

Architect:
TCF Architecture PLLC
124 North I Street
Tacoma, Washington 98403

PROJECT DOCUMENTS
for

ABERDEEN SCHOOL DISTRICT #5
Aberdeen School District Capital Projects 2026

410 North G Street
Aberdeen, WA 98520

This addendum modifies or interprets (by addition, deletion, clarification or correction) and takes precedence over previously issued Bidding Documents dated 7 April 2026 and as such is part of the Contract Documents for this project. The following Addendum notes are further instructions to the Bidders:

The General Contractor is responsible for coordinating the revised or added work of related trades when a change is made in the work of any trade in the addendum.

All Subcontractors shall review each item of the addendum and provide the coordination, accessories, and other work necessary for the complete and proper inclusion of addendum items.

The General Contractor and Subcontractors shall include in their bids all labor, materials and equipment and overhead necessary for the complete and proper inclusion of all addendum items.

NOTE: THE BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ALL ADDENDA ON THE FORM OF PROPOSAL

Attachments to Addendum 1

Addendum 1 Narrative	4 pages
Attachments	
Information Available to Bidders	3 pages
Specifications	32 pages
<u>Drawings</u>	<u>13 pages</u>
Total	52 pages

END OF ADDENDUM NUMBER 1

INDEX TO ADDENDUM 1:

Item I:	Information Available to Bidders
Item II:	Bid Review Set – Specifications Divisions 00-28
Item III:	Drawings
Attachments:	Pre-bid Agenda, Pre-bid Attendee Sign-in, Specifications, Drawings

ITEM I **INFORMATION AVAILABLE TO BIDDERS** *(note that the following Information Available to Bidders documents are for the Bidders' use. These documents are not a part of the Contract Documents.)*

- A. **Edited Pre-Bid Conference Agenda** (corrected dates) 1 page.
- B. **Mandatory Pre-Bid Attendee List:** 1 page.
- C. **Responses to Bidder Questions:**
 - 1. **Question:** Is there a specific Bid Bond form for this project

 Answer: No, the use of the generic bid bond form (AIA A310) is acceptable.
 - 2. **Question:** Looks like there is a mistake on the Bid Form, referencing the Cosmopolis Elementary Seismic Upgrade.

 Answer: See revised attached replacement specifications section 004113 BID FORM PART A included in Addendum 1.
 - 3. **Question:** There doesn't appear to be a glass specification provided. Drawings note 1/2", but not a glass type, or if it is to be laminated, please advise.

 Answer: Refer to specifications section 057313 GLAZED DECORATIVE METAL RAILINGS.
 - 4. **Question:** Noted at pre-bid that existing dust collection system is to be removed from contract, will the demolition of the existing canopy be removed as well? If so, will the existing system be removed/demolished prior to us starting work on the steel canopy?

 Answer: Refer to revised scope of work in specifications section 011000 included in Addendum 1 and revised drawings and specifications.
 - 5. **Question:** At Culinary Classroom, Is an in-direct drain required for the new sink? Is this a food processing sink?

 Answer: Yes, in-direct will be required, see sheet FS-1.
 - 6. **Question:** At guardrail work, How is the fastener anchoring at the bottom holding?

Answer: Fastener is drilled through bottom steel plate and epoxied at the slab either at the proposed angle shown in the contract documents (structural drawings) or directly perpendicular to the slab (would require a 3ft+ long drill bit extension from the top of the railing).

ITEM II SPECIFICATIONS – DIVISION 00-28

- A. On cover sheet, **REVISE** title to read, “**Bid Set – Specifications Division 0-28**”
- B. **TABLE OF CONTENTS**
1. Under 004113a, **DELETE** Attachment: A310A Bid Bond Form.
 2. **ADD**, 077123 MANUFACTURED DOWNSPOUTS.
 3. **DELETE**, Section 210010 GENERAL FIRE SUPPRESSION PROVISIONS
 4. **DELETE**, Section 210518 ESCUTCHEONS FOR FIRE SUPPRESSION.
 5. **DELETE**, Section 211300 SPRINKLER PIPING.
 6. **DELETE**, Section 230010 GENERAL HVAC PROVISIONS.
 7. **DELETE**, Section 233113 METAL DUCTS.
 8. **DELETE**, Section 233423 HVAC POWER VENTILATORS.
- C. Section **000103 PROJECT DIRECTORY**, **REVISE** OWNER’S PROJECT **MANAGER** to read:
- | | |
|-----------------|---|
| OWNER’S PROJECT | ESD 112 Construction Services Group |
| MANAGER | 2500 NE 65th Avenue |
| | Vancouver, WA 98661 |
| | Contact: Andrew Twyman, Associate Director of Design & Construction Administration Management |
| | Email: andrew.twyman@esd112.org |
| | Contact: Manuel (Manny) Saldivar-Aguirre, Const. Project Manager |
| | Email: manuel.saldivar-aguirre@esd112.org |
| | Contact: Drew Pearson, OSPI, BCA |
| | Email: drew.pearson@esd112.org |
- D. **REPLACE** Section **004113 – BID FORM PART A** in its entirety.
- E. Section **011000 SUMMARY**, **REVISE** 1.3 to read:
- 1.3 SUMMARY WORK COVERED BY CONTRACT DOCUMENTS
- A. The Scope of Work for this Project consists of three areas of modifications to the existing High School. Modifications include:

1. Modify existing half wall railings identified on drawings to attach safety glass panels.
 2. ~~Install dust collection system for shop room as identified in drawings.~~
 2. Install steel framing and low slope roof canopy as noted in drawings with exterior concrete equipment pad below. Coordinate location for concrete pad with dust collection equipment contractor.
 3. Install kitchen equipment per drawings.
- B. Type of Contract:
- Project is being constructed under a single prime contract, however a separate prime contractor will be installing the dust collection system during the project timeframe. Contractor to coordinate access for existing dust collection removal prior to commencement of vertical work on canopy and for installation of dust collection prior to August 21, 2026.
- F. Section **057313 GLAZED DECORATIVE METAL RAILINGS.**
1. DELETE paragraph 2.10 B 2.
 2. DELETE paragraph 2.12 B 1.
- G. REPLACE Section **075216 SBS MODIFIED BITUMINOUS MEMBRANE ROOFING** in its entirety.
- H. ADD Section **077123 MANUFACTURED DOWNSPOUTS.**
- I. DELETE **DIVISION 21 FIRE SUPPRESSION** including sections **210010 GENERAL FIRE SUPPRESSION PROVISIONS, 210518 ESCUTCHEONS FOR FIRE SUPPRESSION, 211300 SPRINKLER PIPING.**
- J. REPLACE Section **220010 GENERAL PLUMBING PROVISIONS** in its entirety.
- K. DELETE **DIVISION 23 HVAC** including sections **230010 GENERAL HVAC PROVISIONS, 233113 METAL DUCTS & 233423 HVAC POWER VENTILATORS.**

ITEM III DRAWINGS

A. Architectural Drawings

1. Sheet **G3.01**, REVISE note 3) under 'SCOPE OF THIS PROJECT' to read, **EXISTING SAWDUST COLLECTION SYSTEM REPLACEMENT WORK OCCURRING CONCURRENTLY UNDER SEPARATE GENERAL CONTRACT, COORDINATE DEMOLITION AND INSTALLATION WINDOWS WITH SEPARATE CONTRACTOR.**
2. REPLACE sheet **A2.02** in its entirety.
3. REPLACE sheet **A2.04** in its entirety.
4. REPLACE sheet **A2.11** in its entirety.

5. **REPLACE** sheet **A2.13** in its entirety.
 6. **REPLACE** sheet **A2.14** in its entirety.
 7. On sheet **A8.11**, **DELETE** details 3 & 8.
 8. **REPLACE** sheet **A40.20** in its entirety.
 9. **REPLACE** sheet **A72.10** in its entirety.
- B. Food Service Drawings
1. **REPLACE** sheet **FS-1 EQUIPMENT PLAN** in its entirety.
- C. Mechanical Drawings
1. **REPLACE** sheet **M2.01 HVAC Plans – Wood Shop** in its entirety.
 2. **REPLACE** sheet **M3.01 Fire Sprinkler Plan – Wood Shop** in its entirety.
- D. Electrical Drawings
1. Sheet **E0.03**, **REPLACE** note in note block of Motor and Equipment Wiring Schedule with "FOR INFORMATION ONLY - WORK UNDER SEPARATE CONCURRENT GENERAL CONTRACT."
 2. **REPLACE** Sheet **E0.04** in its entirety.
 3. **REPLACE** Sheet **ED3.11** in its entirety.
 4. **REPLACE** Sheet **E3.11** in its entirety.
 5. Sheet **E10.01**, **ADD** general note 1 to read "FOR INFORMATION ONLY - WORK UNDER SEPARATE CONCURRENT GENERAL CONTRACT."

END, ADDENDUM 1



PRE-BID CONFERENCE AGENDA

Aberdeen School District 2026 Projects

April 23, 2026, 3:30 pm

A. Introductions:

1. Owner's Representative – ESD 112 | CSG
2. Design Team - TCF

B. Sign-In Sheet

1. Sign in as Prime or subcontractor
2. Sign in sheet will be included in Addendum (please print clearly)

C. Project Overview:

1. Architectural
2. Food Service
3. Structural
4. Mechanical / Electrical / FA

D. Bid Date/Time

1. Bid Date:
 - a. Part A & Part B: Wednesday, May 6, 2026, 2pm
 - b. Part C: No later than Friday, May 8, 2026, 2pm
 - c. Bids to be received at the Aberdeen School District Office located at 216 North
G Street, Aberdeen, WA 98520

E. Schedule

1. Start Date, Substantial Completion, and Final Completion

F. Permits

1. City of Aberdeen (including electrical plan review)
2. Grays Harbor County Health

G. Bid Procedures

1. Instructions to Bidders
2. Bid Documents- Project Manual, Drawings, and Addendum
3. Substitution Requests- Forms, Data and Project list - Due 7 days prior to receipt of bids: April 29, 2026 at 2pm.
4. Questions: no questions will be taken after April 29, 2026. Answers to be by Addendum
5. Access to site During Bid period
6. Access to Existing Documents during Bid Period
7. Bid Bond or Guarantee (5% of Base Bid) – Use generic AIA form

H. Project Requirements

1. Prevailing Wage Job: Contractor responsible for securing requirements
2. Occupied Site: Importance of site safety and separation from students/staff
3. Subcontractors List
 - HVAC
 - Plumbing
 - Electrical
 - Structural & Rebar (delayed submittal)
4. No tobacco/alcohol use on site
5. No individuals convicted of crimes against children

I. General Requirements

1. 2. Communications during Bidding
 - Architect is point of contact for Bidders
 - Architect is point of contact for Consultants
 - District Staff not to be contacted for direction / interpretation

J. Tour of Building and Site

K. Questions

Aberdeen School District

Aberdeen High School 2026 Projects
 PRE-BID CONFERENCE
 May 23, 2026 @ 330pm

Please sign-in

NAME	FIRM & TRADE	PHONE	EMAIL
Dave Brenton	Rognli's, Inc.	(360) 532-5220	bids@roganhs.com
Andrew Christensen	CONSTRUCT, Inc. G.C.	(360) 236-8200	andrew@constructinc.biz
Sam Pierce	General mechanical	503-377-0323	SPierce@Generalmechanical.com
Cruz A. Macias	The bathroom Plumbing	360 972 1228	Cruz0767@yahoo.com Mex
Darren Lee	Stateline LLC	360 623 9393	Darren@statelineWA.com
Trevi's Johnson	CAPITAL HEATING	360-239-8739	Trevi's@Capitalheatingandcooling.com
Ted Bare	Madsen Roofing Inc	360-456-2821	ted@madsenroofing.com



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ADDENDUM 1

SECTION 004113 - BID FORM, PART A

<i>PART A - BID PROPOSAL</i>

BASE BID PRICES

Note: This document is Part A of a three-part submittal (plus associated attachments). Refer to Instructions to Bidders for bid submittal procedures.

PROJECT: Aberdeen School District Capital Projects 2026
BID DATE: May 6, 2026
TIME: 2:00 PM (Pacific Daylight Saving Time)

PLACE/TO: Aberdeen School District Office
216 N G Street
Aberdeen, WA 98520

Ladies & Gentlemen:

The Undersigned Bidder declares that the only persons or parties interested in this bid are those named herein, that this Bid is, in all respects, fair and without fraud, that it is made without collusion with any official or representative of the Owner, and that the Bid is made without any connection or collusion with any person submitting or considering the submission of another Bid on this Contract.

The Bidder further agrees that it has exercised its own judgment regarding the interpretation of information and has utilized all data which it believes pertinent from the Architect, Owner, and other sources in arriving at its conclusions. The Bidder further declares that it has carefully examined the Contract Documents for the **Aberdeen School District Capital Projects 2026**, that it has personally inspected the site(s) and existing building(s), that it has satisfied itself as to the quantities involved, including materials and equipment, and conditions of work and the fact that the description of the quantities of work and materials herein is brief and is intended only to indicate the general nature of the Work contained in the detailed requirements of the Contract Documents, and that this Bid is made according to the provisions and under the terms of the Contract Documents, which are hereby made a part of this Bid.

The Undersigned Bidder states that it has the ability and means to complete the Work in a timely manner and proposes to furnish all labor, materials, machinery, tools, and other means of construction, and to perform all work required by and in strict accordance with the Contract Documents for the following sums:

DO NOT INCLUDE SALES TAX IN ANY OF THESE PRICES.

ADDENDUM 1

1.1 BASE BID:

AMOUNTS BID INCLUDE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED IN THE BIDDING AND CONTRACT DOCUMENTS.

A. ABERDEEN SCHOOL DISTRICT CAPITAL PROJECTS 2026 - \$ _____
THE SUM OF:

List Base Bid Total both in words and figures in the space provided below:

DOLLARS (\$ _____)

1.2 TRENCH EXCAVATION SAFETY COSTS:

Included in the above Base Bid is an amount for Trench Excavation Safety for any trenching exceeding a depth of four feet. In accordance with Chapter 39.04 RCW and WAC 296-155-850, all costs for adequate trench safety systems are required to be identified in this Bid. The Bidder certifies that the following amount is included in the Base Bid for Trench Excavation Safety Provisions. If no amount is entered, the Owner will presume that the Bidder represents that there are no Trench Excavation Safety costs for this Project.

Trench Safety System Costs Included are

\$ _____

1.3 SALES TAX: None of the above bid prices include State or Local Sales Tax. Sales tax will be added to payment invoices.

1.4 TIME OF COMPLETION

The work of the Contract shall commence on the issue date of Owner's written Notice of Intent to Award Contract, and shall reach Substantial Completion, all as required in the Owner / Contractor Agreement included in Division 0 Section "Standard Form of Agreement Between Owner and Contractor (where the basis of payment is a Stipulated Sum)", and as required in Division 1 Section "Summary."

1.5 CONTRACT, BONDS & INSURANCE

Should the Undersigned be notified of the acceptance of this bid within 60 days after the time set for opening bids, the Undersigned agrees to execute a Contract for the above Work, for a compensation computed from the above sums, and to furnish performance, payment and maintenance bonds and insurance certificates as required by the Contract Documents.

1.6 BID GUARANTEE

The Undersigned further agrees that the bid bond accompanying this Bid shall be left in escrow with the Owner, that its amount or penal sum is the measure of damages which the Owner will sustain by the failure of the Undersigned to execute the Contract and submit proper bonds and other documents required; and that if the Undersigned fails to deliver the said documents within 10 days after issue date of Owner's written Notice of Intent to Award Contract to the Undersigned, then the check shall become the property of the Owner or the bid bond

ADDENDUM 1

shall remain in full effect. But if the Bid or designated portion thereof is not accepted within 60 days after the date of opening bids, or if the Undersigned delivers said executed Contract and bonds and the other required documents, then the check shall be returned to the Undersigned or the bid bond shall become void.

1.7 PRODUCTS & INSTALLATION PROCEDURES

The Undersigned has thoroughly familiarized itself with all specified products and installation procedures and included in this Project and the submittal of this Bid constitutes acceptance of products and procedures specified.

1.8 SUBCONTRACTORS LIST: See Part B & Part C - Bid Proposal

1.9 ADDENDA

Receipt of the following Addenda to the Contract Documents is acknowledged:

Addendum No.	Date	Addendum No.	Date
Addendum No.	Date	Addendum No.	Date
Addendum No.	Date	Addendum No.	Date

1.10 PREVAILING WAGE RATES

The Contractor stipulates and agrees that he has reviewed the applicable prevailing wage rate schedule has contacted the State to verify current rates and has made appropriate provision in the submitted Bid for payment of these prevailing wage rates.

1.11 APPRENTICESHIP REQUIREMENTS: The apprenticeship labor hours required for this project are 15% of the total of the labor hours. The undersigned agrees to utilize this level of apprentice participation.

1.12 LIQUIDATED DAMAGES

The Contractor stipulates and agrees that it has reviewed the liquidated damages figures stipulated in Division 0, Section "Standard Form of Agreement Between Owner and Contractor," and believes they are reasonable and reflect as accurately as possible actual damages to, respectively, the Owner and Contractor, and are not a penalty.

1.13 REQUIRED ATTACHMENTS WITH BID FORM:

Bid Bond or Guarantee

1.14 CONTRACTOR SIGNATURE AND INFORMATION

Name of Firm

ADDENDUM 1

<u>By (Signature)</u>		<u>Title</u>
<u>Address</u>		
<u>City</u>	<u>State</u>	<u>Zip</u>
<u>Telephone</u>		<u>Fax No.</u>
<u>Email Address</u>		
<u>State of Washington Contractor's License</u> <u>No.</u>		

END OF SECTION 004113, PART A

ADDENDUM 1

SECTION 07 52 16 - STYRENE-BUTADIENE-STYRENE (SBS)

MODIFIED BITUMINOUS MEMBRANE ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Styrene-butadiene-styrene (SBS)-modified bituminous membrane roofing.
2. Insulation
3. Vapor retarder / interim roofing.
4. Substrate board.
5. Cover board.

B. Related Requirements:

1. Section 07 62 00 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
2. Section 07 92 00 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.2 DEFINITIONS

- A. Roofing Terminology:** Definitions in ASTM D1079 and glossary of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to Work of this Section.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Roofing Conference: Conduct conference at Project site.

1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, and condition of other construction that affects roofing system.

ADDENDUM 1

7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.
10. Review Installer's fire safety plan.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include plans, sections, details, and attachments to other work, including the following:
 1. Base flashings and membrane terminations.
- C. Samples for Verification: For the following products:
 1. Sheet roofing materials, including membrane cap sheet of color specified.
 2. Walkway Pads or Rolls: Samples of specified color.
- D. Wind Uplift Resistance Submittal: For roofing system indicating compliance with wind uplift performance requirements.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
 1. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
- B. Manufacturer Certificates:
 1. Performance Requirement Certificate: Signed by roof membrane manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 - a. Submit evidence of complying with performance requirements.
 2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.
- C. Product Test Reports: For roof membrane, tests performed by a qualified testing agency, indicating compliance with specified requirements.
- D. Evaluation Reports: For components of membrane roofing system, from ICC-ES.
- E. Field Test Reports:
 1. Fastener-pullout test results and manufacturer's revised requirements for fastener patterns.

