

Addendum #2



Project: Pamlico County School 6-12,
601 Main Street
Bayboro, NC 28515
Pamlico County, NC

Owner: Pamlico County Schools
507 Anderson Dr.
Bayboro, NC 28515

Architect: SFL+a Architects
333 Fayetteville Street, Suite 225,
Raleigh, NC 27601

CM at Risk: Metcon, Inc.
763 Comtech Drive
Pembroke, NC 28372

Date: July 17, 2024.

Notice to all: The following modifications, additions, deletions, clarifications, and/or information are hereby made part of the Contract Documents and shall be fully binding. The addendum must be acknowledged as part of the Bid Form.

Item #1: Bid Manual:

- A. Attention to all bidders the revised bid schedule is as follows:
 - a. **New Last Day for RFIs:** **07/19/2024**
 - i. No RFIs will be accepted after the date above.
 - b. **New Last Day for Addendum:** **07/25/2024**
 - c. **New Bid Date:** **08/01/2024**
 - i. Opening time and location have not been changed.
- B. Bid Manual Page 6 – Bid Bond (1 Page)
- C. Bid Checklist - (1 Page)
- D. Exhibit J – Subcontractor Safety & Incident Prevention Program (65 Pages)
- E. Project Schedule – **Forthcoming**
- F. Site Logistics Plan – **Forthcoming**
- G. **BP0240 – Demo & Abatement and BP3100 - Turnkey Sitework Combined into BP0240 Demolition/Turnkey Site.**

We have combined demolition and sitework together into one bid package. The reason for this is due to the schedule constraints during the summer of 2026 when the existing building must be demolished and sitework must be completed. Combining the packages provides for opportunities in material hauling, equipment usage and tighter coordination. The CM and Owner will

accommodate a 7-day work week with multiple shifts if needed to complete the demo and sitework within the limited 6/1/26-8/26/26 duration. Asbestos abatement is scheduled for summer 2025 and soft demo will be permissible during Spring Break 2026, tentatively April 5 through April 11th, 2026. Base bid assumes 100% import of structural and nonstructural fill, removal and disposal of unsuitable soils off site and all demo debris removed for site. There will be limited time and space if any to sort debris on site. The following alternates are being provided to provide bidders options for landfill and imported structural fill. Pamlico County Schools have access to private land and borrow pit they would like bidders to consider. The landfill is ready to receive material and the borrow pit is being permitted with approval anticipated late 4th quarter 2024. If State certification of the landfill is not received by 10/1/24, an option to designate the offsite borrow pit as an exclusive borrow pit for the project is being pursued. The proposed use of the local landfill and borrow pit together provides for the ability to haul demo material to the landfill and return with a load of imported structure fill. In the event that the borrow pit is not available for use on the project, we have broken the proposed plan into two independent Alternates which will be forthcoming.

- H. Pamlico 6-12 Existing School Roof Structure Material Breakdown (1 Page)
- I. Corey Harrison Construction Dump & Mine Information (1 Page)
- J. Please see the attached revised scopes of work for the following bid packages:
 - a. BP0150 - General Trade (10 Pages)
 - b. BP0170 - Final Cleaning (9 Pages)
 - c. **BP0240 – Demolition/Turnkey Site (14 Pages)**
 - d. BP0330 - Turnkey Concrete (16 Pages)
 - e. BP0340 - Hollow Core Planks (7 Pages)
 - f. BP0400 - Turnkey Masonry (14 Pages)
 - g. BP0510 - Structural Steel (12 Pages)
 - h. BP0550 - Ornamental Metals (8 Pages)
 - i. BP0710 - Dampproofing, Waterproofing, & Joint Protection (9 Pages)
 - j. BP0724 – EIFS (8 Pages)
 - k. BP0740 - Wall Panels (9 Pages)
 - l. BP0750 - Turnkey Roofing (10 Pages)
 - m. BP0810 - Doors, Frames & Hardware (12 Pages)
 - n. BP0833 - Overhead Doors (Coiling Doors & Grilles & Garage Doors) (8 Pages)
 - o. BP0840 – Glass and Glazing - Entrance - Storefront – Curtainwall (10 Pages)
 - p. BP0920 - Metal Framing, Rough Carpentry and Gypsum Board (10 Pages)
 - q. BP0930 - Hard Tile (10 Pages)
 - r. BP0950 - Acoustical Ceilings & Panels (9 Pages)
 - s. BP0960 - Resilient Flooring & Carpet (10 Pages)
 - t. BP0962 - Athletic Flooring (9 Pages)
 - u. BP0967 - Epoxy Flooring (9 Pages)
 - v. BP0990 - Painting & Coatings (11 Pages)
 - w. BP1014 – Signage (8 Pages)
 - x. BP1020 - Interior Specialties (9 Pages)
 - y. BP1050 - Storage Specialty (8 Pages)
 - z. BP1073 - Awnings & Canopies (9 Pages)
 - aa. BP1140 - Food Service Equipment (10 Pages)

