONRY WALL INFILL
N.T.S.



NOTES:
1. MAXIMUM ALLOWED LOAD PER ANCHOR = 5,000 lbs.
2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.

5 FALL PROTECTION ANCHOR DETAIL
NTS

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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING
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SHEET INFORMATION

Issued
04/27/2026

Scale
As indicated

Project Status
BID DOCUMENTS

Drawn By
MH

Checked By
NH

Drawing Title
STRUCTURAL DETAILS

Drawing Number
OHS
S716

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	ROOF ELEV. (+)36' - 7½"	THIRD FLOOR ELEV. (+)24' - 4"	SECOND FLOOR ELEV. (+)12' - 6½"	FIRST FLOOR ELEV. 0' - 0"	BP# (T.O. CONC EL)	Column Locations
1		HSS 8X8X5/8			BP1 ((-)4'-6")	C1-2A
2		HSS 8X8X5/8			BP1 ((-)4'-6")	C1-4A
3		HSS 8X8X5/8			BP1 ((-)4'-6")	C1-8A
4		HSS 8X8X5/8			BP1 ((-)0'-8")	C1-12A
5			HSS 4X4X1/2		BP6 ((-)0'-8")	C2-6
6			HSS 4X4X1/2		BP6 ((-)0'-8")	C2-8
7			HSS 5X5X1/2		BP3 ((-)0'-8")	C2-10
8			HSS 6X6X1/2		BP2 ((-)1'-0")	E-12
9		HSS 8X8X5/8			BP1 ((-)1'-0")	I1-2A
10			HSS 6X6X1/2		BP2 ((-)1'-0")	I1-3
11		HSS 8X8X5/8			BP1 ((-)1'-0")	I1-4A
12			HSS 6X6X1/2		BP2 ((-)1'-0")	I1A-7
13		HSS 8X8X5/8			BP1 ((-)1'-0")	I1-8A
14			HSS 6X6X1/2		BP2 ((-)1'-0")	I1-11
15		HSS 8X8X5/8			BP1 ((-)0'-8")	I1-12A
16			HSS 5X5X1/2		BP3 ((-)0'-8")	M-12A
17		HSS 8X8X5/8			BP1 ((-)4'-6")	M2-2A
18		HSS 8X8X5/8			BP1 ((-)4'-6")	M2-4A
19		HSS 8X8X5/8			BP1 ((-)4'-6")	M2-8A
20		HSS 8X8X5/8			BP1 ((-)0'-8")	M2-12A
21		HSS 5X5X1/2			BP3 ((-)5'-0") VIF	M-1'
22		HSS 5X5X1/2			BP3 ((-)5'-0") VIF	M3-1'

COLUMN SCHEDULE - HIGH SCHOOL / LOCKER ROOM ADDITION

	ROOF ELEV. (+)36' - 7½"	SECOND FLOOR ELEV. (+)24' - 4"	FIRST FLOOR ELEV. (+)12' - 6½"	BP# (T.O. CONC EL)	Column Locations
1		HSS 8X8X5/16"		BP6 ((-)0'-8")	4'-A'c
2		HSS 8X8X5/16"		BP6 ((-)0'-8")	5'-A'c'
3		HSS 8X8X5/16"		BP6 ((-)0'-8")	5'c-B'
4		HSS 8X8X5/16"		BP6 ((-)0'-8")	6'-A'

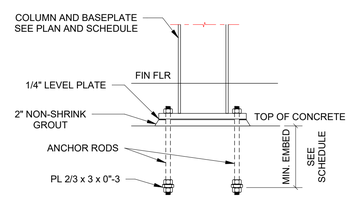
COLUMN SCHEDULE - ENTRANCE CANOPY ADDITION

	ROOF ELEV. (+)36' - 7½"	THIRD FLOOR ELEV. (+)24' - 4"	SECOND FLOOR ELEV. (+)12' - 6½"	FIRST FLOOR ELEV. (-) 2' - 11"	BP# (T.O. CONC EL)	Column Locations
1		HSS 6X6X1/2			BP3 ((-)3'-11")	A-15
2		HSS 5X5X1/2			BP3 ((-)3'-11")	A-18
3		HSS 6X6X1/2			BP3 ((-)3'-11")	A-22
4		HSS 5X5X1/2			BP3 ((-)3'-11")	A-24
5		HSS 6X6X1/2			BP3 ((-)3'-11")	A-25
6			HSS 5X5X1/4		BP4 ((-)3'-11")	A-26
7			HSS 6X6X1/4		BP4 ((-)3'-11")	A1-26
8		HSS 5X5X1/2			BP3 ((-)3'-11")	D1-15
9		HSS 6X6X1/2			BP2 ((-)3'-11")	D1-19
10		HSS 6X6X1/2			BP2 ((-)3'-11")	D1-22
11		HSS 9X6X1/2			BP5 ((-)3'-11")	D1-24
12		HSS 6X6X1/2			BP2 ((-)3'-11")	D1-25
13			HSS 5X5X1/4		BP4 ((-)3'-11")	D2-26
14		HSS 5X5X5/16			BP4 ((-)3'-11")	J-25
15			HSS 5X5X1/4		BP4 ((-)3'-11")	J-26
16		HSS 5X5X1/2			BP31 ((-)3'-11")	J1-15
17		HSS 9X6X1/2			BP5 ((-)3'-11")	J1-19
18		HSS 5X5X3/8			BP3 ((-)3'-11")	J1-22
19		HSS 5X5X1/2			BP3 ((-)3'-11")	M-17
20		HSS 5X5X1/2			BP3 ((-)3'-11")	M-19
21		HSS 5X6X3/8			BP3 ((-)3'-11")	M1-22
22		HSS 6X6X1/2			BP2 ((-)1'-11")	M2-22
23		HSS 5X6X1/2			BP3 ((-)3'-11")	Q-21
24		HSS 5X5X3/8			BP2 ((-)3'-11")	R1-17
25		HSS 5X6X3/8			BP3 ((-)3'-11")	S-21
26		HSS 5X5X1/4			BP4 ((-)2'-11")	T-14
27		HSS 5X6X1/4			BP4 ((-)3'-11")	T-16
28		HSS 5X6X3/8			BP3 (0'-0")	M-13A
29		HSS 5X6X3/8			BP3 (0'-0")	M2-13A

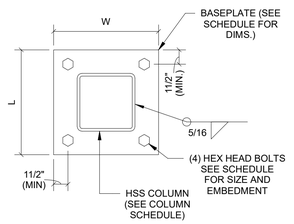
COLUMN SCHEDULE - CTE ADDITION

BASEPLATE SCHEDULE							
BASEPLATE NO.	WIDTH W (in.)	LENGTH L (in.)	BASEPLATE THICKNESS (in.)	COLUMN OFFSET (in.)	ANCHOR BOLT DIA (in.)	EMBEDMENT (in.)	NOTES
BP1	17	17	1 7/8"	N/A	1"	12	1,2
BP2	13	13	1"	N/A	3/4"	10	1,2
BP3	13	13	1 3/8"	N/A	3/4"	12	1,2
BP4	12	12	1"	N/A	3/4"	10	1,2
BP5	12	16	1 1/4"	N/A	3/4"	10	1,2
BP6	17	17	1"	N/A	3/4"	10	1,2

NOTES:
1. REFER TO BASEPLATE DETAILS FOR ANCHOR BOLT LOCATIONS.
2. WHERE BASEPLATE BEARS ON EXISTING FOOTING / FOUNDATION WALL, USE EQUIVALENT POST INSTALLED ANCHORS IN LIEU OF CAST IN PLACE ANCHOR RODS.



ANCHOR ROD DETAIL



BASEPLATE
SCALE: NTS

1 COLUMN SCHEDULE
NTS

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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. 66-14-01-03-0-003-047

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36 Grist Mill Lane
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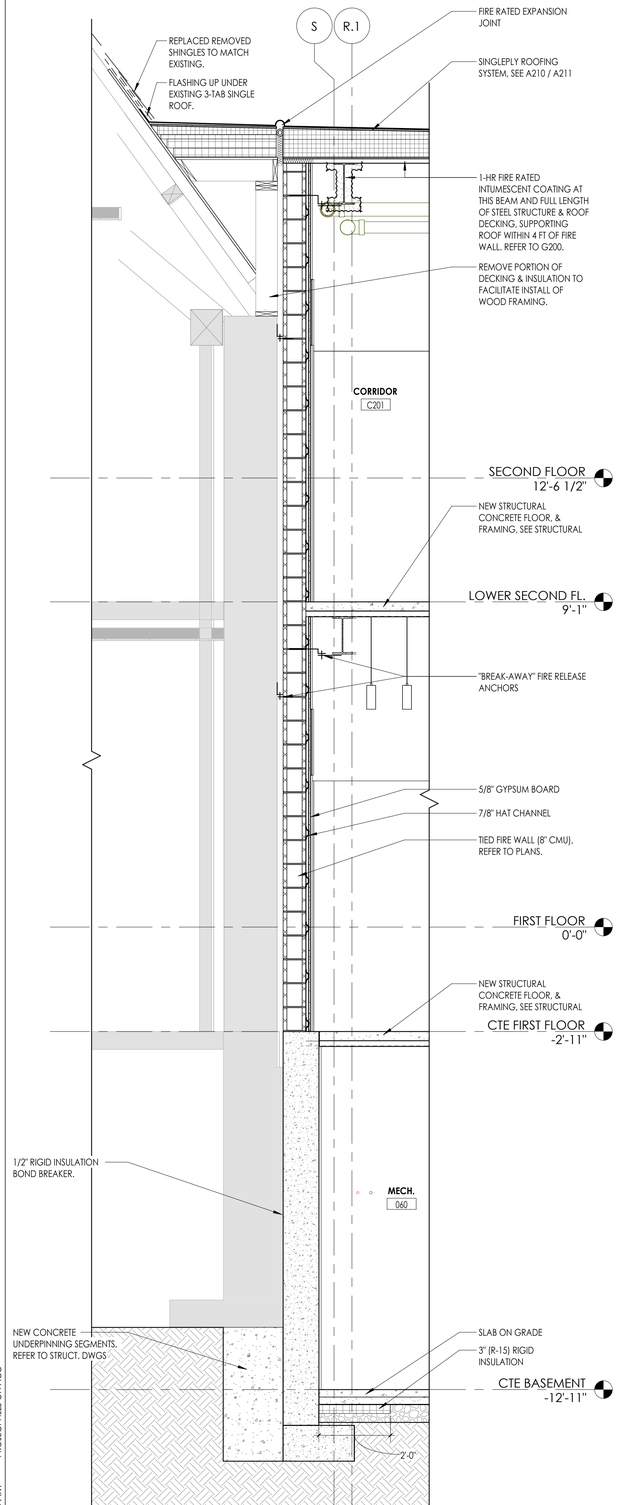
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04/27/2026	NTS

Project Status
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Drawn By	Checked By
MH	NH

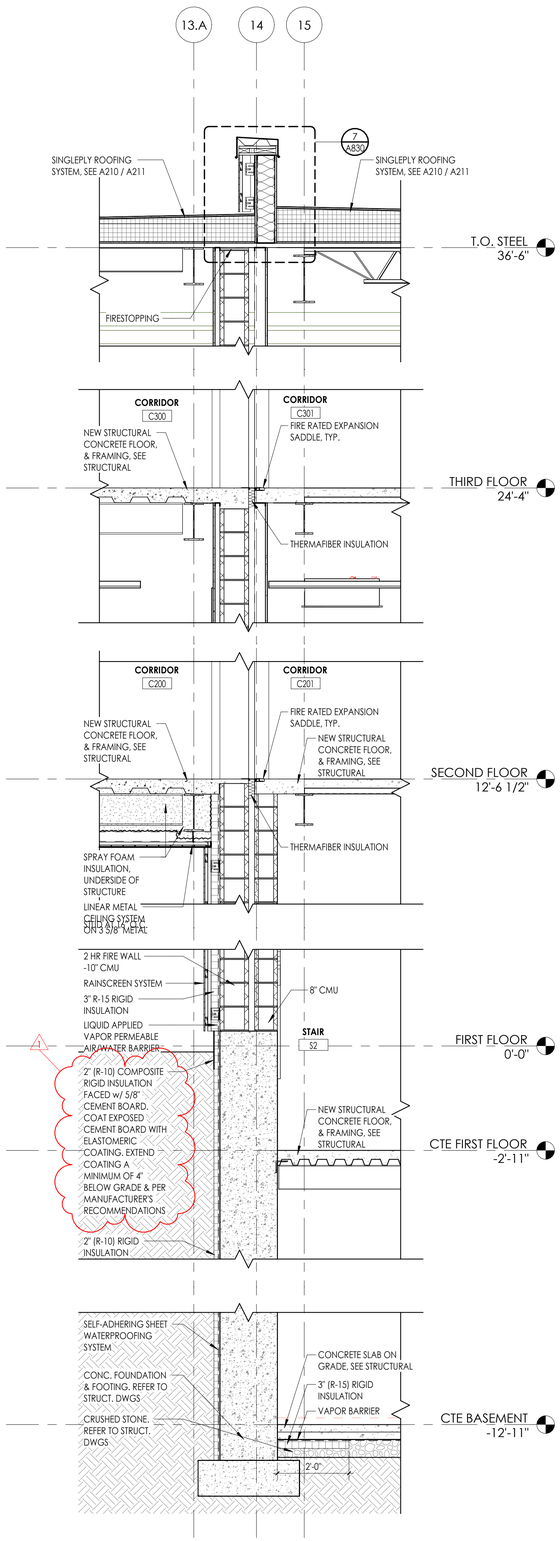
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COLUMN SCHEDULE

Drawing Number
OHS
S718



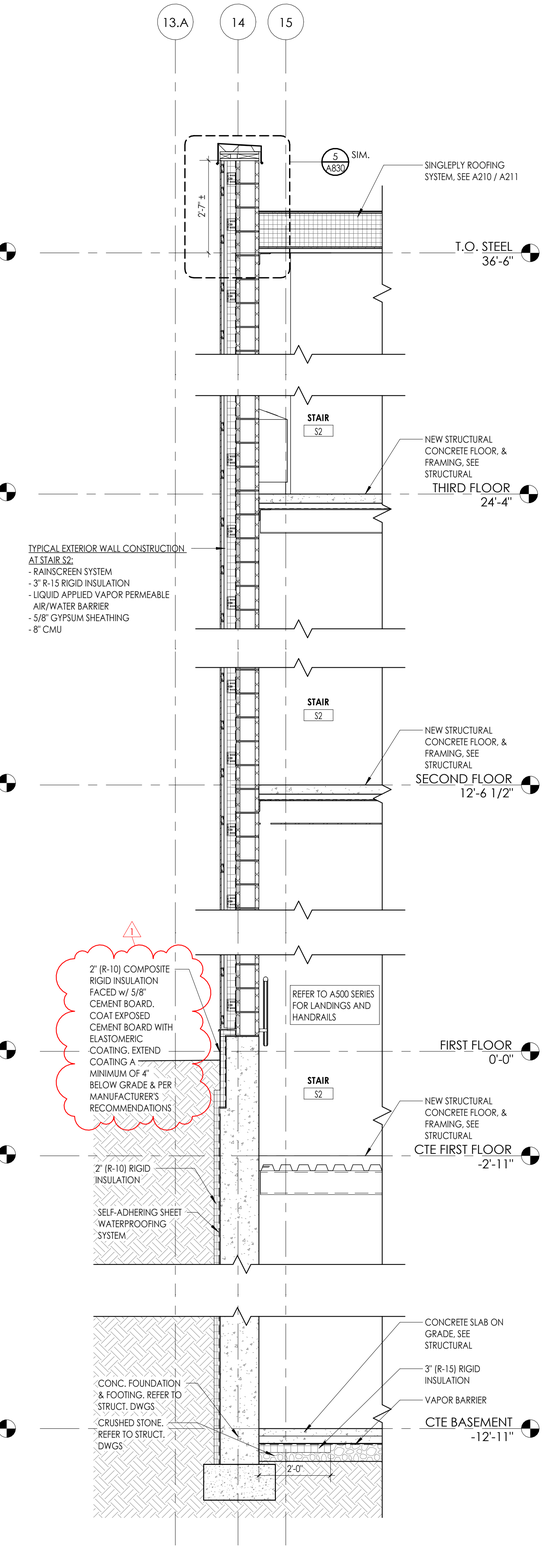
4 A452 AREA B FIRE WALL AT EXIST. BUILDING #2

1/2" = 1'-0"



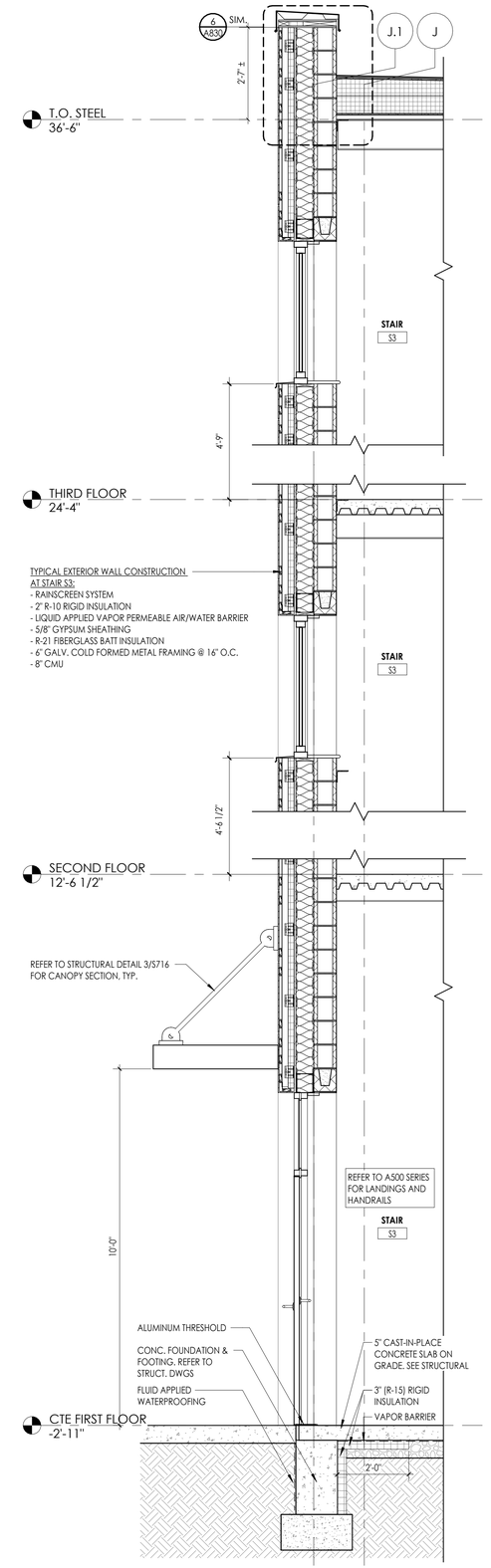
3 A452 STAIR S2 EXTERIOR WALL W/ FIRE WALL

1/2" = 1'-0"



2 A452 STAIR S2 EXTERIOR WALL

1/2" = 1'-0"



1 A452 STAIR S3 EXTERIOR WALL

1/2" = 1'-0"

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■ OSSINING HIGH SCHOOL SED NO. 66-14-01-03-0-003-047

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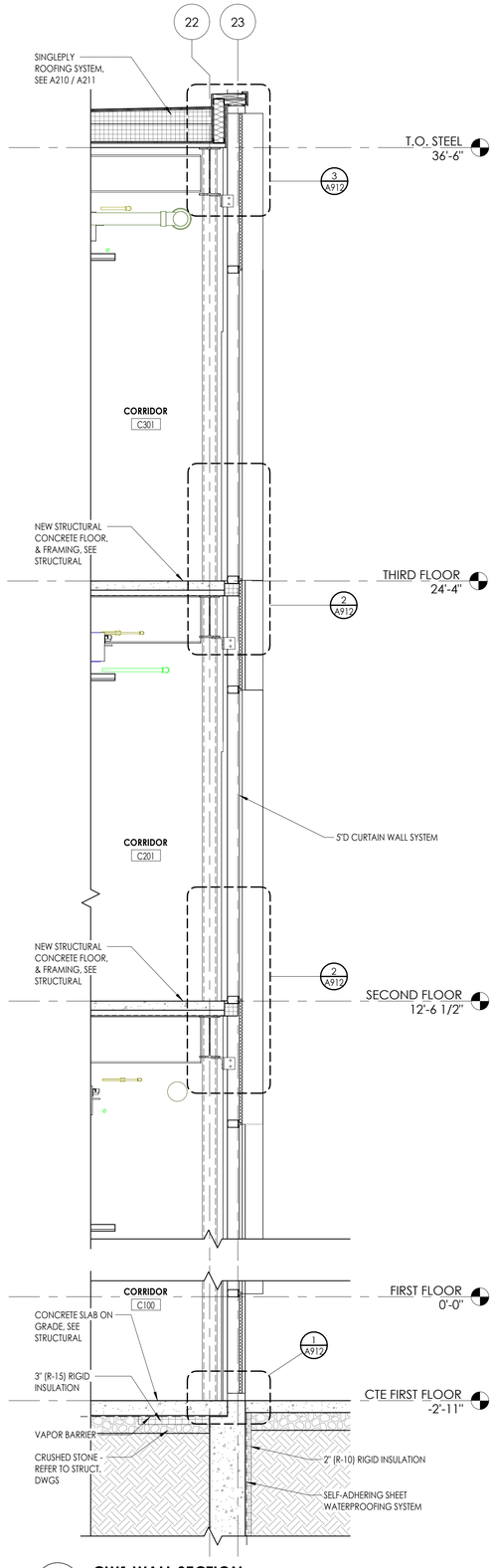
Project Status
BID DOCUMENTS

Drawn By	Checked By
CPL	CPL

Drawing Title
WALL SECTIONS - AREA B

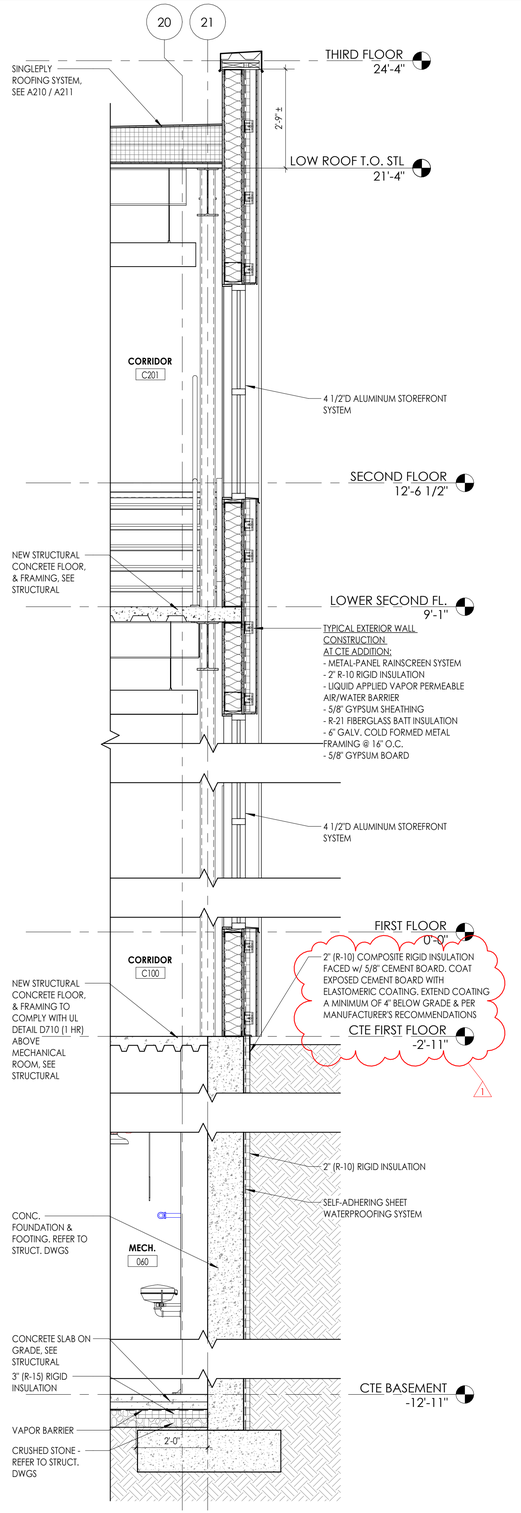
Drawing Number
OHS
A452

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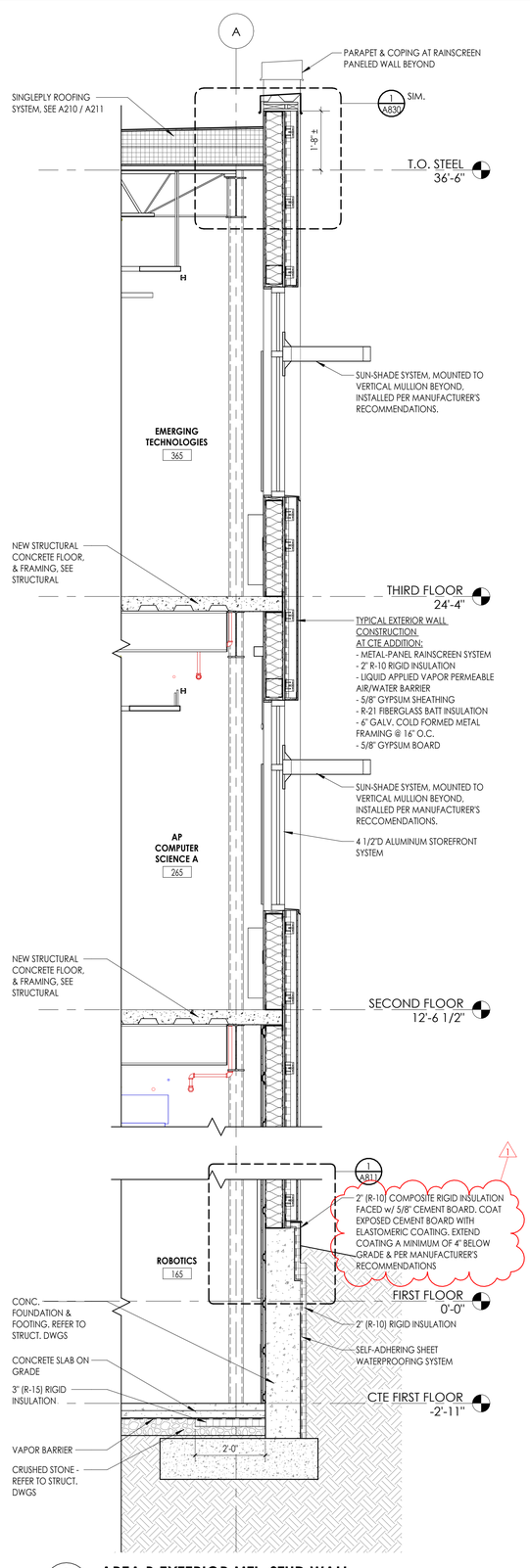
4 A453 CW1 WALL SECTION

1/2" = 1'-0"



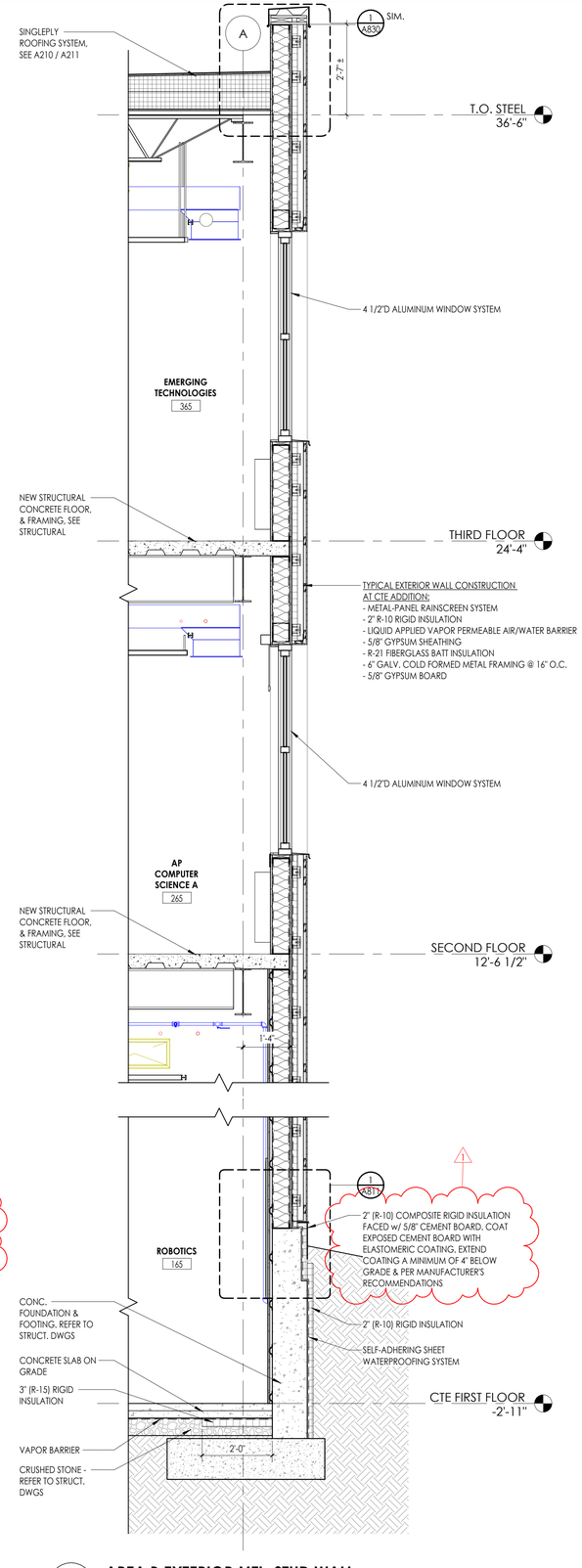
3 A453 AREA B WALL SECTION

1/2" = 1'-0"



2 A453 AREA B EXTERIOR MTL. STUD WALL

1/2" = 1'-0"



1 A453 AREA B EXTERIOR MTL. STUD WALL

1/2" = 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

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

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
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SHEET INFORMATION

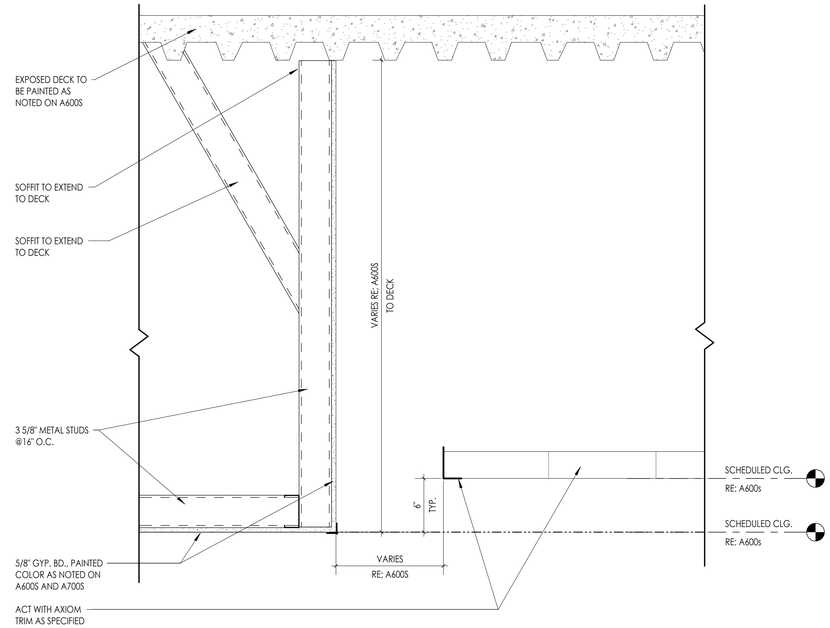
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Project Status
BID DOCUMENTS