ADDENDUM 1

- F. Inspection Reports: Copy of roofing system manufacturer's inspection reports of all progress and completed roofing installation. Provide reports for progress inspections as they occur and final report with maintenance manuals.
- G. Sample Warranties: For manufacturer's special warranties.
- H. Buy America: Form, signed by the manufacturer(s), certifying whether all components are manufactured in the U.S., in compliance with the Federal Transit Administration's Buy America requirements.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.
- B. Warranties: Final, fully executed warranties to include in maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is UL listed for roofing system identical to that used for this Project.
- B. Manufacturer's Representative: The roofing manufacturer's representative shall attend the Pre-Installation Conference and shall be present on the site at the commencement of work, and periodically thereafter to review work at least twice a month and assure proper materials and installation procedures are used. He shall prepare a written report of his observations and transmit it to the Owner, Architect, and Contractor within one week of each site visit.
- C. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.
 - 1. Installer's Field Supervision: Require Installer to maintain a full-time supervisor/foreman on job site during times that modified bituminous sheet roofing work is in progress and who is experienced in installation of roofing systems similar to type and scope required for this Project and has supervised the installation of at least 5 projects of similar size and dollar value using the same system type as required for this project.
 - 2. Installing Company: Provide proof of at least 5 successfully completed roofing projects with same manufacturer and materials specified herein, completed within the last 3 years, of similar size and dollar value.
 - a. Installing company shall have been in business for a minimum of 10 years.
- D. Source Limitations: Obtain primary products, including each type of roofing sheet, bitumen, membrane flashings, and vapor retarder, from a single manufacturer. Provide secondary products as recommended by manufacturer of primary products for use with roofing system specified.
- E. Exterior Fire-Test Exposure: ASTM E 108, Class A for application and roof slopes indicated, as determined by testing identical membrane roofing materials by a qualified testing agency. Materials shall be identified with appropriate markings of applicable testing agency.

ADDENDUM 1

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard or customized form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period.
 - 1. Special warranty includes roof membrane, base flashings, fasteners, cover boards, vapor retarder / interim roofing, walkway products, substrate board, and other components of roofing system.
 - 2. Warranty Period: 20 years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on form similar to warranty form at end of this Section, signed by Installer, covering the Work of this Section, including all components of roofing system such as roof membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders / interim roofing, and walkway products, for the following warranty period:
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing system and flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to

ADDENDUM 1

defective manufacture, fabrication, installation, or other defects in construction. Roof system and flashings shall remain watertight.

1. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G152, ASTM G154, or ASTM G155.
 2. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D3746/D3746M, ASTM D4272/D4272M, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
- C. Wind Uplift Resistance: Design roofing system to resist the wind uplift pressures indicated on the Structural Drawings when tested according to FM Approvals 4474, UL 580, or UL 1897.
- D. Exterior Fire-Test Exposure: ASTM E108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency.
1. Identify products with appropriate markings of applicable testing agency.
- E. Withdrawal Resistance of Roofing Fasteners: Tested according to ANSI/SPRI FX-1 2016.

2.2 PRODUCT QUALITY REQUIREMENTS

- A. Roof Membrane System Properties
1. Passes cyclic fatigue resistance for new material per ASTM D5849 (minimum 500 cycles at 14 deg. F).
 2. Passes cyclic fatigue resistance for aged material per ASTM D5849 (minimum 200 cycles at 14 deg. F).
- B. Sheet Properties
1. Minimum 40 percent elongation at 5 percent maximum load at 73 deg. F., per ASTM D1663, type 1.
 2. Passes low temperature flexibility at -13 deg. F. for new material, and 0 deg. F. for aged material, per ASTM D6163.
 3. Reinforcing mats shall be impregnated and coated with SBS modified bitumen blend.

2.3 BASIS OF DESIGN

- A. Basis of Design: To help clarify the roofing and waterproofing systems included in the project, the following summary is provided to further clarify the work required herein. The project design and summary are based on the products of Siplast, as listed below. Equivalent products from Soprema or Derbigum are also acceptable. Other manufacturers will be considered through the substitution request process. All roofing systems included in this Section must be supplied by one manufacturer.
1. Roofing at Low Slope Decks:
 - a. Substrates:
 - 1) Metal roof deck as specified in Section 05 31 00 Steel Decking.

ADDENDUM 1

- b. Substrate Board: ~~1/4 inch~~ "Dens Deck Prime", mechanically attached to metal deck.
- c. Polyisocyanurate Board insulation: ~~1 1/2 inch~~; Install below cover board adhered to vapor retarder/interim roof.
- d. Vapor Retarder / Interim Roof: Siplast "Paradiene 20 SA" adhered to substrate board above metal deck.
- e. Cover Board: ~~1/4 inch~~ "DensDeck Prime" by Georgia-Pacific, applied in Siplast "Para-Stik Insulation Adhesive".
- f. Base Sheet: Siplast "Paradiene 20 SA", adhered to cover board.
- g. Reinforcing Ply-Sheet: Apply to all locations indicated herein or on drawings. Extend up roof slope 5" minimum. Siplast "Paradiene 20 TG", torch applied.
- h. Inner Ply-Sheet: Siplast "Paradiene 20 TG", torch applied.
- i. Cap Sheet: Siplast "Paradiene 30 TG", torch applied.
- j. Flashing Assembly: Siplast "Paradiene 20 SA", adhered to the primed flashing substrate and Siplast "Parafor 30 TG", torch applied.

2.4 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Siplast, Inc.
 - 2. Soprema Inc.
 - 3. Or approved substitute submittal during the bid process.
- B. Source Limitations: Obtain components for roofing system from roof membrane manufacturer or manufacturer approved by roof membrane manufacturer.

2.5 BASE SHEET MATERIALS

- A. Roofing Membrane Base Sheet: ASTM D 6163, Type I, glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Siplast "Paradiene 20 SA" or approved equivalent.

2.6 INTERPLY AND REINFORCING PLY SHEETS

- A. Roofing Membrane Inner-Ply Sheet: ASTM D 6163, Grade S, Type I, glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Siplast "Paradiene 20 TG" or approved equivalent.
- B. Reinforcing Ply Sheet: ASTM D 6163, Grade S, Type I, glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Siplast "Paradiene 20 TG" or approved equivalent.

2.7 STYRENE-BUTADIENE-STYRENE (SBS) MODIFIED BITUMINOUS CAP SHEET

- A. Roofing Membrane Cap Sheet: ASTM D 6163, Grade G, Type I, glass-fiber-reinforced, SBS-modified asphalt sheet; granular surfaced; suitable for application method specified. Siplast

ADDENDUM 1

"Paradiene 30 FR TG" or approved equivalent. Granule color as indicated in Color and Material Schedule on the Drawings.

2.8 FLASHING SHEET MATERIALS

- A. Base Flashing: ASTM D 6163, Grade S, Type I, glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Siplast "Paradiene 20 SA" or approved equivalent.
- B. Cap Flashing: ASTM D 6164, Grade G, Type I, glass-fiber-reinforced, SBS-modified asphalt sheet; granular surfaced; suitable for application method specified. Siplast "Parafor 30 TG" or approved equivalent. Granule color to match that of roof membrane cap sheet.
- C. Liquid Flashing System (RFAM): Roof membrane manufacturer's standard two-part catalyzed resin with low solvent content, consisting of a primer, flashing cement, and scrim. Siplast "Parapro 123 Flashing Resin" or approved equivalent.

2.9 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.
 - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
 - 2. Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - a. Plastic Foam Adhesives: 50 g/L.
 - b. Gypsum Board and Panel Adhesives: 50 g/L.
 - c. Multipurpose Construction Adhesives: 70 g/L.
 - d. Fiberglass Adhesives: 80 g/L.
 - e. Contact Adhesive: 80 g/L.
 - f. Other Adhesives: 250 g/L.
 - g. Nonmembrane Roof Sealants: 300 g/L.
 - h. Sealant Primers for Nonporous Substrates: 250 g/L.
 - i. Sealant Primers for Porous Substrates: 775 g/L.
 - 3. Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- B. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
- C. Asphalt Roofing Cement: ASTM D4586/D4586M, asbestos free, of consistency required by roofing system manufacturer for application.

ADDENDUM 1

- D. Sealant: Type(s) as recommended by the roofing manufacturer for the specific project applications. Provide written documentation of manufacturer's recommendations.
- E. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate; tested by manufacturer for required pullout strength, and acceptable to roofing system manufacturer.
 - 1. Provide Siplast Zono-tite galvanized steel split-wedge fasteners and aluminum-zinc alloy coated steel plates to attach vapor retarder / interim roofing to existing, new, or patched lightweight insulating concrete.
- F. Metal Flashing Sheet: As specified in Division Section 076200 "Sheet Metal Flashing and Trim."
- G. Roofing Granules: Ceramic-coated roofing granules, No. 11 screen size with 100 percent passing No. 8 sieve and 98 percent of mass retained on No. 40 sieve; color to match roof membrane.
- H. Miscellaneous Accessories: Provide those recommended by roofing system manufacturer.

2.10 SUBSTRATE BOARDS AND COVER BOARDS

- A. Substrate Board: ASTM C1177/C1177M, glass-mat, water-resistant gypsum substrate or ASTM C1278/C1278M, fiber-reinforced gypsum board.
 - 1. Basis of Design: Georgia-Pacific Corporation; DensDeck Prime with Eonic Technology.
 - 2. Other Products: Subject to compliance with requirements, provide one of the following products:
 - a. National Gypsum Company; DEXcell Glass Mat Roof Board.
 - b. Or approved substitute submitted during bid process.
 - 3. Thickness: 5/8 inch Minimum.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening substrate board to roof deck.

2.11 VAPOR RETARDER / INTERIM ROOFING

- A. Vapor Retarder/Interim Roofing: Glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Provide the following products:
- B. Siplast "Paradiene 20 SA" or approved equivalent, adhered to substrate board above metal deck.

2.12 ROOF INSULATION

- A. General: Preformed roof insulation boards, manufactured or approved by roof membrane manufacturer,.

ADDENDUM 1

1. Polyisocyanurate Foam-Plastic Board Insulation: ASTM C578, Type V, 3.00-lb/cu. ft. (8-kg/cu. m) minimum density, 100 psi (690 kPa) minimum compressive strength, square edged.
2. Thermal Resistance: R-value of 5.0 per inch (25 mm).
3. Size: 48 by 96 inches.
4. Thickness: As Indicated in Drawings

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
 1. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 05 31 00 "Steel Decking."
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Perform fastener-pullout tests according to roof system manufacturer's recommendations.
 1. Submit test result within 24 hours of performing tests.
 - a. Include manufacturer's requirements for any revision to previously submitted fastener patterns required to achieve specified wind uplift requirements.

3.3 INSTALLATION OF ROOFING, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
- C. Substrate-Joint Penetrations: Prevent roofing asphalt and adhesives from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

ADDENDUM 1

3.4 INSTALLATION OF VAPOR RETARDER / INTERIM ROOFING

- A. Install membrane according to manufacturer's written instructions starting at low point of roofing system. Shingle in direction to shed water. Extend to full extent of area to be roofed.
- B. Completely seal vapor retarder at terminations, obstructions, and penetrations to prevent air and water movement into roofing system. Vapor retarder shall function as an interim roof during construction.

3.5 INSTALLATION OF COVER BOARDS

- A. Install cover boards with long joints in continuous straight lines, with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.
 - 1. Trim cover board neatly.
 - 2. Adhere cover board to substrate using specified adhesive or fasteners, following the manufacturer's instructions. Set cover board in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
 - 3. Adhere cover boards to resist uplift pressure at corners, perimeter, and field of roof.
 - 4. Tape joints if required by roofing system manufacturer.

3.6 INSTALLATION OF ROOFING MEMBRANE, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions and applicable recommendations in ARMA/NRCA's "Quality Control Guidelines for the Application of Polymer Modified Bitumen Roofing."
- B. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- C. Cooperate with testing agencies, Envelope Consultant, or firm, engaged or required to perform testing or inspection services for installing roofing system.
- D. Coordinate installation of roofing system so insulation and other components of the roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.
 - 1. Provide tie-offs at end of each day's work to cover exposed roofing sheets and insulation with a course of coated felt set in roofing cement or hot roofing asphalt, with joints and edges sealed.
 - 2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system.
 - 3. Remove and discard temporary seals before beginning work on adjoining roofing.

3.7 INSTALLATION OF BASE SHEET

- A. Before installing, unroll base sheet, cut into workable lengths, and allow to lie flat for a time period recommended by manufacturer for the ambient temperature.
- B. Installation of Base Sheet:

ADDENDUM 1

1. Install base sheet according to roofing manufacturer's written instructions, starting at low point of roofing system.
2. Extend roofing sheets over and terminate above cants.
3. Install base sheet in a shingle fashion.
4. Adhere to substrate with self-adhesive bitumen layer.
5. Install base sheet without wrinkles, tears, and free from air pockets.
6. Laps: Accurately align roofing sheets, without stretching, and maintain uniform side and end laps.
 - a. Lap side laps as recommended by roof membrane manufacturer but not less than 3 inches.
 - b. Lap end laps as recommended by roof membrane manufacturer but not less than 12 inches.
 - c. Stagger end laps not less than 18 inches.
 - d. Completely bond and seal laps, leaving no voids.
7. Repair tears and voids in laps and lapped seams not completely sealed.
8. Apply pressure to the body of the base sheet according to manufacturer's instructions, to remove air pockets and to result in complete adhesion of base sheet to substrate.

3.8 INSTALLATION OF INTERPLY AND REINFORCING SHEETS

- A. Install two ply sheets, starting at low point of roofing.
 1. Align ply sheets without stretching.
 2. Shingle side laps of ply sheets uniformly to achieve required number of plies throughout thickness of roofing membrane.
 - a. Shingle in direction to shed water.
 3. Extend ply sheets over and terminate above cants.
- B. Reinforcing Ply Sheet: Install lapped course of reinforcing-ply sheet in adhesive at all crickets, gutters, roof drain sumps, transitions to vertical surfaces, and other locations indicated.

3.9 INSTALLATION OF SBS-MODIFIED BITUMINOUS CAP SHEET

- A. Promptly after completing base sheet and inner ply sheet (same day where possible), torch apply one lapped course of cap sheet of type indicated.
- B. Before installing, unroll cap sheet, cut into workable lengths, and allow to lie flat for a time period recommended by manufacturer for the ambient temperature at which cap sheet will be installed.
- C. Install modified bituminous roofing cap sheet according to roofing manufacturer's written instructions, starting at low point of roofing system.
 1. Extend cap sheet over and terminate above cants.
 2. Install cap sheet in a shingle fashion.
 3. Torch apply to substrate.

ADDENDUM 1

- a. Perform torch application according to NFPA 241, including two-hour fire watch after torches have been extinguished.
- 4. Install cap sheet without wrinkles or tears, and free from air pockets.
- 5. Install cap sheet, so side and end laps shed water.
- 6. Laps: Accurately align roofing sheets, without stretching, and maintain uniform side and end laps. Lap as described in Base Sheet installation.
- 7. Repair tears and voids in laps and lapped seams not completely sealed.
- D. Apply pressure to the body of the cap sheet according to manufacturer's instructions, to remove air pockets and to result in complete adhesion of base sheet to substrate.
- E. Apply roofing granules of same color as roof membrane to cover exuded bead at laps while bead is hot, to provide a continuous color appearance.
- F. Set-On Accessories: Where small roof accessories are set on modified bituminous sheet roofing, set metal flanges in a bed of roofing cement and seal penetration of membrane with bead of roofing cement to prevent flow of bitumen from membrane.

3.10 INSTALLATION OF FLASHING AND STRIPPING

- A. Install base flashing over cant strips and other sloped and vertical surfaces, at roof edges, and at penetrations through roof, and secure to substrates according to roofing system manufacturer's written instructions and as follows:
 - 1. Prime substrates with asphalt primer if required by roofing system manufacturer.
 - 2. Backer Sheet Application:
 - a. Adhere backer sheet to substrate in cold-applied adhesive.
 - b. Seal all laps.
 - 3. Flashing Sheet Application: Torch apply flashing sheet to substrate.
 - a. Perform torch application according to NFPA 241, including two-hour fire watch after torches have been extinguished.
- B. Mechanically fasten top of base flashing securely at terminations and perimeter of roofing.
 - 1. Seal top termination of base flashing with a strip of glass-fiber fabric set in asphalt roofing cement.
- C. Install liquid flashing system according to manufacturer's recommendations.
 - 1. Extend liquid flashing not less than 3 inches in all directions from edges of item being flashed.
 - 2. Embed granules, matching color of roof membrane, into wet compound.
- D. Install roofing cap-sheet stripping where metal flanges and edgings are set on roofing according to roofing system manufacturer's written instructions.

ADDENDUM 1

3.11 FIELD QUALITY CONTROL

- A. Testing Agency: Owner may engage a qualified testing agency to inspect substrate conditions, surface preparation, roof membrane application, flashings, protection, and drainage components, and to furnish reports to Owner, Architect, Envelope Consultant, and Contractor.
- B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Architect and Envelope Consultant, and to prepare inspection report.
 - 1. Notify Architect and Owner 48 hours in advance of date and time of inspection.
- C. Roofing system will be considered defective if it does not pass tests and inspections.
 - 1. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.
- D. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.

3.12 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.13 ROOFING INSTALLER'S WARRANTY

- A. WHEREAS _____ of _____, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
 - 1. Owner:
 - 2. Address:
 - 3. Building Name/Type:
 - 4. Address:
 - 5. Area of Work:
 - 6. Acceptance Date:
 - 7. Warranty Period:
 - 8. Expiration Date:

ADDENDUM 1

- B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period Roofing Installer will, at Roofing Installer's own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;
 - b. peak gust wind speed exceeding _____ mph;
 - c. fire;
 - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and
 - g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
 3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
 5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
 6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.

ADDENDUM 1

7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this _____ day of _____, _____.

1. Authorized Signature: _____.

2. Name: _____.

3. Title: _____.

END OF SECTION 07 52 16

ADDENDUM 1

Section 07 71 23 - MANUFACTURED DOWNSPOUTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. PVC downspouts.

1.2 RELATED REQUIREMENTS

- A. Section 07 62 00 Sheet Metal Flashing and Trim
- B. Section 09 90 00 Paint, Stain, and Coating

1.3 ACTION SUBMITTALS

- A. Product Data: Provide data on prefabricated components.
- B. Shop Drawings: Indicate locations, configurations, jointing methods, fastening methods, locations, and installation details.
- C. Samples: Two sample assemblies, 12 inches, illustrating component design, finish, color, and configuration.
- D. Manufacturer's installation instructions.
- E. Sample warranty.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Installer shall be regularly engaged in installation of the systems specified, thoroughly familiar with materials and techniques, employing skilled workmen, provide proof of at least 5 similar installations in good condition, and shall have not less than 5 years' experience in installation of finish carpentry systems.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Stack material to prevent twisting, bending, or abrasion and to provide ventilation. Slope to drain.
- B. Prevent contact with materials that cause discoloration, staining, or damage.

1.6 WARRANTY

- A. See Section 01 78 00 Closeout Submittals for warranty requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Downspouts:
 - 1. Amerimax Home Products.
 - 2. Or substitute submitted during bid process.

ADDENDUM 1

2.2 DESIGN CRITERIA

- A. Comply with SMACNA (ASMM) for sizing components for rainfall intensity determined by storm occurrence of 1 in 5 years.
- B. Comply with applicable code for size and method of rainwater discharge.