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- bb. BP1166 - Athletic Equipment (9 Pages)
- cc. BP1220 - Window Treatments (8 Pages)
- dd. BP1230 - Casework (11 Pages)
- ee. BP1266 - Telescoping Bleachers (8 Pages)
- ff. BP1420 – Elevators (11 Pages)
- gg. BP2100 - Fire Suppression (13 Pages)
- hh. BP2200 – Plumbing (13 Pages)
- ii. BP2300 - HVAC (Heating, Ventilating, And Air Conditioning) (12 Pages)
- jj. BP2351 - Geothermal System (9 Pages)
- kk. BP2600 – Electrical, Communication, Fire & Smoke Protection (11 Pages)
- ll. BP3164 - Deep Foundations (8 Pages)
- mm. BP3231 - Fence & Gates (8 Pages)
- nn. BP3290 - Landscaping (8 Pages)
- oo. BP4814 - Photovoltaic Panels (9 Pages)

Item #3: Architect Documents:

- A. Please see the attached design Addendum 2, which includes Addendum Cover Sheet, revised specifications and revised drawings. (100 pages)

Item #4: RFI Log (9 Pages)

END OF ADDENDUM #2

they intend to bid. However, all Bidders are responsible for reviewing all Contract Documents which are available electronically, at the locations noted above, or for purchase. Bids shall be based upon and reference complete Contract Documents. Bids referencing partial documents or with clarifications shall be considered non-responsive.

All bidders are responsible for visiting and reviewing the Project Site and fully reflecting all conditions thereon. The site may be accessed;

Proposals will be received through the formal bid process on this project. See Section List of Bid Packages and Bid Opening Schedule.

Formal Bid Process

Sealed proposals will be received on **7/25/2024 no later than 2:00 PM at 601 Main St., Bayboro, NC 28515**. All subcontractors are required to drop off their bid package at the bid opening location before 2:00PM **OR** Mailed-in bids must be received July 24, 2024 by 5:00 PM the day prior to bid to the Raleigh office only. Raleigh office mailing address: 3050 Hammond Business Place, Suite 121, Raleigh, NC 27603.

Bidders are strongly encouraged to solicit and secure bids from MWSB (Minority, Woman, and Small Businesses Enterprises). All bid forms must be submitted in the sealed envelope labeled for each bid package. Combined bids should be submitted in a separate sealed envelope.

Due to the current pandemic, Metcon will be following new guidelines for construction meetings and live broadcast bid opening via ZOOM. Please see Instructions to Bidders for ZOOM Meeting link and Dial in number as well as meeting ID.