Drawn By	Checked By
CPL	CPL

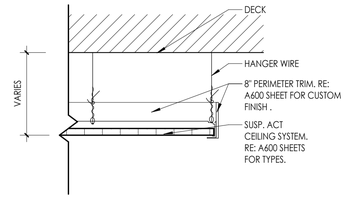
Drawing Title
WALL SECTIONS - AREA B

Drawing Number
OHS
A453



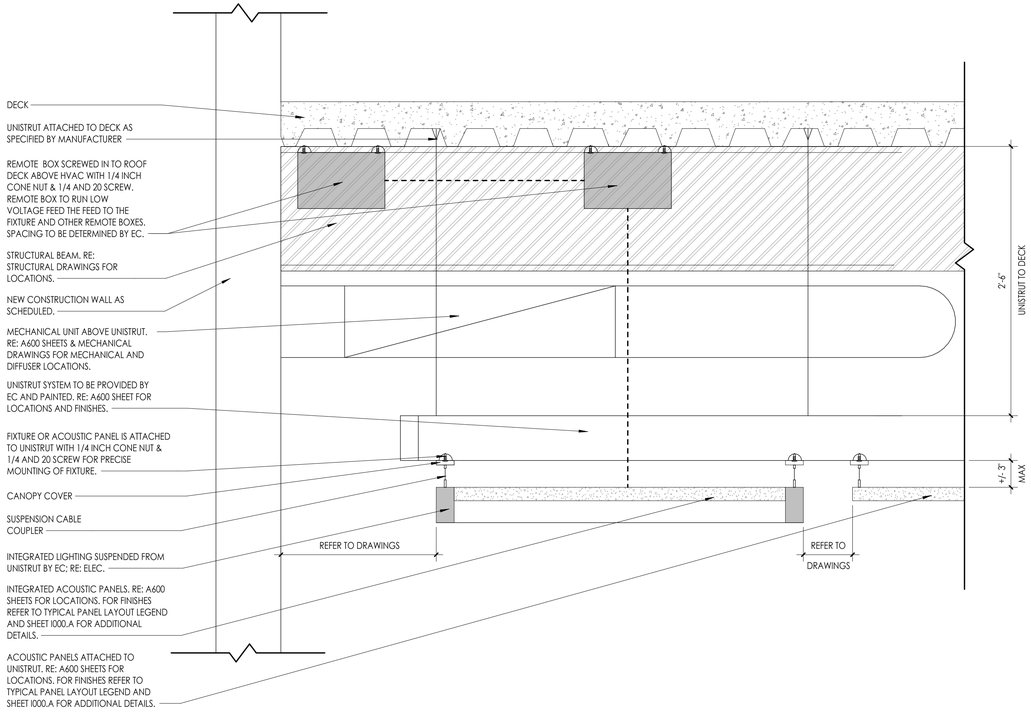
4 A811 **SOFFIT AND ACT TRANSITION IN CORRIDOR**

1 1/2" = 1'-0"



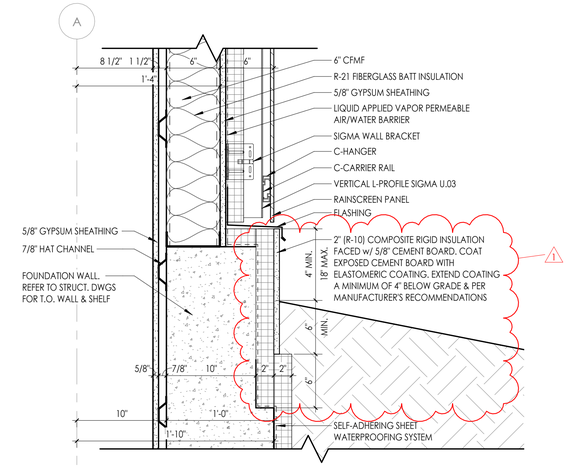
3 A811 **TYPICAL AXIOM TRIM**

1 1/2" = 1'-0"



2 A811 **CLOUD AND DECK DETAIL**

1 1/2" = 1'-0"



1 A811 **AREA B EXTERIOR MTL. STUD ON CONC. WALL SHELF DETAIL**

1 1/2" = 1'-0"

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OSSINING HIGH SCHOOL SED NO. 66-14-01-03-0-003-047

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Scale
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Project Status
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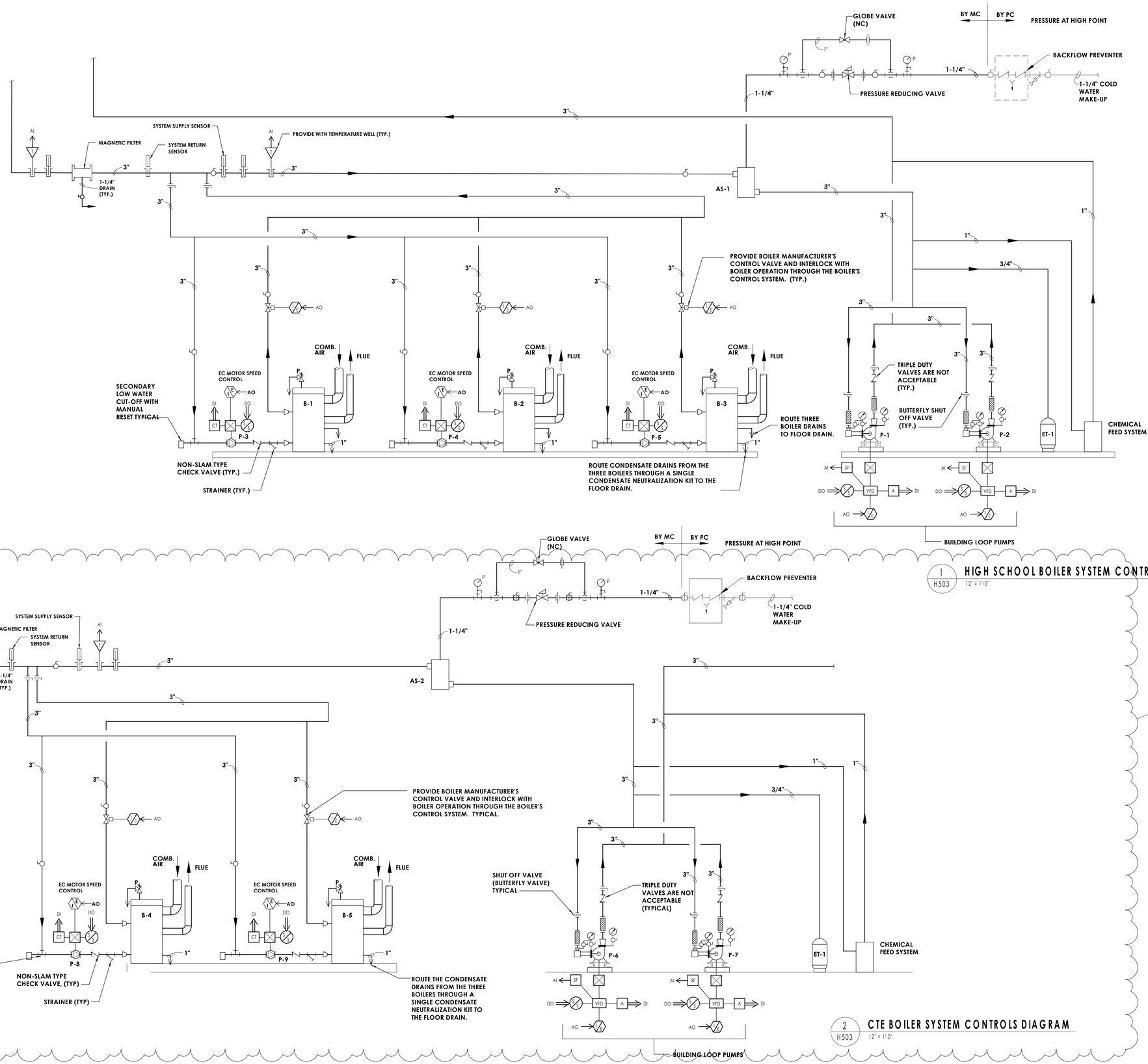
Drawn By
CPL

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CPL

Drawing Title
TYPICAL SECTION DETAILS

Drawing Number
OHS
A811

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5/7/2026 11:24:12 AM



1 H503 **HIGH SCHOOL BOILER SYSTEM CONTROLS DIAGRAM**
12" = 1'-0"

2 H503 **CTE BOILER SYSTEM CONTROLS DIAGRAM**
12" = 1'-0"

A. BOILER SYSTEMS:

1. ENABLE BOILER SYSTEM AT OUTDOOR AIR TEMPERATURES BELOW 55°F. 1-HOUR MINIMUM CHANGEOVER 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.

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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 BED NO. 66-14-01-03-0-003-047

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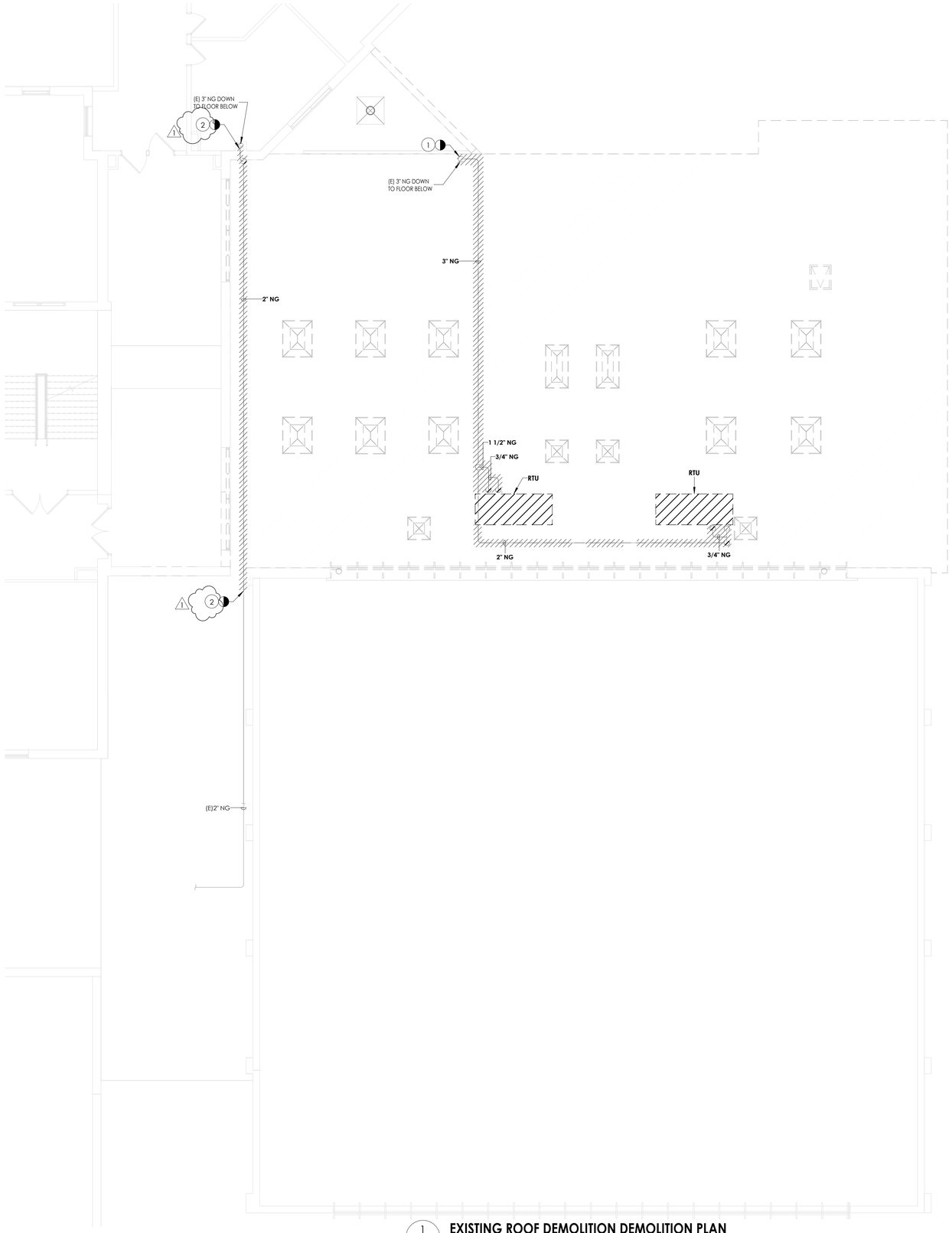
SHEET INFORMATION

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

Drawing Title
MECHANICAL CONTROLS DIAGRAMS

Drawing Number
HS H503

5/6/2026 1:13:05 PM PROJECT FILES ON ACC



1 P102 **EXISTING ROOF DEMOLITION DEMOLITION PLAN**
1/8" = 1'-0"

GENERAL NOTES

A. 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.

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 AND REMOVE GAS PIPING FROM EXISTING ROOF TOP UNITS. REMOVE AND CUT PIPING BACK TO CRAWL SPACE, MAKE SAFE, & CAP.
2 DISCONNECT AND REMOVE GAS PIPING AT POINTS INDICATED. MAKE SAFE FOR RE-ROUTING OF NEW GAS PIPING TO AUXILLARY GYM ROOF TOP EQUIPMENT.

KEY PLAN:



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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. 66-14-01-03-0-003-047

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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

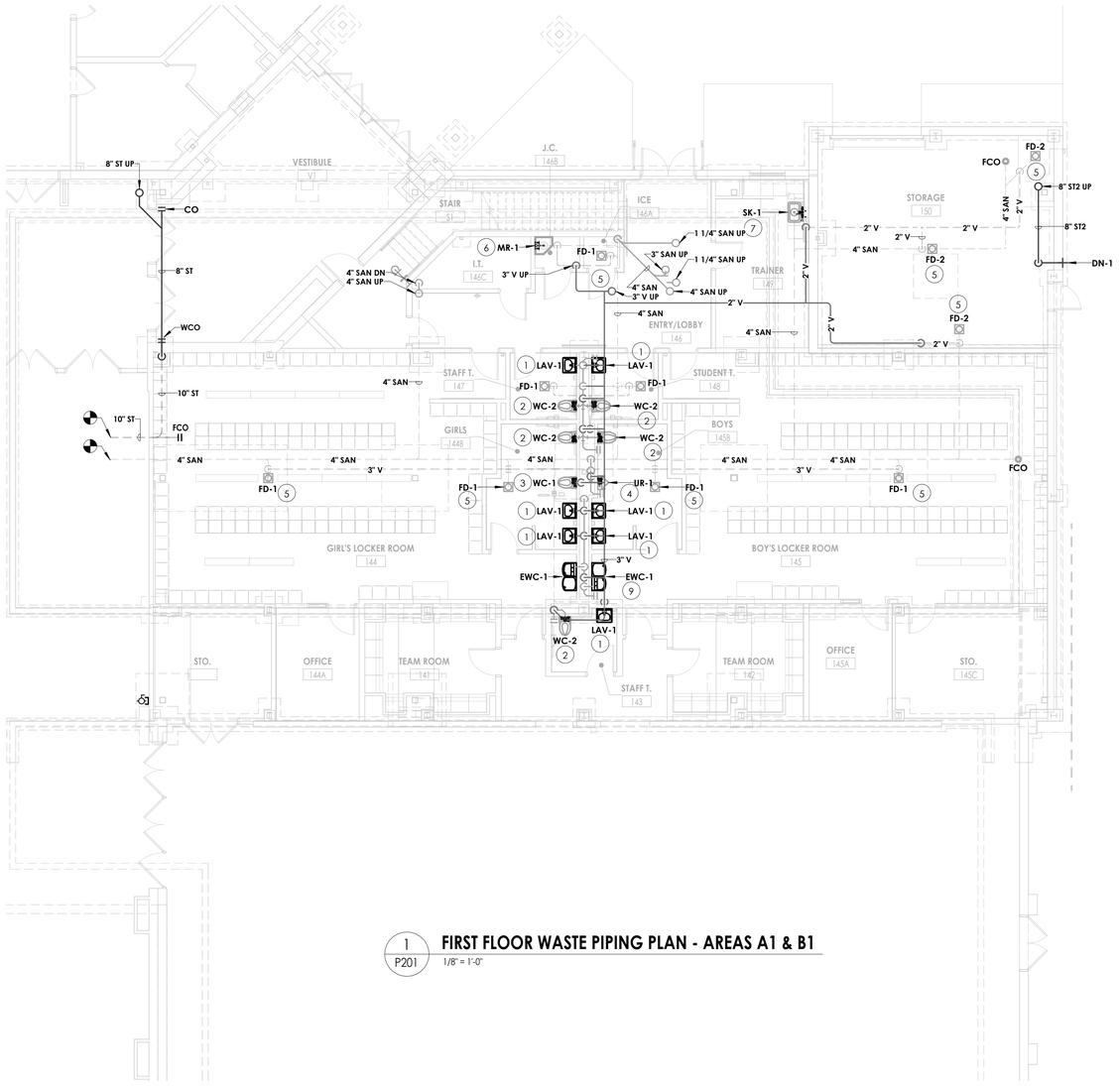
Drawing Title
EXISTING ROOF DEMOLITION PLAN

Drawing Number
OHS
P102

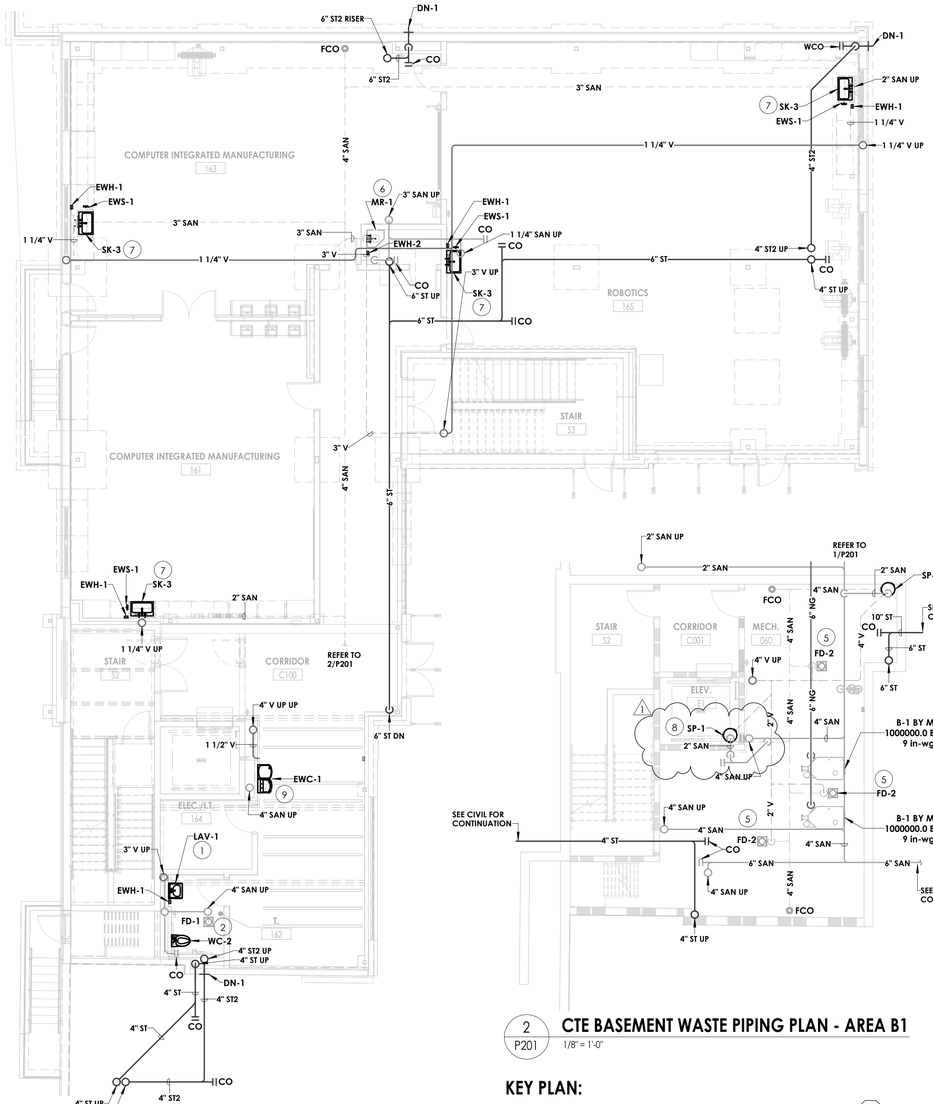
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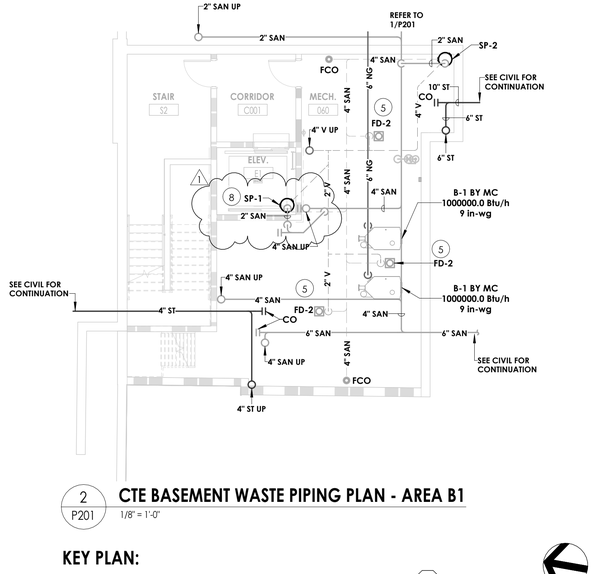
SANITARY AND VENT KEY NOTES (#)

1. PROVIDE LAVATORY AT ADA MOUNTING HEIGHT. PROVIDE CARRIER, P-TRAP, SANITARY PIPING, & VENT PIPING.
2. PROVIDE WALL HUNG WATER CLOSET AT ADA MOUNTING HEIGHT. PROVIDE CARRIER, SANITARY PIPING, & VENT PIPING.
3. PROVIDE WALL HUNG WATER CLOSET AND CARRIER, SANITARY PIPING, & VENT PIPING.
4. PROVIDE WALL HUNG URINAL AND CARRIER, SANITARY PIPING, & VENT PIPING.
5. PROVIDE FLOOR DRAIN, P-TRAP, SANITARY PIPING, VENT PIPING, & TRAP SEAL.
6. PROVIDE MOP SINK, P-TRAP, SANITARY PIPING, & VENT PIPING.
7. PROVIDE SINK, SUPPORTS, P-TRAP, SANITARY PIPING, & VENT PIPING.
8. PROVIDE SUMP PUMP IN SUMP PIT. PROVIDE DISCHARGE PIPING AND ROUTE TO BUILDING SANITARY SYSTEM WITH AN INDIRECT CONNECTION.
9. PROVIDE DRINK FOUNTAIN AND CARRIER, SANITARY PIPING, & VENT PIPING.



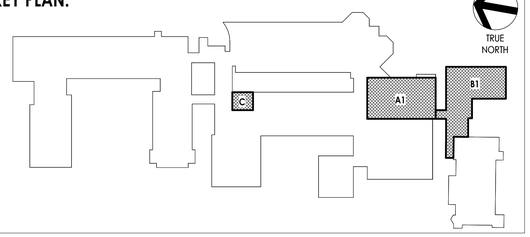
1 P201 **FIRST FLOOR WASTE PIPING PLAN - AREAS A1 & B1**
1/8" = 1'-0"





2 P201 **CTE BASEMENT WASTE PIPING PLAN - AREA B1**
1/8" = 1'-0"

KEY PLAN:



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Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING
UNION FREE SCHOOL DISTRICT

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2024 BOND: PHASE 1

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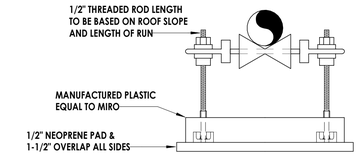
Project Status
BID DOCUMENTS

Drawn By	Checked By
MLS	JJW

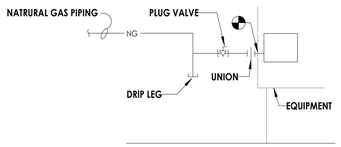
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FIRST FLOOR WASTE PIPING PLAN

Drawing Number
OHS
P201

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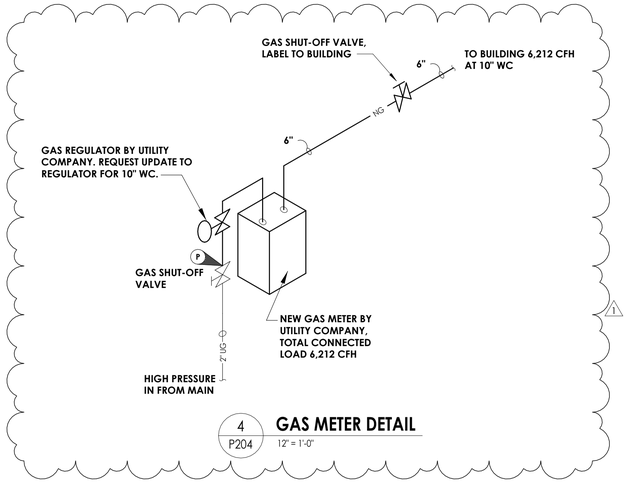
2 P204 **GAS PIPE ROOF SUPPORT DETAIL**
NTS



3 P204 **GAS CONNECTION DETAIL**
12" = 1'-0"

GAS LOAD SCHEDULE

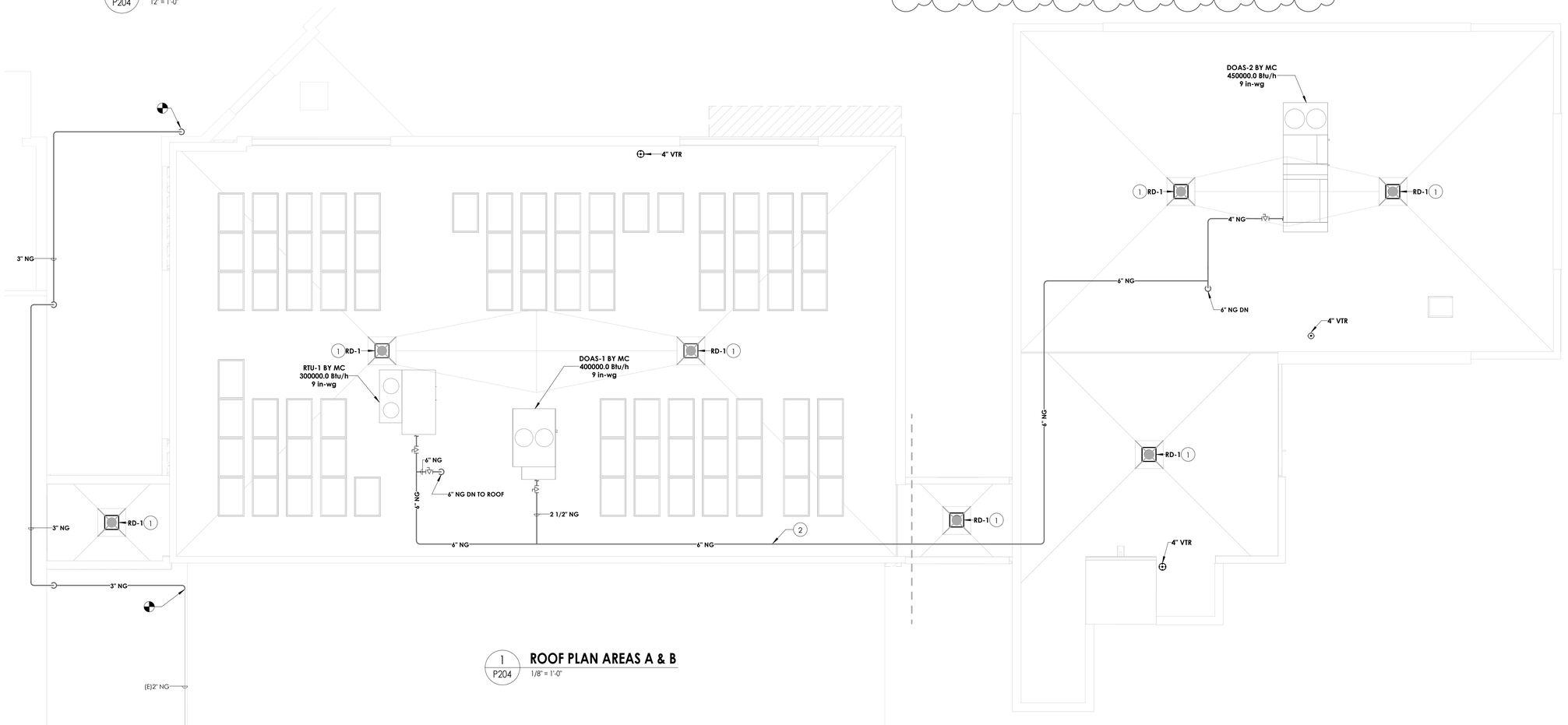
EQUIPMENT	BTU/HR INPUT	PRESSURE-IN WC		GAS TYPE
		MINIMUM	MAXIMUM	
BOILER (B-1)	1,000,000	4	14	NATURAL GAS FROM UTILITY
BOILER (B-1)	1,000,000	4	14	NATURAL GAS FROM UTILITY
BOILER (B-1)	1,000,000	4	14	NATURAL GAS FROM UTILITY
BOILER (B-1)	1,000,000	4	14	NATURAL GAS FROM UTILITY
BOILER (B-1)	1,000,000	4	14	NATURAL GAS FROM UTILITY
DOAS-1	400,000	5	14	NATURAL GAS FROM UTILITY
DOAS-2	450,000	5	14	NATURAL GAS FROM UTILITY
RTU-1	300,000	5	14	NATURAL GAS FROM UTILITY
SCIENCE CLASSROOM FIXTURES	62,000	5	10	NATURAL GAS FROM UTILITY
BUILDING TOTAL	**6,212,000**			



4 P204 **GAS METER DETAIL**
12" = 1'-0"

KEY NOTES (#)

1 PROVIDE DUAL OUTLET ROOF DRAIN SERVING STORM AND SECONDARY OVERFLOW SYSTEMS. COORDINATE WITH ROOF INSTALLATION WITH ARCHITECT AND STRUCTURAL ENGINEER.
2 PROVIDE ROOF SUPPORTS AT AN INTERVAL OF EVERY 10' (REFER TO 2/P204). PAINT EXPOSED NATURAL GAS PIPING YELLOW.