2.3 DOWNSPOUTS

- A. Downspouts: Profile as indicated in construction documents.
- B. Shape: 4 inch diameter pipe.
 - 1. Anchoring Devices: Type recommended by manufacturer.
 - 2. Downspout Supports: Brackets, as indicated in Drawings.
- C. Fasteners: Galvanized steel, with neoprene washers.

2.4 SHOP FABRICATION

- A. Form gutters and downspouts of profiles and size indicated in construction documents.
- B. Fabricate with required connection pieces.
- C. File burrs from cut edges.
- D. Fabricate gutter and downspout accessories; seal watertight.

2.5 FINISHES

- A. See section 09 90 00 Paint, Stain, and Coatings.

2.6 MATERIALS

- A. Schedule 40 PVC pipe, Chemical resistant, Corrosion resistant. ASTM D1784, D1785.
 - 1. Wall thickness 0.237 inch
 - 2. Inside Diameter: 4 inch nominal

PART 3 - PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify dimensions, tolerances, and interfaces with other work.
- B. Verify surfaces are acceptable for product installation in accordance with manufacturer's written instructions.
- C. Notify Architect in writing of conditions detrimental to completion of work. Do not proceed with installation until detrimental conditions are corrected.

3.2 PREPARATION

- A. Prime and paint downspout and accessory components before installation.

3.3 INSTALLATION

- A. Install downspouts , and accessories as shown on Drawings.

END OF SECTION 07 71 23

ADDENDUM 1

SECTION 220010 - GENERAL PLUMBING PROVISIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes materials, equipment, labor, supervisions, tools and items necessary for the construction, installation, connection, testing and operation of a mechanical work for this project, as shown on the drawings and defined in Division 22 of the specifications.

1.3 CERTIFICATIONS

- A. By submitting a bid for the mechanical Work, the Contractor certifies that they have carefully examined the Drawings, Specifications, and all subsequent Addenda, have visited the site, and are familiar with all conditions and requirements of the Work, agree to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of Work, according to the requirements of the Contract Documents.

1.4 DEFINITIONS

- A. Accessible: Arranged so that an average size man may complete any service required without disassembly, destruction, or damage to the surround installation of item being serviced.
- B. Codes: Codes, rules, and ordinances.
- C. Concealed: Hidden or out of site.
- D. Exposed: Open to view.
- E. Exposed, Interior Installations: Exposed to view indoors. Examples include finished occupied spaces and mechanical equipment rooms.
- F. Exposed, Exterior Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions. Examples include rooftop locations.
- G. Finished Spaces: Spaces other than mechanical and electrical equipment rooms, furred spaces, pipe and duct shafts, unheated spaces immediately below roof, spaces above ceilings, unexcavated spaces, crawlspace, and tunnels.
- H. Furnish: Supply and deliver to the project site.

ADDENDUM 1

- I. Install: Place in position for use.
- J. Provide: Furnish and install.
- K. Basis-of Design Product: The first product mentioned in the specification or the product indicated on the drawings for purposes of evaluating comparable products of additional manufacturers named in the specification.
- L. Submittals: Written and graphic information and physical samples that require Engineers responsive action.
- M. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
- N. Work: Entire scope required by the contract documents.

1.5 ABBREVIATIONS

A/E	Architect/Engineer
AGA	American Gas Association
AHJ	Authority Having Jurisdiction
AMCA	Air Moving and Conditioning Association
ANSI	American National Standards Institute
ARI	Air-Conditioning And Refrigeration Institute
ASHRAE	American Society Of Heating, Refrigerating And Air-Conditioning Engineers
ASME	American Society Of Engineers
ASTM	American Society Of Testing And Materials
CISPI	Cast Iron Soil Pipe Institute
ETL	Environmental Technology Laboratory
F	Degrees, Fahrenheit
FM	Factory Mutual Engineering Corporation
HVAC	Heating, Ventilation, And Air Conditioning
IBC	International Building Code
IFC	International Fire Code
IMC	International Mechanical Code
MSS	Manufactures Standardization Society
NEMA	National Electrical Manufactures Association
NEC	National Electrical Code
NFPA	National Fire Protection
psig	Pounds Per Square Inch Gage Pressure
SMACNA	Sheet Metal and Air Conditioning Contractor National Association
UL	Underwriters Laboratories, Inc
UPC	Uniform Plumbing Code
V	Volts
WP	Working Pressure
WG	Water Gage

ADDENDUM 1

1.6 CODES, PERMITS, STANDARDS, INSPECTIONS, FEES

- A. Obtain permits and inspections and pay fees required by Federal, State and Local authorities having jurisdiction.
- B. Work and materials shall be in accordance with requirements of all applicable codes, rules, and ordinances.
- C. Conform to applicable industry standards, such as ANSI, UL, ETL and other standards as noted.
- D. Nothing in the Drawings or Specifications shall be construed to permit work not in conformance with codes, rules and regulations.
- E. Where Drawings or Specification call for material or construction of a better quality or larger sizes than required by the codes, rules and regulations, the provisions of the Drawings or Specifications shall take precedence over requires of the codes, rules and regulations.
- F. Notify the Architect/Engineer of deviations in the Contract Documents to code requirements prior to installation of the Work. Include in the work changes due to the requirement of code enforcing agencies at no additional cost to the owner.

1.7 ALTERNATES

- A. See Bid Form and Alternates described in Division 01 for possible effects on work of Division 22.

1.8 SUBSTITUTIONS

- A. Comply with Division 01 and with additional requirements indicated in this article.
- B. Where “Manufacturer” paragraphs include the word “Approved”, approval of the proposed substitution is required. The Architect/Engineer is the sole judge of quality of proposed substitution.
- C. Where “Manufacturer” paragraph does not include the word “Approved”, substitution is not allowed.
- D. Architect/Engineer will consider Contractor's request for substitution when the following conditions are satisfied. When the Architect/Engineer approves a substitution, the approval is given with the understanding that the following requirements are satisfied. If the following conditions are not satisfied, Architect/Engineer will return requests without action, except to record noncompliance with these requirements:
 - 1. Substitution request is fully documented and properly submitted.
 - 2. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - 3. Requested substitution provides sustainable design characteristics that specified product provided.

ADDENDUM 1

4. Substitution request is submitted prior to bid.
 5. Requested substitution will not adversely affect Contractor's construction schedule.
 6. Requested substitution will not increase cost to owner.
 7. Requested substitution has received necessary approvals of authorities having jurisdiction.
 8. Requested substitution is compatible with other portions of the Work.
 9. Requested substitution has been coordinated with other portions of the Work.
 10. Requested substitution provides specified warranty.
 11. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
 12. "Manufacture paragraphs include the words "Approved".
- E. Substitution following bid will be allowed only when changes proposed by Contractor are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
- F. Substitution will be allowed only when changes proposed by Contractor are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
- G. Substitutions for convenience are not allowed.

1.9 SUBMITTALS

- A. General Submittal Procedure Requirements: Comply with Division 01 and with additional requirements indicated in this article.
- B. Contractor shall plan for a minimum of a 10 business day submittal review and commentary time period. Contractor shall schedule their submittal documents accordingly. Major equipment or long lead submittals shall include time for resubmittal in the event equipment as submitted is not in conformance with contract documents.
- C. Partial submittals, or submittals not meeting formatting requirements will be returned unreviewed. The following are the acceptable submittal packages.
1. All Plumbing Product Data.
- D. Product Data: Collect information into a single submittal for each division.
1. Submit prior to fabrication and delivery.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Submit as specified in individual specification sections.
 4. Submit Product Data in the following format:
 - a. PDF electronic file.
 - 1) Separate file for Plumbing system. Bookmarks provided for each spec section and product. Bookmark names for each product shall be "Spec Section_Paragraph Number_Product Name."

ADDENDUM 1

- 2) Include cover page with system, project, general contractor, mechanical contractor, architect, engineer and date of project final completion.
- E. Application for Payment and Schedule of Values: Comply with requirements specified in Division 01 with additional requirements as indicated.
 1. Include separate costs for the following:
 - a. Mobilization.
 - b. Submittals.
 - c. Plumbing Material.
 - d. Plumbing Labor.
 - e. Operation and Maintenance Manuals.
 - f. Closeout.
- F. Maintenance Data: Comply with requirements specified in Division 01 and the Article "Operation and Maintenance Manuals" in this specification.
- G. Project Record Documents: Comply with requirements specified in Division 01 and the Article "Project Record Documents" in this specification.
- H. Approval: The acceptance of a manufacturers name or product by the Architect/Engineer does not relieve the Contractor of the responsibility for providing material and equipment which complies in all details with the requirements of the contract documents.

1.10 PRODUCT DELIVERY STORAGE AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
 1. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
 2. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.
- C. Storage:
 1. Store products to allow for inspection and measurement of quantity or counting of units.
 2. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
 3. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
 4. Protect stored products from damage and liquids from freezing.
 5. Cover open ends of equipment and work during storage and construction.

ADDENDUM 1

1.11 COORDINATION

- A. Each contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the Work. Each contractor shall coordinate its operations with operations, included in different Sections that depend on each other for proper installation, connection, and operation.
- B. Failure to coordinate work with other contractors is considered sufficient cause to alter the work, at no cost to the Owner.
- C. Contractor is required to attend and participate in project coordination meetings.
- D. Provide offsets and perform rerouting to fit Work in available space. Include provisions for such requirements in bid.
- E. Existing Conditions:
 - 1. Existing Work shown is based on existing drawings as available and on limited project site observations to the extent possible. Field verify existing conditions prior to commencement of work.
 - 2. Installation of mechanical work will require openings, removal and replacement of existing general construction to match existing. Include provisions for such requirements in bid.
 - 3. Installation of mechanical work will require removal, relocation and reinstallation of existing Fire Protection, Plumbing, HVAC and Controls work. Include provisions for such requirements in bid.
- F. Site Visit: Each contractor shall visit the site before bid to determine conditions affecting installation of Work. Include provisions for such conditions in bid.
 - 1. Investigate each space through which equipment must be moved. Where necessary arrange with equipment manufacturers to ship equipment in sections with suitable dimensions for moving through restricted spaces. Include provisions for such conditions in bid.

1.12 WORKMANSHIP

- A. Work shall be in accordance with trade best practices. Failure to provide acceptable workmanship is sufficient cause to alter the work, at no cost to the owner.

1.13 DRAWINGS AND SPECIFICATIONS

- A. Drawings are diagrammatic and show only approximate locations of mechanical piping, ducts, and equipment. Do not scale the drawings. Take measurements from building or site and verify with other Contract Documents.
- B. Drawings are diagrammatic for document clarity and do not indicate all required offsets, fittings, and accessories that may be required. Carefully investigate the finish conditions that would affect the work to be performed and arrange such work accordingly, providing required

ADDENDUM 1

offsets, fittings, and accessories to meet such conditions. Provide required offsets, fittings and accessories in bid. No additional costs shall be charged to Owner for additional offsets, fittings, and accessories required to install the mechanical systems shown on the drawings.

- C. It is the responsibility of the Contractor to provide equipment that fits into the space allotted and allows adequate acceptable clearances for installation, replacement, entry, servicing, and maintenance.
- D. Field verify dimensions and existing conditions prior to performing work. Report any discrepancies to Architect/Engineer prior to proceeding with the work. Failure to follow this instruction is considered sufficient cause to alter the work, at no cost to the Owner, as directed by the Architect/Engineer.

1.14 MATERIALS

- A. Products of any one classification which are used in quantity shall be of a single manufacturer.
- B. Products shall be installed in accordance with the manufacturer's recommendations.
- C. Products shall be installed in strict accordance with governing codes and ordinances.
- D. Where two or more manufactures are listed in the specification but not on the drawings, the first mentioned was used as the basis of design.
- E. Where other than the basis of design product is selected, product shall be equal to or superior to the basis of design product in appearance, function, performance, quality, local support and shall meet requirements of the plans and specifications. It is the Contractor's responsibility, in coordination with the supplying authorized manufacturer representative, to ensure contract document requirements are met. Listing of an approved equal manufacturer does not relieve them of contractual responsibilities in the event they cannot meet the requirements of the contract documents.
- F. Where other than the basis of design product is selected, Contractor is responsible for cost of resulting additional work, coordination with other trades, and redesign of associated building systems as required to accommodate selected product. This shall include, but is not limited to, structural upgrades, electrical system modifications, impacts to construction sequencing, shop drawing or BIM layout coordination, controls or other.
- G. Materials within plenums shall be noncombustible or shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with ASTM E 84 or UL 723.

1.15 DEMOLITION

- A. Provide demolition work required in existing building for removal of existing mechanical equipment, ductwork, controls, and piping and for installation of new equipment, ductwork, controls, and piping. Remove/replace or reinstall existing equipment, controls, piping, and ductwork as required by demolition to provide a complete and operational system.

ADDENDUM 1

- B. Remove and dispose of existing materials indicated on the Drawings to be removed. Drawings are based on field observation and existing record drawings. Field verify information is as shown on drawings. Report discrepancies to the Architect/Engineer before disturbing existing installation.
- C. Remove refrigerant from existing refrigerant equipment. Furnish containers approved by AHJ and of sufficient size to hold entire charge. Deliver to owner as directed. Furnish signed certificate stating that the refrigerant has been removed, transferred to container and that the containers have been delivered.
- D. Where existing ductwork, and piping is removed, remove back to main. Cap ductwork and piping behind surfaces so concealed. Remove unused ductwork and piping in walls to be demolished, and cap remaining ductwork and piping above ceiling or below finished floor so concealed.
- E. Where mechanical equipment, ductwork, controls, and piping are removed and the surrounding surfaces and finishes are to remain, repair or replace surfaces with materials in conformance with other sections of this specification. Where not specified, repair or replace to match existing condition.
- F. Where mechanical equipment, ductwork, controls, and piping are removed and the surrounding systems are to remain, repair or replace with materials in conformance with other sections of this specification. Where not specified, repair or replace to match existing condition.
- G. Provide temporary connections to maintain existing systems in service during demolition.
- H. Do not reuse existing products unless indicated on the Drawings.
- I. The owner has the right to retain ownership of any materials being removed. Deliver items to the Owner's Representative as indicated in the Contract Documents. Notify owner in writing at least 7 days in advance of demolition.

1.16 DEMONSTRATION

- A. Subject system to operating tests as to demonstrate that systems will operate as indicated in the Contract Documents. If tests do not demonstrate satisfactory performance, correct deficiencies and retest systems.
- B. Unless otherwise directed by the Architect/Engineer, perform in presence of the Architect/Engineer, and Owners Representative. Give 2 week notice prior to demonstration.

1.17 PROJECT RECORD DOCUMENTS

- A. General Record Document Requirements: Comply with Division 01 and with additional requirements indicated in this article.
- B. Record Drawings

ADDENDUM 1

1. Record Prints: Maintain one set of black-line white prints of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
 - a. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally.
 - b. Content: Types of items requiring marking include, but are not limited to, the following:
 - 1) Locations and depths of underground piping.
 - 2) Revisions to routing of piping.
 - 3) Valve locations.
 - 4) Actual equipment locations.
 - 5) Changes made by Change Order, Construction Change Directive.
 - 6) Changes made following Architect/Engineer's written orders.
 - c. Mark record sets with red-colored pen. Use other colors to distinguish between changes for different categories of the Work at same location.
 - d. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
 - e. Keep marked up drawings readily available at project site.
2. Record Digital Data Files: Immediately before inspection for Certificate of Substantial Completion, review marked-up record prints with Architect/Engineer.

C. Record Product Data

1. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 - a. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - b. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 - c. Note related Change Orders, and record Drawings where applicable.
2. Format: Submit record Product Data as annotated PDF electronic file.
 - a. Include record Product Data directory organized by Specification Section number and title, electronically linked to each item of record Product Data.

D. Recording and Maintenance

1. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
2. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide

ADDENDUM 1

access to project record documents for Architect/Engineer's reference during normal working hours.

1.18 OPERATION AND MAINTENANCE MANUALS

- A. Comply with Division 01 and with additional requirements indicated in this article.
- B. Include operation and maintenance information for all equipment.
- C. Collect information into a single submittal for each division.
- D. Submit in PDF electronic file format. Bookmarks provided for each section. Bookmark names for each section shall be "Section Name_Product Name." For example, "Start-Up Forms_Pump P-1."
- E. Submit Product Data in the following format:
 - 1. PDF electronic file.
 - a. Separate file for Fire Suppression, Plumbing, and HVAC system. Bookmarks provided for each category and product. Bookmark names for each product shall be "Category_Product Name."
 - b. Include cover page with system, project, general contractor, mechanical contractor, architect, engineer and date of project final completion.
- F. Include the following categories:
 - 1. Product data (compiled final submittal package).
 - 2. Parts list: Include local source of parts.
 - 3. Maintenance schedule and procedures.
 - 4. Repair procedures and sources.
 - 5. Troubleshooting guide.
 - 6. Warranties.

1.19 CLOSEOUT

- A. Comply with Division 01 and with additional requirements indicated in this article.
- B. Submit written certification that the work has been fully completed in strict accordance with plans and specifications.
- C. Fee for mechanical punch list work includes two final construction reviews. The first after the contractor's written certification. The second after written certification from the Contractor that the deficiencies noted during the first review have been corrected. If additional reviews are required due to the Contractor's failure to correct the deficiency, or inaccurate reporting of corrected deficiencies, the Engineer will be compensated on a time and material basis. Compensation for additional reviews will be deducted from final payment to the Contractor.

ADDENDUM 1

D. Contractor shall be responsible for managing the response, troubleshooting and resolution of system operational concerns identified as part of commissioning and project closeout process. Types of activities shall include, but are not limited to, coordinating responsible parties for management tracking and resolution of the Cx Issues log, response to occupant temperature or system control complaints and/or equipment operational concerns. General Contractor shall appropriately respond to system operational concerns with relevant subcontractor stakeholders present for investigation at the job site and provide documented findings and response prior to requesting additional input and support of the A/E team.

1.20 **WARRANTY**

A. Comply with Division 01 and with additional requirements indicated in this article.

B. Where not so prescribed or defined, the warranty period shall be 1 year. Warranty periods shall not start until substantial completion. Contractor shall extend warranties specified in other sections. Contractor shall review all spec sections for extended warranties and include on warranty letter.