Bid Bonds

Please refer to section CMR 00 43 13 Bid Bond Form. Bid bonds for bids **\$100,000.00 (Revised per addendum 2 - 7/17/24)** or greater will be required for all bids either in the form of a 10% bid bond or cashier's check in the amount of 10% of the bid. **See and use the Bid Bond Form provided in the bid manual or the AIA 310 Bid Bond Form is acceptable. All bond providers must be licensed to provide services in North Carolina**

Performance and Payments Bonds

Performance and Payment bond may be required above \$100,000 and will be required above \$300,000.00. Please refer to **Exhibit K** bid form section, listing your performance & payment bond amount. This amount should be included in your base bid unless otherwise specified on the Bid Form. **See and use Performance & Payment Bond Forms provided in the bid manual. All bond providers must be licensed to provide services in North Carolina. In lieu of traditional surety performance and payment bonds, the construction manager may elect to enroll qualified subcontractors into its Subcontractor Default Insurance program, provided the program is online at the time the GMP is established.**

Liquidated Damages

If any of the work is not complete within the time specified in the Contract Documents, it shall be understood and agreed that the subcontractor shall be responsible for liquidated damages per contract documents. **\$1,000.000 per day for each calendar day after Substantial Completion. \$500.00 per day for each calendar day after Final Completion.**

*****The Construction Manager and Owner reserve the right to reject any or all bids and to waive any irregularities in bidding. *****

Bid Checklist

Print Outside Sealed Envelope

- Company Name
- Project Name
- Bid Package Name and Number (i.e., BP08100 Doors and Hardware)
- Bid Enclosed

Inside Sealed Envelope

- Bid Proposal Form **(if excluded your bid will be considered nonresponsive)**
- Bid Bond or Cashier’s Check if > than \$100,000.00 **(if excluded your bid will be considered nonresponsive)**
- Sign and Notarize Proposal Form **(if proposal is not signed your bid will be considered nonresponsive)**
- Acknowledge all Addendums **(if addendums are not acknowledged your bid will be considered nonresponsive)**
- No Qualification, Clarifications or Exclusion should be written on Bid Form
- Affidavit A or B **(One of the two listed affidavits MUST be included in order for your bid to be considered responsive)**
- Minority, Women, and Small Business Enterprise Identification Form **(if excluded your bid will be considered nonresponsive)**

Viewed Contract Documents

- Drawings, Project Specifications, CMR Bid Manual (Scope of Work), Addendums and Clarifications

All subcontractors are required to drop off their bid package at the bid opening location before 2:00PM OR Mailed-in bids must be received July 31, 2024 (Revised per addendum 2 - 7/17/24) by 5:00 PM the day prior to bid to the Raleigh office only. Raleigh office mailing address: 3050 Hammond Business Place, Suite 121, Raleigh, NC 27603.

Please use checklist to ensure your proposal has all the required documents enclosed inside envelope. PLEASE ATTACH CHECKLIST INSIDE 9-1/2 ENVELOPE (9" X 12") SEALED ENVELOPE.

PLEASE PROVIDE INFORMATION TO CONTACT AFTER BID

Company Name: _____

Contact Name: _____

Contact Number: _____

Contact Email: _____

SUBCONTRACTOR SAFETY & INCIDENT PREVENTION PROGRAM



“GOAL ONE SAFETY”

PROJECT: _____

LOCATION: _____

OSHA BUILDING STAR CONTRACTOR



BUILDING STAR

EXHIBIT J - 2024

SAFETY@METCONUS.COM

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HEALTH AND SAFETY POLICY

Metcon, Inc. is dedicated to providing safe and healthy workplace. As such, we have proclaimed this project an Incident and Injury Free Workplace.

This jobsite has been designated an OSHA Building Star Site shall be maintained as always with the highest regards to a safe worksite, mentoring others, providing monthly informal safety training and we are commitment to ensuring a safe worksite for all workers who enter any of Metcon's jobsites.

Safety and Health will always remain the top priority for all levels of management, supervision, and workers engaged in construction activities. Health and safety will never be sacrificed in lieu of schedule, cost, production, or any other component of the work process.