1 P204 **ROOF PLAN AREAS A & B**
1/8" = 1'-0"

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Drawing Title
ROOF PLAN

Drawing Number
OHS
P204

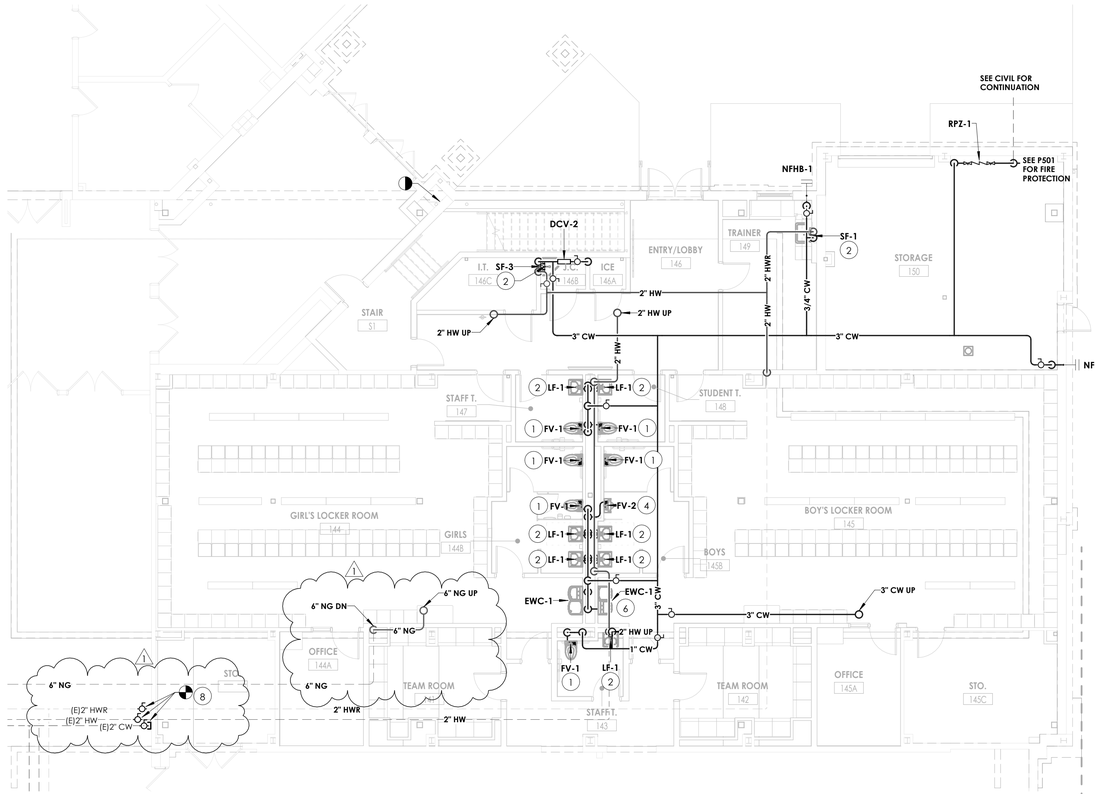
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GENERAL NOTES

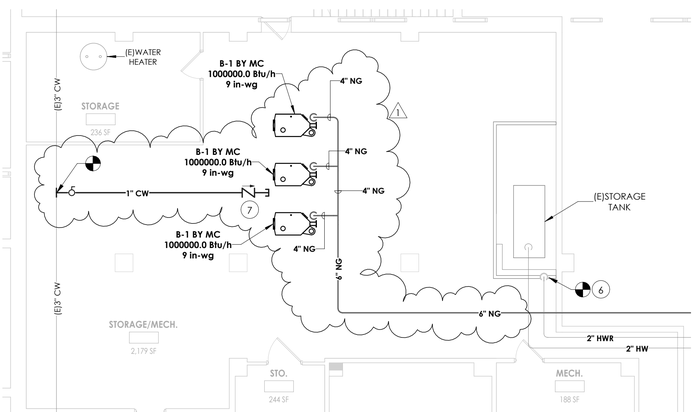
A. DOMESTIC WATER SERVICE AND FIRE SERVICE BACKFLOW PREVENTERS TO BE MOUNTED WITH CLEARANCES AS DESCRIBED IN THE NEW YORK STATE DEPARTMENT OF HEALTH GUIDELINES, UNLESS SPECIFICALLY NOTED OTHERWISE. CLEARANCES TO BE: 12" CLEAR SPACE ABOVE ASSEMBLY; 18" BELOW RELIEVE VALVE; 30" CLEAR SPACE IN FRONT OF ASSEMBLY AND 8" CLEAR SPACE BETWEEN ASSEMBLY AND WALL.

DOMESTIC WATER KEY NOTES (#)

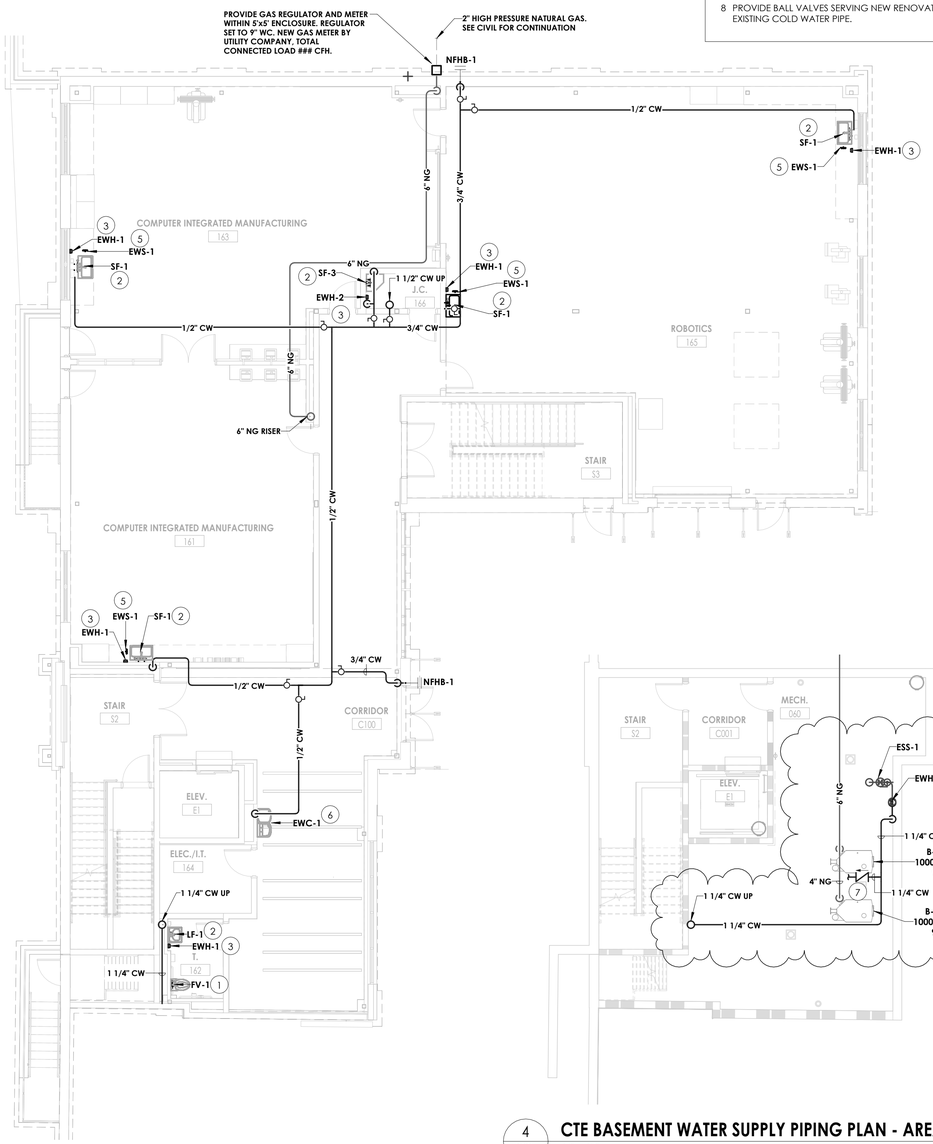
1 PROVIDE FLUSH VALVE, COLD WATER SUPPLY LINE, & SUPPLY SHUT OFF VALVE.
2 PROVIDE FAUCET, COLD & HOT WATER SUPPLY LINES, & SUPPLY SHUT OFF VALVES.
3 PROVIDE ELECTRIC POINT OF USE DOMESTIC WATER HEATER FOR ADJACENT FIXTURE. PIPE COLD AND HOT WATER TO WATER HEATER, AND PIPE HOT WATER SUPPLY TO FIXTURE. SEE DETAIL SHEET FOR PIPING CONFIGURATION.
4 PROVIDE URINAL FLUSH VALVE, COLD WATER SUPPLY LINE, & SUPPLY SHUT OFF VAVLE.
5 PROVIDE AND INSTALL EMERGENCY EYEWASH. PROVIDE WITH DEDICATED MIXING VALVE PIPED FROM DOMESTIC COLD AND HOT WATER SYSTEM.
6 PROVIDE COLD WATER SUPPLY LINE WITH SHUT OFF TO DRINKING FOUNTAIN.
7 PROVIDE 1" CW WATER LINE FOR MECHANICAL EQUIPMENT MAKE-UP WATER. PROVIDE BALL VALVE AND RPZ PRIOR TO CONNECTION TO MECHANICAL EQUIPMENT.
8 PROVIDE BALL VALVES SERVING NEW RENOVATION DOMESTIC SYSTEM. CAP EXISTING COLD WATER PIPE.



1 P301 **FIRST FLOOR DOMESTIC PIPING PLAN**
1/8" = 1'-0"

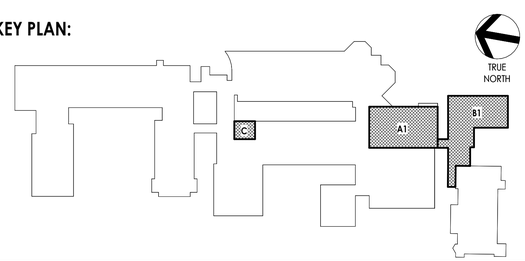


3 P301 **HIGH SCHOOL BASEMENT MECHANICAL ROOM PLAN**
1/8" = 1'-0"



4 P301 **CTE BASEMENT WATER SUPPLY PIPING PLAN - AREA B1**
1/8" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

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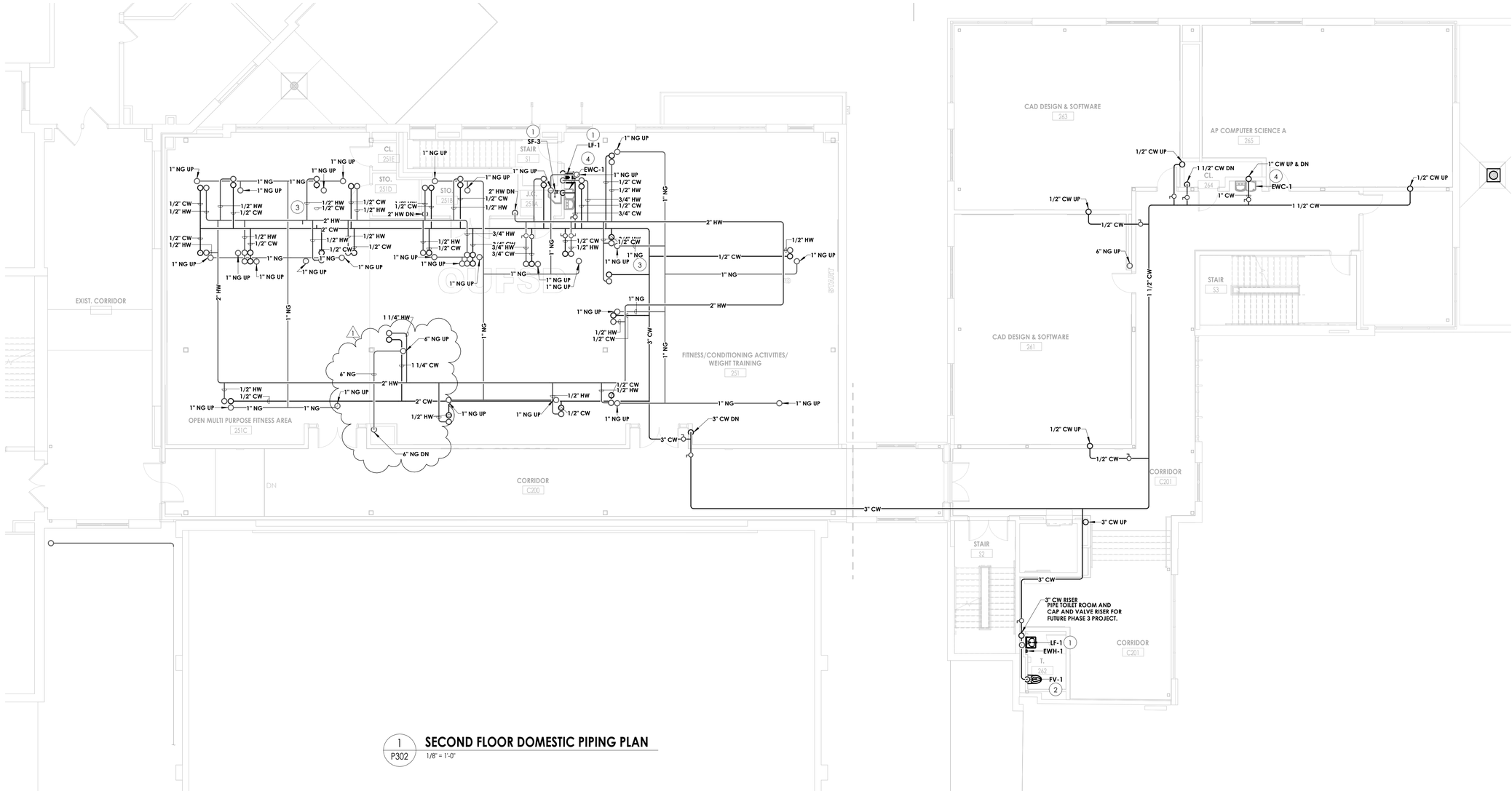
SHEET INFORMATION

Issued: 04/27/2026
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: MLS
Checked By: JJW
Drawing Title: FIRST FLOOR DOMESTIC PIPING PLAN
Drawing Number: OHS P301

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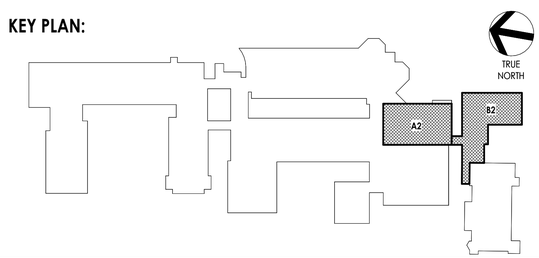
DOMESTIC WATER KEY NOTES (#)

1 PROVIDE FAUCET, COLD & HOT WATER SUPPLY LINES, & SUPPLY SHUT OFF VALVES.
2 PROVIDE FLUSH VALVE, COLD WATER SUPPLY LINE, & SUPPLY SHUT OFF VALVE.
3 INSTALL DOMESTIC COLD AND HOT WATER PIPING AT CEILING TO SERVE THIRD FLOOR FIXTURES ABOVE.
4 PROVIDE COLD WATER SUPPLY LINE WITH SHUT OFF TO DRINKING FOUNTAIN.



1 SECOND FLOOR DOMESTIC PIPING PLAN
P302 — 1/8" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

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SHEET INFORMATION

Issued
04/27/2026

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

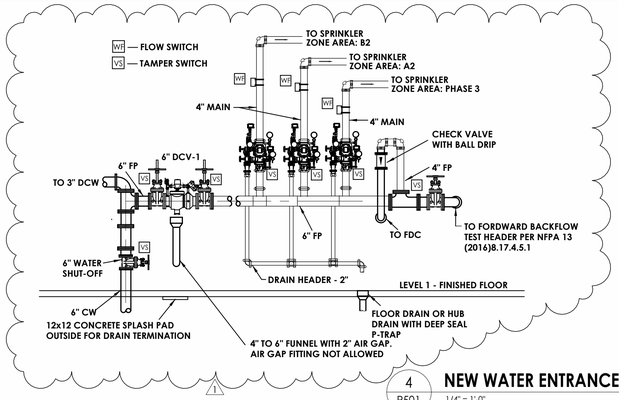
Drawn By
MLS

Checked By
JJW

Drawing Title
SECOND FLOOR DOMESTIC PIPING PLAN

Drawing Number
OHS P302

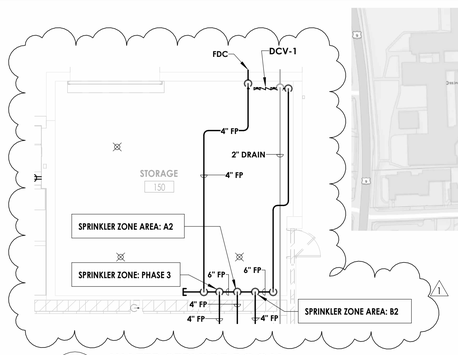
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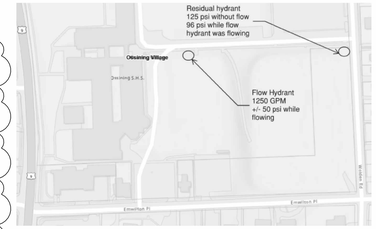


WATER NOTES:

1. ALL MATERIAL BEFORE BACKFLOW PREVENTER TO BE BRASS, COPPER OR CEMENT LINED DUCTILE IRON.
2. THE BACKFLOW PREVENTION DEVICE WALL HAVE ADEQUATE HEAT TO PROTECT FROM FREEZING.
3. THE BACKFLOW PREVENTION DEVICE WILL HAVE PROPER LIGHTING IN THE VICINITY OF THE DEVICE TO ALLOW FOR TESTING AND MAINTENANCE.
4. STRAINERS ARE RECOMMENDED PRIOR TO BACKFLOW DEVICE ON NON-FIRE FIGHTING LINES ONLY! NO STRAINER IS TO BE USED ON A FIRE LINE WITHOUT INSURANCE UNDERWRITER APPROVAL.
5. WATER LINES SHOULD BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF DEVICE TO PREVENT DEBRIS FOULING THE DEVICE CHECK VALVES.
6. ASSEMBLIES SHOULD NOT BE INSTALLED IN AREAS CONTAINING CORROSIVE OR TOXIC GASES WHICH COULD RENDER THE DEVICE INOPERABLE.
7. INSTALLATION TO BE DONE PER NFPA 13 AND ALL LOCAL AND STATE CODES.
8. PROVIDE ALL PIPING, DEVICES, AND TRIM TO PROVIDE A COMPLETE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
9. VICTAULIC FITTINGS SHALL NOT BE USED UP STREAM OF BACKFLOW PREVENTER.

4 P501 NEW WATER ENTRANCE LAYOUT
1/4" = 1'-0"





1 P501 WATER SERVICE ROOM
1/8" = 1'-0"

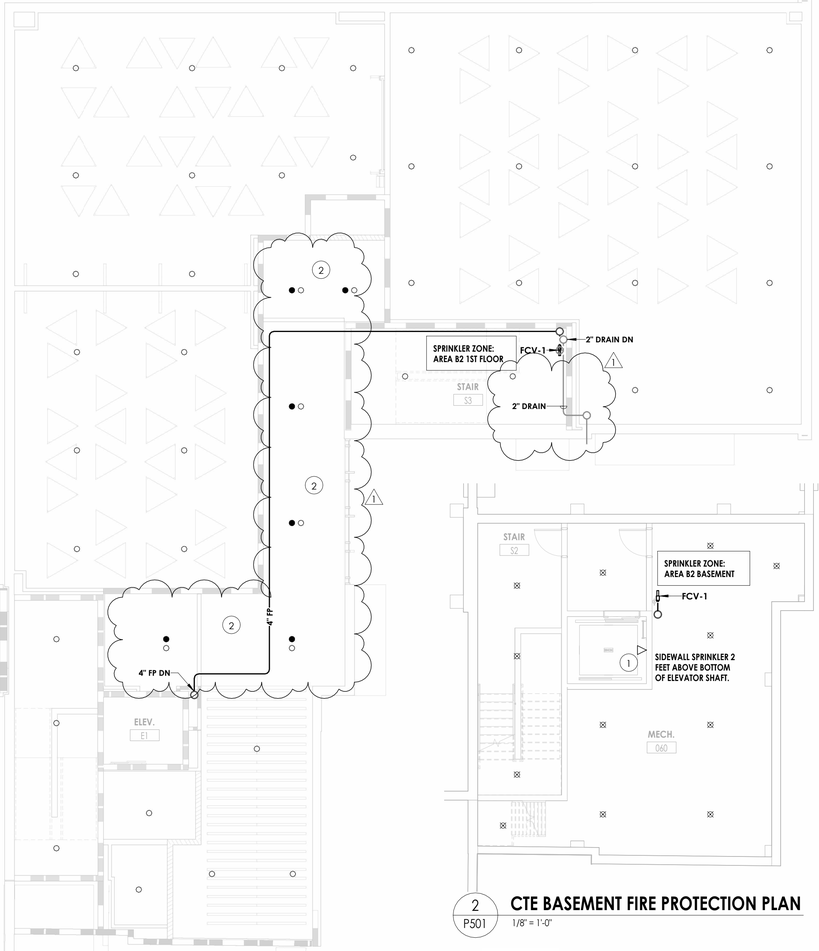
GENERAL SPRINKLER NOTES

1. SPRINKLER COVERAGE PER NFPA 13. OFFICE AREAS, CORRIDORS, CAFETERIA, AND CLASSROOMS SHALL BE LIGHT HAZARD (.10 GPM/FT²). MECHANICAL, STORAGE, AND KITCHEN ROOMS SHALL BE ORDINARY HAZARD (.15 GPM/FT²).
2. MAINS AND SPRINKLER HEADS ARE SHOWN FOR SUGGESTED LOCATION AND SIZING ONLY. CONTRACTOR TO LOCATE MAINS, ALL BRANCH PIPING AND SPRINKLER HEADS, AND SIZE PER NFPA 13 USING HYDRAULIC CALCULATIONS. COORDINATE PIPING AND SPRINKLER HEAD LOCATIONS WITH OTHER TRADES.
3. PROVIDE CONCEALED TYPE SPRINKLER HEADS WITH WHITE COVER UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND OTHER COORDINATION INFORMATION.
4. FOR BID PURPOSES, USE THE FOLLOWING HYDRANT FLOW INFORMATION:
   - 125 PSI STATIC, 50 PSI RESIDUAL, FLOWING 1250 GPM.
   - LOCATION HYDRANT ALONG HS ACCESS ROAD NEAR SOCCER FIELD. CONTRACTOR TO PROVIDE NEW HYDRANT FLOW TEST TO USE FOR SUBMITTAL CALCULATIONS.

FIRE PROTECTION KEY NOTES (#)

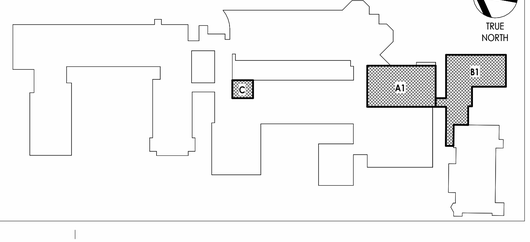
1 PROVIDE SPRINKLER AT TOP AND BOTTOM OF ELEVATOR SHAFT.
2 PROVIDE SPRINKLER HEADS ABOVE AND BELOW SUSPENDED CEILING. PENDANT SPRINKLER HEADS INDICATED TO BE INSTALLED FLUSH WITHIN CEILING PANELS. WHILE UPRIGHT HEADS ARE TO BE INSTALLED IN CEILING CAVITY ABOVE FLOATING CEILING.

3 P501 FIRST FLOOR FIRE PROTECTION PLAN
1/8" = 1'-0"



2 P501 CTE BASEMENT FIRE PROTECTION PLAN
1/8" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPIteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued: 04/27/2026
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: MLS
Checked By: JJW
Drawing Title: FIRST FLOOR FIRE PROTECTION PLAN
Drawing Number: OHS P501

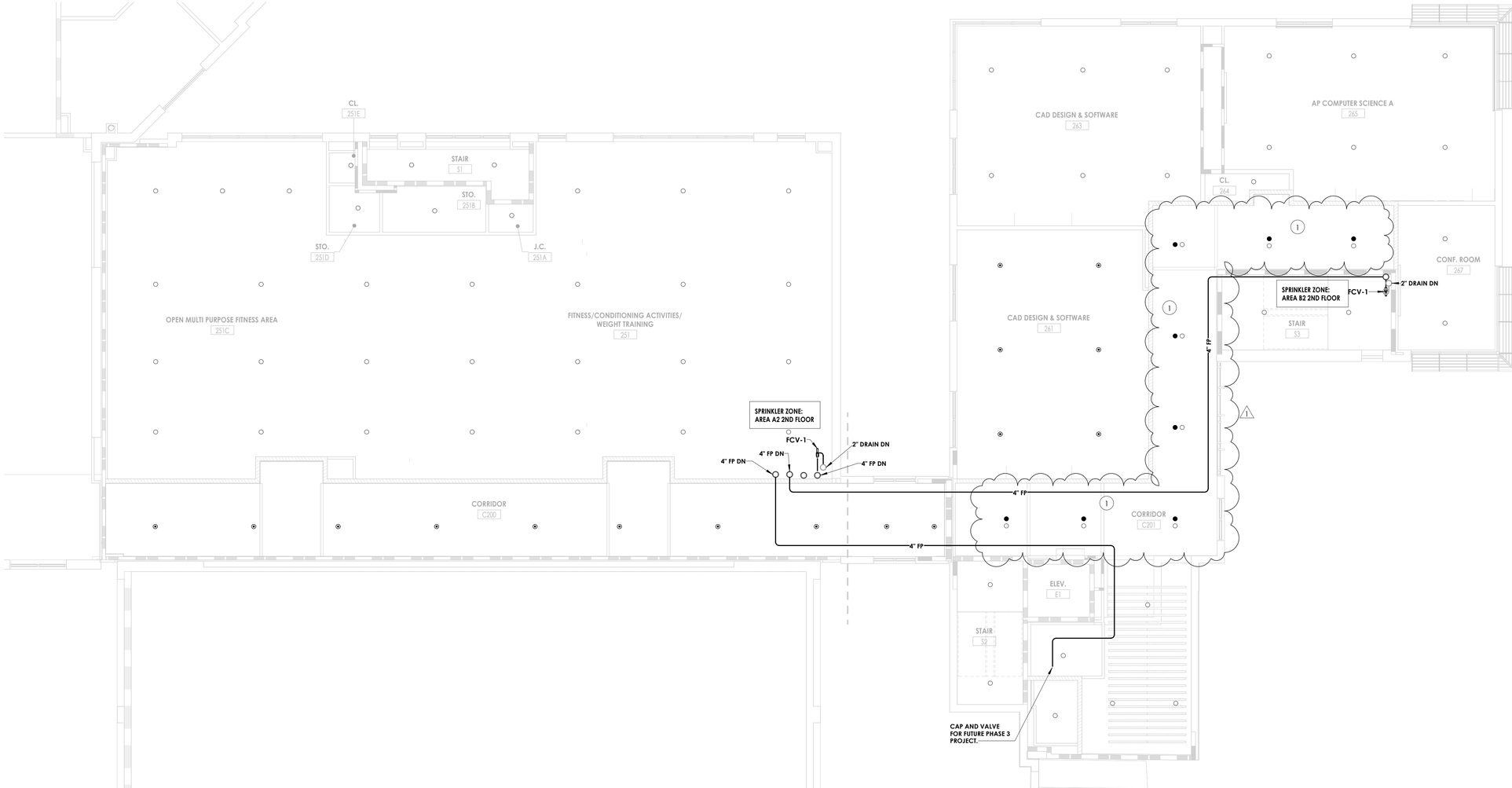
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GENERAL SPRINKLER NOTES

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3. PROVIDE CONCEALED TYPE SPRINKLER HEADS WITH WHITE COVER UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND OTHER COORDINATION INFORMATION.
4. FOR BID PURPOSES, USE THE FOLLOWING HYDRANT FLOW INFORMATION:
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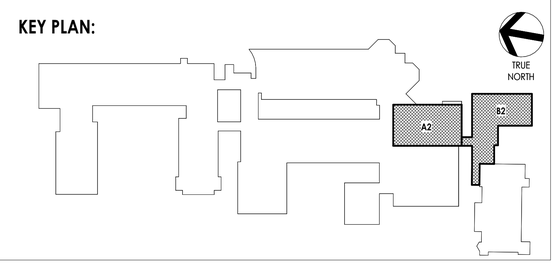
FIRE PROTECTION KEY NOTES (#)

1 PROVIDE SPRINKLER HEADS ABOVE AND BELOW SUSPENDED CEILING. PENDANT SPRINKLER HEADS INDICATED TO BE INSTALLED FLUSH WITHIN CEILING PANELS, WHILE UPRIGHT HEADS ARE TO BE INSTALLED IN CEILING CAVITY ABOVE FLOATING CEILING.



1 P502 **SECOND FLOOR FIRE PROTECTION PLAN**
1/8" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

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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
SECOND FLOOR FIRE PROTECTION PLAN

Drawing Number
OHS
P502

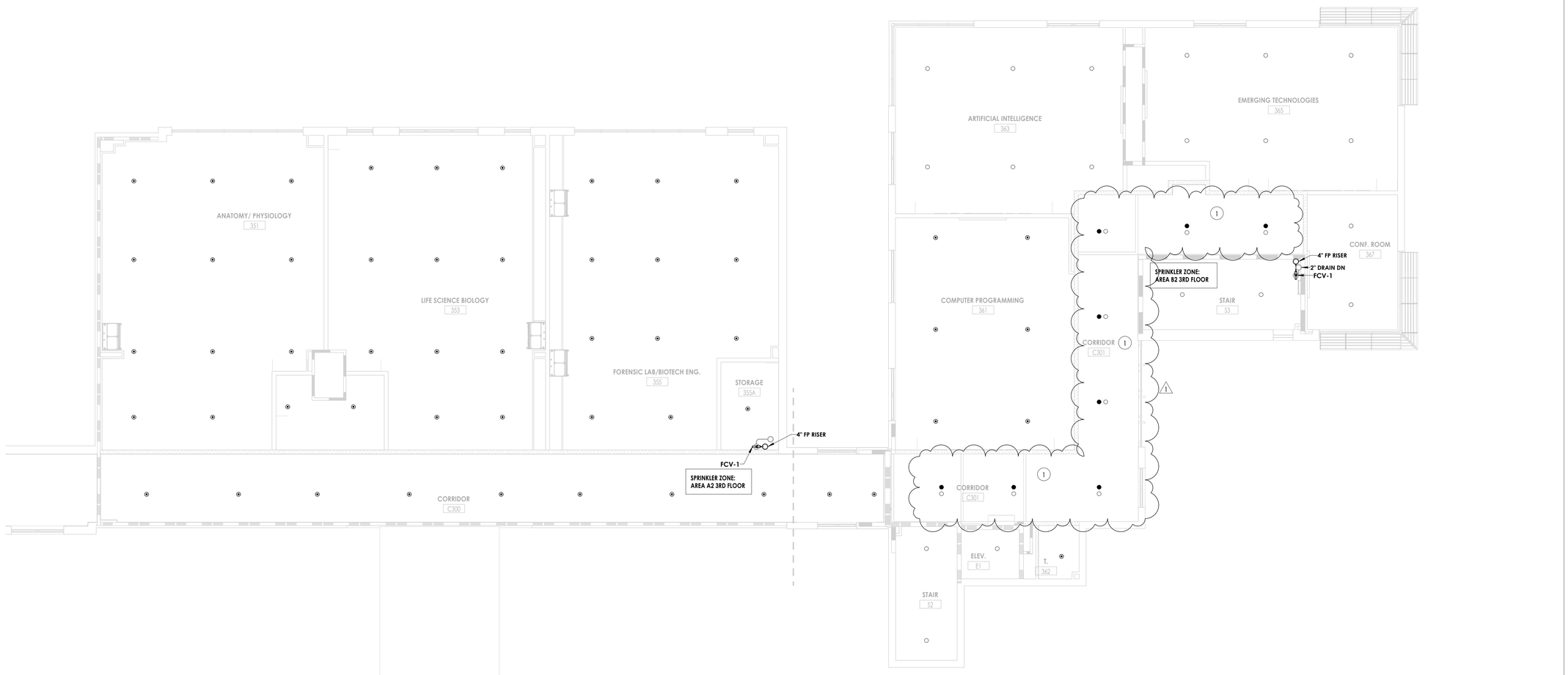
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GENERAL SPRINKLER NOTES

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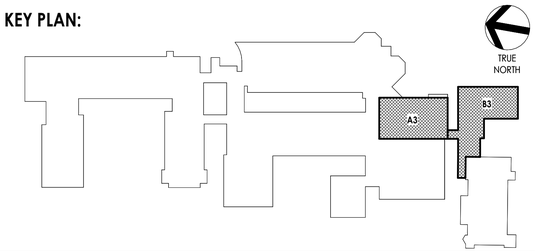
FIRE PROTECTION KEY NOTES (#)

1 PROVIDE SPRINKLER HEADS ABOVE AND BELOW SUSPENDED CEILING. PENDANT SPRINKLER HEADS INDICATED TO BE INSTALLED FLUSH WITHIN CEILING PANELS. WHILE UPRIGHT HEADS ARE TO BE INSTALLED IN CEILING CAVITY ABOVE FLOATING CEILING.