PART 2 - PRODUCTS

2.1 **NOT USED.**

PART 3 - EXECUTION

3.1 **NOT USED.**

END OF SECTION 230010

KEYNOTES

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Client
ABERDEEN SCHOOL
DISTRICT 5

2025 - 007
ABERDEEN
HIGH SCHOOL

Issue & Revision Dates	
17 APRIL 2026	BID SET
28 APRIL 2026	ADDENDUM 1

BID SET

NOTE: DRAWING MAY BE REDUCED

Task	Start Time	End Time
Design	0	30'

Drawn By	AMS
Checked By	AH
Sheet Title	

FIRST FLOOR REFERENCE PLAN

A2.02

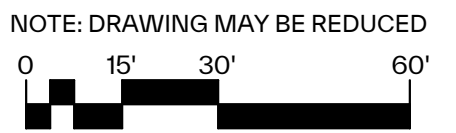
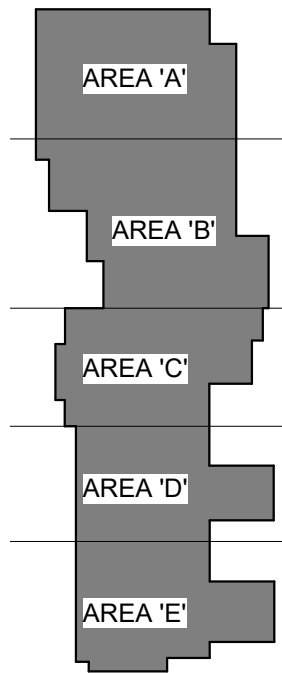
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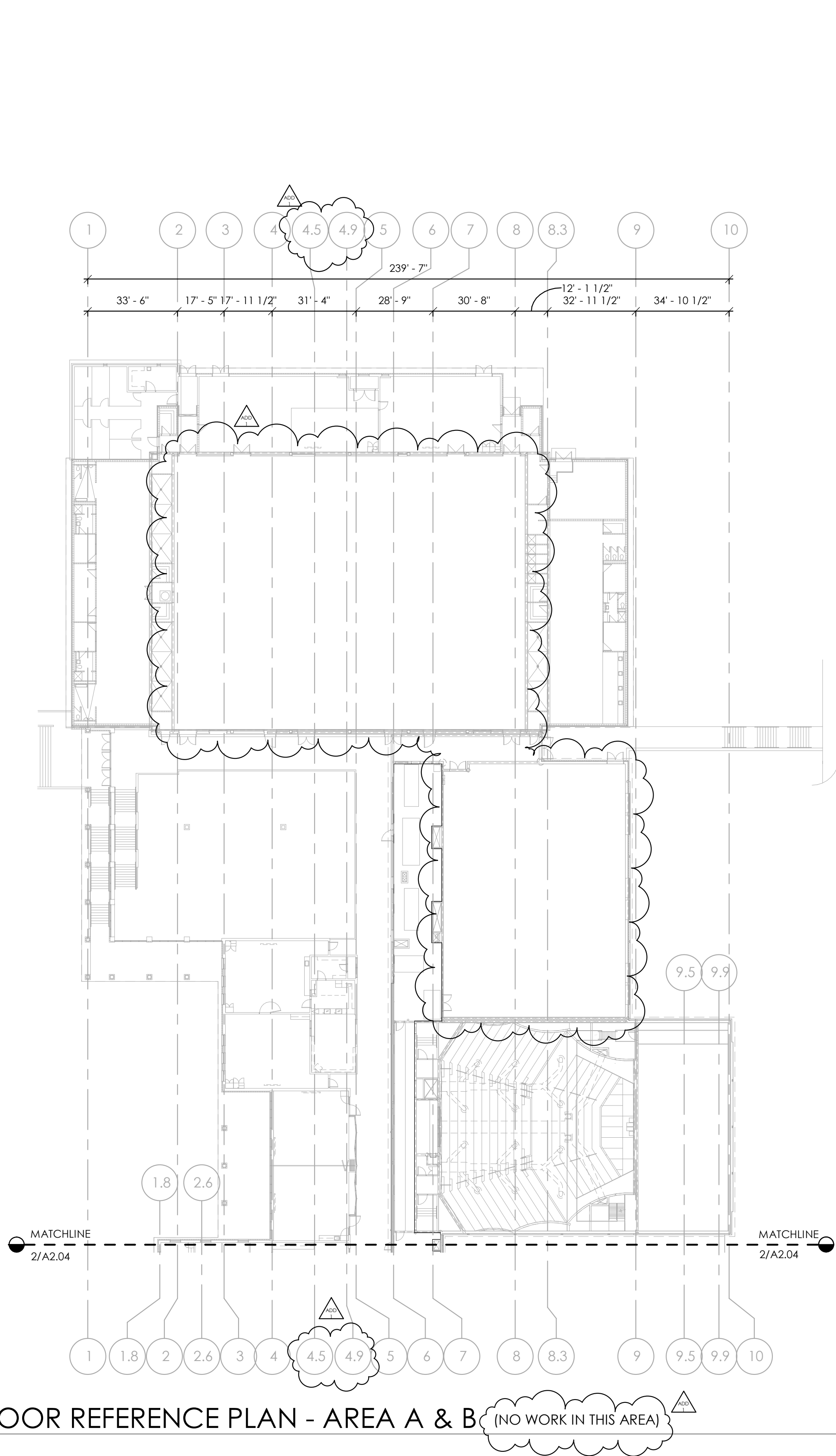


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Sheet Title

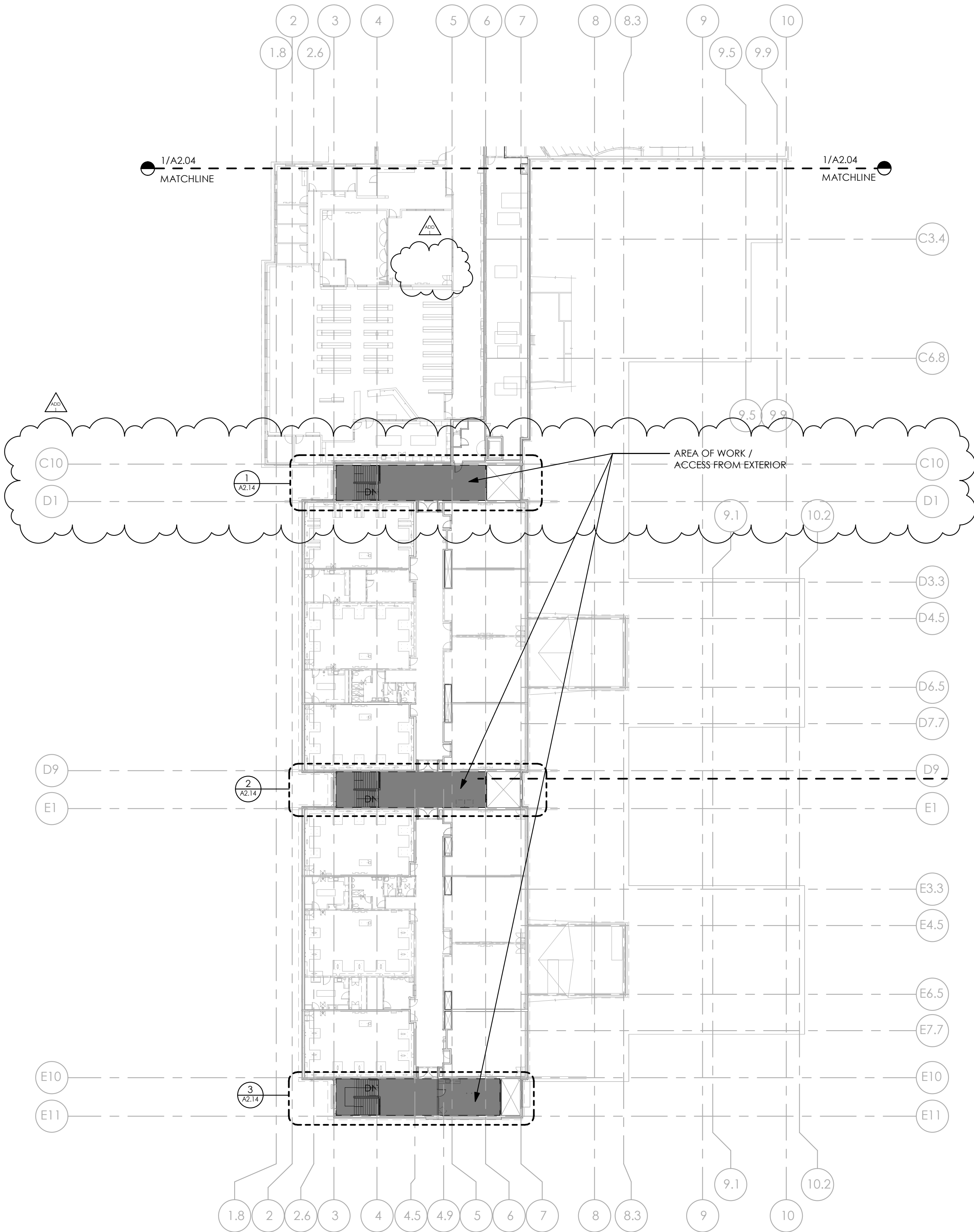
THIRD FLOOR
REFERENCE
PLAN

A2.04

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1 THIRD FLOOR REFERENCE PLAN - AREA A & B (NO WORK IN THIS AREA)
1" = 30'-0"



2 THIRD FLOOR REFERENCE PLAN - AREA C, D & E
1" = 30'-0"



SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

KEYNOTES

S2

FIXED BOLLARDS, USE GALV. BOLTS EPOXIED INTO EXISTING CONC. SLAB

S3

EXISTING BOLLARDS

S4

HOUSEKEEPING PAIL, 196" X 72" COORD LOCATION W/ DUST COLLECTOR INSTALLER

S5

CORE DRILL 4" +/- HOLE THROUGH CONCRETE CURB FLUSH WITH TOP OF CONCRETE SLAB WEST OF GRID 10.2

ROOF PLAN
GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. POSITIVE ROOF SLOPE: ALL ROOF CONSTRUCTION SHALL PROVIDE POSITIVE SLOPE TO DRAIN IN CONFORMANCE WITH N.R.C.A. PUBLISHED RECOMMENDATIONS. STANDING WATER OR PONDING SHALL NOT BE ACCEPTABLE. NOTE: ALL ROOF SLOPES ON ROOF PLAN ARE SURFACE SLOPE IN DIRECTION OF ARROW, TYP.

C. DOWNSPOUTS: SEE FLOOR PLANS AND EXTERIOR ELEVATIONS FOR EXACT DOWNSPOUT & DOWNSPOUT BRACKET LOCATIONS.

1. PROVIDE TEMPORARY DRAINAGE FROM GUTTERS AWAY FROM BUILDING UNTIL SUCH TIME AS FINAL DOWNSPOUT INSTALLATION.

LEGEND

XX"/12"

ROOF TYPE 'A'
SEE SHEET A40.20

DIRECTION AND AMOUNT OF DOWNSPOUT SLOPE OF ROOF SURFACE

REFLECTED CEILING PLAN
GENERAL NOTES

A. SEE SHEET G2.01 FOR GENERAL NOTES

B. GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF THE APPLICABLE TRADES TO PROVIDE PROPER LOCATIONS AND INSTALLATION OF CEILING ELEMENTS AND SYSTEMS.

C. MECHANICAL AND ELECTRICAL INFORMATION SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS IS FOR USE IN LOCATING CEILING MOUNTED FIXTURES, DIFFUSERS, GRILLES, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR QUANTITIES OF DEVICES AND ALL OTHER RELATED INFORMATION.

D. STRUCTURAL ELEMENTS ARE SHOWN FOR CONTRACTORS CONVENIENCE. SEE STRUCTURAL DRAWINGS FOR ACTUAL SIZES AND SPACING OF SUCH ELEMENTS.

LEGEND

SOFFIT TYPE, SEE A2.11 & A40.20

SOFFIT HEIGHT, FIELD VERIFY MODIFIER, WHERE APPLICABLE

SURFACE MOUNTED EXTERIOR LIGHT FIXTURE (SEE ELECTRICAL)

CEILING & SOFFIT TYPES

METAL DECKING, PAINTED

TCF

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11526
REGISTERED
ARCHITECT
Stephen Wachtler
STATE OF WASHINGTON

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DISTRICT 5

2025 - 007
ABERDEEN
HIGH SCHOOL

410 N G St., Aberdeen, WA
98520

Issue & Revision Dates
7 APRIL 2026
28 APRIL 2026
BID SET
ADDENDUM 1

BID SET

Keyplan

AREA 'A'

AREA 'B'

AREA 'C'

AREA 'D'

AREA 'E'

NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

Drawn By
Checked By
Sheet Title

AMS
AH

FIRST FLOOR
WOOD SHOP
PLAN

A2.11

Sheet Number
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1 NORTH ELEVATION - CANOPY
1/8" = 1'-0"

2 CANOPY ROOF PLAN - WOOD SHOP
1/8" = 1'-0"

3 EAST ELEVATION - CANOPY
1/8" = 1'-0"

4 REFLECTED CEILING PLAN - WOOD SHOP
1/8" = 1'-0"

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

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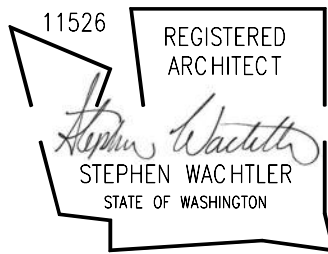
SHEET NOTES:

A. SEE SHEET A2.01 FOR FLOOR PLAN GENERAL NOTES

KEYNOTES

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Client
ABERDEEN SCHOOL
DISTRICT 5

Project
**ABERDEEN SCHOOL
DISTRICT 5**

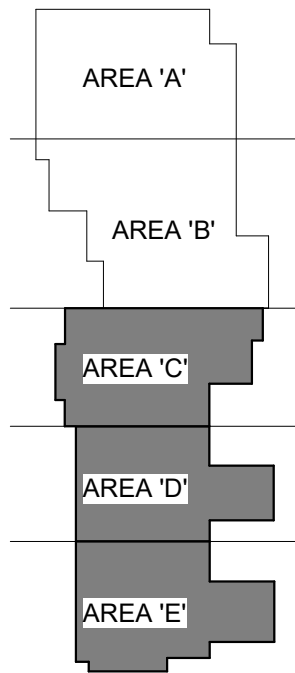
2025 - 007
**ABERDEEN
HIGH SCHOOL**

410 N G St., Aberdeen, WA
98520

Issue & Revision Dates
7 APRIL 2026 BID SET
28 APRIL 2026 ADDENDUM 1

BID SET

Keyplan



NOTE: DRAWING MAY BE REDUCED
0 4' 8' 16'

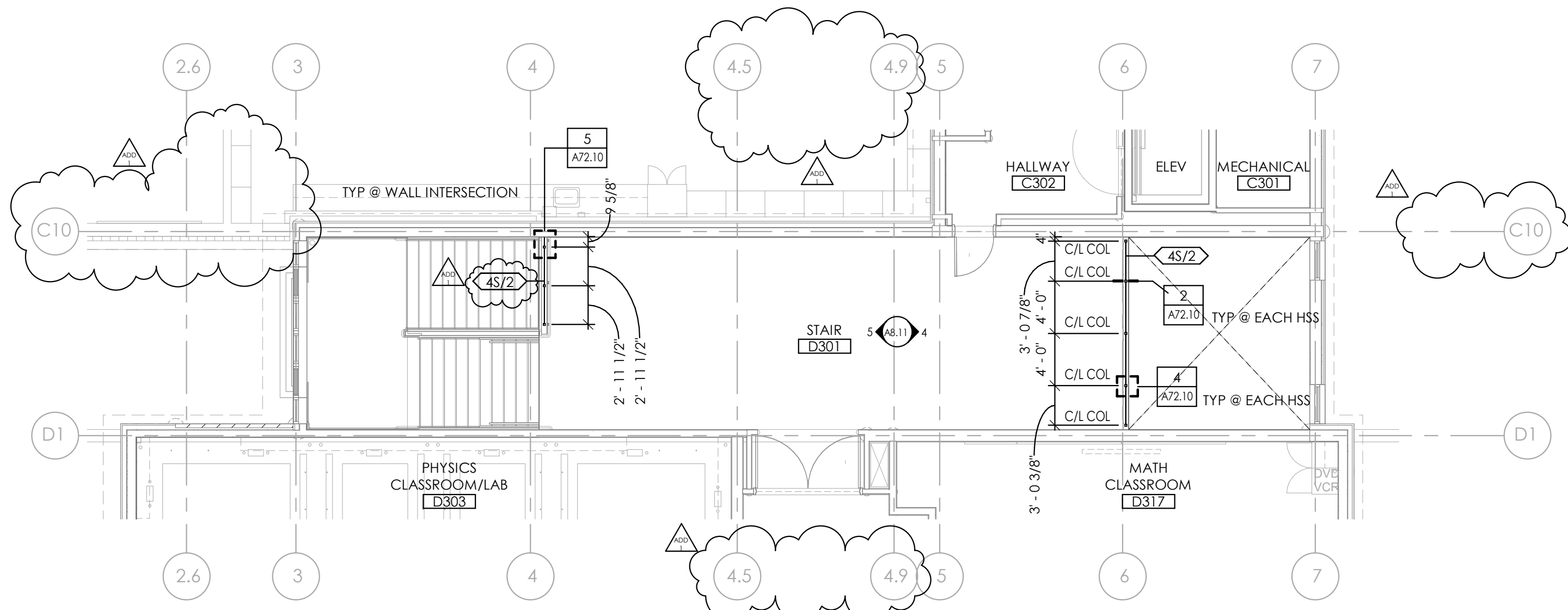
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Sheet Title