1 / P503 **THIRD FLOOR FIRE PROTECTION PLAN**
1/8" = 1'-0"

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

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Issued
04/27/2026

Scale
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Project Status
BID DOCUMENTS

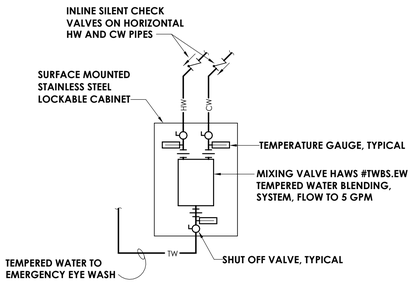
Drawn By
MLS

Checked By
JJW

Drawing Title
THIRD FLOOR FIRE PROTECTION PLAN

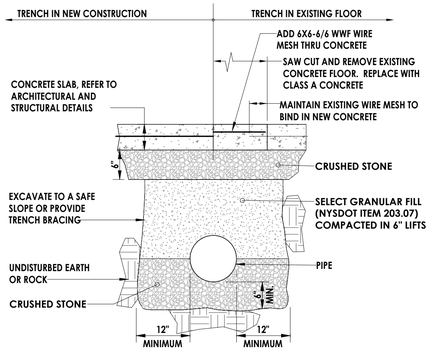
Drawing Number
OHS
P503

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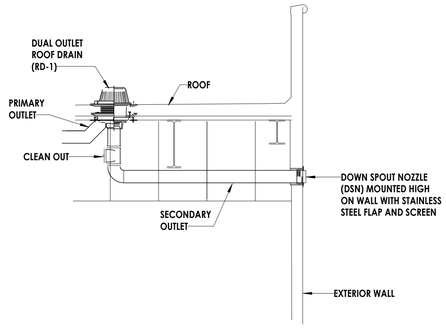


NOTE: THIS DETAIL WILL BE SIMILAR FOR EMERGENCY SHOWER WITH LARGER PIPES AND A LARGER MIXING VALVE.

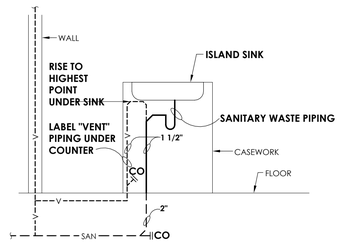
1 P800 MIXING VALVE - EMERGENCY EYE WASH DETAIL
NTS



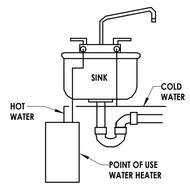
2 P800 TYPICAL PIPE TRENCH DETAIL
NTS



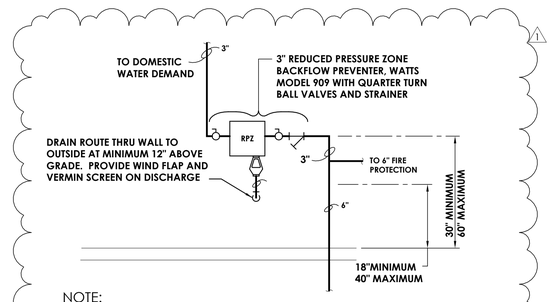
3 P800 TYPICAL SECONDARY ROOF DRAIN DETAIL
NTS



4 P800 ISLAND SINK VENT PIPING DETAIL
1'2" = 1'-0"



5 P800 P.O.U. DOMESTIC WATER HEATER
1'2" = 1'-0"

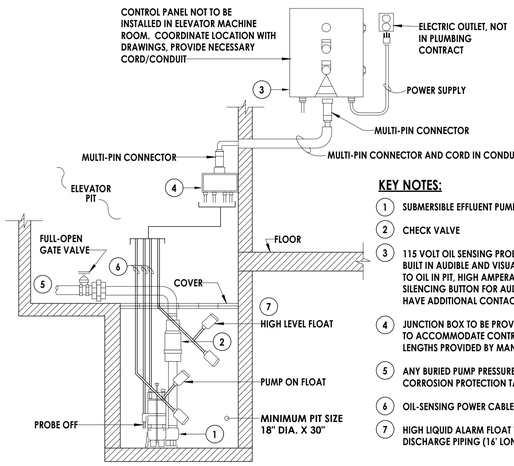


NOTE:

DOMESTIC WATER SERVICE BACKFLOW PREVENTERS TO BE MOUNTED WITH CLEARANCES AS DESCRIBED IN THE NEW YORK STATE DEPARTMENT OF HEALTH GUIDELINES, UNLESS SPECIFICALLY NOTED OTHERWISE. CLEARANCES TO BE: 12" CLEAR SPACE ABOVE ASSEMBLY; 18" BELOW RELIEF VALVE; 30" CLEAR SPACE IN FRONT OF ASSEMBLY, AND 8" CLEAR SPACE BETWEEN ASSEMBLY AND WALL.

CONTRACTOR TO ENGAGE CERTIFIED TESTER TO TEST BACKFLOW DEVICE AS REQUIRED BY NYS/COUNTY HEALTH DEPARTMENT, AND COMPLETE PART A OF THE DOH-1013 FORM. THEN SUBMIT DOH-1013 FORM TO ENGINEER TO COMPLETE PART B AND RETURN TO DOH.

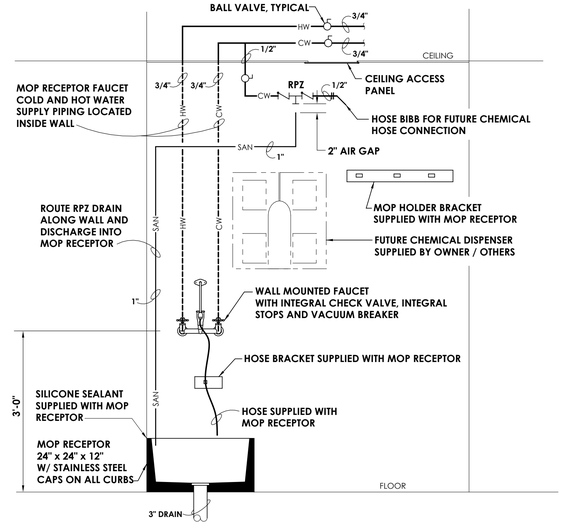
6 P800 WATER SERVICE ENTRANCE DETAIL
1/2" = 1'-0"



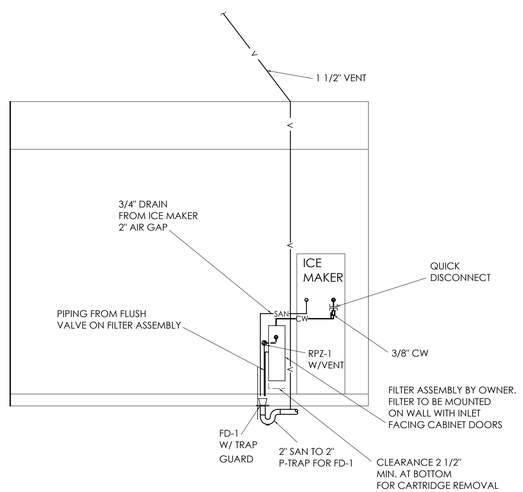
KEY NOTES:

1. SUBMERSIBLE EFFLUENT PUMP, 49GPM, 115 VOLT, 2" DISCHARGE CONNECTION.
2. CHECK VALVE
3. 115 VOLT OIL SENSING PROBE/PUMP CONTROL PANEL WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT, HIGH AMPERAGE OR HIGH LIQUID CONDITION. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR REMOTE ALARM LOCATION.
4. JUNCTION BOX TO BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED TO ACCOMMODATE CONTROL PANEL LOCATION. COORDINATE LENGTH WITH STANDARD CORD LENGTHS PROVIDED BY MANUFACTURER.
5. ANY BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6. OIL-SENSING POWER CABLE, PROBE AND FLOAT CABLE (ALL 16' LONG).
7. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING (16' LONG).

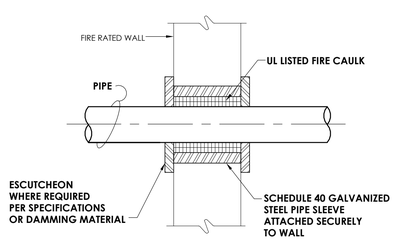
7 P800 ELEVATOR SUMP PUMP DETAIL
NTS



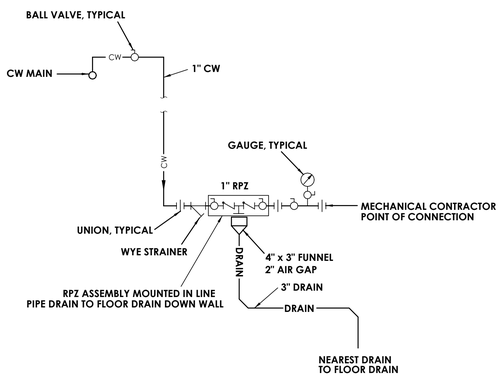
8 P800 MOP RECEPTOR PIPING WITH RPZ FOR SOAP DISPENSING DETAIL
NTS



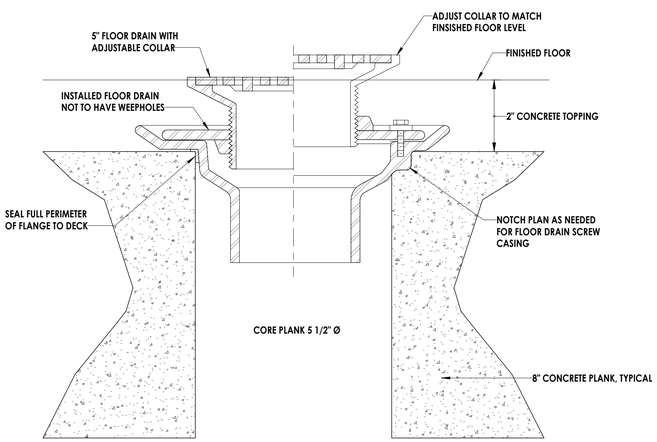
9 P800 ICE MACHINE RPZ DETAIL
1/8" = 1'-0"



10 P800 PIPE THROUGH WALL
NTS



11 P800 BOILER MAKE UP WATER DETAIL
NTS



12 P800 TYPICAL FLOOR DRAIN DETAIL
NTS

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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

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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

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SHEET INFORMATION

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04/27/2026

Scale
As indicated

Project Status
BID DOCUMENTS

Drawn By
MLS

Checked By
JJW

Drawing Title
DETAILS

Drawing Number
OHS P800

PROJECT FILES ON ACC
5/7/2026 9:29:35 PM

WIRING LEGEND:

S• SWITCH

- (NONE) SINGLE POLE TOGGLE SWITCH
- 2 TWO POLE TOGGLE SWITCH
- 3 THREE WAY TOGGLE SWITCH
- 4 FOUR WAY TOGGLE SWITCH
- WP SINGLE POLE WEATHER PROOF SWITCH
- K SINGLE POLE KEYED SWITCH
- P SINGLE POLE SWITCH WITH PILOT LIGHT
- TM SINGLE POLE SWITCH WITH ONE HOUR TIMER
- T THERMAL SWITCH
- TP THERMAL SWITCH WITH PILOT LIGHT
- M MOMENTARY CONTACT SWITCH
- LV LOW VOLTAGE SWITCH
- D DIMMER SWITCH
- O OCCUPANCY SENSOR SWITCH
- V VACANCY SENSOR SWITCH

SII ROMAN NUMERAL DESIGNATES NUMBER OF SWITCHES

Sa LOWER CASE LETTER DESIGNATES SWITCH LEG

TAMPER RESISTANT SINGLE RECEPTACLE

PLUG MOLD

•* TAMPER-RESISTANT DUPLEX RECEPTACLE

•* TAMPER-RESISTANT QUADRAPLEX RECEPTACLE

•* SWITCHED TAMPER-RESISTANT SPLIT CIRCUIT DUPLEX RECEPTACLE FOR AUTOMATIC RECEPTACLE CONTROL, REFER TO DETAIL 4/OHS E800.

•* SWITCHED TAMPER-RESISTANT QUADRAPLEX RECEPTACLE FOR AUTOMATIC RECEPTACLE CONTROL, REFER TO DETAIL 4/OHS E800.

•* SPECIAL RECEPTACLE

- GFI GROUND FAULT CIRCUIT INTERRUPTER
- WP WEATHER PROOF IN-USE COVER
- SS SURGE SUPPRESSION
- C COUNTER HEIGHT
- IG ISOLATED GROUND
- RT RAIN TITE
- E EMERGENCY
- X TYPE X (SEE RECEPTACLE SCHEDULE)

POWER/DATA POLE

RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE

SURFACE MOUNTED FLOOR RECEPTACLE

CEILING MOUNTED DUPLEX RECEPTACLE

—— C —— CONDUIT

—— W —— EXPOSED LOW VOLTAGE WIRING

HORIZONTAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES

VERTICAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES

—— WM —— WIRE MOLD

J• JUNCTION BOX

- F FIRE SYSTEM
- S SECURITY SYSTEM

DISCONNECT SWITCH

WP DISCONNECT SWITCH - WEATHER PROOF (NEMA 3R)

F FUSED DISCONNECT SWITCH

•* COMBINATION FUSED DISCONNECT/ MAGNETIC STARTER SWITCH

- HOA HAND/OFF/AUTO
- SS START/STOP

M MANUAL STARTER

VFD COMBINATION VARIABLE FREQUENCY DRIVE AND DISCONNECT

VFD VARIABLE FREQUENCY DRIVE

ST/SP PUSHBUTTON - START, STOP

ST/SP/PL PUSHBUTTON - START, STOP, WITH PILOT LIGHT

UP/DN/SP PUSHBUTTON - UP, DOWN, STOP

EF-1 MOTOR WITH DESIGNATOR

PO DOOR POWER OPERATOR

TC TIME CLOCK

HD HAND DRYER, HARD WIRED

HVP1-6 BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER, QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS

GFI BKR. GFI TYPE BREAKER
A.F. BKR. ARC FAULT BREAKER

BRANCH CIRCUIT WIRING, PROVIDE QUANTITIES OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING AS INDICATED

POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)

HARDWIRE CONNECTION

CONDUIT RISER UP

CONDUIT RISER DOWN

—UGE— UNDERGROUND ELECTRICAL CONDUCTORS IN CONDUIT

—UGS— UNDERGROUND SIGNAL CABLES IN CONDUIT

T TRANSFORMER

TK TYPE "K" TRANSFORMER

GROUNDING ROD

SINGLE LINE DIAGRAM LEGEND:

EARTH GROUND

CHASSIS GROUND

KVA
208/120;480V
TRANSFORMER - KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED. CONNECTIONS, K-RATING, AND SHIELD SPECIFIED

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

FUSE

DISCONNECT/LOADBREAK SWITCH

CIRCUIT BREAKER

CIRCUIT BREAKER DRAWOUT MOUNTED (LOW VOLTAGE)

AUTOMATIC TRANSFER SWITCH (NORMAL POSITION SHOWN)

M METER

ENCLOSED CIRCUIT BREAKER

LIGHTNING ARRESTER

FUSED DISCONNECT SWITCH

PANEL
PANELBOARD-
RATINGS AS SPECIFIED IN SINGLE LINE DIAGRAM AND ON PANELBOARD SCHEDULE

COMMUNICATIONS LEGEND:

▼* TELEPHONE DROP

- (NONE) STANDARD MODULAR JACK FOR TELEPHONE
- W WALL MOUNTED TELEPHONE MODULAR JACK
- P PUBLIC TELEPHONE MODULAR JACK
- C COUNTER HEIGHT MODULAR JACK

TELEPHONE FLOOR DROP

DATA DROP (2-JACKS AND 2-DATA CABLES PER DROP, UON)

COMPUTER FLOOR DROP

COMBINATION TELEPHONE/DATA DROP

WAP WIRELESS ACCESS POINT (FURNISHED AND INSTALLED BY OWNER) EC TO PROVIDE DATA CABLES AT EACH LOCAITON.

DATA CABINET

TV COAX CABLE DROP

P CEILING MOUNT LCD PROJECTOR

•* IP PUBLIC ADDRESS SPEAKER

- (NONE) CEILING MOUNTED
- * = W WALL MOUNTED

COMBINATION IP CLOCK/PUBLIC ADDRESS SPEAKER DEVICE

SPEAKER (LOCAL SOUND SYSTEM)

IP PUBLIC ADDRESS SPEAKER HORN

M MICROPHONE JACK

SJ SPEAKER JACK

V VOLUME CONTROL

IC INTERCOM STATION

PA MIC REMOTE PRE-AMPLIFIER AND PAGING MICROPHONE

CJ CONSOLE JACK

HL HOUSE LIGHT CONTROL STATION

WB WALL BOX AS SPECIFIED

FB FLOOR BOX

NOTE:

SYMBOLS SHOWN ON THIS ELECTRICAL SYMBOLS LIST ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

FIRE/LIFE SAFETY LEGEND:

F FIRE ALARM PULL STATION

FP FIRE PUMP ALARM BELL

H FIRE ALARM HORN

XXcd FIRE ALARM HORN AND STROBE COMBINATION - WALL MOUNTED
XXcd = STROBE CANDELLA RATING

XXcd WP FIRE ALARM HORN AND STROBE COMBINATION, WEATHER PROOF - WALL MOUNTED
XXcd = STROBE CANDELLA RATING

S Xw FIRE ALARM SPEAKER - WALL MOUNTED
Xw = INDICATES MINIMUM DESIGN TAP WATTAGE

S C Xw FIRE ALARM SPEAKER - CEILING MOUNTED
Xw = INDICATES MINIMUM DESIGN TAP WATTAGE

XXcd Xw FIRE ALARM SPEAKER AND STROBE COMBINATION - WALL MOUNTED
XXcd = STROBE CANDELLA RATING
Xw = INDICATES MINIMUM DESIGN TAP WATTAGE

H F FIRE ALARM STROBE - WALL MOUNTED

F FIRE ALARM STROBE - CEILING MOUNTED

SMOKE DETECTOR

WG SMOKE DETECTOR WITH GUARD

CO CARBON MONOXIDE DETECTOR

CH4 NATURAL GAS SENSOR

HEAT DETECTOR

COMBINATION SMOKE/HEAT DETECTOR

HF HEAT DETECTOR - 190° FIXED TEMPERATURE

EXP HEAT DETECTOR - EXPLOSION PROOF

BT BEAM SMOKE DETECTOR TRANSMITTER

BR BEAM SMOKE DETECTOR RECEIVER

•* DUCT DETECTOR

- SA INDICATES INSTALLATION IN SUPPLY AIR
- RA INDICATES INSTALLATION IN RETURN AIR

RTS REMOTE TEST STATION FOR DUCT DETECTOR

R FIRE ALARM SHUT DOWN RELAY

DH FIRE DOOR HOLD OPEN

VS TAMPER SWITCH

WF FLOW SWITCH

FSS FIRE SUPRESSION ANSUL SYSTEM CONNECTION

FR •* SMOKE DAMPER RELAY CONNECTION

- SD/FD SMOKE DAMPER AND FIRE DAMPER
- SD SMOKE DAMPER

AIM CONTROL MODULE, ADDRESSABLE

AREA OF RESCUE CALL STATION

SECURITY LEGEND:

1 IP VIDEO CAMERA - SINGLE CAMERA (FURNISHED BY OWNER, EC TO INSTALL, WIRE AND PROGRAM)
IP VIDEO CAMERA - 2-HEAD CAMERA (FURNISHED BY OWNER, EC TO INSTALL, WIRE AND PROGRAM)
IP VIDEO CAMERA - 3-HEAD CAMERA (FURNISHED BY OWNER, EC TO INSTALL, WIRE AND PROGRAM)

VM CCTV VIDEO MONITOR

KP INTRUSION DETECTION SYSTEM KEY PAD

MS INTRUSION DETECTION SYSTEM DUAL TECHNOLOGY MOTION SENSOR

DC INTRUSION DETECTION SYSTEM MAGNETIC DOOR CONTACT

WC INTRUSION DETECTION SYSTEM BREAK GLASS WINDOW CONTACT

1 PR PROXIMITY CARD READER - ACCESS CONTROL (FURNISHED BY OWNER, EC TO INSTALL, WIRE AND PROGRAM)

REX REQUEST TO EXIT SENSOR - ACCESS CONTROL (FURNISHED BY OWNER, EC TO INSTALL, WIRE AND PROGRAM)

C CALL SWITCH

ES ELECTRIC DOOR HARDWARE RELEASE

IC AIPHONE AUDIO/VIDEO INTERCOM STATION

LIGHT FIXTURE LEGEND:

XX LIGHTING FIXTURE
(SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATION AND DESCRIPTION OF FIXTURES)

EMERGENCY AND/OR NIGHT LIGHT LIGHTING FIXTURE

EXIT LIGHTING FIXTURE UNIVERSAL MOUNT, SINGLE/DOUBLE FACE (WHERE USED, ARROW INDICATES CHEVRON DIRECTION)

BATTERY POWERED EMERGENCY LIGHT

EMERGENCY LIGHT REMOTE HEAD

TRACK LIGHTING

POLE MOUNTED LIGHTING (QUANTITY AND ORIENTATION OF HEADS AS SHOWN)

OS OCCUPANCY SENSOR - CEILING MOUNTED

OSW OCCUPANCY SENSOR - WALL MOUNTED

LC LIGHTING CONTACTOR

PC PHOTOCELL

PANEL LEGEND:

EXISTING ELECTRICAL PANEL

XXX NEW ELECTRICAL PANEL

- MDP MAIN DISTRIBUTION PANEL
- PP LOW VOLTAGE PANEL
- SWB MAIN SWITCH BOARD

ATS AUTOMATIC TRANSFER SWITCH

XXX ELECTRICAL SYSTEMS PANEL

- SACP SECURITY ALARM CONTROL PANEL
- FACP FIRE ALARM CONTROL PANEL
- PA PUBLIC ADDRESS CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL PANELBOARD LABELING PLACARD

LINE 1 - PANELBOARD NAME: PP1 (EXAMPLE)
LINE 2 - VOLTAGE AND PHASE: 208/120V-3PH-4W (EXAMPLE)
LINE 3 - WHERE PANELBOARD IS FED FROM: SWBD BREAKER #14 (EXAMPLE)

GENERAL ELECTRICAL NOTES:

1) HATCHED AREAS ////// DESIGNATE EXISTING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.

2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70).

3) CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH EXISTING EQUIPMENT PRIOR TO BIDDING.

BUILDING:

4) ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS, FLOOR, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED,

5) ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.

6) CONDUIT RUNS SHOWN ARE SCHEMATICAL AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK. CONTRACTOR TO PROVIDE ALL FITTINGS AND JUNCTIONS BOXES.

GROUNDING:

7) ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

WIRING:

8) UNLESS OTHERWISE NOTED (UON) ON THE DRAWINGS, ON THE EQUIPMENT WIRING SCHEDULE OR IN SPECIFICATIONS, EACH BRANCH CIRCUIT SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. COMBINED NEUTRALS ARE NOT PERMITTED. EXCEPTION: MC CABLE IS ALLOWED TO BE INSTALLED IN HOLLOW STUD WALLS AND ABOVE ACCESSIBLE CEILINGS. ALL CIRCUIT HOMERUNS FROM ROOMS SHALL BE SINGLE CONDUCTORS IN CONDUIT BACK TO PANELBOARDS.

INSTALLATION HEIGHTS:

HEIGHT TO CENTER OF EQUIPMENT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED TO BE THE FOLLOWING:

- RECEPTACLE = 18"
- LIGHT SWITCH = 44" TO BOTTOM
- MODULAR DATA JACK FOR WALL MOUNTED TELEPHONE = 52"
- DATA JACK = 18"
- FIRE ALARM PULL STATIONS = 48"
- FIRE ALARM STROBE/SPEAKER - 80" TO CENTERLINE OF STROBE LENS
- FIRE ALARM SPEAKER - 80"
- WALL MOUNTED WIRELESS ACCESS POINT - 102"
- COMBINATION IP/CLOCK UNIT - 90" TO BOTTOM
- IP WALL MOUNTED SPEAKER - 90" TO BOTTOM
- CARBON MONOXIDE DETECTOR - 60"
- REMOTE TEST STATION FOR DUCT DETECTOR = 60"+

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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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

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SHEET INFORMATION

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Drawn By: JAS
Checked By: JBT
Drawing Title: ELECTRICAL SYMBOLS LEGEND & NOTES

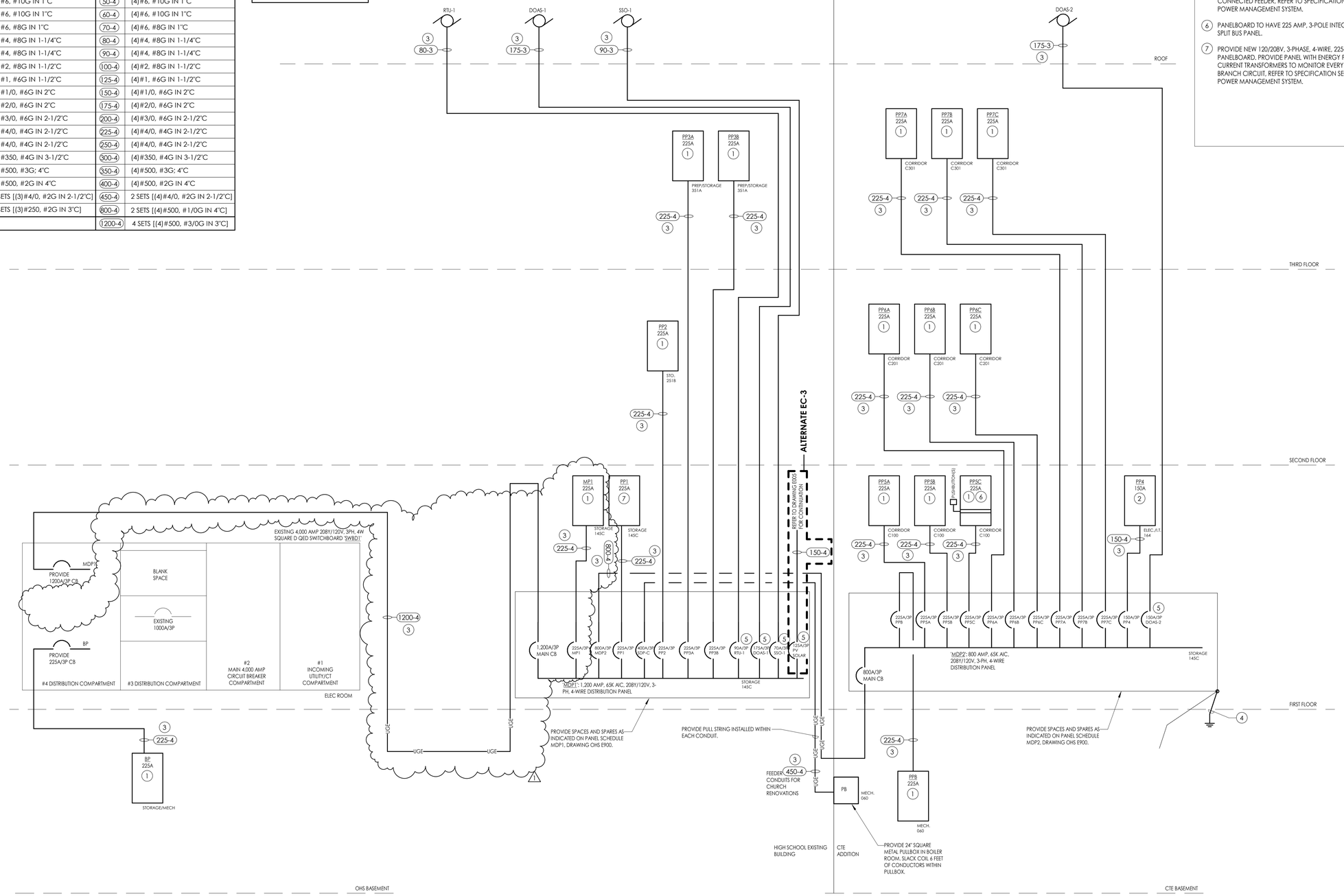
Drawing Number
OHS
E000

5/6/2026 11:35:50 AM PROJECT FILES ON ACC

SINGLE LINE FEEDER SCHEDULE

MARK	3Ø-3W WIRE & CONDUIT	MARK	3Ø-4W WIRE & CONDUIT
20-3	(3)#12, #12G IN 3/4"C	20-4	(4)#12, #12G IN 3/4"C
30-3	(3)#10, #10G IN 3/4"C	30-4	(4)#10, #10G IN 3/4"C
40-3	(3)#8, #10G IN 1"C	40-4	(4)#8, #10G IN 1"C
50-3	(3)#6, #10G IN 1"C	50-4	(4)#6, #10G IN 1"C
60-3	(3)#6, #10G IN 1"C	60-4	(4)#6, #10G IN 1"C
70-3	(3)#6, #8G IN 1"C	70-4	(4)#6, #8G IN 1"C
80-3	(3)#4, #8G IN 1-1/4"C	80-4	(4)#4, #8G IN 1-1/4"C
90-3	(3)#4, #8G IN 1-1/4"C	90-4	(4)#4, #8G IN 1-1/4"C
100-3	(3)#2, #8G IN 1-1/2"C	100-4	(4)#2, #8G IN 1-1/2"C
125-3	(3)#1, #6G IN 1-1/2"C	125-4	(4)#1, #6G IN 1-1/2"C
150-3	(3)#1/0, #6G IN 2"C	150-4	(4)#1/0, #6G IN 2"C
175-3	(3)#2/0, #6G IN 2"C	175-4	(4)#2/0, #6G IN 2"C
200-3	(3)#3/0, #6G IN 2-1/2"C	200-4	(4)#3/0, #6G IN 2-1/2"C
225-3	(3)#4/0, #4G IN 2-1/2"C	225-4	(4)#4/0, #4G IN 2-1/2"C
250-3	(3)#4/0, #4G IN 2-1/2"C	250-4	(4)#4/0, #4G IN 2-1/2"C
300-3	(3)#350, #4G IN 3-1/2"C	300-4	(4)#350, #4G IN 3-1/2"C
350-3	(3)#500, #3G; 4"C	350-4	(4)#500, #3G; 4"C
400-3	(3)#500, #2G IN 4"C	400-4	(4)#500, #2G IN 4"C
450-3	2 SETS [(3)#4/0, #2G IN 2-1/2"C]	450-4	2 SETS [(4)#4/0, #2G IN 2-1/2"C]
500-3	2 SETS [(3)#250, #2G IN 3"C]	800-4	2 SETS [(4)#500, #1/0G IN 4"C]
		1200-4	4 SETS [(4)#500, #3/0G IN 3"C]

LEGEND:
DEMOLITION
EXISTING
NEW WORK



KEY NOTES

1. PROVIDE NEW 120/208V, 3-PHASE, 4-WIRE, 225-AMP, 22KAIC, 42-CIRCUIT PANELBOARD. PROVIDE PANEL WITH ENERGY POWER METERING SYSTEM CURRENT TRANSFORMERS TO MONITOR EVERY INDIVIDUAL CONNECTED BRANCH CIRCUIT, REFER TO SPECIFICATION SECTION 260913.33 ELECTRICAL POWER MANAGEMENT SYSTEM.
2. PROVIDE NEW 120/208V, 3-PHASE, 4-WIRE, 150-AMP, 22KAIC, 42-CIRCUIT PANELBOARD.
3. PROVIDE FEEDER CONDUCTORS IN CONDUIT AS INDICATED.
4. PROVIDE NEW #1/0 GROUNDING ELECTRODE CONDUCTOR & 5/8"X10' GROUND ROD, REFER TO DETAIL OHS 5/E800.
5. PROVIDE POWER METERING CURRENT TRANSFORMERS TO MONITOR THIS CONNECTED FEEDER, REFER TO SPECIFICATION SECTION 260913.33 ELECTRICAL POWER MANAGEMENT SYSTEM.
6. PANELBOARD TO HAVE 225 AMP, 3-POLE INTEGRAL CONTACTOR CONTROLLED SPLIT BUS PANEL.
7. PROVIDE NEW 120/208V, 3-PHASE, 4-WIRE, 225-AMP, 22KAIC, 54-CIRCUIT PANELBOARD. PROVIDE PANEL WITH ENERGY POWER METERING SYSTEM CURRENT TRANSFORMERS TO MONITOR EVERY INDIVIDUAL CONNECTED BRANCH CIRCUIT, REFER TO SPECIFICATION SECTION 260913.33 ELECTRICAL POWER MANAGEMENT SYSTEM.

1 POWER SINGLE LINE DIAGRAM
E001 AS NOTED

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OSSINING UNION FREE SCHOOL DISTRICT

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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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
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SHEET INFORMATION

Issued	Scale
04/27/2026	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
JAS	JBT

Drawing Title
POWER SINGLE LINE DIAGRAM

Drawing Number
OHS
E001

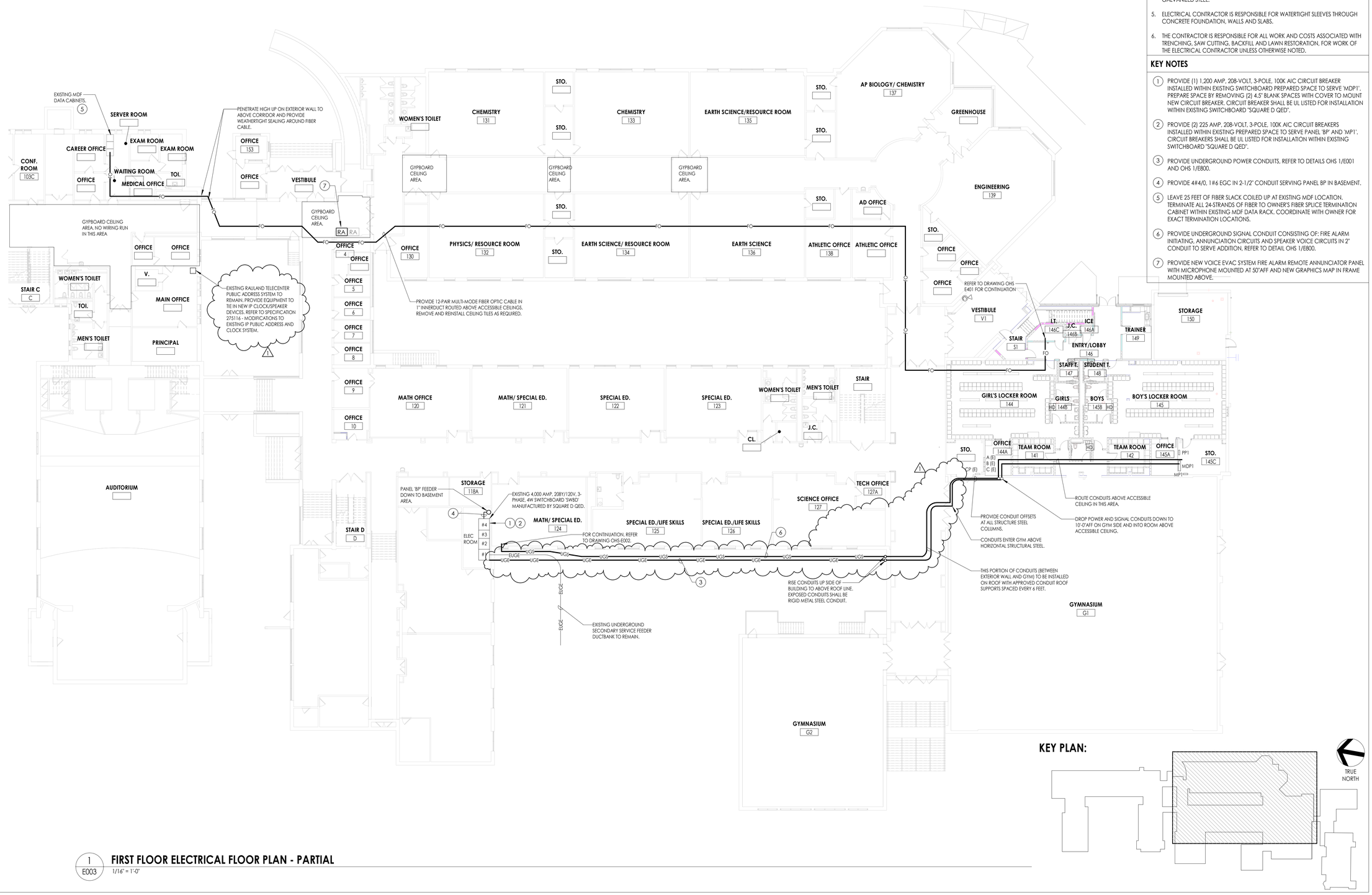
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GENERAL NOTES

1. REMOVE AND REINSTALL EXISTING ACT TILED CEILINGS AS REQUIRED TO INSTALL FIBER OPTIC CABLE ABOVE CEILINGS. EC RESPONSIBLE TO REPLACE ANY DAMAGED CEILING TILES DUE TO INSTALLATION OF ELECTRICAL WORK.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITIES IN AREAS OF NEW UNDERGROUND ELECTRICAL WORK PRIOR TO EXCAVATION. ALL EXISTING ADJACENT UTILITIES SHALL BE TRACED AND MARKED ON SITE PRIOR TO EXCAVATION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO ADJACENT UNDERGROUND UTILITIES AND SHALL INCUR ALL ASSOCIATED REPAIR COSTS.
3. ALL ABOVE GRADE EXPOSED CONDUITS SHALL BE IN RIGID GALVANIZED STEEL.
4. ALL UNDERGROUND CONDUIT ELBOWS AND SWEEPS SHALL BE IN RIGID GALVANIZED STEEL.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WATERTIGHT SLEEVES THROUGH CONCRETE FOUNDATION, WALLS AND SLABS.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK AND COSTS ASSOCIATED WITH TRENCHING, SAW CUTTING, BACKFILL AND LAWN RESTORATION, FOR WORK OF THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

KEY NOTES

1. PROVIDE (1) 1,200 AMP, 208-VOLT, 3-POLE, 100K AIC CIRCUIT BREAKER INSTALLED WITHIN EXISTING SWITCHBOARD PREPARED SPACE TO SERVE 'MDP1'. PREPARE SPACE BY REMOVING (2) 4.5" BLANK SPACES WITH COVER TO MOUNT NEW CIRCUIT BREAKER. CIRCUIT BREAKER SHALL BE UL LISTED FOR INSTALLATION WITHIN EXISTING SWITCHBOARD "SQUARE D QED".
2. PROVIDE (2) 225 AMP, 208-VOLT, 3-POLE, 100K AIC CIRCUIT BREAKERS INSTALLED WITHIN EXISTING PREPARED SPACE TO SERVE PANEL 'BP' AND 'MP1'. CIRCUIT BREAKERS SHALL BE UL LISTED FOR INSTALLATION WITHIN EXISTING SWITCHBOARD "SQUARE D QED".
3. PROVIDE UNDERGROUND POWER CONDUITS, REFER TO DETAILS OHS 1/E001 AND OHS 1/E800.
4. PROVIDE 4#4/0, 1#6 EGC IN 2-1/2" CONDUIT SERVING PANEL BP IN BASEMENT.
5. LEAVE 25 FEET OF FIBER SLACK COILED UP AT EXISTING MDF LOCATION. TERMINATE ALL 24-STRANDS OF FIBER TO OWNER'S FIBER SPLICE TERMINATION CABINET WITHIN EXISTING MDF DATA RACK. COORDINATE WITH OWNER FOR EXACT TERMINATION LOCATIONS.
6. PROVIDE UNDERGROUND SIGNAL CONDUIT CONSISTING OF: FIRE ALARM INITIATING, ANNUNCIATION CIRCUITS AND SPEAKER VOICE CIRCUITS IN 2" CONDUIT TO SERVE ADDITION, REFER TO DETAIL OHS 1/E800.
7. PROVIDE NEW VOICE EVAC SYSTEM FIRE ALARM REMOTE ANNUNCIATOR PANEL WITH MICROPHONE MOUNTED AT 50"AFF AND NEW GRAPHICS MAP IN FRAME MOUNTED ABOVE.



KEY PLAN:

1 E003 **FIRST FLOOR ELECTRICAL FLOOR PLAN - PARTIAL**
1/16" = 1'-0"

5/6/2026 8:32:27 AM PROJECT FILES ON ACC

CPL | Architecture Engineering Planning
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Poughkeepsie, NY 12601
CPLeam.com
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. 66-14-01-03-0-003-047

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SHEET INFORMATION

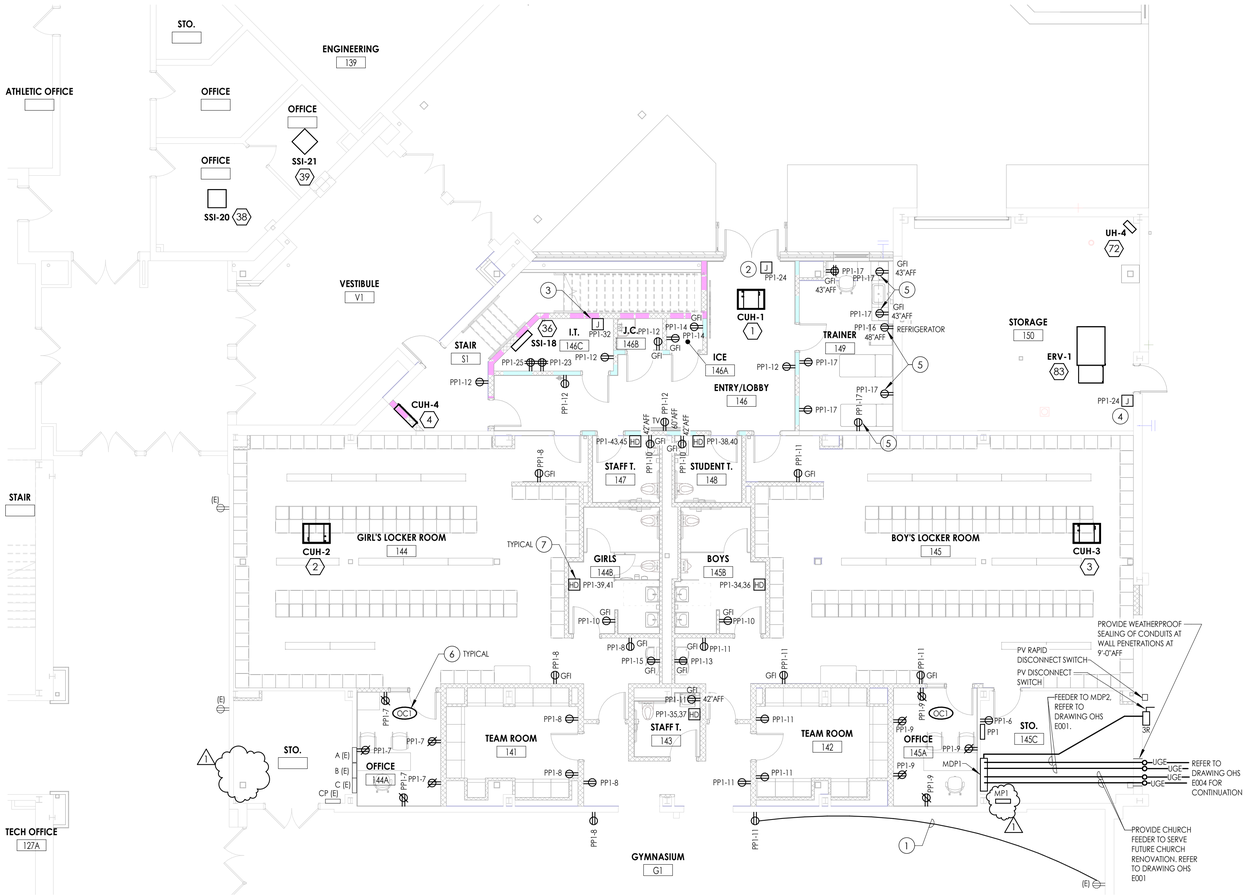
Issued	Scale
04/27/2026	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
JAS	JBT

Drawing Title
FIRST FLOOR ELECTRICAL PLAN - PARTIAL

Drawing Number
OHS E003



1 E201

FIRST FLOOR POWER PLAN - AREA A1

1/8" = 1'-0"

GENERAL NOTES

A. FIXTURES, DEVICES, AND EQUIPMENT LABELED AS (E) ARE EXISTING AND ARE SHOWN FOR REFERENCE ONLY. THESE DEVICES SHALL REMAIN OPERATIONAL FOLLOWING CONSTRUCTION.

B. 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.

C. WIRING OVER 100' SHALL BE #10 THHN, UON.

D. AT EACH SYMBOL, (XX) REFER TO DRAWING OHS E900 FOR ALL WIRING, CIRCUIT AND BREAKER INFORMATION.

E. PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

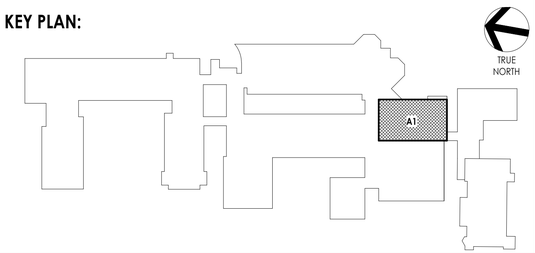
F. REFER TO DRAWING E006 FOR PV SOLAR REQUIRED NFPA 70 EQUIPMENT LABELING.

G. ON EXISTING CMU BLOCK/BRICK WALLS TO REMAIN, MOUNT NEW DEVICES USING SINGLE CHANNEL, 2-PEICE SURFACE METAL RACEWAY TYPE SR WITH MANUFACTUFER MATCHING DEVICE BOXES. INSTALLATION AT LOCATION OF NEW WALLS SHALL BE RECESSED WITHIN.

KEY NOTES

1. 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.
2. 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.
3. PROVIDE 2#12, #12 EGC IN 3/4" CONDUIT FROM ACCESS CONTROLLER TO PANEL PANEL PP1 IN STOR. 145C.
4. 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.
5. DEVICE TO BE INSTALLED IN SINGLE CHANNEL, 2-PEICE SURFACE METAL RACEWAY TYPE SR TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH COMPATIBLE RACEWAY DEVICE BOX. CONDUIT WILL NOT BE ACCEPTED.
6. PROVIDE OCCUPANCY SENSOR MOUNTED ON CEILING FOR AUTOMATICALLY CONTROLLED RECEPTACLES. REFER TO DETAIL 4 DRAWING OHS E800 FOR WIRING AND REQUIRED EQUIPMENT.
7. 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.

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
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CPLeam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING UNION FREE SCHOOL DISTRICT

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2024 BOND: PHASE 1

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OSSINING UNION FREE SCHOOL DISTRICT
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SHEET INFORMATION

Issued
04/27/2026

Scale
AS NOTED

Project Status
BID DOCUMENTS

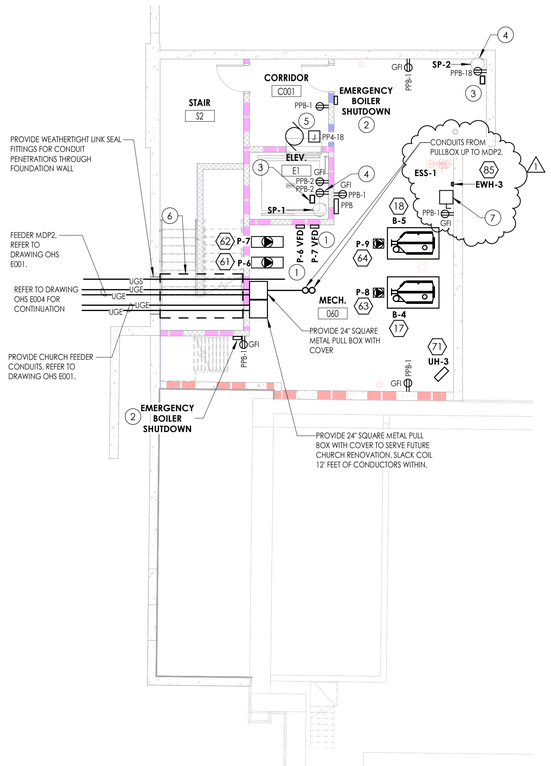
Drawn By
JAS

Checked By
JBT

Drawing Title
FIRST FLOOR POWER PLAN - AREA A1

Drawing Number
OHS E201

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1 BASEMENT POWER PLAN - AREA B0

E204 — 1/8" = 1'-0"

GENERAL NOTES

A. FIXTURES, DEVICES, AND EQUIPMENT LABELED AS (E) ARE EXISTING AND ARE SHOWN FOR REFERENCE ONLY. THESE DEVICES SHALL REMAIN OPERATIONAL FOLLOWING CONSTRUCTION.

B. UNLESS OTHERWISE NOTED, CONNECT NEW DEVICES TO PANEL AND CIRCUIT INDICATED ADJACENT TO DEVICE. WIRE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

C. WIRING OVER 100' SHALL BE #10 THHN, UON.

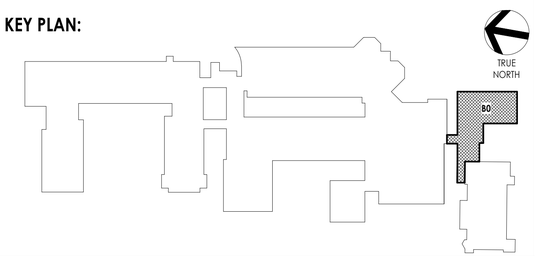
D. AT EACH SYMBOL, (XX) REFER TO DRAWING OHS E900 FOR ALL WIRING, CIRCUIT AND BREAKER INFORMATION.

E. PROVIDE 1-HOUR FIRE SEALING OF ALL BASEMENT TO FIRST FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

KEY NOTES

1. INSTALL VFD FURNISHED BY MECHANICAL CONTRACTOR ON WALL AT 50"AFF. CIRCUIT TO ASSOCIATED PUMP AND HOMERUN BACK TO PANEL BP.
2. PROVIDE 120 VOLTS TO EMERGENCY BOILER SHUTDOWN STATION USING 2#12, 1#12 EGC IN 3/4" CONDUIT UON BACK TO PANEL PPB, CIRCUIT 21.
3. ESP-1 PUMP ALARM CONTROLLER, WIRE AS RECOMMENDED BY PUMP MANUFACTURER.
4. RECEPTACLE TO SERVE ESP-1. LOCATE AS RECOMMENDED BY PUMP MANUFACTURER.
5. PROVIDE 120-VOLT POWER TO ELEVATOR SMOKE CURTAIN. PROVIDE 2#12, 1#12 EGC IN 3/4" CONDUIT UON FROM JUNCTION BOX (MOUNTED ABOVE CEILING) BACK TO PANELBOARD. PROVIDE CONNECTION TO TIE IN FIRE ALARM SMOKE DETECTOR ASSOCIATED WITH ELEVATOR SMOKE CURTAIN. INSTALL SCREEN REWIND SWITCH ON SHAFT SIDE AND ON CORRIDOR SIDE AND SYSTEM WIRING UP TO CURTAIN MOTOR. COORDINATE LOCATIONS OF ALL EQUIPMENT WITH OTHER TRADES PRIOR TO INSTALLATION OF ELECTRICAL DEVICES.
6. UGE CONDUITS ENTER BUILDING AT 16" ABOVE FINSHED BASEMENT FLOOR AND ROUTE UNDER MID LANDING IN CAVITY BELOW. CONCRETE ENCASE ALL CONDUITS ENTIRE LENGTH.
7. PROVIDE NEMA 1, 200 AMP, 208/120-VOLT, 3-POLE HEAVY DUTY NON-FUSED DISCONNECT SWITCH MOUNTED ON WALL AT 48"AFF TO CENTERLINE OF HANDLE. WIRE WATER HEATER CIRCUIT THROUGH DISCONNECT SWITCH. PROVIDE (3#1/0 AWG, 1#6 EGC IN 1-1/2" LFNMC) FROM DISCONNECT TO WATER HEATER.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

OSSINING UNION FREE SCHOOL DISTRICT

PROJECT INFORMATION

Project Number
R24.16761.00

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OSSINING UNION FREE SCHOOL DISTRICT
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1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

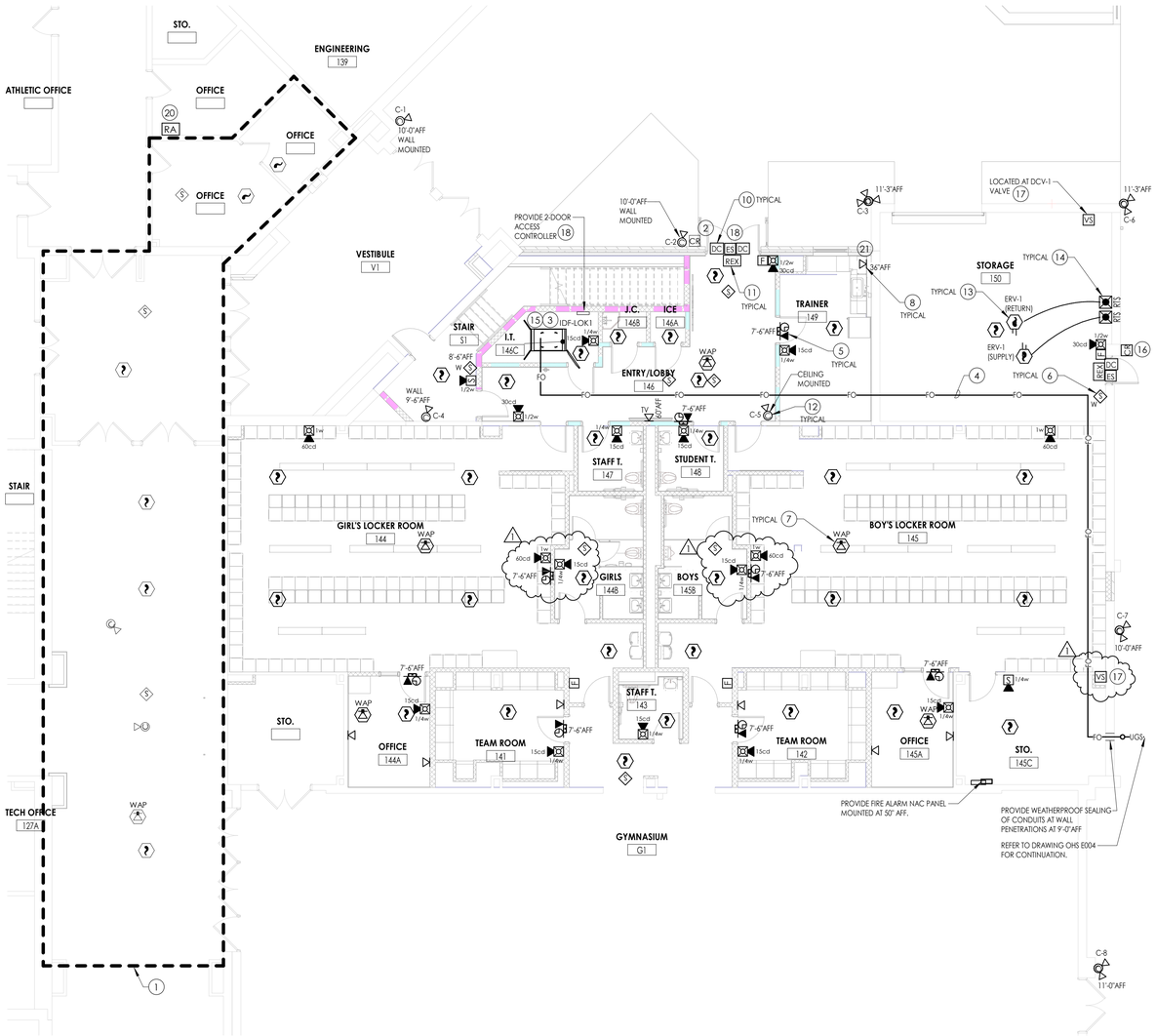
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SHEET INFORMATION

Issued: 04/27/2026
Scale: AS NOTED
Project Status: BID DOCUMENTS
Drawn By: JAS
Checked By: JBT
Drawing Title: BASEMENT POWER PLAN - AREA B0

Drawing Number
OHS
E204

5/7/2026 11:49:01 AM PROJECT FILES ON ACC



1 E401 **FIRST FLOOR SYSTEMS PLAN - AREA A1**

1/8" = 1'-0"

KEY NOTES

1. REINSTALL FROM STORAGE EXISTING SMOKE DETECTORS, PA SYSTEM SPEAKERS, WIRELESS ACCESS POINTS AND IP CAMERAS ON CEILING WITHIN THIS DASHED AREA UPON COMPLETION OF CEILING REPLACEMENT, UON. RECONNECT TO EXISTING TAGGED WIRING.
2. REINSTALL FROM STORAGE EXISTING CARD READER AT 4'-0"AFF. PROVIDE #8/6-CONDUCTOR CABLE IN 3/4" CONDUIT UP TO JUNCTION BOX AND ROUTED BACK TO ACCESS DOOR CONTROLLERS TO IDF-LOK1 IN I.T. 146C ROOM.
3. PROVIDE 84" HIGH FREE-STANDING DATA CABINET WITH LOCKABLE PLEXIGLASS FRONT DOOR, TOP MOUNTED FANS AND 6-PLUG POWER STRIP.
4. PROVIDE 6-STRAND INDOOR/OUTDOOR MULTIMODE FIBER OPTIC CABLE IN 1" INNERDUCT TO IDF-CTE IN ELEC./I.T. 164 ROOM.
5. PROVIDE SURFACE MOUNTED COMBINATION IP CLOCK/PA SPEAKER UNIT. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-LOK1 IN I.T. 146C ROOM.
6. PROVIDE IP PA SPEAKER. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-LOK1 IN I.T. 146C ROOM.
7. AT EACH WIRELESS ACCESS POINT INDICATED, PROVIDE (2) CATEGORY 6A UTP DATA CABLES WITH MALE CONNECTORS AND 20'-0" OF SLACK COILED CABLE ABOVE CEILING. ROUTE DATA CABLES BACK TO IDF-LOK1 IN I.T. 146C ROOM. WIRELESS ACCESS POINT DEVICE FURNISHED AND INSTALLED BY OWNER.
8. PROVIDE (1) 2-PORT CATEGORY 6A RJ45 DATA JACKS AND (2) CATEGORY 6A DATA CABLES ROUTED BACK TO IDF-LOK1 IN I.T. 146C FROM EACH LOCATION, UNLESS OTHERWISE NOTED.
9. PROVIDE SURFACE MOUNTED DOOR CONTACT(S) UTC INTERLOGIX 1045W-N INSTALLED ON DOOR FRAME AND SURFACE MOUNTED ON SIDE TOP OF DOOR. PROVIDE AND INSTALL WIRING DOWN FROM A 4" SQUARE JUNCTION BOX TO 10" ABOVE TOP OF DOOR TO DOOR CONTACT TO COMPLETE INSTALLATION. PROVIDE #18/2-CONDUCTOR CABLE IN 3/4" CONDUIT BACK TO INTRUSION DETECTION SYSTEM PANEL LOCATED IN BASEMENT MECHANICAL ROOM, REFER TO DRAWING OHS E002.
10. PROVIDE FLUSH MOUNTED DOOR CONTACT(S) UTC INTERLOGIX 1078C-N INSTALLED FLUSH IN DOOR FRAME FLUSH AT TOP OF DOOR. PROVIDE AND INSTALL WIRING DOWN FROM 4" SQUARE JUNCTION BOX 10" ABOVE TOP OF DOOR TO WITHIN DOOR FRAME TO COMPLETE INSTALLATION. PROVIDE #18/2-CONDCUTOR CABLE IN 3/4" CONDUIT BACK TO INTRUSION DETECTION SYSTEM PANEL LOCATED IN BASEMENT MECHANICAL ROOM, REFER TO DRAWING OHS E002.
11. INSTALL REQUEST TO EXIT SENSOR. FURNISHED BY OWNER MOUNTED ON FRAME AT TOP OF DOOR. PROVIDE #16/4-CONDUCTOR CABLE IN 3/4" CONDUIT SYSTEM WIRING ROUTED BACK TO ACCESS DOOR CONTROLLER IN I.T. 146C ROOM.
12. INSTALL IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-LOK1 IN I.T. 146C ROOM.
13. PROVIDE DUCT SMOKE DETECTOR IN HVAC SUPPLY AND RETURN DUCTS OF HVAC UNITS. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM. COORDINATE WITH HVAC CONTRACTOR FOR DUCT PLACEMENT PRIOR TO INSTALL.
14. PROVIDE WALL MOUNTED REMOTE TEST SWITCHES. SWITCHES ARE ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY AND RETURN DUCTS TO RESET DUCT DETECTOR. COORDINATE LOCATION AND HEIGHT WITH OWNER PRIOR TO INSTALL.
15. PROVIDE (1) 24-PORT FIBER OPTICAL SPLICE CABINET PANEL, (2) 48-PORT PATCH PANELS, (2) 60" VERTICAL WIRE MANAGEMENT DEVICES AND (2) HORIZONTAL WIRE MANAGEMENT DEVICES.
16. INSTALL PROXIMITY CARD READER STATION FURNISHED BY OWNER MOUNTED AT 48" AFF. PROVIDE 6#18 AWG IN 3/4" CONDUIT UP TO JUNCTION BOX AND ROUTED BACK TO ACCESS DOOR CONTROLLER IN I.T. 146C.
17. PROVIDE FIRE ALARM CABLING FROM TAMPER SWITCH TO NAC PANEL. PROVIDE ALL FINAL TERMINATIONS TO TAMPER SWITCH.
18. INSTALL (1) 2-DOOR ACCESS DOOR CONTROLLER FURNISHED BY OWNER AT THIS LOCATION MOUNTED ON WALL AT 60"AFF. PROVIDE (1) CATEGORY 6A DATA CABLE FROM ACCESS DOOR CONTROLLER TO IDF-LOK1 IN THIS ROOM. TERMINATE IN RACK PATCH PANEL.
19. PROVIDE INSTALLATION OF ALL LOW VOLTAGE WIRING IN DOOR FRAME FROM ELECTRONIC DOOR HARDWARE (DOOR HARDWARE PROVIDED BY GC) UP TO DOOR HARDWARE POWER SUPPLY (POWER SUPPLY PROVIDED BY GC). EC TO MOUNT DOOR POWER SUPPLY ABOVE ACCESSIBLE CEILING OR ABOVE DOOR ON WALL AND PERFORM ALL LOW VOLTAGE CONNECTIONS AND 120 VOLT LINE VOLTAGE CONNECTIONS AT BOTH PIECES OF EQUIPMENT. PROVIDE LOW VOLTAGE WIRING #18/6-CONDUTOR CABLE IN 3/4" CONDUIT FROM DOOR HARDWARE POWER SUPPLY BACK TO ACCESS DOOR CONTROLLER IN I.T. 146C ROOM. REFER TO DRAWING E201 FOR 120V WIRE.
20. PROVIDE NEW VOICE EVAC SYSTEM FIRE ALARM REMOTE ANNUNCIATOR PANEL WITH MICROPHONE MOUNTED AT 50"AFF AND NEW GRAPHICS MAP IN FRAME MOUNTED ABOVE.
21. DEVICE TO BE INSTALLED IN SINGLE CHANNEL, 2-PEICE SURFACE METAL RACEWAY TYPE 5R TO ABOVE ACCESSIBLE CEILING. PROVIDE WITH COMPATIBLE RACEWAY DEVICE BOX. CONDUIT WILL NOT BE ACCEPTED.