**THIRD FLOOR
GUARDRAIL
PLAN**

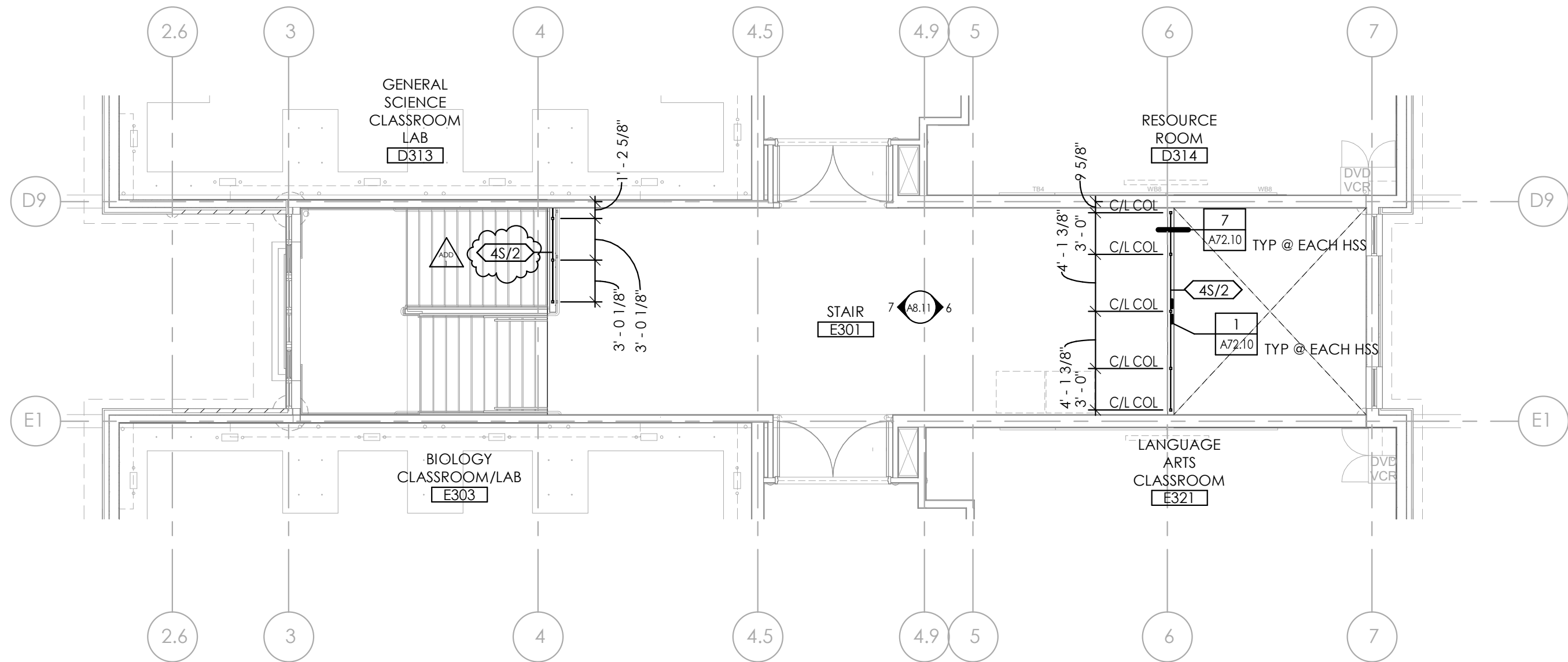
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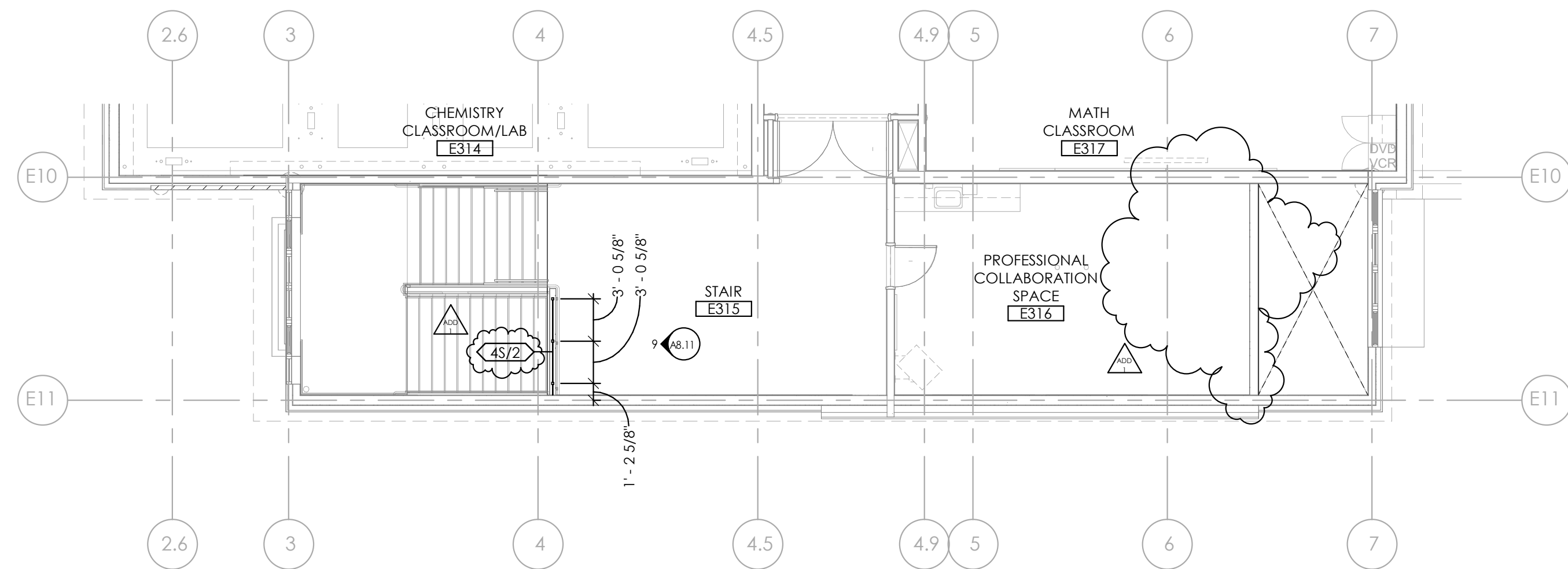
1 FP3 - ENLARGED AREA R1.2

1/8" = 1'-0"



2 FP3 - ENLARGED AREA R1.3

1/8" = 1'-0"

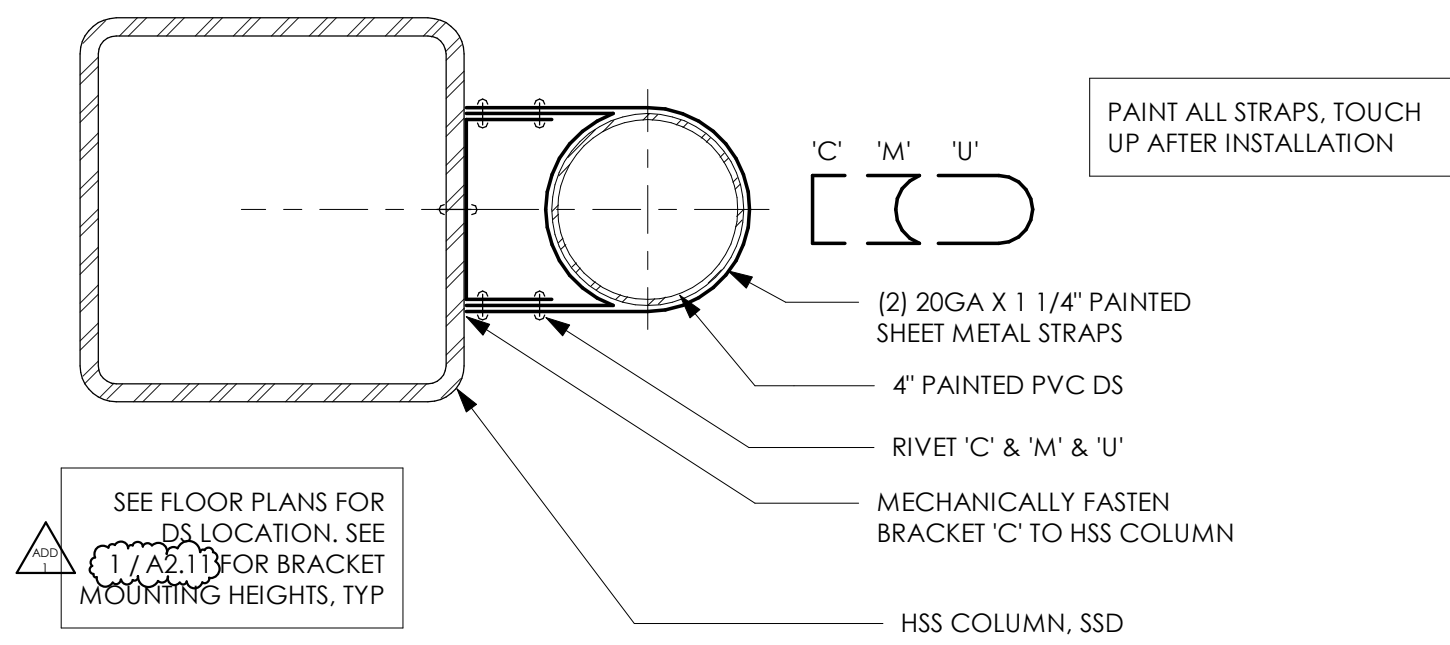


3 FP3 - ENLARGED AREA R1.4

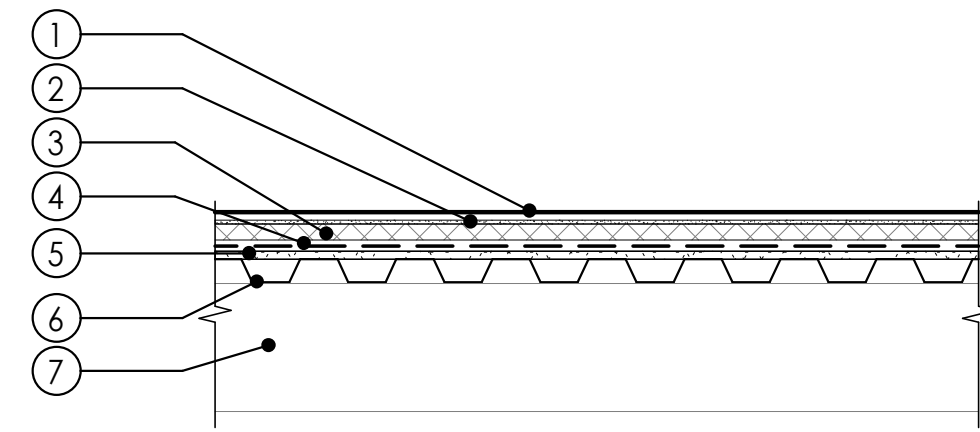
1/8" = 1'-0"



FIELD VERIFY ALL EXISTING HSS IN FIELD.
DIMENSIONS SHOWN ARE APPROXIMATE.



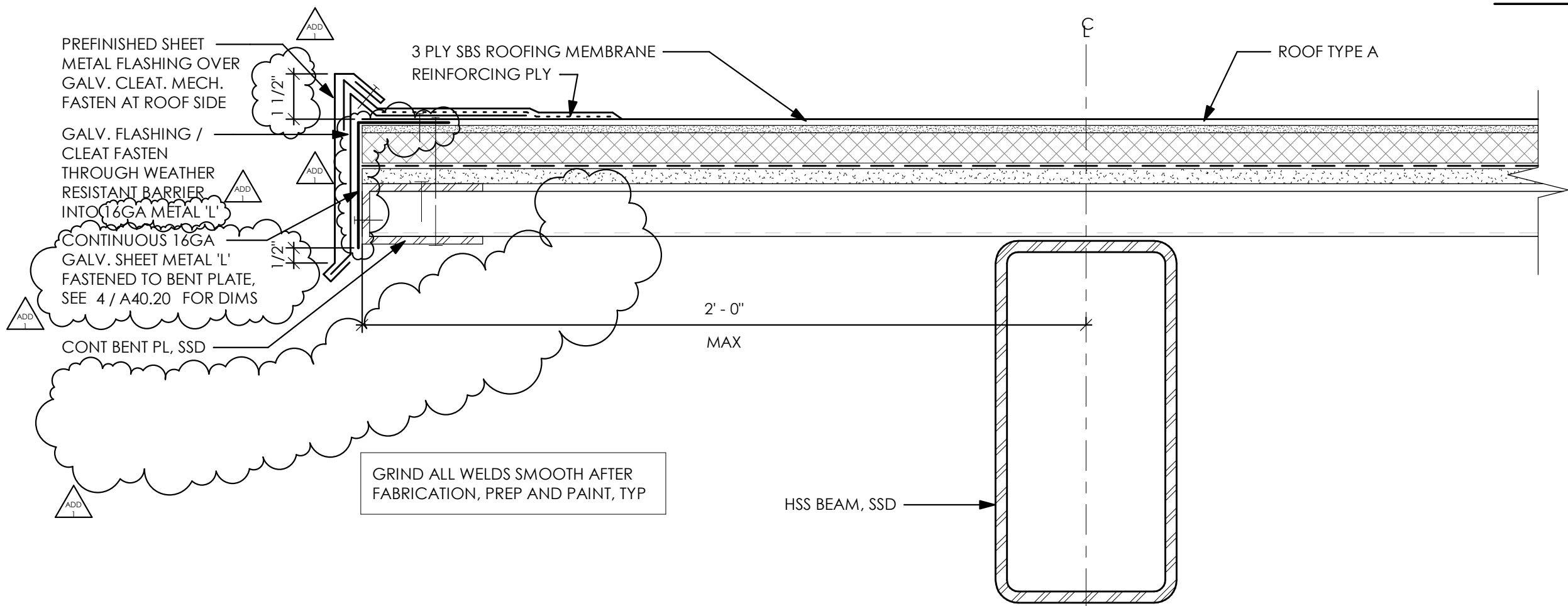
1 DOWNSPOUT BRACKET PLAN
3" = 1'-0"



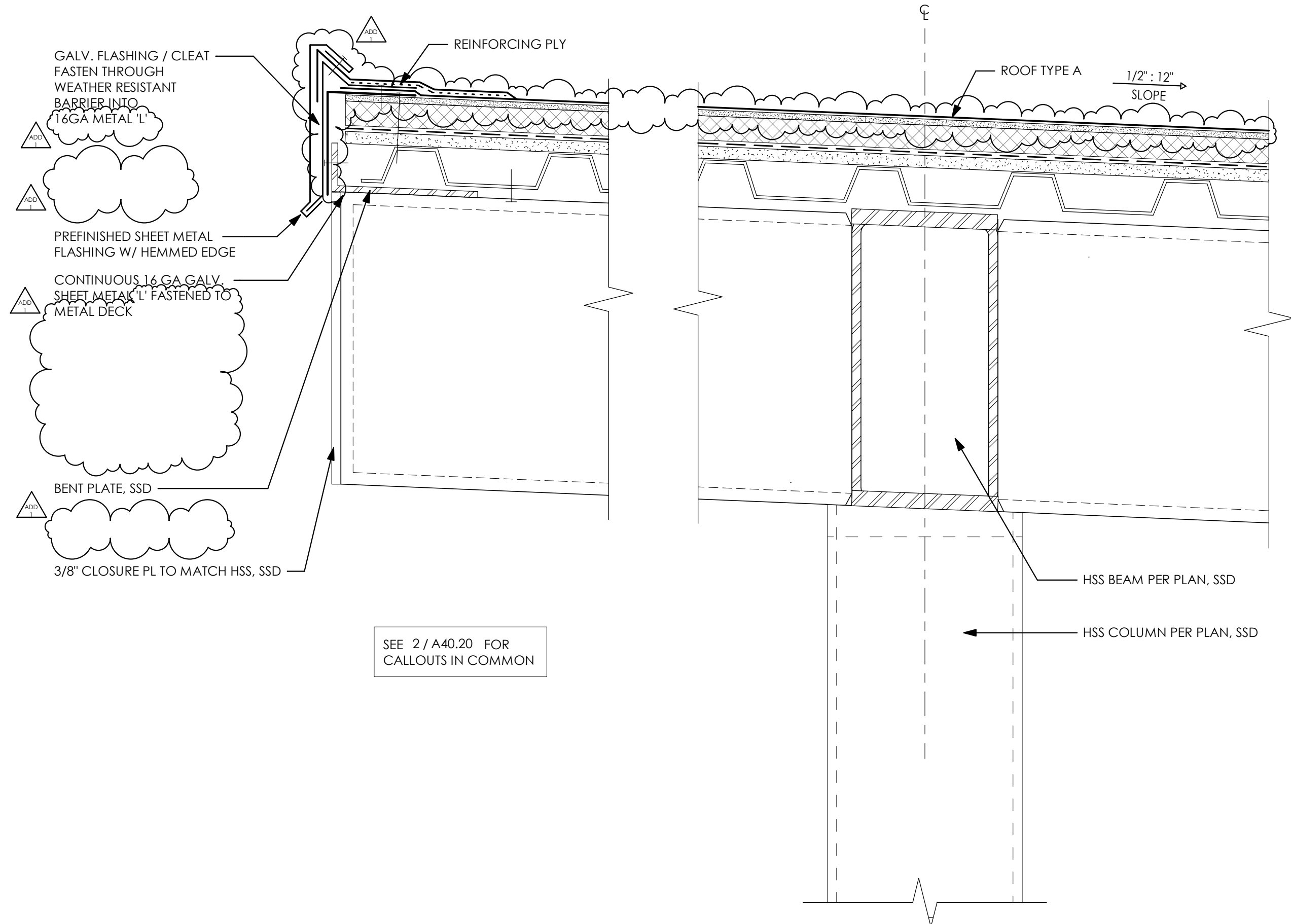
- ASSEMBLY**
- 3 PLY SBS MEMBRANE ROOFING
 - COVERBOARD
 - 1" RIGID INSULATION
 - VAPOR RETARDER / INTERIM ROOFING
 - SUBSTRATE BOARD
 - 18 GA 1-1/2" B METAL DECKING, SSD
 - HSS CANOPY FRAMING, SSD