GENERAL NOTES

A. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE/CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES REQUIRED. TYPICAL FOR ALL FIRE ALARM DEVICES.

B. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUTDOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE AND NATIONAL CODES. PROVIDE FIRE ALARM SHUTDOWN RELAYS IN EACH UNIT.

C. AT AUDIBLE/VISUAL DEVICES SHOWN, THE ADJACENT NUMBER INDICATES CANDELA RATING SETTING. DEVICES TO BE SET AT THESE LEVELS.

D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS.

E. NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT UPON ACTIVATION OF FIRE ALARM SYSTEM.

F. SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5'-0" SPACING.

G. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

H. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD, PAINTED TO MATCH EXISTING WALLS.

I. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND100° F, UNLESS SPECIFICALLY RATED FOR OTHER TEMPERATURES.

J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.

K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

M. NOTE EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.

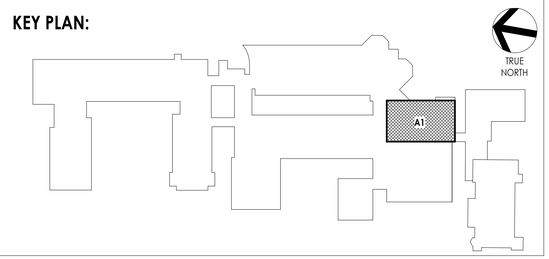
N. FOR DATA/VOICE DROPS SHOWN. PROVIDE FLUSH 2-GANG BOX WITH SINGLE GANG DEVICE RING. INSTALL DATA CABLES CONCEALED WITHIN WALLS USING A 1-1/4" CONDUIT TO ABOVE FINISHED CEILING SPACE.

O. DATA, VOICE, SPEAKER, CAMERA CABLING TO BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS WITHIN SPACES. J-HOOK SPACING NOT TO EXCEED 5'-0" ON CENTER.

P. PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

Q. EC TO INSTALL ALL ACCESS CONTROL DEVICES, IP CAMERAS AND CAMERA MOUNTING BRACKETS FURNISHED BY OWNER THROUGH DAY AUTOMATION VIA NEW YORK STATE CONTRACT. THIS CONTRACT RESPONSIBLE FOR ALL REQUIRED JUNCTION BOXES, FASTENERS, DATA CABLES, LOW VOLTAGE WIRING, CONDUIT, FINAL TERMINATIONS TO DATA RACKS & CAMERAS, WIRE MOLD RACEWAY FOR INSTALLATION OF WIRING IN FINISHED AREAS AND ANY OTHER INSTALLATION MATERIALS REQUIRED TO MAKE COMPLETE AND WORKING ACCESS CONTROL AND IP CAMERA SYSTEMS. PROVIDE FULL PROGRAMMING OF EXISTING ACCESS CONTROL SYSTEM. EXISTING NVR AND NEW NVR SYSTEMS. PROVIDE AIMING OF CAMERAS TO SUIT OWNER VIEWING SATISFACTION. READJUST AIMING AS NEEDED TO SATISFY REQUIREMENT. THE DISTRICTS SECURITY VENDOR IS DAY AUTOMATION SYSTEMS. CONTACT JENN FITZSIMMONS PHONE # (845) 303-3356.

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
04/27/2026	AS NOTED

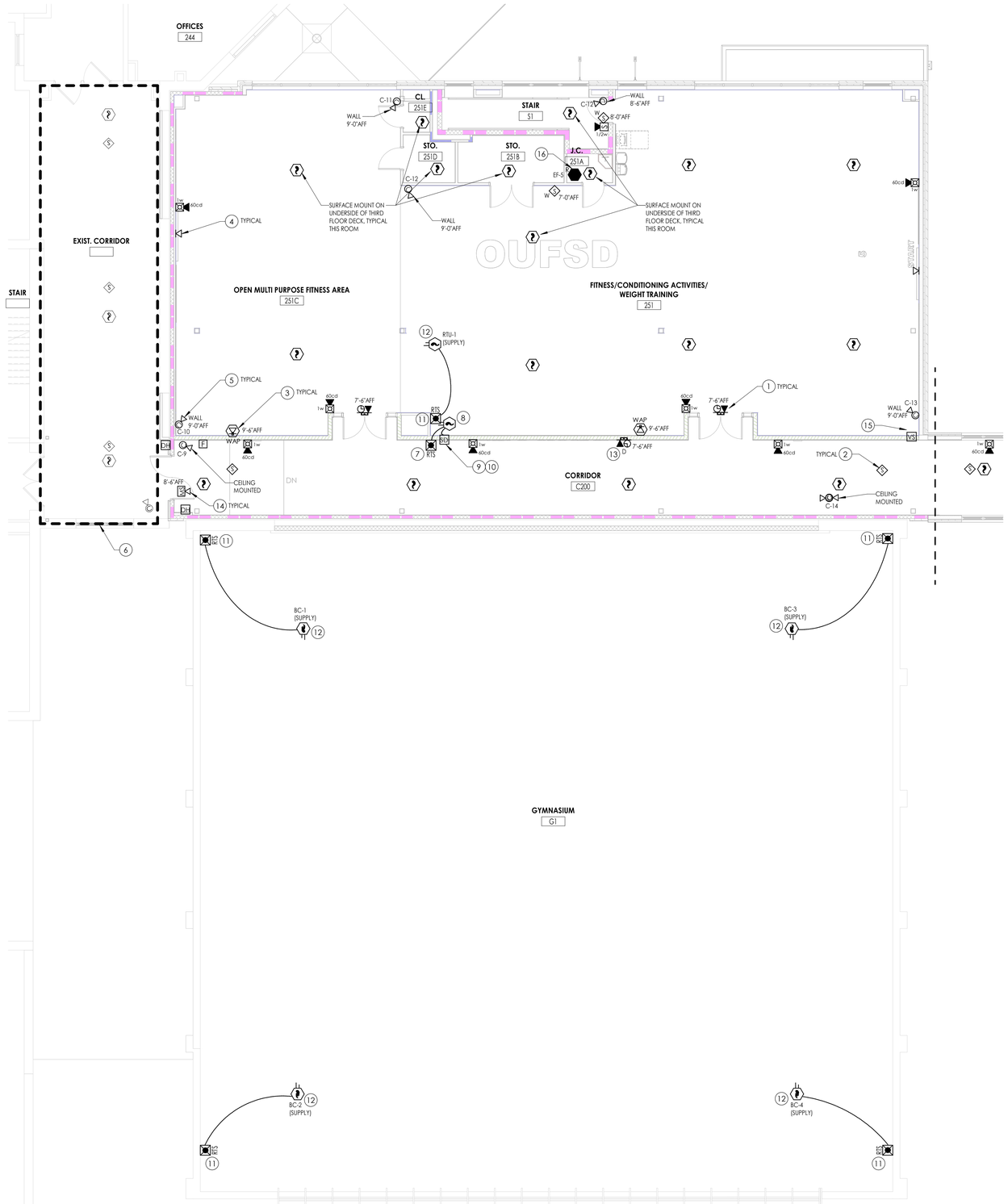
Project Status
BID DOCUMENTS

Drawn By	Checked By
JAS	JBT

Drawing Title
FIRST FLOOR SYSTEMS PLAN - AREA A1

Drawing Number
OHS
E401

5/7/2026 8:14:40 AM PROJECT FILES ON ACC



1 / E402 **SECOND FLOOR SYSTEMS PLAN - AREA A2**

1/8" = 1'-0"

KEY NOTES

1. PROVIDE SURFACE MOUNTED COMBINATION IP CLOCK/PA SPEAKER UNIT. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
2. PROVIDE IP PA SPEAKER. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
3. AT EACH WIRELESS ACCESS POINT INDICATED, PROVIDE (2) CATEGORY 6A UTP DATA CABLES WITH MALE CONNECTORS AND 20'-0" OF SLACK COILED ON WALL AT 9'-6"AFF. ROUTE DATA CABLES BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR. WIRELESS ACCESS POINT DEVICE FURNISHED AND INSTALLED BY OWNER.
4. PROVIDE (1) 2-PORT CATEGORY 6A RJ45 DATA JACKS AND (2) CATEGORY 6A DATA CABLES ROUTED BACK TO IDF-LOK1 IN I.T. 146C ON FIRST FLOOR FROM EACH LOCATION, UNLESS OTHERWISE NOTED.
5. INSTALL IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
6. REINSTALL FROM STORAGE EXISTING SMOKE DETECTORS, PA SYSTEM SPEAKERS, WIRELESS ACCESS POINTS AND IP CAMERAS ON CEILING WITHIN THIS DASHED AREA UPON COMPLETION OF CEILING REPLACEMENT. RECONNECT TO EXISTING TAGGED WIRING.
7. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY DUCT OF SMOKE DAMPER. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
8. PROVIDE DUCT DETECTOR IN HVAC DUCTWORK. ASSOCIATED DUCT DETECTOR CONTROLS OPENING/CLOSING OPERATION OF SMOKE DAMPER. PROVIDE FINAL CONNECTIONS AS REQUIRED TO DEVICES FOR A COMPLETE AND WORKING SMOKE DAMPER SYSTEM.
9. PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER. PROVIDE WIRING BACK TO NAC PANEL IN STOR. 143C ON FIRST FLOOR. COORDINATE FIRE ALARM CONNECTION WITH MECHANICAL CONTRACTOR.
10. PROVIDE 2#12, 1#12 EGC IN 3/4" CONDUIT UON FROM PANEL PP2, CIRCUIT 31 IN STO. 251B TO FIRE/SMOKE DAMPER ACTUATORS. WIRE EACH FIRE/SMOKE DAMPER TO SAME CIRCUIT. PROVIDE SYSTEM CABLING BACK TO LOCAL NAC PANEL. COORDINATE POWER CONNECTION WITH MECHANICAL CONTRACTOR.
11. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY HVAC DUCTS. PROVIDE SYSTEM WIRING FROM DUCT DETECTOR TO REMOTE SWITCH. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
12. PROVIDE DUCT SMOKE DETECTOR FOR SUPPLY DUCTS OF HVAC UNITS. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF BUILDING FIRE ALARM. PROVIDE SYSTEM CABLING BACK TO LOCAL NAC PANEL. COORDINATE WITH HVAC CONTRACTOR FOR PLACEMENT PRIOR TO INSTALL.
13. PROVIDE SURFACE SIDE MOUNTED DOUBLE SIDED IP CLOCK/PA SPEAKER UNIT INSTALLED ON WALL. PROVIDE (2) CATEGORY 6A UTP DATA CABLES BACK TO IDF-LOK-1 IN I.T. 146C ROOM ON FIRST FLOOR.
14. PROVIDE INTRUSION SYSTEM WALL MOUNTED MOTION SENSOR MOUNTED AT 6" BELOW CEILING OR A MAXIMUM OF 9'-6"AFF, UON. PROVIDE (1) PLENUM RATED #18/4-CONDUCTOR CABLE ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM, DRAWING OHS E002.
15. PROVIDE FIRE ALARM CABLING FROM TAMPER SWITCH TO NAC PANEL. PROVIDE ALL FINAL TERMINATIONS TO TAMPER SWITCH.
16. PROVIDE FAN SHUTDOWN RELAY AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAY TO FIRE ALARM CONTROL PANEL TO SHUTDOWN FAN MOTOR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED. PROVIDE FIRE ALARM CABLING ROUTED BACK TO FIRE ALARM NAC PANEL IN ELEC/I.T. 164 ROOM ON FIRST FLOOR.

GENERAL NOTES

A. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE/CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES REQUIRED, TYPICAL FOR ALL FIRE ALARM DEVICES.

B. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUTDOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE AND NATIONAL CODES. PROVIDE FIRE ALARM SHUTDOWN RELAYS IN EACH UNIT.

C. AT AUDIBLE/VISUAL DEVICES SHOWN, THE ADJACENT NUMBER INDICATES CANDELA RATING SETTING. DEVICES TO BE SET AT THESE LEVELS.

D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS.

E. NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT UPON ACTIVATION OF FIRE ALARM SYSTEM.

F. SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5'-0" SPACING.

G. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

H. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD, PAINTED TO MATCH EXISTING WALLS.

I. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND100° F, UNLESS SPECIFICALLY RATED FOR OTHER TEMPERATURES.

J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.

K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

M. NOTE EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.

N. FOR DATA/VOICE DROPS SHOWN. PROVIDE FLUSH 2-GANG BOX WITH SINGLE GANG DEVICE RING. INSTALL DATA CABLES CONCEALED WITHIN WALLS USING A 1-1/4" CONDUIT TO ABOVE FINISHED CEILING SPACE.

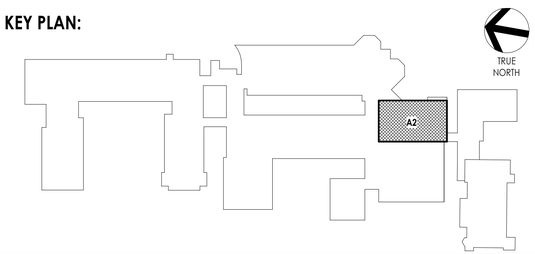
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P. PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

Q. EC TO INSTALL ALL EXPOSED CEILING ELECTRICAL CONDUITS PRIOR TO GC PAINTING. FAILURE TO INSTALL PRIOR, EC WILL BE REQUIRED TO PAINT.

R. EC TO INSTALL ALL ACCESS CONTROL DEVICES, IP CAMERAS AND CAMERA MOUNTING BRACKETS FURNISHED BY OWNER THROUGH DAY AUTOMATION VIA NEW YORK STATE CONTRACT. THIS CONTRACT RESPONSIBLE FOR ALL REQUIRED JUNCTION BOXES, FASTENERS, DATA CABLES, LOW VOLTAGE WIRING, CONDUIT, FINAL TERMINATIONS TO DATA RACKS & CAMERAS, WIRE MOLD RACEWAY FOR INSTALLATION OF WIRING IN FINISHED AREAS AND ANY OTHER INSTALLATION MATERIALS REQUIRED TO MAKE COMPLETE AND WORKING ACCESS CONTROL AND IP CAMERA SYSTEMS. PROVIDE FULL PROGRAMMING OF EXISTING ACCESS CONTROL SYSTEM. EXISTING NVR AND NEW NVR SYSTEMS. PROVIDE AIMING OF CAMERAS TO SUIT OWNER VIEWING SATISFACTION. READJUST AIMING AS NEEDED TO SATISFY REQUIREMENT. THE DISTRICT'S SECURITY VENDOR IS DAY AUTOMATION SYSTEMS. CONTACT JENN FITZSIMMONS PHONE # (845) 303-3356.

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

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SHEET INFORMATION

Issued
04/27/2026

Scale
AS NOTED

Project Status
BID DOCUMENTS

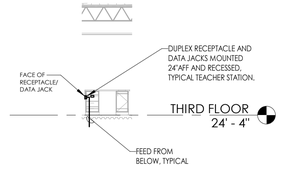
Drawn By
JAS

Checked By
JBT

Drawing Title
SECOND FLOOR SYSTEMS PLAN -AREA A2

Drawing Number
OHS E402

5/7/2026 8:13:55 AM PROJECT FILES ON ACC



2 / E403 **TEACHER STATION ELECTRICAL**

1/8" = 1'-0"



1 / E403 **THIRD FLOOR SYSTEMS PLAN - AREA A3**

1/8" = 1'-0"

KEY NOTES

1. PROVIDE SURFACE MOUNTED COMBINATION IP CLOCK/PA SPEAKER UNIT. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
2. PROVIDE IP PA SPEAKER. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
3. AT EACH WIRELESS ACCESS POINT INDICATED, PROVIDE (2) CATEGORY 6A UTP DATA CABLES WITH MALE CONNECTORS AND 20'-0" OF SLACK COILED CABLE ABOVE CEILING. ROUTE DATA CABLES BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR. WIRELESS ACCESS POINT DEVICE FURNISHED AND INSTALLED BY OWNER.
4. PROVIDE (1) 2-PORT CATEGORY 6A RJ45 DATA JACKS AND (2) CATEGORY 6A DATA CABLES ROUTED BACK TO IDF-LOK1 IN I.T. 146C ON FIRST FLOOR FROM EACH LOCATION, UNLESS OTHERWISE NOTED.
5. INSTALL CEILING MOUNTED IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
6. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY DUCT OF SMOKE DAMPER. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. PROVIDE DUCT DETECTOR IN HVAC DUCTWORK. ASSOCIATED DUCT DETECTOR CONTROLS OPENING/CLOSING OPERATION OF SMOKE DAMPER. PROVIDE FINAL CONNECTIONS AS REQUIRED TO DEVICES FOR A COMPLETE AND WORKING SMOKE DAMPER SYSTEM.
8. PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER. PROVIDE WIRING BACK TO NAC PANEL IN STOR. 143C ON FIRST FLOOR. COORDINATE FIRE ALARM CONNECTION WITH MECHANICAL CONTRACTOR.
9. PROVIDE 2#12, 1#12 EGC IN 3/4" CONDUIT UON FROM PANEL PP3B, CIRCUIT 28 IN PREP/STORAGE 351A TO FIRE/SMOKE DAMPER ACTUATORS. WIRE EACH FIRE/SMOKE DAMPER TO SAME CIRCUIT. COORDINATE POWER CONNECTION WITH MECHANICAL CONTRACTOR.
10. PROVIDE FAN SHUTDOWN RELAY AT HVAC EQUIPMENT CONTROLS. PROVIDE WIRING AND INTERCONNECT RELAY TO NEW FIRE ALARM NAC PANEL IN STOR. 143C ON FIRST FLOOR TO SHUTDOWN FAN MOTOR WHEN THE FIRE ALARM IS ACTIVATED.
11. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY/RETURN HVAC DUCTS. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
12. PROVIDE DUCT SMOKE DETECTOR FOR RETURN AND SUPPLY DUCTS OF HVAC UNITS. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF BUILDING FIRE ALARM. COORDINATE WITH HVAC CONTRACTOR FOR PLACEMENT PRIOR TO INSTALL.
13. PROVIDE SURFACE SIDE MOUNTED DOUBLE SIDED IP CLOCK/PA SPEAKER UNIT INSTALLED ON WALL. PROVIDE (2) CATEGORY 6A UTP DATA CABLES BACK TO IDF-LOK1 IN I.T. 146C ROOM ON FIRST FLOOR.
14. PROVIDE INTRUSION SYSTEM WALL MOUNTED MOTION SENSOR MOUNTED AT 6" BELOW CEILING OR A MAXIMUM OF 9'-6" AFF, UON. PROVIDE (1) PLENUM RATED #18/4 CONDUCTOR CABLE ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM. DRAWING OHS E002.
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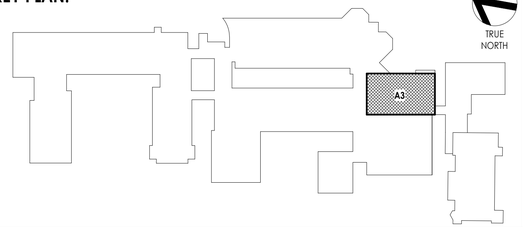
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KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
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. 66-14-01-03-0-003-047

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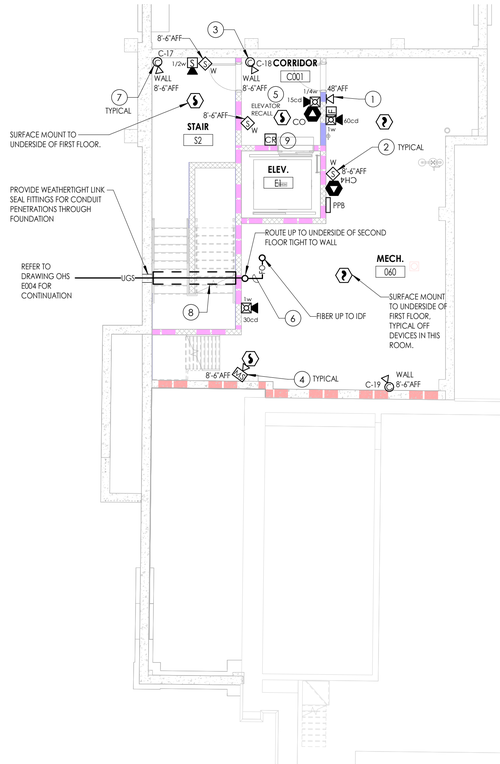
Drawn By
JAS

Checked By
JBT

Drawing Title
THIRD FLOOR SYSTEMS PLAN - AREA A3

Drawing Number
OHS
E403

5/7/2026 8:13:16 AM PROJECT FILES ON ACC



1 / E404 **BASEMENT SYSTEMS PLAN - AREA B0**

1/8" = 1'-0"

KEY NOTES

1. PROVIDE (1) 1-PORT CATEGORY 6A RJ45 DATA JACK AND (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ON FIRST FLOOR, DRAWING OHS E405.
2. PROVIDE IP PA SPEAKER, PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405.
3. INSTALL IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405. (1)
4. PROVIDE INTRUSION SYSTEM WALL MOUNTED MOTION SENSOR MOUNTED AT 6" BELOW CEILING OR A MAXIMUM OF 10'-0"AFF. PROVIDE (1) PLENUM RATED # 18/4-CONDUCTOR CABLE IN 3/4" CONDUIT ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM, DRAWING OHS E002.
5. PROVIDE SMOKE DETECTOR WITH ADDITIONAL SET OF AUXILIARY CONTACTS OR RELAY TO CONNECT TO ELEVATOR SMOKE CURTAIN AND ELEVATOR RECALL FUNCTION. PROVIDE ALL WIRING FOR A COMPLETE AND OPERATIONAL ELEVATOR SMOKE CURTAIN AND CAR RECALL.
6. PROVIDE 6-STRAND INDOOR/OUTDOOR MULTIMODE FIBER OPTIC CABLE IN 1" INNERDUCT UP TO IDF-CTE IN ELEC./I.T. 164 ROOM.
7. INSTALL WALL MOUNTED IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 UON. (1)
8. UG5 CONDUIT ENTER BUILDING AT 16" ABOVE FINISHED BASEMENT FLOOR AND ROUTE UNDER MID LANDING IN CAVITY BELOW. CONCRETE ENCASE CONDUIT ENTIRE LENGTH.
9. INSTALL PROXIMITY CARD READER FURNISHED BY OWNER MOUNTED ON WALL NEXT TO ELEVATOR DOOR FOR ELEVATOR ACCESS CONTROL. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT FROM PROXIMITY CARD READER LOCATION TO A POINT ABOVE FINISHED CEILING. INSTALL SECURITY ENTRY TOUCH PANEL FURNISHED BY OWNER AT LOCATION INDICATED. PROVIDE ALL NECESSARY CONDUIT/WIRING AND MISCELLANEOUS COMPONENTS FOR FINAL CONNECTION FROM TOUCH PANEL TO READER CONTROLLER ON FIRST FLOOR ELEC./IT. 164 ROOM. CONTRACTOR SHALL COORDINATE INSTALLATION WITH SECURITY INTEGRATOR DAY AUTOMATION TO ENSURE A COMPLETE AND WORKING SYSTEM. (1)

GENERAL NOTES

A. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE/CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES REQUIRED, TYPICAL FOR ALL FIRE ALARM DEVICES.

B. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUTDOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE AND NATIONAL CODES. PROVIDE FIRE ALARM SHUTDOWN RELAYS IN EACH UNIT.

C. AT AUDIBLE/VISUAL DEVICES SHOWN, THE ADJACENT NUMBER INDICATES CANDELA RATING SETTING. DEVICES TO BE SET AT THESE LEVELS.

D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS.

E. NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT UPON ACTIVATION OF FIRE ALARM SYSTEM.

F. SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5'-0" SPACING.

G. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

H. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD, PAINTED TO MATCH EXISTING WALLS.

I. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND100° F, UNLESS SPECIFICALLY RATED FOR OTHER TEMPERATURES.

J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.

K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

M. NOTE EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.

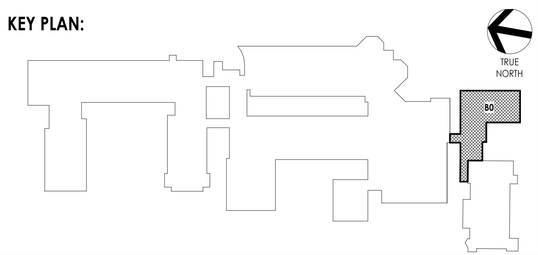
N. FOR DATA/VOICE DROPS SHOWN. PROVIDE FLUSH 2-GANG BOX WITH SINGLE GANG DEVICE RING. PROVIDE (2) CATEGORY 6 UTP CABLES IN 1-1/4" CONDUIT TO ABOVE FINISHED CEILING SPACE TO DATA RACK. PROVIDE 2-PORT FACE PLATE, BRACKETS, (2) RJ-45 JACKS, ETC., AT EACH DROP LOCATION.

O. DATA, VOICE, SPEAKER, CAMERA CABLING TO BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS WITHIN SPACES. J-HOOK SPACING NOT TO EXCEED 5'-0" ON CENTER.

P. PROVIDE 1-HOUR FIRE SEALING OF ALL BASEMENT TO FIRST FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

Q. EC TO INSTALL ALL ACCESS CONTROL DEVICES, IP CAMERAS AND CAMERA MOUNTING BRACKETS FURNISHED BY OWNER THROUGH DAY AUTOMATION VIA NEW YORK STATE CONTRACT. THIS CONTRACT RESPONSIBLE FOR ALL REQUIRED JUNCTION BOXES, FASTENERS, DATA CABLES, LOW VOLTAGE WIRING, CONDUIT, FINAL TERMINATIONS TO DATA RACKS & CAMERAS, WIRE MOLD RACEWAY FOR INSTALLATION OF WIRING IN FINISHED AREAS AND ANY OTHER INSTALLATION MATERIALS REQUIRED TO MAKE COMPLETE AND WORKING ACCESS CONTROL AND IP CAMERA SYSTEMS. PROVIDE FULL PROGRAMMING OF EXISTING ACCESS CONTROL SYSTEM. EXISTING NVR AND NEW NVR SYSTEMS. PROVIDE AIMING OF CAMERAS TO SUIT OWNER VIEWING SATISFACTION, READJUST AIMING AS NEEDED TO SATISFY REQUIREMENT. THE DISTRICT'S SECURITY VENDOR IS DAY AUTOMATION SYSTEMS, CONTACT JENN FITZSIMMONS PHONE # (845) 303-3556. (1)

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
04/27/2026	AS NOTED

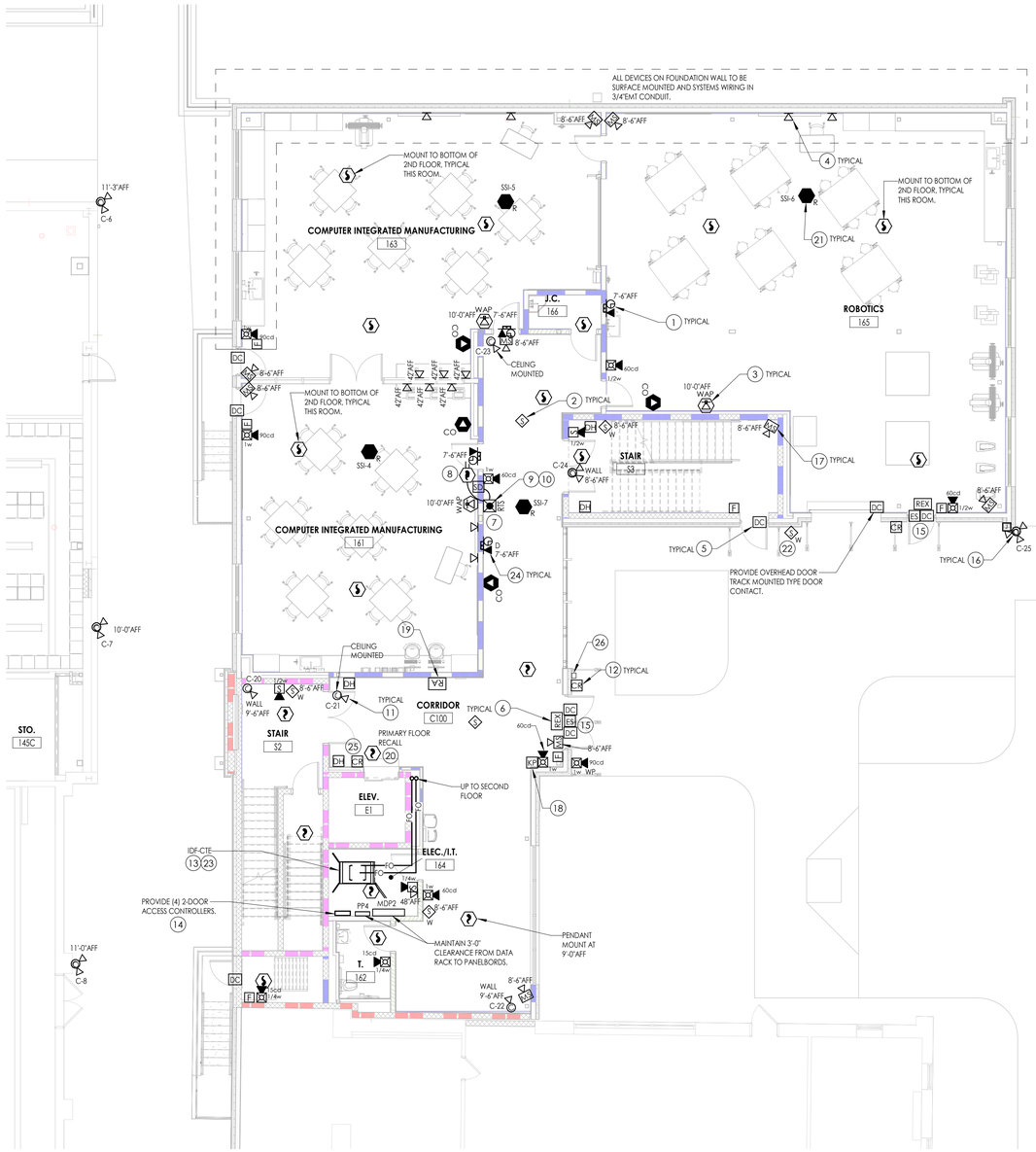
Project Status
BID DOCUMENTS

Drawn By	Checked By
JAS	JBT

Drawing Title
BASEMENT SYSTEMS PLAN - AREA B0

Drawing Number
OHS
E404

5/7/2026 8:12:32 AM PROJECT FILES ON ACC



1 E405 **FIRST FLOOR SYSTEMS PLAN - AREA B1**

1/8" = 1'-0"

KEY NOTES (CONTINUED)

25. INSTALL PROXIMITY CARD READER FURNISHED BY OWNER MOUNTED ON WALL NEXT TO ELEVATOR DOOR FOR ELEVATOR ACCESS CONTROL. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT FROM PROXIMITY CARD READER LOCATION TO A POINT ABOVE FINISHED CEILING. INSTALL SECURITY ENTRY TOUCH PANEL FURNISHED BY OWNER AT LOCATION INDICATED. PROVIDE ALL NECESSARY CONDUIT/WIRING AND MISCELLANEOUS COMPONENTS FOR FINAL CONNECTION FROM TOUCH PANEL TO READER CONTROLLER IN ELEC./I.T. 164 ROOM. CONTRACTOR SHALL COORDINATE INSTALLATION WITH SECURITY INTEGRATOR DAY AUTOMATION TO ENSURE A COMPLETE AND WORKING SYSTEM.
26. PROVIDE FIRE ALARM KNOX BOX MOUNTED AT 60"AFF.