- FIRE RATING**
- NON-RATED

ROOF TYPE 'A' - WOOD SHOP CANOPY

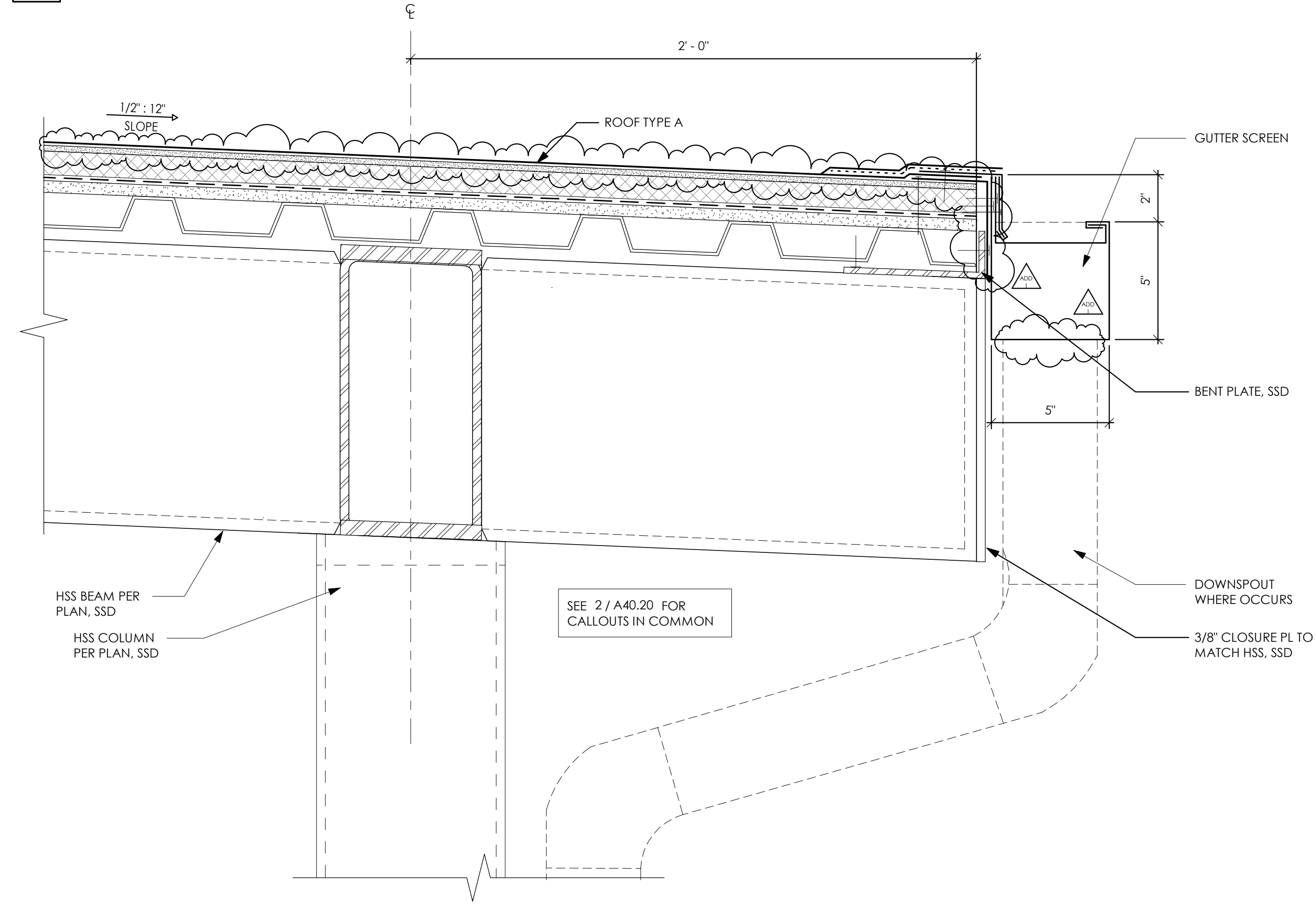


2 WOOD SHOP CANOPY LOW EAVE
3" = 1'-0"

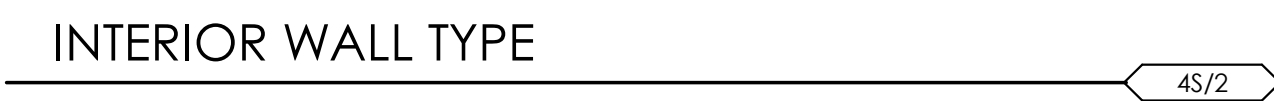


4 WOOD SHOP CANOPY HIGH EAVE
3" = 1'-0"

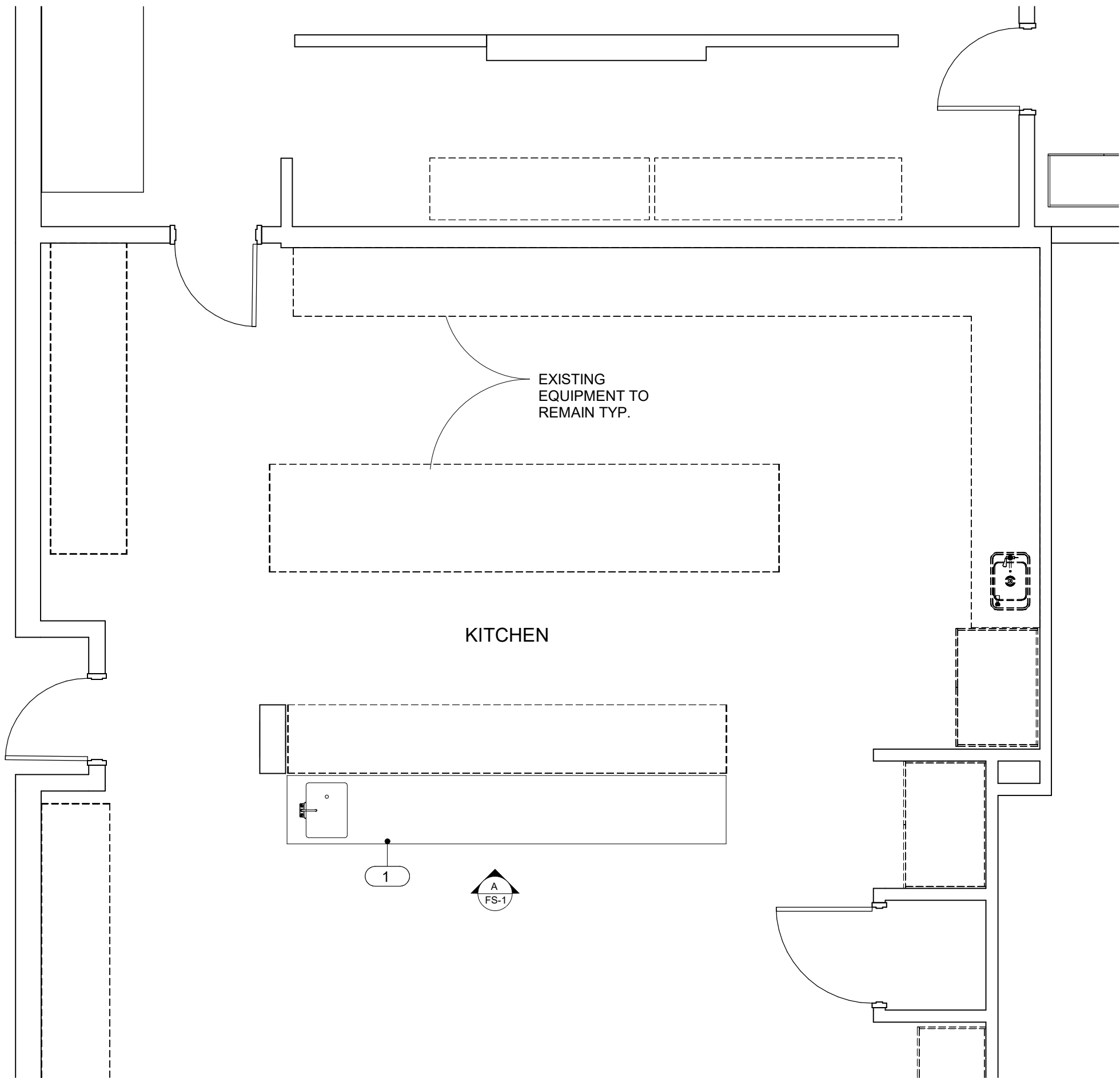
3 WOOD SHOP CANOPY LOW EAVE
3" = 1'-0"



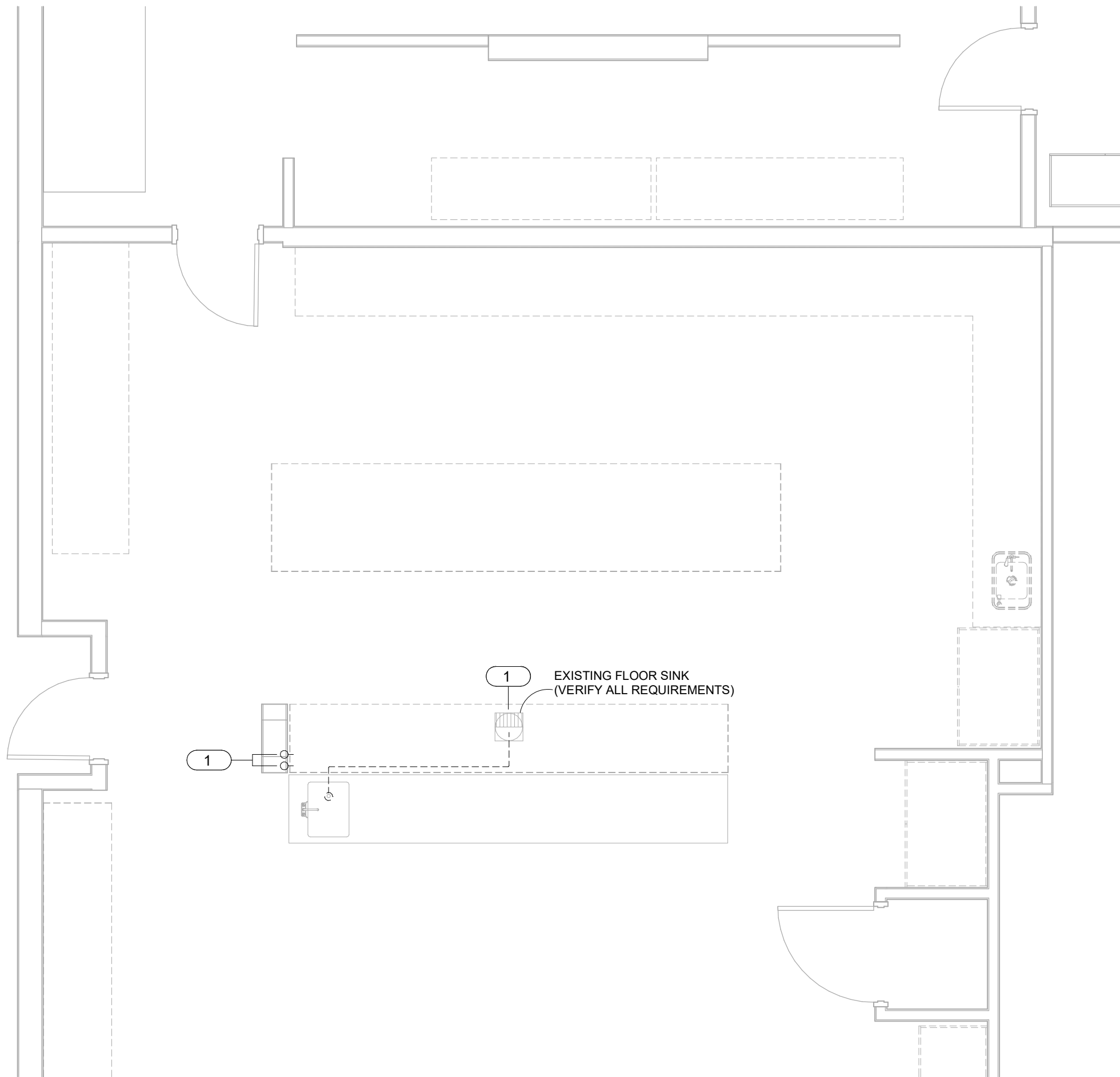
5 WOOD SHOP CANOPY RAKE
3" = 1'-0"



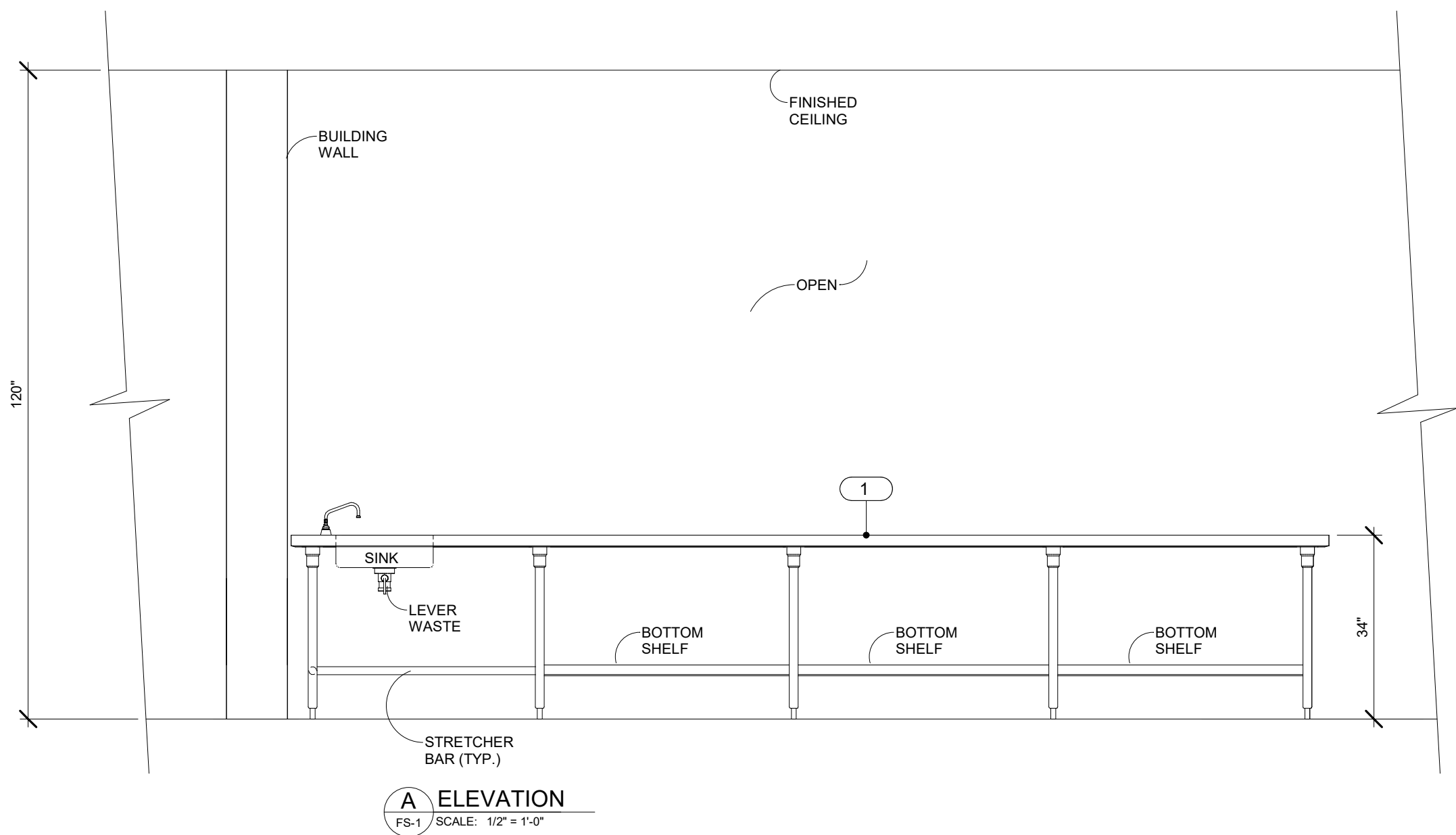
EQUIPMENT SCHEDULE														
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	HW SIZE	AFF	HW GPH	CW SIZE	AFF	WASTE TYPE	DIA	AFF	PLUMBING COMMENTS	ITEM
1	1	WORKTABLE W/ADA SINK	CUSTOM FABRICATED	CUSTOM	1/2"	12"	10	1/2"	12"	FS	1 1/2"			1



1 EQUIPMENT PLAN
1/4" = 1'-0"



2 PLUMBING PLAN
1/4" = 1'-0"



A ELEVATION
FS-1 SCALE: 1/2" = 1'-0"

PLUMBING NOTES

- PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
- PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES (SINGLE AND/OR DUAL CHECK VALVES) AND VACUUM BREAKERS AND CONNECT ALL WATER AND WASTE LINES TO FOOD SERVICE EQUIPMENT.
- PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
- PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
- FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH GRATE COVER AS INDICATED.
- FLOOR DRAINS INDICATED ARE FOR FOOD AREAS ONLY. ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ ARCHITECT.

NOTE

ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

NOTE

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.

PLUMBING SYMBOLS

- HW-HOT WATER, OR CW-COLD WATER
- EYE WASH
- WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
- INDIRECT WASTE
- FLOOR DRAIN
- FLOOR DRAIN WITH FUNNEL
- HUB DRAIN
- DRAIN IN FLOOR RECESS, CONNECT TO GENERAL CONTR. DRAIN PAN
- FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
- FLOOR SINK WITH FUNNEL GRATE

CLEVENGER ASSOCIATES
FOODSERVICE, BAKERY,
COMMISSARY AND LAUNDRY
DESIGN/CONSULTING
INFO@CLEVENGERASSOC.COM

OWNER: ABERDEEN SCHOOL DISTRICT
PROJECT: ABERDEEN HIGH SCHOOL
124 N G ST., ABERDEEN, WA 98520
WWW.CLEVENGERASSOC.COM

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION

Client
ABERDEEN SCHOOL DISTRICT 5

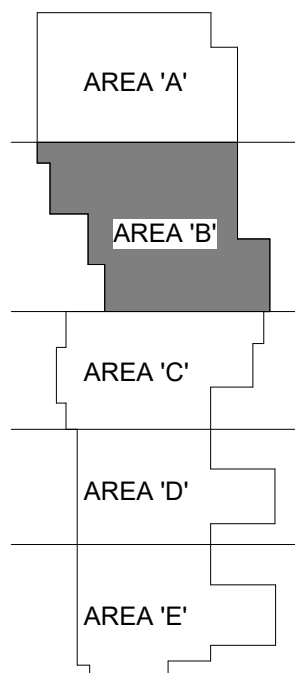
Project
ABERDEEN SCHOOL DISTRICT 5

2025 - 007
Aberdeen High School

410 N G St., Aberdeen, WA 98520

Issue & Revision Dates
7 APRIL 2026 BID SET

BID SET



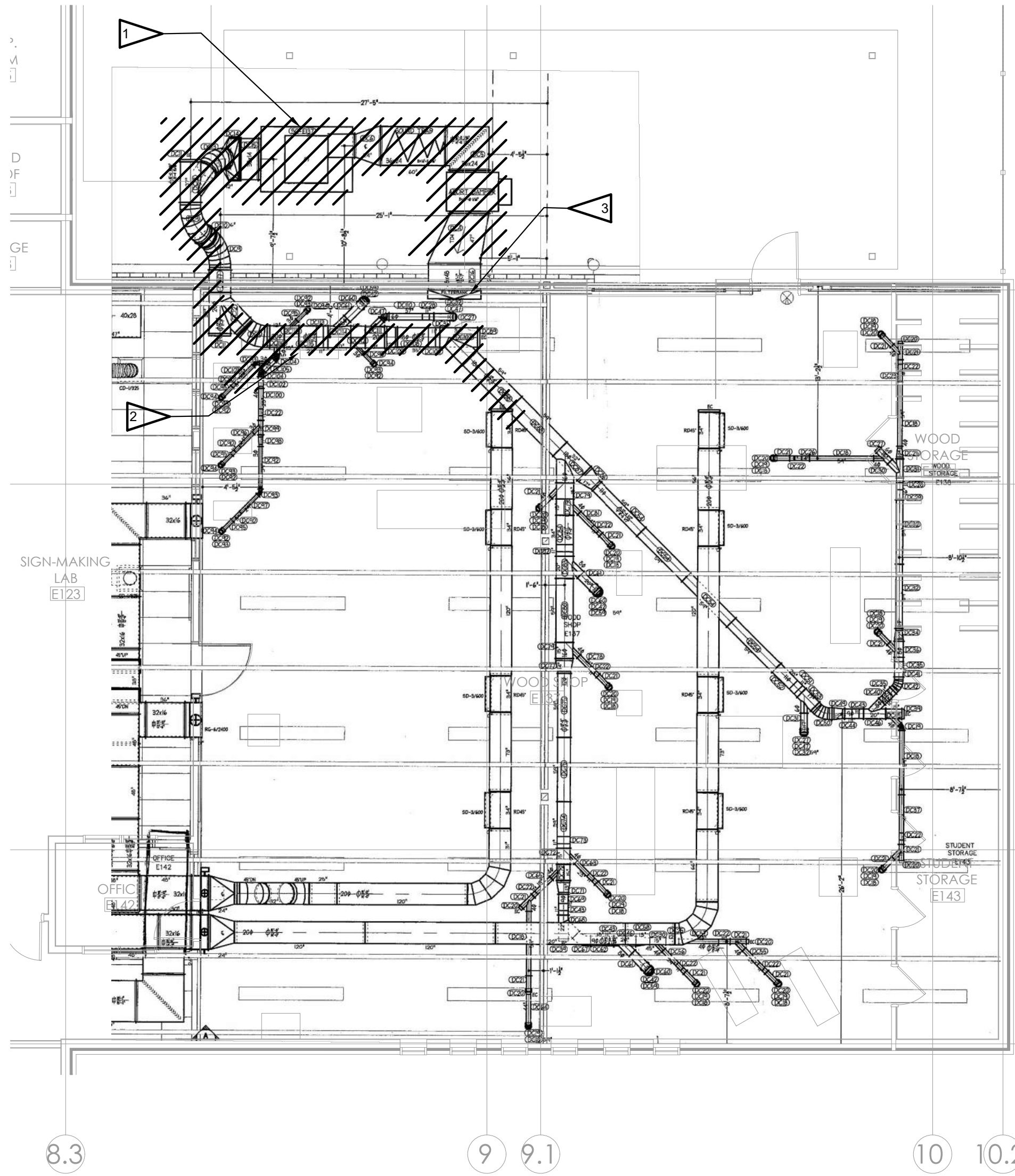
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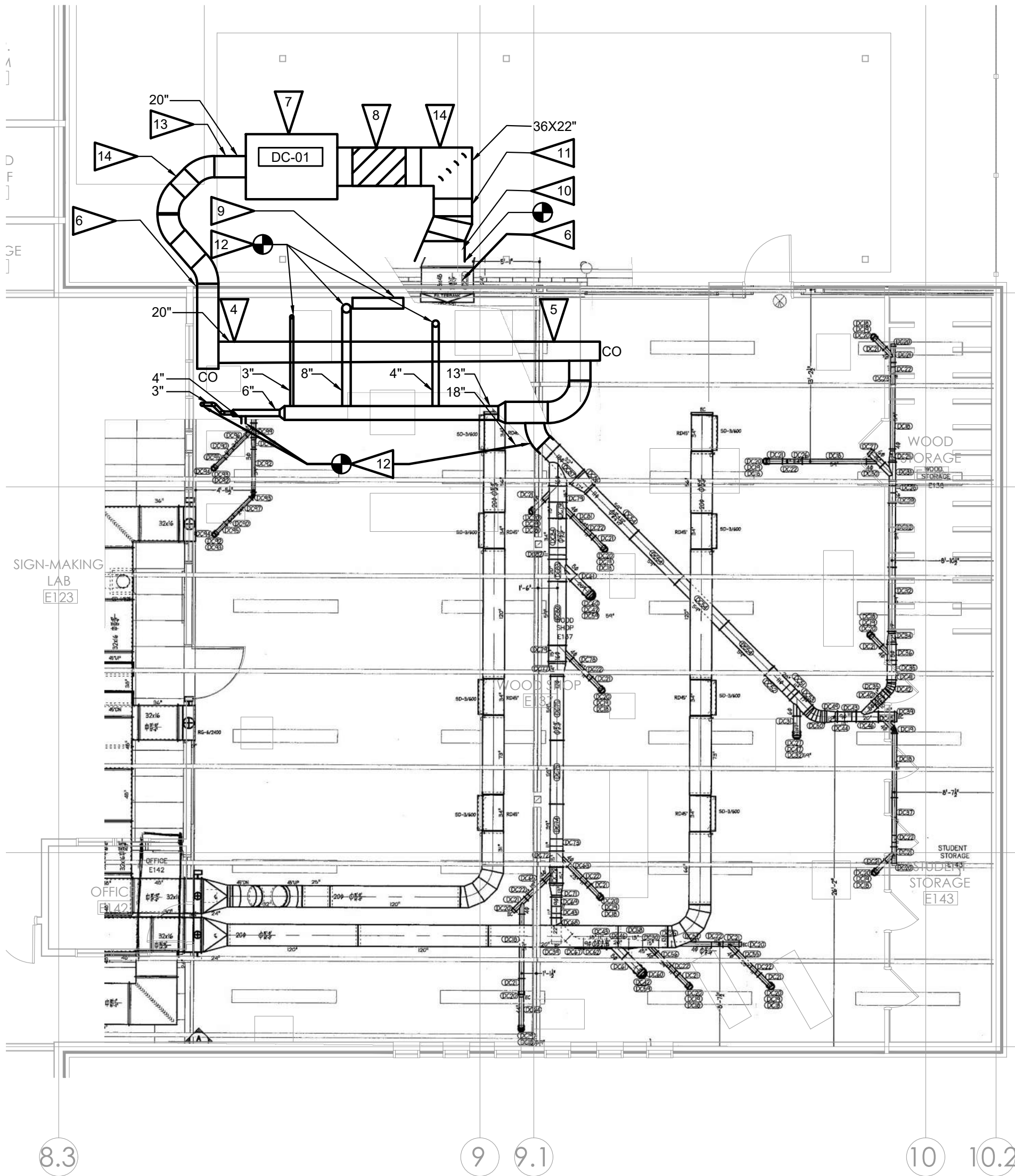
EQUIPMENT PLAN & PLUMBING ROUGH-INS

FS-1

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1 HVAC DEMO PLAN - WOOD SHOP - FOR REFERENCE
1/8" = 1'-0"



1 HVAC PLAN - WOOD SHOP - FOR REFERENCE
1/8" = 1'-0"

SAWDUST COLLECTOR SCHEDULE

TAG	AREA SERVED	LOCATION	MANUFACTURER / MODEL	CFM (CFM)	ESP (IN)	ELECTRICAL			DUST CART STORAGE (QTY) (GAL) (#) (GAL)	DIMENSIONS (LxWxHT) (INxINxIN)	WEIGHT (LBS)	NOTES
						FAN MOTOR (HP)	SHAKER MOTOR (HP)	V/Ø (HP)				
DC-01	WOOD SHOP	EXTERIOR	AAF / AR6-25	8545	14	25	3/4	460/3	4-55	85x61x156	5000	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

NOTES:

- 1) PROVIDE EXPLOSION PROOF AND WEATHER RATED MOTORS. FAN MOTOR AND SHAKER MOTORS SHALL BE SINGLE POINT POWER CONNECTION.
- 2) PROVIDE DIRECT DRIVE FAN WITH VFD.
- 3) PROVIDE SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER, SPARK DETECTORS, AND EXTINGUISHING VALVE/NOZZLES. PROVIDE REQUIRED NUMBER OF SPARK DETECTORS BASED ON DUCT SIZE. PROVIDE REQUIRED NUMBER OF EXTINGUISHING NOZZLES BASED ON DUCT SIZE. SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER SHALL HAVE INTEGRAL BLINKING LIGHT AND BUZZER. PROVIDE CONTROL OUTPUT TO FIRE ALARM PANEL.
- 4) PROVIDE FIRE ABORT DAMPER, AND PHOTOHELIC GAUGE. WIRE TO SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER.
- 5) PROVIDE WITH (4) 55 GALLON DRUMS, EXPLOSION VENT, EXPLOSION RELIEF PANEL AND SOUNDTRAP DOWNSTREAM OF FAN. DEFLECTOR PLATE SHALL BE ORIENTATE TOWARDS EXTERIOR WALL.
- 6) PROVIDE EXPLOSION DOORS WITH PROTECTIVE GAGES AND DEFLECTOR PLATES.
- 7) PROVIDE DUST SWITCH WITH SENSORS FOR UP TO 15 MACHINES, AUTO-MANUAL SWITCH AND ADJUSTABLE ON/OFF DELAYS. WIRE TO SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER.
- 8) PROVIDE REMOTE START/STOP SWITCH AND EMERGENCY STOP PUSHBUTTONS. PROVIDE REQUIRED NUMBER OF PUSHBUTTONS BASED ON NUMBER OF EXITS.
- 9) PROVIDE REMOTE MOUNTED CONTROL PANEL, SHIPPED LOOSE FOR FIELD INSTALL.
- 10) EQUIPMENT SHALL BE PROVIDED WITH A VISIBLE NAMEPLATE INDICATING THE SCCR RATING IN ACCORDANCE WITH UL REQUIREMENTS.
- 11) PROVIDE WITH SEISMICALLY RATED SUPPORT STRUCTURE ANCHORED TO EXISTING CONCRETE.
- 12) PROVIDE WITH INLET AND RECIRCULATION FILTERS.
- 13) FIELD VERIFY BLOWER AND SILENCER ORIENTATION PRIOR TO ORDER, MATCH EXISTING. EXISTING EXTERIOR WALL PENETRATIONS SHALL BE RE-USED.
- 14) FOR REFERENCE ONLY. EQUIPMENT AND INSTALLATION IS UNDER SEPARATE CONCURRENT CONTRACT.

SHEET NOTES:

1. ALL WORK ON THIS SHEET IS FOR INFORMATION/REFERENCE ONLY. WOK SHOWN IS UNDER SEPARATE CONCURRENT CONTRACT.
2. ALL EXISTING MECHANICAL SYSTEMS SHOWN ARE A REPRESENTATION OF THE EXISTING RECORD DRAWINGS AND ARE NOT TO BE CONSIDERED AS AS-BUILT. ALL DIMENSIONS, LOCATIONS, AND QUANTITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY DEMOLITION AND NEW CONSTRUCTION.
3. MECHANICAL CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH ELECTRICAL CONTRACTOR FOR DISCONNECTION OF ELECTRICAL POWER.
4. BALANCE NEW DUST COLLECTOR SYSTEM AND REBALANCE SAWDUST COLLECTOR BRANCH INLETS TO EQUIPMENT.

FLAG NOTES:

- 1 DEMO EXISTING DUST COLLECTOR, ALL EXTERIOR DUCTWORK AND ASSOCIATED SUPPORT STRUCTURES, APPURTENANCES INCLUDING SPARK DETECTOR AND EXTINGUISHING SYSTEM. EXTERIOR WALL PENETRATIONS TO BE RE-USED FOR CONNECTION TO NEW SYSTEM.
- 2 DEMO EXISTING DUST COLLECTOR EXHAUST MAIN WITHIN BUILDING. DISCONNECT EXISTING DROPS TO EQUIPMENT FROM MAIN FOR RE-CONFIGURATION AND RE-CONNECTION TO NEW SYSTEM.
- 3 EXISTING RETURN TO SPACE GRILLE AND FILTER SYSTEM WITHIN THE BUILDING TO REMAIN FOR RE-CONNECTION TO NEW SYSTEM.
- 4 SAWDUST SPARK EXTINGUISHING SYSTEM CONNECTION. REFER TO M7.01.
- 5 SAWDUST SPARK DETECTOR, LOCATE MIN 25' FROM EXTINGUISHING SYSTEM.
- 6 RE-USE EXISTING WALL PENETRATION. SLEEVE AND SEAL WATERTIGHT.
- 7 INSTALL SAWDUST COLLECTOR PER MANUFACTURERS INSTALLATION REQUIREMENTS. REFER TO EQUIPMENT SCHEDULE NOTES FOR ADDITIONAL CLARIFICATION ON FIELD INSTALLED SHIPPED LOOSE EQUIPMENT.
- 8 COORDINATE INSTALLATION OF SILENCER SHIPPED LOOSE WITH DUST COLLECTOR EXTERIOR DUCTWORK.
- 9 SAWDUST COLLECTION SYSTEM CONTROL PANEL. COORDINATE LOCATION WITH ARCHITECT AND POWER CONNECTION WITH ELECTRICAL CONTRACTOR.
- 10 DUST COLLECTOR MAGNAHELIC GAUGE AND FILTER.
- 11 DUST COLLECTOR ABORT DAMPER.
- 12 CONNECT TO EXISTING RUNNOUT/DROP.
- 13 PROVIDE EXPLOSION ISOLATION, DUAL-FLAP ISOLATION VALVE.
- 14 PROVIDE SUPPORT STRUCTURES FOR NEW DUCTWORK. MAINTAIN CLEARANCE FOR UNIT AND WALKWAY.

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ABERDEEN SCHOOL DISTRICT 5

Project
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2025-007
ABERDEEN HIGH SCHOOL

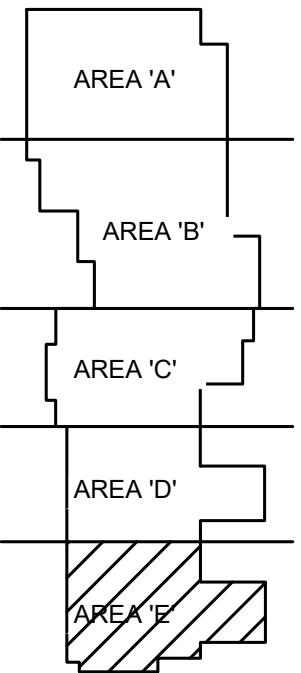
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Issue & Revision Dates
7 APRIL 2026
28 APRIL 2026

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1 ADD

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Keyplan



NOTE: DRAWING MAY BE REDUCED
0 2' 4' 8'

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HVAC PLANS
- WOOD SHOP - FOR REFERENCE ONLY

M2.01

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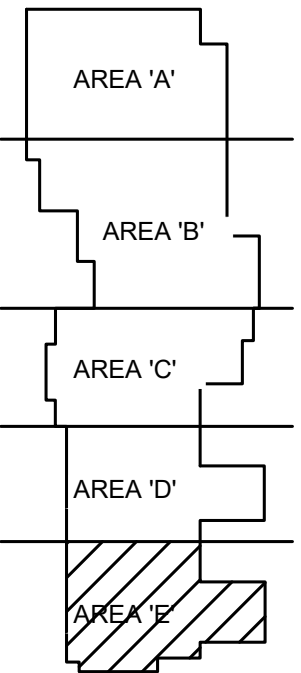
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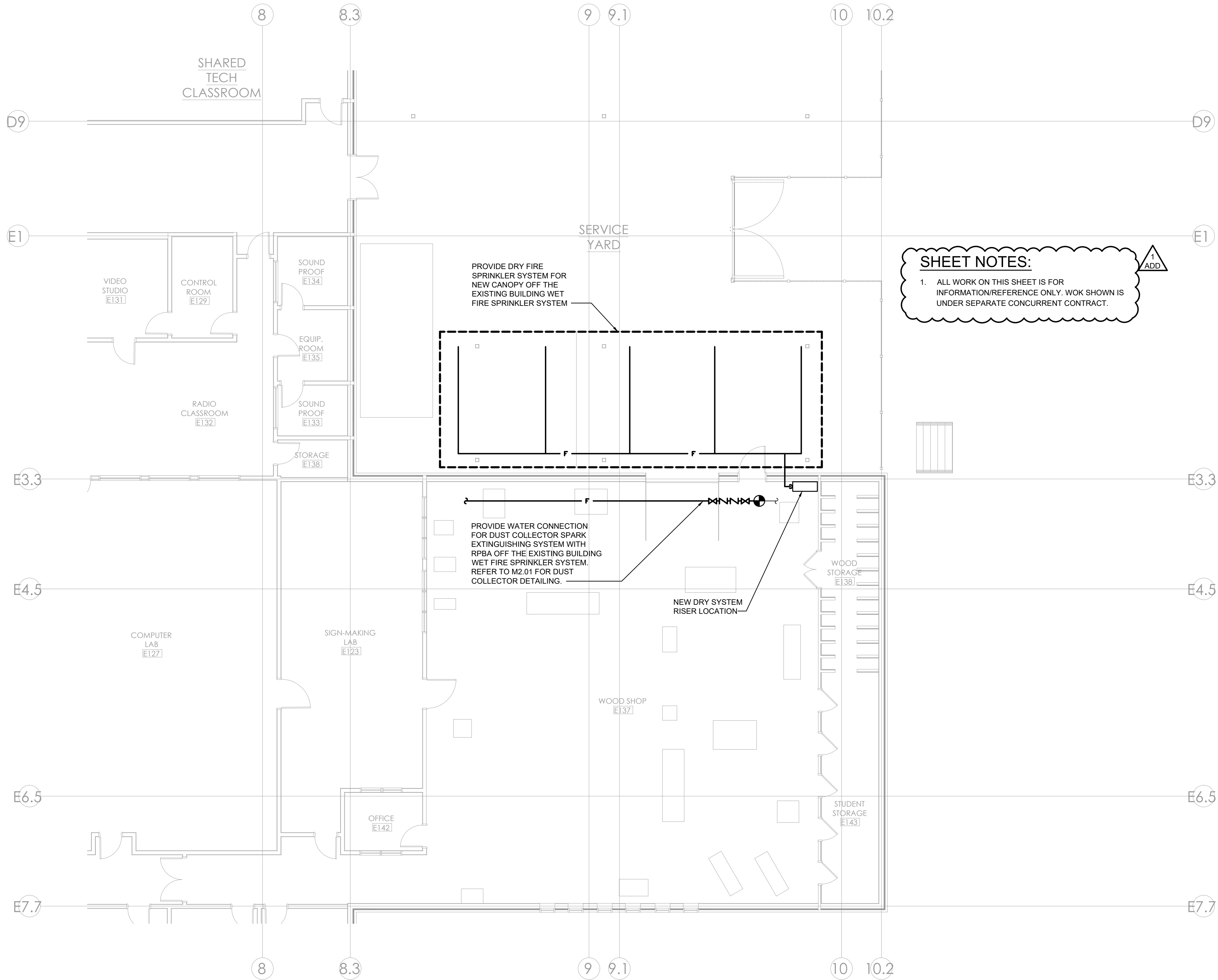
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**FIRE
SPRINKLER
PLAN - WOOD
SHOP - FOR
REFERENCE
ONLY**

M3.01

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1 FIRE SPRINKLER PLAN - WOOD SHOP - FOR REFERENCE

1/8" = 1'-0"

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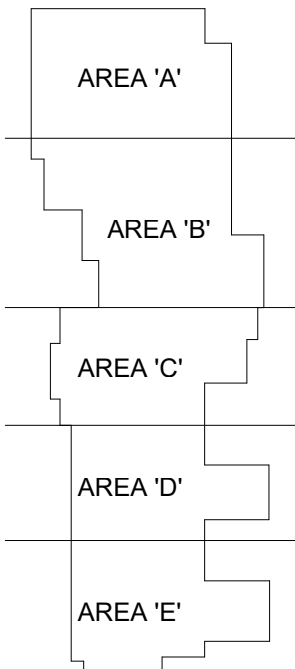
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PANEL

SCHEDULES

E0.04

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PANEL: 1EH1										EXISTING									
LOCATION: E106					MANUFACTURER: EATON					VOLTAGE: 480Y/277V					AIC RATING: 18K				
SUPPLY FROM: 1EH1					CAT. # PRL3A					PHASES: 3					MAINS TYPE: MAIN LUGS ONLY				
MOUNTING: SURFACE										WIRES: 4					MAINS RATING: 250A				
NEMA RATING: TYPE 1															NEUTRAL RATING: 100%				
															BUSSING: CU				
CCT	CIRCUIT DESCRIPTION				RATING	POLES	A (kVA)		B (kVA)		C (kVA)		POLES	RATING	CIRCUIT DESCRIPTION				CCT
1	LTS ART CR 146				20 A	1	1.50	1.50					1	20 A	LTS CORR/HALL STAIR				2
3	LTS 149,150,152BCDEF				20 A	1			1.50	1.50			1	20 A	LTS 152A, 152B				4
5	LTS ART CR 139				20 A	1					1.50	3.64	1	20 A	LTS WOOD SHOP				6
7	LTS 140,141,142A,143				20 A	1	1.50	1.50					1	20 A	LTS COMP LAB 148				8
9	LTS 144,145				20 A	1			1.50	0.00			1	20 A	LTS147, 147A,B,C,D,E,F				10
11	LTS 149,150,152BCDEF				20 A	1					1.50	0.00	1	20 A	SPARE				12
13	SPARE				20 A	1	0.00	0.00					1	20 A	SPARE				14
15	SPARE				20 A	1			0.00	0.00			1	20 A	SPARE				16
17	SPARE				20 A	1					0.00	0.00	1	20 A	SPARE				18
19	SPARE				20 A	1	0.00	0.00					1	20 A	SPARE				20
21	SPARE				20 A	1			0.00	0.00			1	20 A	SPARE				22
23	SPARE				20 A	1					0.00	0.00	1	20 A	SPARE				24
25	SPARE				20 A	1	0.00	0.00					1	20 A	SPARE				26
27	SPARE				20 A	1			0.00	0.00			1	20 A	SPARE				28
29	SPARE				20 A	1					0.00	0.00	1	20 A	SPARE				30
31	AIR COMPRESSOR AUTO SHOP				30 A	3	5.54	0.00					1	20 A	SPARE				32
33	-				-	-			5.54	0.00			1	20 A	SPARE				34
35	-				-	-					5.54	0.00	1	20 A	SPARE				36
37	DUST COLLECTOR SCE137				60 A	3	7.48	0.00					1	20 A	SPARE				38
39	-				-	-			7.48	0.00			1	20 A	SPARE				40
41	-				-	-					7.48	0.00	1	20 A	SPARE				42
TOTAL LOAD:							19.02 kVA		17.52 kVA		19.66 kVA								
TOTAL AMPS:							68.63 A		63.22 A		70.94 A								
LOAD CLASSIFICATION					CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS								
ELEVATOR					0.00 kVA		100%		0.00 kVA										
HEATING					0.00 kVA		100%		0.00 kVA										
COOLING					0.00 kVA		100%		0.00 kVA		TOTAL CONN. (kVA): 56.20 kVA								
REFRIGERATION					0.00 kVA		100%		0.00 kVA		TOTAL EST. DEMAND (kVA): 66.09 kVA								
WATER HEATING					0.00 kVA		100%		0.00 kVA		TOTAL CONN. (A): 67.59 A								
LIGHTING (125%)					17.14 kVA		125%		21.43 kVA		TOTAL EST. DEMAND (A): 79.50 A								
RECEPTACLES (<10kVA @ 100%)					0.00 kVA		100%		0.00 kVA										
RECEPTACLES (>10kVA @ 50%)					0.00 kVA		50%		0.00 kVA										
LARGEST MOTOR					22.44 kVA		125%		28.05 kVA										
OTHER MOTORS					16.62 kVA		100%		16.62 kVA										
KITCHEN EQUIPMENT					0.00 kVA		65%		0.00 kVA										
MISCELLANEOUS					0.00 kVA		100%		0.00 kVA										
EV CHARGING					0.00 kVA		100%		0.00 kVA										
NOTES:																			