KEY NOTES

1. PROVIDE SURFACE MOUNTED COMBINATION IP CLOCK/PA SPEAKER UNIT. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM.
2. PROVIDE IP PA SPEAKER. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM.
3. AT EACH WIRELESS ACCESS POINT INDICATED, PROVIDE (2) CATEGORY 6A UTP DATA CABLES WITH MALE CONNECTORS AND 10'-0" OF SLACK COILED CABLE SECURED TO WALL. ROUTE DATA CABLES BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM. WIRELESS ACCESS POINT DEVICE FURNISHED AND INSTALLED BY OWNER.
4. PROVIDE (1) 2-PORT CATEGORY 6A RJ45 DATA JACKS AND (2) CATEGORY 6A DATA CABLES ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 FROM EACH LOCATION, UNLESS OTHERWISE NOTED.
5. PROVIDE FLUSH MOUNTED DOOR CONTACT(S) UTC INTERLOGIX 1078C-N INSTALLED FLUSH IN DOOR FRAME FLUSH AT TOP OF DOOR. PROVIDE AND INSTALL WIRING DOWN FROM 4" SQUARE JUNCTION BOX 10" ABOVE TOP OF DOOR TO WITHIN DOOR FRAME TO COMPLETE INSTALLATION. PROVIDE #16/2-CODUCTOR CABLE IN 3/4" CONDUIT BACK TO INTRUSION DETECTION SYSTEM PANEL LOCATED IN BASEMENT MECHANICAL ROOM, REFER TO DRAWING OHS E002.
6. INSTALL REQUEST TO EXIT SENSOR FURNISHED BY OWNER MOUNTED ON FRAME AT TOP OF DOOR. PPROVIDE #16/4-CONDUCTOR CABLE IN 3/4" CONDUIT SYSTEM WIRING ROUTED BACK TO ACCESS DOOR CONTROLLER IN ELEC./I.T. 164 ROOM.
7. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY DUCT OF SMOKE DAMPER. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
8. PROVIDE DUCT DETECTOR IN HVAC DUCTWORK. ASSOCIATED DUCT DETECTOR CONTROLS OPENING/CLOSING OPERATION OF SMOKE DAMPER. PROVIDE FINAL CONNECTIONS AS REQUIRED TO DEVICES FOR A COMPLETE AND WORKING SMOKE DAMPER SYSTEM.
9. PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER. PROVIDE WIRING BACK TO NAC PANEL IN STOR. 143C ON FIRST FLOOR. COORDINATE FIRE ALARM CONNECTION WITH MECHANICAL CONTRACTOR.
10. PROVIDE 2#12, 1#12 EGC IN 3/4" CONDUIT UON FROM PANEL PP2 IN STO. 251B TO FIRE/SMOKE DAMPER ACTUATORS. WIRE EACH FIRE/SMOKE DAMPER TO SAME CIRCUIT. COORDINATE POWER CONNECTION WITH MECHANICAL CONTRACTOR.
11. INSTALL IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM.
12. INSTALL PROXIMITY CARD READER FURNISHED BY OWNER MOUNTED AT 48" AFF. PROVIDE #18/6-CONDUCTOR CABLE IN 3/4" CONDUIT UP TO JUNCTION BOX AND ROUTED BACK TO ACCESS DOOR CONTROLLERS TO IDF-CTE IN ELEC./I.T. 164 ROOM.
13. PROVIDE 84" HIGH FREE-STANDING DATA CABINET WITH LOCKABLE PLEXIGLASS FRONT DOOR, TOP MOUNTED FANS, FRONT SIDE MOUNTED WIRING TRAINS EACH SIDE AND 6-PLUG POWER STRIP.
14. PROVIDE (4) 2-DOOR ACCESS DOOR CONTROLLERS AT THIS LOCATION MOUNTED ON WALL AT 60"AFF. PROVIDE (1) CATEGORY 6A DATA CABLE FROM ACCESS DOOR CONTROLLER TO IDF-CTE IN THIS ROOM. TERMINATE IN RACK PATCH PANEL.
15. PROVIDE INSTALLATION OF ALL LOW VOLTAGE WIRING IN DOOR FRAME FROM ELECTRONIC DOOR HARDWARE (DOOR HARDWARE PROVIDED BY GC) UP TO DOOR HARDWARE POWER SUPPLY (POWER SUPPLY PROVIDED BY GC). EC TO MOUNT DOOR POWER SUPPLY ABOVE ACCESSIBLE CEILING OR ABOVE DOOR ON WALL AND PERFORM ALL LOW VOLTAGE CONNECTIONS AND 120 VOLT LINE VOLTAGE CONNECTIONS AT BOTH PIECES OF EQUIPMENT. PROVIDE LOW VOLTAGE WIRING #18/6-CONDUITOR CABLE IN 3/4" CONDUIT FROM DOOR HARDWARE POWER SUPPLY BACK TO ACCESS DOOR CONTROLLER IN ELEC./I.T. 164 ROOM. REFER TO DRAWING E205 FOR 120V WIRE.
16. INSTALL OUTDOOR IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE IN 1" CONDUIT BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM. PROVIDE A WEATHERPROOF 4" SQUARE JUNCTION BOX WITH WEATHERPROOF COVERPLATE AT EACH CAMERA LOCATION TO INSTALL DATA CABLE WITHIN. PROVIDE NON METALLIC LIQUID-TIGHT FROM JUNCTION BOX TO CAMERA MOUNTING BOX AND INSTALL DATA CABLE WITHIN. TERMINATE DATA CABLE IN DATA CABINET AND TO CAMERA.
17. PROVIDE INTRUSION SYSTEM WALL MOUNTED MOTION SENSOR MOUNTED AT 6" BELOW CEILING OR A MAXIMUM OF 9'-6"AFF, UON. PROVIDE (1) PLENUM RATED #18/4-CONDUCTOR ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM, DRAWING OHS E002.
18. PROVIDE INTRUSION DETECTION SYSTEM KEYPAD MOUNTED AT 48" AFF. PROVIDE (1) PLENUM RATED #18/4-CONDUCTOR CABLE ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM, DRAWING OHS E002.
19. PROVIDE NEW VOICE EVAC SYSTEM FIRE ALARM REMOTE ANNUNCIATOR PANEL WITH MICROPHONE MOUNTED AT 50"AFF AND NEW GRAPHICS MAP IN FRAME MOUNTED ABOVE.
20. PROVIDE SMOKE DETECTOR WITH ADDITIONAL SET OF AUXILIARY CONTACTS OR RELAY TO CONNECT TO ELEVATOR SMOKE CURTAIN AND ELEVATOR RECALL FUNCTION. PROVIDE ALL WIRING FOR A COMPLETE AND OPERATIONAL ELEVATOR SMOKE CURTAIN AND CAR RECALL.
21. PROVIDE FAN SHUTDOWN RELAY AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAY TO FIRE ALARM CONTROL PANEL TO SHUTDOWN FAN MOTOR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED. REFER TO DRAWING E002 FOR PANEL LOCATION.
22. PROVIDE EXTERIOR WEATHERPROOF IP PA SPEAKER MOUNTED AT 10'-0"AFF. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM.
23. PROVIDE (1) 24-PORT FIBER OPTICAL SPLICE CABINET PANEL, (4) 48-PORT PATCH PANELS, (2) 60" VERTICAL WIRE MANAGEMENT DEVICES AND (4) HORIZONTAL WIRE MANAGEMENT DEVICES.
24. PROVIDE SURFACE SIDE MOUNTED DOUBLE SIDED IP CLOCK/PA SPEAKER UNIT INSTALLED ON WALL. PROVIDE (2) CATEGORY 6A UTP DATA CABLES BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM.

GENERAL NOTES

A. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE/CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES REQUIRED, TYPICAL FOR ALL FIRE ALARM DEVICES.

B. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUTDOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE AND NATIONAL CODES. PROVIDE FIRE ALARM SHUTDOWN RELAYS IN EACH UNIT.

C. AT AUDIBLE/VISUAL DEVICES SHOWN, THE ADJACENT NUMBER INDICATES CANDELA RATING SETTING. DEVICES TO BE SET AT THESE LEVELS.

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F. SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5'-0" SPACING.

G. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

H. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD, PAINTED TO MATCH EXISTING WALLS.

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K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

M. NOTE EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.

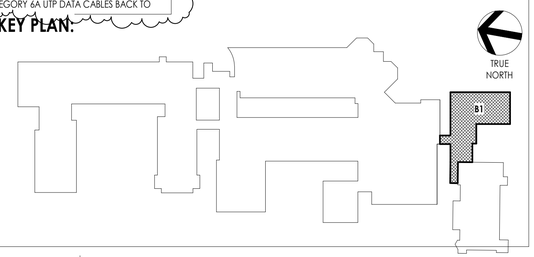
N. FOR DATA/VOICE DROPS SHOWN. PROVIDE FLUSH 2-GANG BOX WITH SINGLE GANG DEVICE RING. INSTALL DATA CABLES CONCEALED WITHIN WALLS USING A 1-1/4" CONDUIT TO ABOVE FINISHED CEILING SPACE.

O. DATA, VOICE, SPEAKER, CAMERA CABLING TO BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS WITHIN SPACES. J-HOOK SPACING NOT TO EXCEED 5'-0" ON CENTER.

P. PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

Q. EC TO INSTALL ALL ACCESS CONTROL DEVICES, IP CAMERAS AND CAMERA MOUNTING BRACKETS FURNISHED BY OWNER THROUGH DAY AUTOMATION VIA NEW YORK STATE CONTRACT. THIS CONTRACT RESPONSIBLE FOR ALL REQUIRED JUNCTION BOXES, FASTENERS, DATA CABLES, LOW VOLTAGE WIRING, CONDUIT, FINAL TERMINATIONS TO DATA RACKS & CAMERAS, WIRE MOLD RACEWAY FOR INSTALLATION OF WIRING IN FINISHED AREAS AND ANY OTHER INSTALLATION MATERIALS REQUIRED TO MAKE COMPLETE AND WORKING ACCESS CONTROL AND IP CAMERA SYSTEMS. PROVIDE FULL PROGRAMMING OF EXISTING ACCESS CONTROL SYSTEM. EXISTING NVR AND NEW NVR SYSTEMS. PROVIDE AIMING OF CAMERAS TO SUIT OWNER VIEWING SATISFACTION. READJUST AIMING AS NEEDED TO SATISFY REQUIREMENT. THE DISTRICTS SECURITY VENDOR IS DAY AUTOMATION SYSTEMS. CONTACT JENN FITZSIMMONS PHONE # (845) 303-3356.

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
04/27/2026	AS NOTED

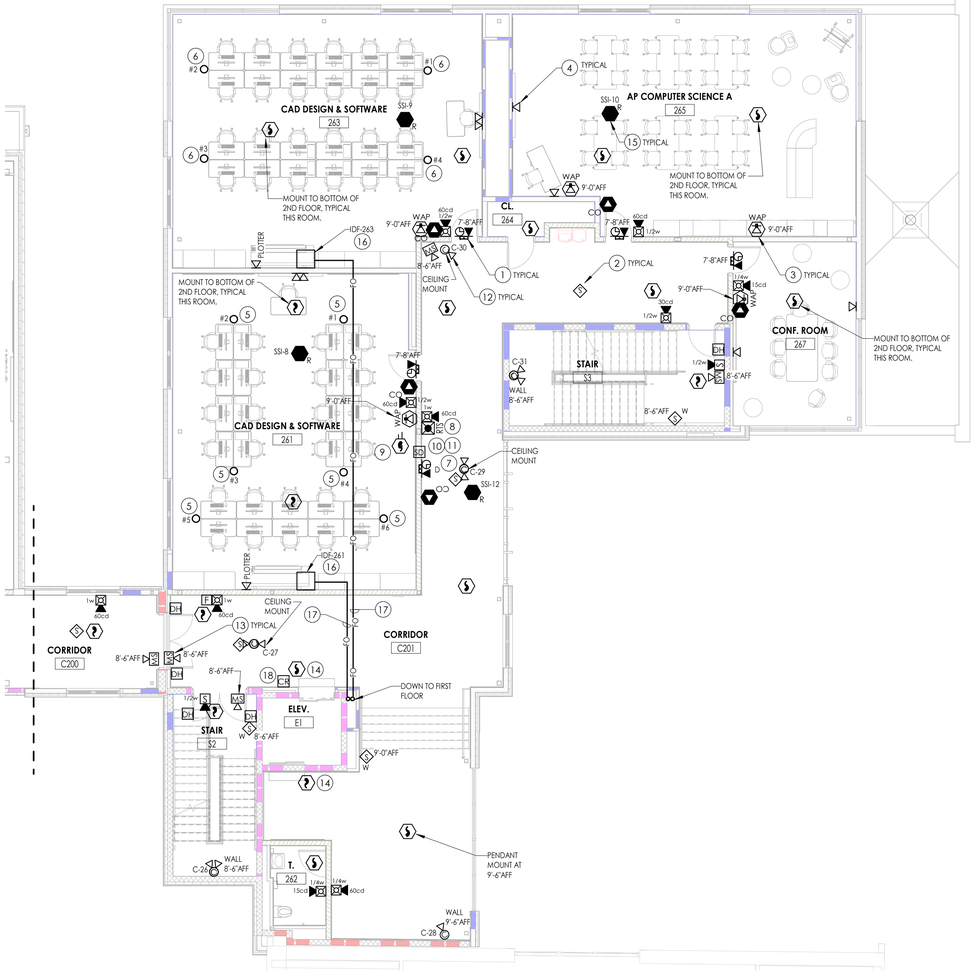
Project Status
BID DOCUMENTS

Drawn By	Checked By
JAS	JBT

Drawing Title
FIRST FLOOR SYSTEMS PLAN - AREA B1

Drawing Number
OHS E405

5/7/2026 8:11:42 AM PROJECT FILES ON ACC



1 E406 **SECOND FLOOR SYSTEMS PLAN - AREA B2**

1/8" = 1'-0"

KEY NOTES

1. PROVIDE SURFACE MOUNTED COMBINATION IP CLOCK/PA SPEAKER UNIT. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405.
2. PROVIDE IP PA SPEAKER. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405.
3. AT EACH WIRELESS ACCESS POINT INDICATED, PROVIDE (2) CATEGORY 6A UTP DATA CABLES WITH MALE CONNECTORS AND 10'-0" OF SLACK COILED CABLE SECURED TO WALL. ROUTE DATA CABLES BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405. WIRELESS ACCESS POINT DEVICE FURNISHED AND INSTALLED BY OWNER.
4. PROVIDE (1) 2-PORT CATEGORY 6A RJ45 DATA JACKS AND (2) CATEGORY 6A DATA CABLES ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 FROM EACH LOCATION, UNLESS OTHERWISE NOTED.
5. PROVIDE (2) 6-PORT CATEGORY 6A RJ45 DATA JACKS WITH COVERPLATES INSTALLED IN POWER/DATA POLE KNOCKOUTS. PROVIDE (12) CATEGORY 6A DATA CABLES ROUTED WITHIN POWER POLES FED FROM ABOVE BACK TO IDF-261 IN THIS ROOM.
6. PROVIDE (2) 6-PORT CATEGORY 6A RJ45 DATA JACKS WITH COVERPLATES INSTALLED IN POWER/DATA POLE KNOCKOUTS. PROVIDE (12) CATEGORY 6A DATA CABLES ROUTED WITHIN POWER POLES FED FROM ABOVE BACK TO IDF-263 IN THIS ROOM.
7. PROVIDE SURFACE SIDE MOUNTED DOUBLE SIDED IP/CLOCK UNIT INSTALLED ON WALL. PROVIDE (2) CATEGORY 6A UTP DATA CABLES BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 FROM EACH LOCATION.
8. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY DUCT OF SMOKE DAMPER. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
9. PROVIDE DUCT DETECTOR IN HVAC DUCTWORK. ASSOCIATED DUCT DETECTOR CONTROLS OPENING/CLOSING OPERATION OF SMOKE DAMPER. PROVIDE FINAL CONNECTIONS AS REQUIRED TO DEVICES FOR A COMPLETE AND WORKING SMOKE DAMPER SYSTEM.
10. PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER. PROVIDE WIRING BACK TO NAC PANEL IN STOR. 143C ON FIRST FLOOR. COORDINATE FIRE ALARM CONNECTION WITH MECHANICAL CONTRACTOR.
11. PROVIDE 2#12, 1#12 EGC IN 3/4" CONDUIT UON FROM PANEL PP5A, CIRCUIT 10 IN CORRIDOR C201 TO FIRE/SMOKE DAMPER ACTUATORS. WIRE EACH FIRE/SMOKE DAMPER TO SAME CIRCUIT. COORDINATE POWER CONNECTION WITH MECHANICAL CONTRACTOR.
12. INSTALL IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 FROM EACH LOCATION.
13. PROVIDE INTRUSION SYSTEM WALL MOUNTED MOTION SENSOR MOUNTED AT 6" BELOW CEILING OR A MAXIMUM OF 9'-6"AFF. PROVIDE (1) PLENUM RATED # 18/4-CONDUCTOR CABLE ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM, DRAWING OHS E002.
14. PROVIDE SMOKE DETECTOR WITH ADDITIONAL SET OF AUXILIARY CONTACTS OR RELAY TO CONNECT TO ELEVATOR SMOKE CURTAIN AND ELEVATOR RECALL FUNCTION. PROVIDE ALL WIRING FOR A COMPLETE AND OPERATIONAL ELEVATOR SMOKE CURTAIN AND CAR RECALL.
15. PROVIDE FAN SHUTDOWN RELAY AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAY TO FIRE ALARM CONTROL PANEL TO SHUTDOWN FAN MOTOR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED. REFER TO DRAWING OHS E002 FOR PANEL LOCATION.
16. PROVIDE 24" HIGH WALL MOUNTED DATA CABINET WITH LOCKABLE PLEXIGLASS FRONT DOOR. TOP MOUNTED FANS. (1) 12-PORT FIBER OPTICAL SPLICE CABINET PANEL. (2) 24-PORT 6A PATCH PANELS. FRONT SIDE MOUNTED WIRING TRAINS EACH SIDE AND 6-PLUG POWER STRIP. MOUNT CABINET 6'-0"AFF.
17. PROVIDE 6-STRAND INDOOR/OUTDOOR MULTIMODE FIBER OPTIC CABLE IN 1" INNERDUCT DOWN TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR. REFER TO DRAWING OHS E405.
18. INSTALL PROXIMITY CARD READER FURNISHED BY OWNER MOUNTED ON WALL NEXT TO ELEVATOR DOOR FOR ELEVATOR ACCESS CONTROL. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT FROM PROXIMITY CARD READER LOCATION TO A POINT ABOVE FINISHED CEILING. INSTALL SECURITY ENTRY TOUCH PANEL FURNISHED BY OWNER AT LOCATION INDICATED. PROVIDE ALL NECESSARY CONDUIT/WIRING AND MISCELLANEOUS COMPONENTS FOR FINAL CONNECTION FROM TOUCH PANEL TO READER CONTROLLER IN ELEC./IT. 164 ROOM. REFER TO DRAWING OHS E405. CONTRACTOR SHALL COORDINATE INSTALLATION WITH SECURITY INTEGRATOR DAY AUTOMATION TO ENSURE A COMPLETE AND WORKING SYSTEM.

GENERAL NOTES

A. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE/CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES REQUIRED, TYPICAL FOR ALL FIRE ALARM DEVICES.

B. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUTDOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE AND NATIONAL CODES. PROVIDE FIRE ALARM SHUTDOWN RELAYS IN EACH UNIT.

C. AT AUDIBLE/VISUAL DEVICES SHOWN, THE ADJACENT NUMBER INDICATES CANDELA RATING SETTING. DEVICES TO BE SET AT THESE LEVELS.

D. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS.

E. NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT UPON ACTIVATION OF FIRE ALARM SYSTEM.

F. SYSTEMS CABLING SHALL BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5'-0" SPACING.

G. INITIATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

H. FIRE ALARM CABLING RUN EXPOSED IN UNFINISHED AREAS SHALL BE INSTALLED IN EMT CONDUIT AND PAINTED TO MATCH EXISTING WALL/CEILING FINISH. HORIZONTAL RUNS THROUGH WALLS AND VERTICAL RUNS THROUGH FLOORS SHALL BE SLEEVED IN EMT CONDUIT AND FIRE CAULKED. ALL FIRE ALARM CABLING RUN EXPOSED IN FINISHED SPACES SHALL BE INSTALLED IN 500 SERIES STEEL WIREMOLD, PAINTED TO MATCH EXISTING WALLS.

I. ADDRESSABLE DEVICES SHOULD ONLY BE INSTALLED IN AREAS WHERE AMBIENT TEMPERATURE IS BETWEEN 32° AND100° F, UNLESS SPECIFICALLY RATED FOR OTHER TEMPERATURES.

J. MOUNT SMOKE DETECTORS WITHIN 5 FEET OF DOORS THAT CLOSE ON FIRE ALARM ACTIVATION. REFER TO NFPA 72 FOR THE MINIMUM DISTANCE A SMOKE DETECTOR CAN BE FROM DOOR.

K. FOR PUBLIC MODE, WALL MOUNTED VISUALS OR AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. REFER TO NFPA 72 FOR CEILING MOUNTED VISUALS. REFER TO NFPA FOR SPACING OF STROBES. WHERE CEILING HEIGHTS ALLOW, WALL MOUNTED AUDIBLE ONLY APPLIANCES SHALL HAVE THEIR TOPS ABOVE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90".

L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

M. NOTE EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM EXACT LOCATIONS OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.

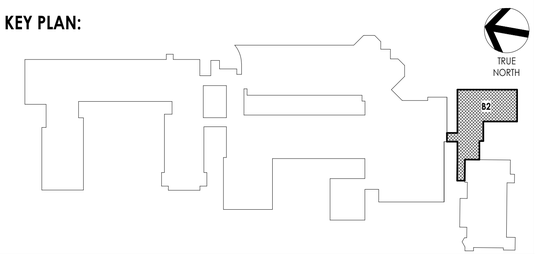
N. FOR DATA/VOICE DROPS SHOWN. PROVIDE FLUSH 2-GANG BOX WITH SINGLE GANG DEVICE RING. INSTALL DATA CABLES CONCEALED WITHIN WALLS USING A 1-1/4" CONDUIT TO ABOVE FINISHED CEILING SPACE.

O. DATA, VOICE, SPEAKER, CAMERA CABLING TO BE RUN IN FREE-AIR AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS WITHIN SPACES. J-HOOK SPACING NOT TO EXCEED 5'-0" ON CENTER.

P. PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

Q. EC TO INSTALL ALL ACCESS CONTROL DEVICES, IP CAMERAS AND CAMERA MOUNTING BRACKETS FURNISHED BY OWNER THROUGH DAY AUTOMATION VIA NEW YORK STATE CONTRACT. THIS CONTRACT RESPONSIBLE FOR ALL REQUIRED JUNCTION BOXES, FASTENERS, DATA CABLES, LOW VOLTAGE WIRING, CONDUIT, FINAL TERMINATIONS TO DATA RACKS & CAMERAS, WIRE MOLD RACEWAY FOR INSTALLATION OF WIRING IN FINISHED AREAS AND ANY OTHER INSTALLATION MATERIALS REQUIRED TO MAKE COMPLETE AND WORKING ACCESS CONTROL AND IP CAMERA SYSTEMS. PROVIDE FULL PROGRAMMING OF EXISTING ACCESS CONTROL SYSTEM. EXISTING NVR AND NEW NVR SYSTEMS. PROVIDE AIMING OF CAMERAS TO SUIT OWNER VIEWING SATISFACTION, READJUST AIMING AS NEEDED TO SATISFY REQUIREMENT. THE DISTRICT'S SECURITY VENDOR IS DAY AUTOMATION SYSTEMS, CONTACT JENN FITZSIMMONS PHONE # (845) 303-3356.

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
04/27/2026

Scale
AS NOTED

Project Status
BID DOCUMENTS

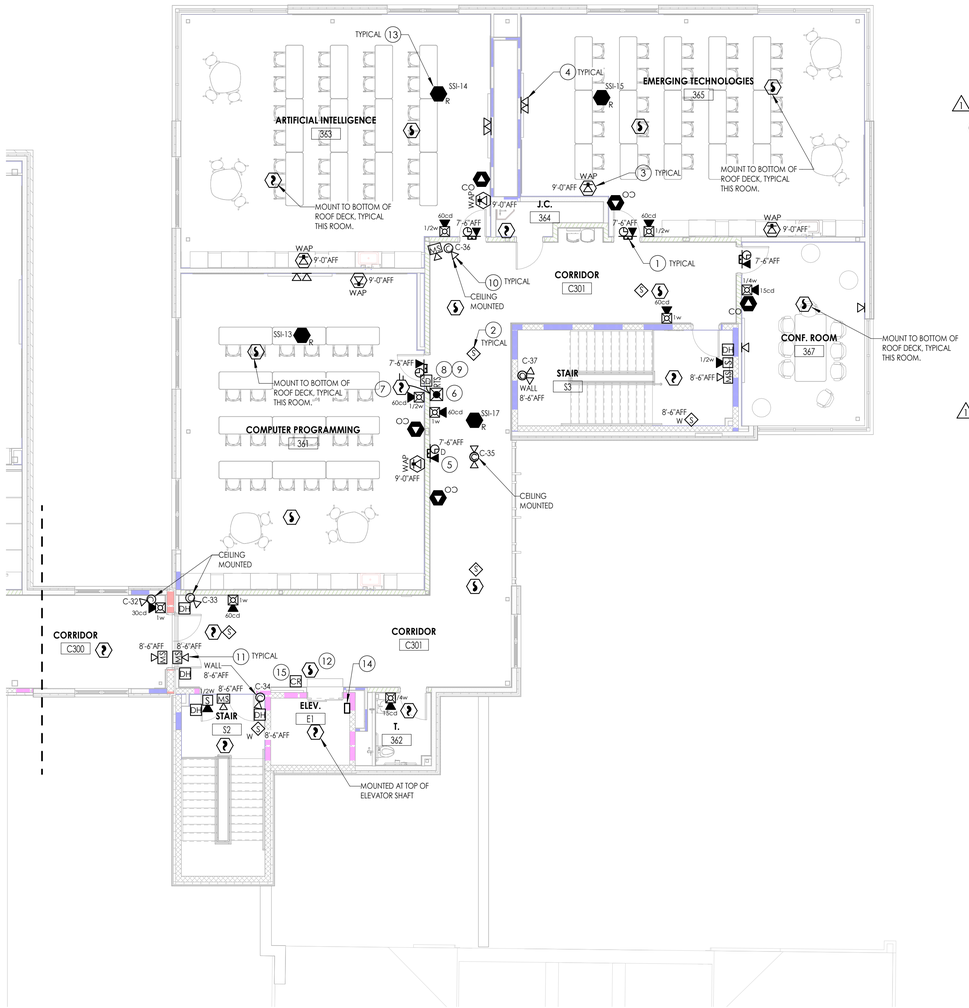
Drawn By
JAS

Checked By
JBT

Drawing Title
SECOND FLOOR SYSTEMS PLAN - AREA B2

Drawing Number
OHS E406

5/7/2026 8:10:49 AM PROJECT FILES ON ACC



1 E407 **THIRD FLOOR SYSTEMS PLAN - AREA B3**

1/8" = 1'-0"

KEY NOTES

1. PROVIDE SURFACE MOUNTED COMBINATION IP CLOCK/PA SPEAKER UNIT. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405.
2. PROVIDE IP PA SPEAKER. PROVIDE (1) CATEGORY 6A UTP DATA CABLE BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405.
3. AT EACH WIRELESS ACCESS POINT INDICATED, PROVIDE (2) CATEGORY 6A UTP DATA CABLES WITH MALE CONNECTORS AND 10'-0" OF SLACK COILED CABLE SECURED TO WALL. ROUTE DATA CABLES BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405. WIRELESS ACCESS POINT DEVICE FURNISHED AND INSTALLED BY OWNER.
4. PROVIDE (1) 2-PORT CATEGORY 6A RJ45 DATA JACKS AND (2) CATEGORY 6A DATA CABLES ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 FROM EACH LOCATION, UNLESS OTHERWISE NOTED.
5. PROVIDE SURFACE SIDE MOUNTED DOUBLE SIDED IP CLOCK/PA SPEAKER UNIT INSTALLED BACK TO BACK. PROVIDE (2) CATEGORY 6A UTP DATA CABLES BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 FROM EACH LOCATION.
6. PROVIDE WALL MOUNTED REMOTE TEST SWITCH. SWITCH IS ASSOCIATED WITH DUCT SMOKE DETECTOR IN SUPPLY DUCT OF SMOKE DAMPER. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. PROVIDE DUCT DETECTOR IN HVAC DUCTWORK. ASSOCIATED DUCT DETECTOR CONTROLS OPENING/CLOSING OPERATION OF SMOKE DAMPER. PROVIDE FINAL CONNECTIONS AS REQUIRED TO DEVICES FOR A COMPLETE AND WORKING SMOKE DAMPER SYSTEM.
8. PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER. PROVIDE WIRING BACK TO NAC PANEL IN STOR. 143C ON FIRST FLOOR. COORDINATE FIRE ALARM CONNECTION WITH MECHANICAL CONTRACTOR.
9. PROVIDE 2#12, 1#12 EGC IN 3/4" CONDUIT UON FROM PANEL PP7A, CIRCUIT 22 IN CORRIDOR C301 TO FIRE/SMOKE DAMPER ACTUATORS. WIRE EACH FIRE/SMOKE DAMPER TO SAME CIRCUIT. COORDINATE POWER CONNECTION WITH MECHANICAL CONTRACTOR.
10. INSTALL IP CAMERA FURNISHED BY OWNER. PROVIDE (1) CATEGORY 6A DATA CABLE ROUTED BACK TO IDF-CTE IN ELEC./I.T. 164 ROOM ON FIRST FLOOR, DRAWING OHS E405 FROM EACH LOCATION.
11. PROVIDE INTRUSION SYSTEM WALL MOUNTED MOTION SENSOR MOUNTED AT 6" BELOW CEILING OR A MAXIMUM OF 9'-6"AFF. PROVIDE (1) PLENUM RATED # 18/4-CONDUCTOR CABLE ROUTED BACK TO EXISTING INTRUSION DETECTION PANEL IN BOILER ROOM, DRAWING OHS E002.
12. PROVIDE SMOKE DETECTOR WITH ADDITIONAL SET OF AUXILIARY CONTACTS OR RELAY TO CONNECT TO ELEVATOR SMOKE CURTAIN AND ELEVATOR RECALL FUNCTION. PROVIDE ALL WIRING FOR A COMPLETE AND OPERATIONAL ELEVATOR SMOKE CURTAIN AND CAR RECALL.
13. PROVIDE FAN SHUTDOWN RELAY AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAY TO FIRE ALARM CONTROL PANEL TO SHUTDOWN FAN MOTOR WHEN THE FIRE ALARM SYSTEM IS ACTIVATED. REFER TO DRAWING E002 FOR PANEL LOCATION.
14. PROVIDE FIRE ALARM DEVICES AND ASSOCIATED WIRING TO CONNECT TO ELEVATOR CONTROL PANEL. COORDINATE WITH ELEVATOR MANUFACTURERS INSTALLATION GUIDES.
15. INSTALL PROXIMITY CARD READER FURNISHED BY OWNER MOUNTED ON WALL NEXT TO ELEVATOR DOOR FOR ELEVATOR ACCESS CONTROL. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT FROM PROXIMITY CARD READER LOCATION TO A POINT ABOVE FINISHED CEILING. INSTALL SECURITY ENTRY TOUCH PANEL FURNISHED BY OWNER AT LOCATION INDICATED. PROVIDE ALL NECESSARY CONDUIT/WIRING AND MISCELLANEOUS COMPONENTS FOR FINAL CONNECTION FROM TOUCH PANEL TO READER CONTROLLER IN ELEC./IT. 164 ROOM. REFER TO DRAWING OHS E405. CONTRACTOR SHALL COORDINATE INSTALLATION WITH SECURITY INTEGRATOR DAY AUTOMATION TO ENSURE A COMPLETE AND WORKING SYSTEM.