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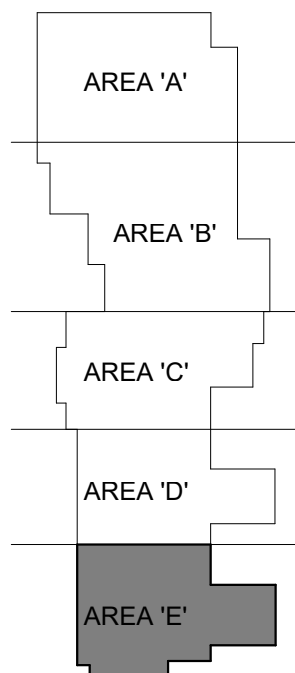
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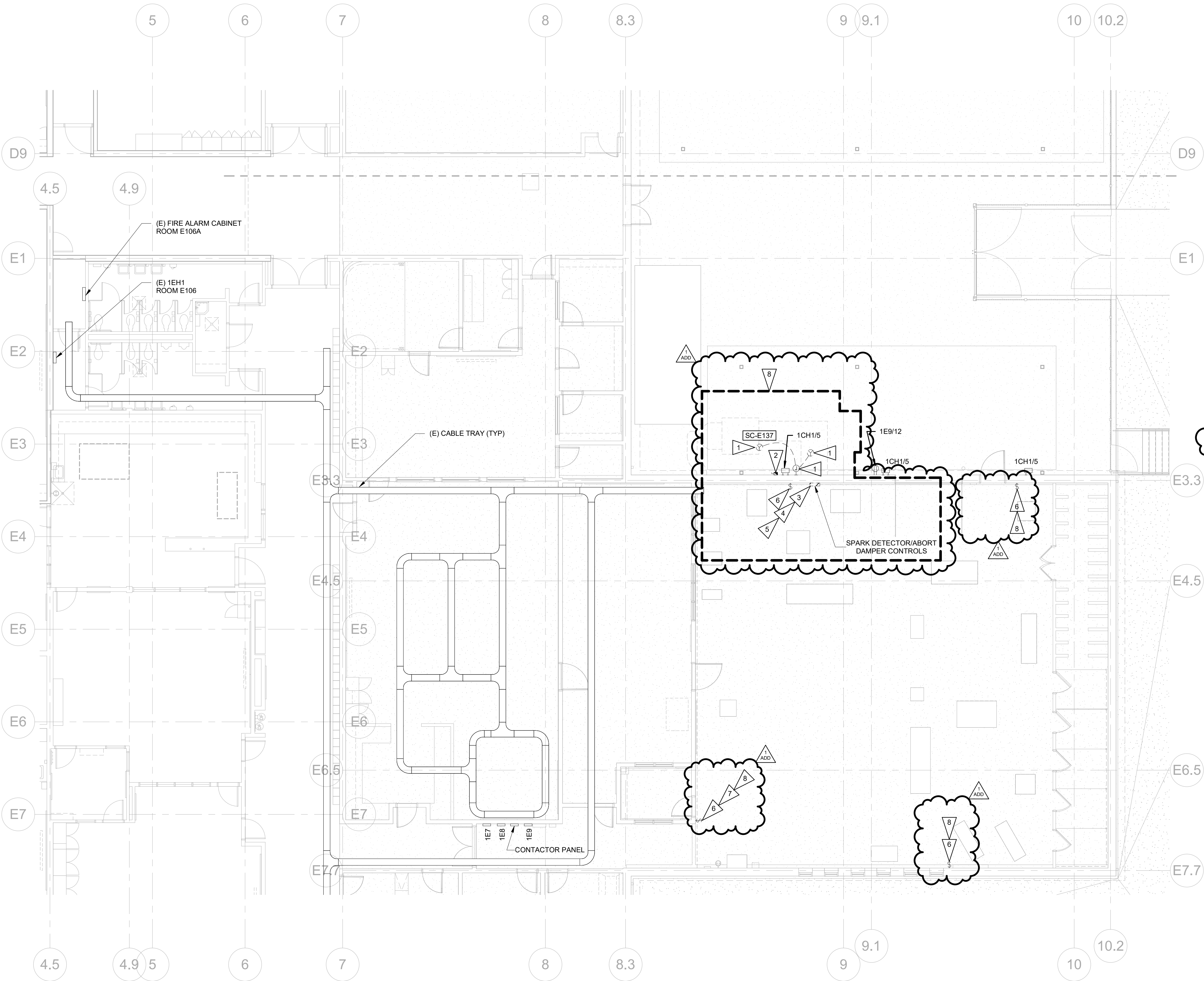
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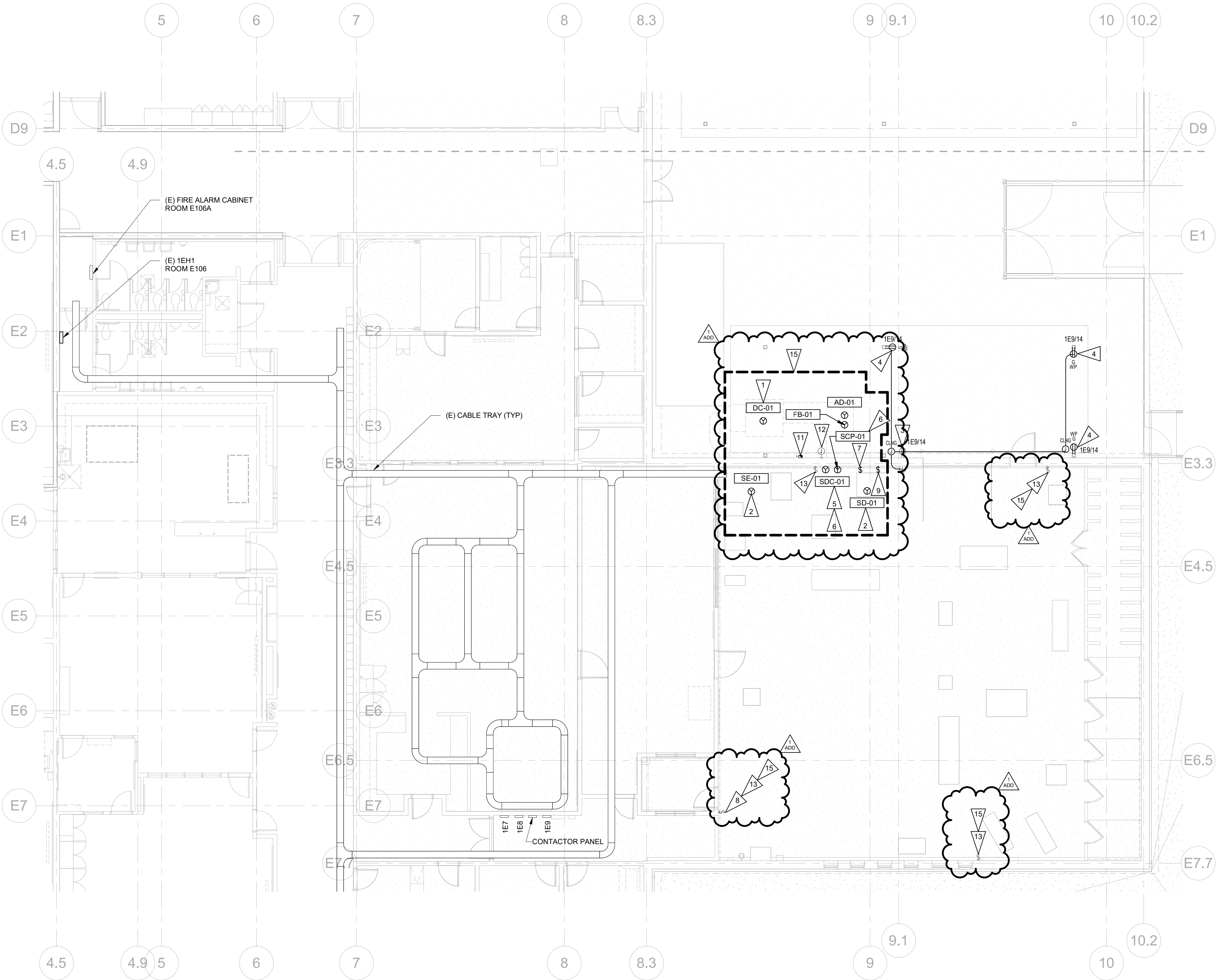
**DEMO POWER -
FIRST FLOOR
WOOD SHOP****ED3.11**Sheet Number Of
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reserved.**GENERAL NOTES:**

- SEE SHEET E0.02 FOR ADDITIONAL GENERAL NOTES.
- ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- DEMOLISH ELECTRICAL INDICATED. DEMOLISH ASSOCIATED CONDUCTORS BACK TO SOURCE PANEL OR NEAREST ACTIVE UPSTREAM CONNECTION. DEMOLISH ASSOCIATED CONDUIT BACK TO NEAREST ACCESSIBLE JUNCTION BOX OR ABOVE ACCESSIBLE CEILING UNLESS SPECIFICALLY INDICATED OTHERWISE.
- CONDUIT ABANDONED IN PLACE SHALL BE DISCONNECTED, CAPPED, AND MADE SAFE AND SHALL NOT CONTAIN ENERGIZED CONDUCTORS. ABANDONED CONDUIT SHALL NOT INTERFERE WITH NEW WORK OR OTHER BUILDING SYSTEMS.
- PROVIDE PATCHING, PAINTING AND RESTORATION FOR DEMOLISHED DEVICES IN EXISTING WALLS TO REMAIN PROVIDED BY OTHERS.

FLAG NOTES:

- DISCONNECT EXISTING DUST COLLECTOR AND CONDUCTORS. REMOVE CONDUCTORS BACK TO DUST COLLECTOR DISCONNECT. DEMOLISH CONDUIT BETWEEN DUST COLLECTOR AND EXTERIOR WALL JUNCTION BOX. JUNCTION BOX AND INTERIOR BUILDING CONDUIT TO PANEL 1EH1 TO REMAIN.
- DEMOLISH DUST COLLECTOR DISCONNECT AND CONDUCTORS. REMOVE CONDUCTORS BACK TO PANEL 1EH1. INTERIOR BUILDING CONDUIT TO REMAIN.
- SPARK DETECTOR TO BE DEMOLISHED. COORDINATE WITH MECHANICAL CONTRACTOR. DISCONNECT SPARK DETECTOR PRIOR TO DEMOLITION. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ABORT DAMPER CONTROLS TO BE DEMOLISHED. COORDINATE WITH MECHANICAL CONTRACTOR. DISCONNECT ABORT DAMPER CONTROLS PRIOR TO DEMOLITION. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- DEMOLISH CABLING FROM SPARK DETECTOR/ABORT DAMPER CONTROLS TO SAW DUST COLLECTOR. DEMOLISH EXTERIOR CONDUIT. INTERIOR BUILDING CONDUIT TO REMAIN.
- EXISTING EMERGENCY POWER OFF SWITCH TO REMAIN.
- EXISTING RESET SWITCH TO REMAIN.
- FOR INFORMATION ONLY - WORK UNDER SEPARATE CONCURRENT GENERAL CONTRACT.





GENERAL NOTES:

- SEE SHEET E0.02 FOR ADDITIONAL GENERAL NOTES.
- REFER TO SCHEDULES ON SHEETS E0.03 FOR ADDITIONAL INFORMATION.
- DUST COLLECTOR WORK SHOWN FOR INFORMATION ONLY - WORK UNDER SEPARATE CONCURRENT GENERAL CONTRACT.
- WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED TO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES. WHERE IT IS NECESSARY TO MOUNT DISCONNECT SWITCH ABOVE AN INACCESSIBLE CEILING, PROVIDE REMOVABLE ACCESS PANEL. COORDINATE ACCESS PANEL TYPE, STYLE, COLOR, AND LOCATION WITH ARCHITECT.
- VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. COORDINATE LOCATION/INSTALLATION OF DISCONNECTS AND WIRING WITH RESPECTIVE CONTRACTORS.
- ALL ENCLOSED MOTOR CONTROLLERS SHALL BE FURNISHED WITH FULL-SIZED OVERLOADS, 120V CONTROL-VOLTAGE TRANSFORMERS WITH PRIMARY AND SECONDARY FUSING, ROTARY HOA SELECTOR SWITCH, COVER-MOUNTED ON/OFF PILOT LIGHTS, AND TWO SETS EACH OF NO AND NC AUXILIARY DRY CONTACTS.
- ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS "WEATHER RESISTANT". RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED IN ACCORDANCE WITH NEC 406.9.
- PROVIDE CONDUIT AND CONDUCTORS FOR POWER, CONTROLS, AND ALL APPURTENANCES OF SAWDUST COLLECTION SYSTEM. SEE E10.01 AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE SPECIFIC REQUIREMENTS WITH SUBMITTED MANUFACTURER INSTALLATION INSTRUCTIONS.
- INCLUDE COSTS ASSOCIATED WITH THE FOLLOWING: DISCONNECT EXISTING DUST SWITCHES FOR UP TO 15 SHOP MACHINES; DUST SWITCHES SHALL BE REPLACED IF NOT COMPATIBLE WITH NEW SYSTEM; PROVIDE CIRCUITING FOR NEW DUST SWITCH WITH SENSORS FOR UP TO 15 SHOP MACHINES; WIRED TO SPARK DETECTION AND EXTINGUISHING SYSTEM CONTROLLER.

FLAG NOTES:

- PROVIDE CIRCUITING AND DISCONNECT FOR NEW DUST COLLECTOR. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT. EXTEND CONDUIT TO NEW LOCATION.
- PROVIDE CIRCUITING FOR SPARK DETECTOR/SPARK EXTINGUISHER TO NEW SAW DUST COLLECTOR. PROVIDE NEW CONDUCTORS IN EXISTING CONDUIT. EXTEND CONDUIT TO NEW LOCATION.
- INTERCEPT EXISTING EXTERIOR RECEPTACLE CIRCUIT AT INTERIOR. ROUTE CONDUIT AND CONDUCTORS INSIDE BUILDING UP TO BOTTOM OF CANOPY. PENETRATE AND CORE DRILL EXTERIOR BRICK WALL, SIZED FOR 3/4" C.
- PROVIDE WEATHERPROOF, GFCI RECEPTACLE AT COLUMN. ROUTE CONDUIT UP COLUMN TO BOTTOM OF CANOPY.
- SPARK DETECTION SYSTEM CONTROLLER. RECONNECT EXISTING POWER CIRCUITING. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED.
- PROVIDE CONTROL RELAYS AND MONITOR MODULES REQUIRED TO INTEGRATE SAWDUST SPARK DETECTION SYSTEM AND DUST SWITCH INTO THE EXISTING BUILDING FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH SAWDUST COLLECTION SYSTEM MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALARM CABLING ROUTED BACK TO ROOM E106A. PROVIDE CONDUIT FOR FIRE ALARM CABLING IN WOOD SHOP AND TRANSITION TO OPEN CABLING UTILIZING EXISTING PATHWAYS/CABLE TRAY TO INTEGRATE SYSTEM INTO BUILDING FIRE ALARM SYSTEM. SEE DETAIL 1/E10.01 FOR ADDITIONAL INFORMATION.
- SAWDUST CONTROL PANEL.
- SAWDUST COLLECTOR HOA SWITCH. COORDINATE LOCATION WITH OWNER AND MECHANICAL PRIOR TO INSTALLATION.
- EXISTING MANUAL RESET BUTTON.
- ABORT DAMPER START/STOP BUTTON. PROVIDE CONDUIT AND CABLING TO ABORT DAMPER ACTUATOR (AD-01).
- SAWDUST COLLECTOR FILTER BANK.
- PROVIDE FUSED DISCONNECT AND CONDUCTORS FOR DUST COLLECTOR. ROUTE EXISTING BUILDING FIRE ALARM SYSTEM SWITCH INTO THE EXISTING BUILDING FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH SAWDUST COLLECTION SYSTEM MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALARM CABLING ROUTED BACK TO ROOM E106A. PROVIDE CONDUIT FOR FIRE ALARM CABLING IN WOOD SHOP AND TRANSITION TO OPEN CABLING UTILIZING EXISTING PATHWAYS/CABLE TRAY TO INTEGRATE SYSTEM INTO BUILDING FIRE ALARM SYSTEM. SEE DETAIL 1/E10.01 FOR ADDITIONAL INFORMATION.
- ROUTE NEW CABLING THROUGH EXISTING JUNCTION BOX FOR ABORT DAMPER ACTUATOR POWER AND START/STOP BUTTON CONTROLS. PROVIDE NEW CONDUIT FROM JUNCTION BOX TO DUST COLLECTOR ABORT DAMPER.

- EXISTING EMERGENCY POWER SHUT OFF SWITCH.
- FOR INFORMATION ONLY - WORK UNDER SEPARATE CONCURRENT GENERAL CONTRACT.

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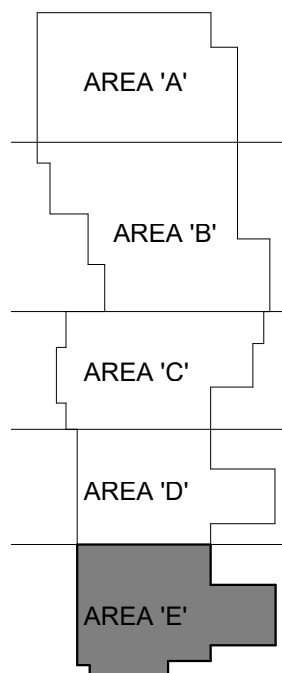
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**POWER - FIRST
FLOOR WOOD
SHOP**

E3.11

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1 POWER PLAN - FIRST FLOOR WOOD SHOP

1/8" = 1'-0"