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L. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3-1/2 FEET BUT LESS THAN 4-1/2 FEET ABOVE THE FLOOR. REFER TO NFPA FOR SPACING OF DEVICES.

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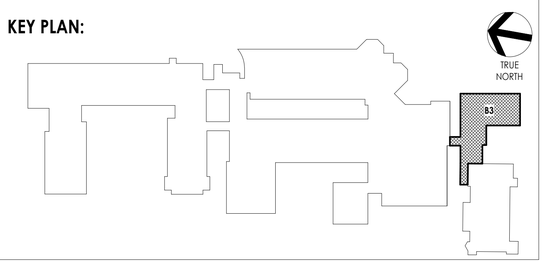
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P. PROVIDE 2-HOUR FIRE SEALING OF ALL FIRST TO SECOND FLOOR CONDUIT/WIRING PENETRATIONS THROUGH FLOOR.

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KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued	Scale
04/27/2026	AS NOTED

Project Status
BID DOCUMENTS

Drawn By	Checked By
JAS	JBT

Drawing Title
THIRD FLOOR SYSTEMS PLAN - AREA B3

Drawing Number
OHS E407

5/7/2026 8:03:57 AM PROJECT FILES ON ACC

PANEL: MDP1

LOCATION: STO. 145C
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: EXISTING SWITCHBOARD 'SWBD1'
MOUNTING: Wall Mounted

A.I.C. RATING: 65K
MCB RATING: 1200 MCB
MAIN BUS RATING: 1200 A

C...	BRKR		LOAD DESCRIPTION	A	B	C	LOAD DESCRIPTION	BRKR		C...
1				474200	7987					2
3	800	3	MDP2 (CTE ADDITION FIRST FLOOR)		96460	8960	PP3A (THIRD FLOOR)	3	225	4
5						94896	7928			6
7				10818	6626					8
9	225	3	PP1 (FIRST FLOOR)		9217	8540	PP3B (THIRD FLOOR)	3	225	10
11						9024	8720			12
13				6904	7229					14
15	225	3	PP2 (SECOND FLOOR)		6120	7229	SSO-1 (ROOF)	3	70	16
17						3732	7229			18
19				7758	14315					20
21	90	3	RTU-1 (ROOF)		7758	14315	DOAS-1 (ROOF)	3	175	22
23						7758	14315			24
25				8214	0					26
27	225	3	MP1 (FIRST FLOOR)		8214	0	SPARE	3	100	28
29						8214	0			30
31				0	0					32
33	225	3	MP1		0	0	SPARE	3	100	34
35						0	0			36
37				0	0					38
39	225	3	SPARE		0	0	PV SOLAR	3	125	40
41						0	0			42
			TOTAL LOAD	544049 VA		166812 VA	161816 VA			

1 — EWH-3 (BASEMENT EYEWASH WATER HEATER) — 175 A — 3 — 225 — BRKR — 39, 41

ALTERNATE EC-3
BASE BID PROVIDE
100A/3P SPARE.

PANEL: MDP2

LOCATION: ELEC./I.T. 164
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: MDP1
MOUNTING: Wall Mounted

A.I.C. RATING: 65K
MCB RATING: 800A MCB
MAIN BUS RATING: 800 A

C...	BRKR		LOAD DESCRIPTION	A (VA)	B (VA)	C (VA)	LOAD DESCRIPTION	BRKR		C...
1				5517	6017					2
3	225	3	PPB (BASEMENT)		4550	3581	PP6A (SECOND FLOOR)	3	225	4
5						4646	5026			6
7				4639	3663					8
9	150	3	PP4 (FIRST FLOOR)		8777	3174	PP6B (SECOND FLOOR)	3	225	10
11						1841	2000			12
13				12688	3563					14
15	225	3	PP5A (FIRST FLOOR)		6934	1634	PP6C (SECOND FLOOR)	3	225	16
17						2302	1862			18
19				3564	18267					20
21	225	3	PP5B (FIRST FLOOR)		2482	13957	PP7C (THIRD FLOOR)	3	225	22
23						5152	13777			24
25				3271	376700					26
27	225	3	PP5C (FIRST FLOOR)		4949	11137	PP7A (THIRD FLOOR)	3	225	28
29						6996	13504			30
31				12886	7455					32
33	150	3	DOAS-2 (ROOF)		12886	6426	PP7B (THIRD FLOOR)	3	225	34
35						12886	8932			36
37				15972	0					38
39	175	3	EWH-3 (BASEMENT EYEWASH WATER HEATER)		15972	0	SPARE	3	225	40
41						15972	0			42
43				0	0					44
45	225	3	SPARE		0	0	SPARE	3	100	46
47						0	0			48
49				0	0					50
51	100	3	SPARE		0	0	SPACE & BUS	3	100	52
53						0	0			54
			TOTAL LOAD	474200 VA		96460 VA	94896 VA			

1 — EWH-4 (BASEMENT EYEWASH WATER HEATER) — 175 A — 3 — 225 — BRKR — 37, 39

PANEL: PPB

LOCATION: MECH. 060
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: MDP2
MOUNTING: SURFACE

A.I.C. RATING: 22K
MCB RATING: 225A MCB
MAIN BUS RATING: 225 A

C...	BRKR		LOAD DESCRIPTION	A (VA)	B (VA)	C (VA)	LOAD DESCRIPTION	BRKR		C...
1	20	1	RECEPTACLES MECH 060	1080	360		RECEPTACLE ELEVATOR PUMP ESP-1	1	20	2
3	20	1	BOILER B-4		720	564				4
5	20	1	BOILER B-5			720	564 PUMP P-9	3	15	6
7				1321	564					8
9	20	3	PUMP P-6		1321	540				10
11						1321	540 PUMP P-8	3	15	12
13				1321	540					14
15	20	3	PUMP P-7		1321	84	UH-3 MECH 060	1	15	16
17						1321	180 RECEPTACLE ESP1 MECH. 060	1	20	18
19	20	1	LIGHTING	332	0		SPARE	1	20	20
21	20	1	SITE LIGHTING BOLLARDS		0	0	SPARE	1	20	22
23	20	1	SPARE			0	0 SPARE	1	20	24
25	20	1	SPARE	0	0		SPARE	1	20	26
27	20	1	SPARE		0	0	SPARE	1	20	28
29	20	1	SPARE			0	0 SPARE	1	20	30
31	20	1	SPARE	0	0		SPARE	1	20	32
33	20	1	SPARE		0	0	SPARE	1	20	34
35	--	1	SPACE & BUS			--	-- SPACE & BUS	1	--	36
37	--	1	SPACE & BUS	--	--		SPACE & BUS	1	--	38
39	--	1	SPACE & BUS		--	--	SPACE & BUS	1	--	40
41	--	1	SPACE & BUS			--	-- SPACE & BUS	1	--	42
			TOTAL LOAD	5517 VA		4550 VA	4646 VA			

EQUIPMENT WIRING SCHEDULE

ITEM #	MARK	LOCATION	VOLTS	PH	AMPS	WIRING/CONDUIT	BREAKER	PANEL	CCT	REMARKS
1	CUH-1	ENTRY/LOBBY 146	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP1	18	1
2	CUH-2	WOMEN'S LOCKER ROOM 144	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP1	19	1
3	CUH-3	MEN'S LOCKER ROOM 145	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP1	20	1
4	CUH-4	STAIR S1	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP1	21	1
5	CUH-5	CORRIDOR C200	120 V	1	1.40 A	(2)#12, #12 IN 3/4"C	15/1	PP2	29	1
6	CUH-6	CORRIDOR C300	120 V	1	1.40 A	(2)#12, #12 IN 3/4"C	15/1	PP3A	18	1
7	CUH-7	CORRIDOR C100	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP4	12	1
8	CUH-8	CORRIDOR C201	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP6A	28	1
9	CUH-9	CORRIDOR C301	120 V	1	0.80 A	(2)#12, #12 IN 3/4"C	15/1	PP7A	9	1
10	CUH-10	STAIR S2	120 V	1	1.40 A	(2)#12, #12 IN 3/4"C	15/1	PP4	12	1
11	CUH-11	STAIR S3	120 V	1	1.40 A	(2)#12, #12 IN 3/4"C	15/1	PP4	12	1
12	CUH-12	STAIR S2	120 V	1	1.40 A	(2)#12, #12 IN 3/4"C	15/1	PP7A	20	1
13	CUH-13	STAIR S3	120 V	1	1.40 A	(2)#12, #12 IN 3/4"C	15/1	PP7A	20	1
14	BOILER B-1	STORAGE/MECH.	120 V	1	6.00 A	(2)#12, #12 IN 3/4"C	20/1	BP	14	1
15	BOILER B-2	STORAGE/MECH.	120 V	1	6.00 A	(2)#12, #12 IN 3/4"C	20/1	BP	16	1
16	BOILER B-3	STORAGE/MECH.	120 V	1	6.00 A	(2)#12, #12 IN 3/4"C	20/1	BP	18	1
17	BOILER B-4	MECH. 060	120 V	1	6.00 A	(2)#12, #12 IN 3/4"C	20/1	PPB	3	1
18	BOILER B-5	MECH. 060	120 V	1	6.00 A	(2)#12, #12 IN 3/4"C	20/1	PPB	5	1
19	SSI-1	ANATOMY/PHYSIOLOGY 351	208 V	1	9.50 A	(2)#12, #12 IN 3/4"C	15/2	PP3A	17,19	3
20	SSI-2	LIFE SCIENCE BIOLOGY 353	208 V	1	9.50 A	(2)#12, #12 IN 3/4"C	15/2	PP3A	31,33	3
21	SSI-3	FORENSIC LAB/BIOTECH ENG. 355	208 V	1	9.00 A	(2)#12, #12 IN 3/4"C	15/2	PP3A	35,37	3
22	SSI-4	COMPUTER INTEGRATED MANUFACTURING 161	208 V	1	3.10 A	(2)#12, #12 IN 3/4"C	15/2	PP5A	9,11	3
23	SSI-5	COMPUTER INTEGRATED MANUFACTURING 163	208 V	1	3.10 A	(2)#12, #12 IN 3/4"C	15/2	PP5B	8,10	3
24	SSI-6	ROBOTICS 165	208 V	1	3.60 A	(2)#12, #12 IN 3/4"C	15/2	PP5C	16,18	3
25	SSI-7	CORRIDOR C100	208 V	1	3.00 A	(2)#12, #12 IN 3/4"C	15/2	PP4	11,13	3
26	SSI-8	CAD DESIGN & SOFTWARE 261	208 V	1	3.60 A	(2)#12, #12 IN 3/4"C	15/2	PP6A	23,25	3
27	SSI-9	CAD DESIGN & SOFTWARE 263	208 V	1	3.60 A	(2)#12, #12 IN 3/4"C	15/2	PP6B	13,15	3
28	SSI-10	AP COMPUTER SCIENCE A 265	208 V	1	3.60 A	(2)#12, #12 IN 3/4"C	15/2	PP6C	8,10	3
29	SSI-11	CONF. ROOM 267	208 V	1	0.60 A	(2)#12, #12 IN 3/4"C	15/2	PP6C	12,14	3
30	SSI-12	CORRIDOR C201	208 V	1	3.00 A	(2)#12, #12 IN 3/4"C	15/2	PP6A	27,29	3
31	SSI-13	COMPUTER PROGRAMMING 361	208 V	1	3.10 A	(2)#12, #12 IN 3/4"C	15/2	PP7A	10,12	3
32	SSI-14	ARTIFICIAL INTELLIGENCE 363	208 V	1	3.60 A	(2)#12, #12 IN 3/4"C	15/2	PP7B	8,10	3
33	SSI-15	EMERGING TECHNOLOGIES 365	208 V	1	3.60 A	(2)#12, #12 IN 3/4"C	15/2	PP7C	9,11	3
34	SSI-16	CONF. ROOM 367	208 V	1	0.60 A	(2)#12, #12 IN 3/4"C	15/2	PP7C	10,12	3
35	SSI-17	CORRIDOR C301	208 V	1	3.00 A	(2)#12, #12 IN 3/4"C	15/2	PP7A	13,15	3
36	SSI-18	STORAGE/I.T. 145C	208 V	1	12.00 A	(2)#12, #12 IN 3/4"C	15/2	WIRE TO SSO-6 UNIT ON ROOF		3
37	SSI-19	ELEC./I.T. 164	208 V	1	0.30 A	(2)#12, #12 IN 3/4"C	15/2	WIRE TO SSO-7 UNIT ON ROOF		3
38	SSI-20	SECURITY OFFICE	208 V	1	0.30 A	(2)#12, #12 IN 3/4"C	15/2	PP1	27,29	3
39	SSI-21	SECURITY CONFERENCE	208 V	1	0.30 A	(2)#12, #12 IN 3/4"C	15/2	PP1	27,29	3
40	SSO-1	ROOF	208 V	3	60.20 A	(3)#4, #8 IN 1-1/4"C	70/3	MDP1	14,16,18	1
41	SSO-2	ROOF	208 V	3	39.90 A	(3)#8, #10 IN 3/4"C	40/3	PP7A	14,16,18	1
42	SSO-3	ROOF	208 V	3	39.90 A	(3)#8, #10 IN 3/4"C	40/3	PP7B	7,9,11	1
43	SSO-4	ROOF	208 V	3	64.20 A	(3)#4, #8 IN 1-1/4"C	70/3	PP7C	13,15,17	1
44	SSO-5	ROOF	208 V	3	34.90 A	(3)#8, #10 IN 3/4"C	40/3	PP7C	14,16,18	1
45	SSO-6	ROOF	208 V	1	12.30 A	(2)#12, #12 IN 3/4"C	20/2	PP3A	27,29	1
46	SSO-7	ROOF	208 V	1	12.30 A	(2)#12, #12 IN 3/4"C	15/2	PP7A	17,19	1
47	SSO-8	ROOF	208 V	1	30.50 A	(2)#12, #12 IN 3/4"C	40/3	PP1	31,33	1
48	EF-1	ROOF	120 V	1	0.86 A	(2)#12, #12 IN 3/4"C	15/1	PP6A	31	1, 4
49	EF-2	ROOF	120 V	1	7.25 A	(2)#12, #12 IN 3/4"C	20/1	PP3A	21	1, 4
50	EF-3	ROOF	208 V	3	4.60 A	(3)#12, #12 IN 3/4"C	20/3	PP3A	22,24,26	1, 4
51	EF-4	ROOF	120 V	1	0.86 A	(2)#12, #12 IN 3/4"C	15/1	PP7A	24	1, 4
52	EF-5	J.C. 251A	120 V	1	0.20 A	(2)#12, #12 IN 3/4"C	20/1	PP2	34	1, 4
53	RTU-1	ROOF	208 V	3	64.60 A	(3)#4, #8 IN 1-1/4"C	70/3	MDP1	19,21,23	1, 4
54	DOAS-1	ROOF	208 V	3	119.20 A	(3)#1/0, #6 IN 2"C	150/3	MDP1	20,22,24	1, 4
55	DOAS-2	ROOF	208 V	3	107.30 A	(3)#1/0, #6 IN 2"C	150/3	MDP2	31,33,35	1, 4
56	PUMP P-1	STORAGE/MECH.	208 V	3	13.50 A	(3)#12, #12 IN 3/4"C	20/3	BP	1,3,5	6
57	PUMP P-2	STORAGE/MECH.	208 V	3	13.50 A	(3)#12, #12 IN 3/4"C	20/3	BP	2,4,6	6
58	PUMP P-3	STORAGE/MECH.	208 V	3	4.50 A	(3)#12, #12 IN 3/4"C	15/3	BP	7,9,11	7
59	PUMP P-4	STORAGE/MECH.	208 V	3	4.50 A	(3)#12, #12 IN 3/4"C	20/3	BP	8,10,12	7
60	PUMP P-5	STORAGE/MECH.	208 V	3	4.50 A	(3)#12, #12 IN 3/4"C	15/3	BP	13,15,17	7
61	PUMP P-6	MECH. 060	208 V	3	11.00 A	(3)#12, #12 IN 3/4"C	20/3	PPB	7,9,11	6
62	PUMP P-7	MECH. 060	208 V	3	11.00 A	(3)#12, #12 IN 3/4"C	20/3	PPB	13,15,17	6
63	PUMP P-8	MECH. 060	208 V	3	4.50 A	(3)#12, #12 IN 3/4"C	15/3	PPB	10,12,14	7
64	PUMP P-9	MECH. 060	208 V	3	4.50 A	(3)#12, #12 IN 3/4"C	15/3	PPB	4,6,8	7
65	BC-1	GYMNASIUM G1	208 V	3	17.10 A	(3)#10, #10 IN 3/4"C	30/3	MP1	1,3,5	1, 4
66	BC-2	GYMNASIUM G1	208 V	3	17.10 A	(3)#10, #10 IN 3/4"C	30/3	MP1	7,9,11	1, 4
67	BC-3	GYMNASIUM G1	208 V	3	17.10 A	(3)#10, #10 IN 3/4"C	30/3	MP1	2,4,6	1, 4
68	BC-4	GYMNASIUM G1	208 V	3	17.10 A	(3)#10, #10 IN 3/4"C	30/3	MP1	8,10,12	1, 4
69	UH-1	MECH. 060	120 V	1	0.70 A	(2)#12, #12 IN 3/4"C	15/1	BP	19	1
70	UH-2	STORAGE/MECH.	120 V	1	0.70 A	(2)#12, #12 IN 3/4"C	15/1	BP	20	1
71	UH-3	STORAGE/MECH.	120 V	1	0.70 A	(2)#12, #12 IN 3/4"C	15/1	PPB	16	1
72	UH-4	STORAGE 150	120 V	1	0.70 A	(2)#12, #12 IN 3/4"C	15/1	PP1	22	1
73	EWH-1	T. 162	120 V	1	30.00 A	(2)#10, #10 IN 3/4"C	30/1	PP4	9	2
74	EWH-1	COMPUTER INTEGRATED MANUFACTURING 161	120 V	1	30.00 A	(2)#10, #10 IN 3/4"C	30/1	PP5A	8	2
75	EWH-1	CPMPUTER INTEGRATED MANUFACTURING 163	120 V	1	30.00 A	(2)#10, #10 IN 3/4"C	30/1	PP5B	6	2
76	EWH-1	ROBOTICS 165	120 V	1	30.00 A	(2)#10, #10 IN 3/4"C	30/1	PP5C	17	2
77	EWH-2	J.C. 166	208 V	1	48.00 A	(2)#8, #8 IN 3/4"C	50/2	PP5A	13,15	5
78	EWH-1	T. 262	120 V	1	29.00 A	(2)#10, #10 IN 3/4"C	30/1	PP4	10	2
79	EWH-1	COMPUTER PROGRAMMING 361	120 V	1	29.00 A	(2)#10, #10 IN 3/4"C	30/1	PP7A	21	2
80	EWH-1	ARTIFICIAL INTELLIGENCE 363	120 V	1	29.00 A	(2)#10, #10 IN 3/4"C	30/1	PP7B	6	2
81	EWH-1	EMERGING TECHNOLOGIES 365	120 V	1	29.00 A	(2)#10, #10 IN 3/4"C	30/1	PP7C	8	2
82	EWH-2	J.C. 364	208 V	1	48.00 A	(2)#8, #8 IN 3/4"C	50/2	PP7A	23,25	5
83	ERV-1	STORAGE 150	208 V	3	16.10 A	(3)#12, #12 IN 3/4"C	20/3	PP1	26,28,30	1
84	EWH-1	T. 362	120 V	1	29.00 A	(2)#10, #10 IN 3/4"C	30/1	PP7A	26	2
1 85	EWH-8	STORAGE/MECH.	208 V	3	133.00 A	(3)#1/0, #6 IN 1-1/2"C	175/3	MDP2	37,39,41	

EQUIPMENT SCHEDULE NOTES:
1. ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE LINE SIDE CONNECTIONS TO EQUIPMENT DISCONNECT OF UNIT. DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR.
2. PROVIDE MANUAL 1-POLE, 120 VOLT 30 AMP RATED SNAP SWITCH INSTALLED ADJACENT TO THE EWH UNIT FOR LOCAL NEC DISCONNECT MEANS. INSTALL CONDUCTORS FROM MOTOR RATED SWITCH TO UNIT USING LFMC AND COMPATIBLE FITTINGS. COORDINATE LOCATION OF SWITCH WITH PLUMBING CONTRACTOR PRIOR TO ROUGHING IN ELECTRIC.
3. PROVIDE (1) 240 VOLT, 30 AMP 2-POLE MOTOR RATED SNAP SWITCH AT EACH UNIT LOCATED ABOVE ACCESSIBLE CEILING NEAR UNIT FOR LOCAL NEC DISCONNECTING MEANS.
4. PROVIDE FIRE ALARM UNIT SHUTDOWN VIA DUCT DETECTORS LOCATED ON E400 SERIES DRAWINGS.
5. PROVIDE (1) 240 VOLT, 60 AMP 2-POLE MOTOR RATED SNAP SWITCH AT EACH UNIT FOR LOCAL NEC DISCONNECT MEANS. INSTALL CONDUCTORS FROM MOTOR RATED SWITCH TO UNIT USING LFMC AND COMPATIBLE FITTINGS. COORDINATE LOCATION OF SWITCH WITH PLUMBING CONTRACTOR PRIOR TO ROUGHING IN ELECTRIC.
6. INSTALL REMOTE MOUNTED VFD FURNISHED BY MECHANICAL CONTRACTOR AND WIRE PUMP THROUGH VFD TO PANELBOARD AND CIRCUIT INDICATED. VFD LOCATION INDICATED ON PLANS.
7. INSTALL DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR AND WIRE PUMP THROUGH DISCONNECT TO PANELBOARD.

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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

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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
04/27/2026

Scale

Project Status
BID DOCUMENTS

Drawn By
JAS

Checked By
JBT

Drawing Title
ELECTRICAL SCHEDULES

Drawing Number
OHS
E900

5/7/2026 11:47:56 AM PROJECT FILES ON ACC

PANEL: BP

LOCATION: STORAGE/MECH.
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: EXISTING SWITCHBOARD 'SWBD1'
MOUNTING: SURFACE

A.I.C. RATING: 22K
MCB RATING: 225A MCB
MAIN BUS RATING: 225 A

C...	BRKR		LOAD DESCRIPTION	A (VA)		B (VA)		C (VA)		LOAD DESCRIPTION	BRKR		C...
1				1621	1621								2
3	20	3	PUMP P-1			1621	1621			PUMP P-2	3	20	4
5								1621	1621				6
7				540	540								8
9	20	3	PUMP P-3			540	540			PUMP P-4	3	20	10
11								540	540				12
13				540	720					BOILER B-1	1	20	14
15	20	3	PUMP P-5			540	720			BOILER B-2	1	20	16
17								540	720	BOILER B-3	1	20	18
19	20	1	UH-1	84	84					UH-2	1	20	20
21	20	1	EMERGENCY BOILER SHUTDOWN			0	0			CHEMICAL FEED UNIT	1	20	22
23	20	1	NEW FIRE ALARM PANEL					0	0	SPARE	1	20	24
25	20	1	SPARE	0	0					SPARE	1	20	26
27	20	1	SPARE			0	0			SPARE	1	20	28
29	20	1	SPARE					0	0	SPARE	1	20	30
31	20	1	SPARE	0	0					SPARE	1	20	32
33	20	1	SPARE			0	0			SPARE	1	20	34
35	20	1	SPARE					0	0	SPARE	1	20	36
37	20	1	SPARE	0	0					SPARE	1	20	38
39	20	1	SPARE			0	0			SPARE	1	20	40
41	20	1	SPARE					0	0	SPARE	1	20	42
			TOTAL LOAD	5751 VA		5583 VA		5583 VA					

PANEL: PP7B

LOCATION: CORRIDOR C301
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: MDP2
MOUNTING: RECESSED

A.I.C. RATING: 22K
MCB RATING: 225A MCB
MAIN BUS RATING: 225 A

C...	BRKR		LOAD DESCRIPTION	A (VA)		B (VA)		C (VA)		LOAD DESCRIPTION	BRKR		C...
1	20	1	LIGHTING ARTIFICIAL INTELLIGENCE 363	1749	540					RECEPTACLES ARTIFICIAL INTELLIGENCE 363	1	20	2
3	20	1	RECEPTACLES ARTIFICIAL INTELLIGENCE 363			720	540			RECEPTACLES ARTIFICIAL INTELLIGENCE 363	1	20	4
5	20	1	RECEPTACLES ARTIFICIAL INTELLIGENCE 363					540	3600	EWH-1 ARTIFICIAL INTELLIGENCE 363	1	30	6
7				4792	374					SSI-14 ARTIFICIAL INTELLIGENCE 363	2	15	8
9	40	3	SSO-3 ROOF			4792	374						10
11								4792	0	SPARE	1	20	12
13	20	1	SPARE	0	0					SPARE	1	20	14
15	20	1	SPARE			0	0			SPARE	1	20	16
17	20	1	SPARE					0	0	SPARE	1	20	18
19	20	1	SPARE	0	0					SPARE	1	20	20
21	20	1	SPARE			0	0			SPARE	1	20	22
23	20	1	SPARE					0	0	SPARE	1	20	24
25	20	1	SPARE	0	0					SPARE	1	20	26
27	--	1	SPACE & BUS			--	--			SPACE & BUS	1	--	28
29	--	1	SPACE & BUS					--	--	SPACE & BUS	1	--	30
31	--	1	SPACE & BUS	--	--					SPACE & BUS	1	--	32
33	--	1	SPACE & BUS			--	--			SPACE & BUS	1	--	34
35	--	1	SPACE & BUS					--	--	SPACE & BUS	1	--	36
37	--	1	SPACE & BUS	--	--					SPACE & BUS	1	--	38
39	--	1	SPACE & BUS			--	--			SPACE & BUS	1	--	40
41	--	1	SPACE & BUS					--	--	SPACE & BUS	1	--	42
			TOTAL LOAD	7455 VA		6426 VA		8932 VA					

PANEL: MP1

LOCATION: STO. 145C
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: MDP1
MOUNTING: SURFACE

A.I.C. RATING: 22K
MCB RATING: MLO
MAIN BUS RATING: 225 A

C...	BRKR		LOAD DESCRIPTION	A (VA)		B (VA)		C (VA)		LOAD DESCRIPTION	BRKR		C...
1				2054	2054								2
3	30	3	BC-1 GYM			2054	2054			BC-3 GYM	3	30	4
5								2054	2054				6
7				2054	2054								8
9	30	3	BC-2 GYM			2054	2054			BC-4 GYM	3	30	10
11								2054	2054				12
13	20	1	SPARE	0	0					SPARE	1	20	14
15	20	1	SPARE			0	0			SPARE	1	20	16
17	20	1	SPARE					0	0	SPARE	1	20	18
19	20	1	SPARE	0	0					SPARE	1	20	20
21	20	1	SPARE			0	0			SPARE	1	20	22
23	20	1	SPARE					0	0	SPARE	1	20	24
25	20	1	SPARE	0	0					SPARE	1	20	26
27	20	1	SPARE			0	0			SPARE	1	20	28
29	20	1	SPARE					0	0	SPARE	1	20	30
31	20	1	SPARE	0	0					SPARE	1	20	32
33	20	1	SPARE			0	0			SPARE	1	20	34
35	20	1	SPARE					0	0	SPARE	1	20	36
37	20	1	SPARE	0	0					SPARE	1	20	38
39	20	1	SPARE			0	0			SPARE	1	20	40
41	20	1	SPARE					0	0	SPARE	1	20	42
			TOTAL LOAD	8214 VA		8214 VA		8214 VA					

PANEL: PP7C

LOCATION: CORRIDOR C301
VOLTAGE: 208/120V, 3PH, 4W
FED FROM: MDP2
MOUNTING: RECESSED

A.I.C. RATING: 22K
MCB RATING: 225A MCB
MAIN BUS RATING: 225 A

C...	BRKR		LOAD DESCRIPTION	A (VA)		B (VA)		C (VA)		LOAD DESCRIPTION	BRKR		C...
1	20	1	LIGHTING EMERGING TECHNOLOGIES 365	1749	477					LIGHTING CONF. ROOM 367	1	20	2
3	20	1	RECEPTACLES EMERGING TECHNOLOGIES 365			540	1080			RECEPTACLES CONF. ROOM 367	1	20	4
5	20	1	RECEPTACLES EMERGING TECHNOLOGIES 365					720	720	RECEPTACLES EMERGING TECHNOLOGIES 365	1	20	6
7	20	1	RECEPTACLES EMERGING TECHNOLOGIES 365	540	3600					EWH-1 EMERGING TECHNOLOGIES 365	1	30	8
9	15	2	SSI-15 EMERGING TECHNOLOGIES 365			374	62			SSI-16 CONF. ROOM 367	2	15	10
11								374	62				12
13				7710	4191								14
15	70	3	SSO-4 ROOF			7710	4191			SSO-5 ROOF	3	40	16
17								7710	4191				18
19	20	1	SPARE	0	0					SPARE	1	20	20
21	20	1	SPARE			0	0			SPARE	1	20	22
23	20	1	SPARE					0	0	SPARE	1	20	24
25	20	1	SPARE	0	0					SPARE	1	20	26
27	20	1	SPARE			0	0			SPARE	1	20	28
29	20	1	SPARE					0	0	SPARE	1	20	30
31	20	1	SPARE	0	0					SPARE	1	20	32
33	20	1	SPARE			0	0			SPARE	1	20	34
35	20	1	SPARE					0	0	SPARE	1	20	36
37	20	1	SPARE	0	0					SPARE	1	20	38
39	20	1	SPARE			0	0			SPARE	1	20	40
41	20	1	SPARE					0	0	SPARE	1	20	42
			TOTAL LOAD	18267 VA		13957 VA		13777 VA					

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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com

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. 66-14-01-03-0-003-047

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	05/08/2026	BID ADDENDUM NO. 01

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
04/27/2026

Scale

Project Status
BID DOCUMENTS

Drawn By
JAS

Checked By
JBT

Drawing Title
ELECTRICAL SCHEDULES

Drawing Number
OHS
E903

5/5/2026 9:07:26 AM PROJECT FILES ON ACC