To comply with this philosophy and to achieve an Incident and Injury Free Environment, the project team will:

- Thoroughly plan all work activities and operations so they are performed safely, as well as efficiently.
- Effectively communicate the health and safety requirements of Metcon, Inc to each worker at all levels of the project through open communications, comprehensive training, assessments, and workplace inspections.
- Develop an understanding, among those in leadership on this project, of their responsibilities and accountability for providing a safe and healthful workplace.
- Coordinate work operations and activities to minimize or eliminate situations which may jeopardize workers' health and safety due to conflicting or simultaneous work operations or activities.
- Communicate to all workers that safety is their responsibility and they will be held responsible, accountable, and assigned the appropriate authority for their individual safety and the safety of their co-workers.

PROJECT SAFETY & INCIDENT PREVENTION PROGRAM

This Project Safety and Health Incident Prevention Program was prepared to assist project management, supervision, subcontractors, and workers in understanding the incident/injury free philosophy and the health and safety expectations and requirements of Metcon, Inc. working on this project. ***Compliance with this Project Safety and Health Incident Prevention Program is expected and a condition of working on this project.***

Project managers and superintendents have overall responsibility for the implementation and execution of this Project Safety and Incident Prevention Program.

SUBCONTRACTOR HEALTH & SAFETY PROGRAM COMMITMENT AGREEMENT

Prior to the award of a contract, each subcontractor working on this project will complete the Health and Safety Program Commitment Agreement. This agreement must be signed and dated (after reviewing the health and safety requirements contained in this Project Safety and Incident Prevention Program) by the senior representative of the subcontractor company who has the authority to commit the subcontractor company to comply with the Project Safety and Incident Prevention Program. The Subcontractor Health and Safety Program Commitment Agreement can be found on the following page of this manual.

SUBCONTRACTOR SAFETY PERFORMANCE

Metcon, Inc. expects each subcontractor to execute his or her work on this project with a visible, proactive, and extraordinary vision and commitment to safety at all levels. Each subcontractor should plan their work with focus on protecting their workers from incidents and injuries.

Metcon, Inc. Project Team Members will continually monitor and assess each subcontractor for compliance with this Project Safety and Health Incident Prevention Program and appropriate regulatory requirements. Metcon, Inc will further evaluate subcontractors on safety leadership, ability to become a safety partner and adopt the incident/injury free philosophy.

Immediate corrective action will be taken to eliminate any discrepancy, hazard, at-risk behavior, or violation observed.

DESIGNATED SUBCONTRACTOR COMPETENT PERSON / SAFETY REPRESENTATIVE

Each subcontractor shall designate a competent person per the OSHA Competent Person standards as his or her project safety representative for his or her company prior to mobilization. To safely and effectively communicate with the Metcon Project Team and others, he/she shall be fluent in the English-speaking, writing and reading. This person(s) must have completed an OSHA 30-Hour course within the last four years. A copy of the course completion shall be submitted to Metcon, Inc. Safety Director. This person will have the authority and responsibility to ensure the proper implementation of this Project Safety and Incident Prevention Program. This person shall have the authority to stop work if needed. If at any time, Metcon Safety Director has concern of their ability to implement and correct any unsafe act shall be asked to be replaced. Continued unsafe acts, Metcon Safety Director may request a full-time onsite Safety Representative.

Subcontractors Safety competent person will be expected to have adequate knowledge of the OSHA Construction, General Industry, NFPA, ANSI and NEC standards. Metcon, Inc.'s Safety Director will determine if the proposed safety representative has the experience and training required for this project.

The designated safety representative will as a minimum:

- Ensure the assigned Project Manager, Superintendent/foreman/tier contractor have reviewed the contents of the Project Safety and Incident Prevention Program.
- Conduct regular informal safety training meetings with workers to instruct them on project safety practices and requirements.
- Conduct daily safety reviews of their work activities to ensure compliance with safe work practices, this Project Safety and Incident Prevention Program, and OSHA safety regulations.
- Conduct weekly site safety audits of their work areas and storage areas and provide a copy of their weekly report to Metcon's Project Superintendent.

Subcontractor and Tier Subcontractor must attend Metcon's Safe Start Meeting with project Foreman, and Competent Person.

Metcon, Inc.

**SUBCONTRACTOR HEALTH & SAFETY PROGRAM
COMMITMENT AGREEMENT**

I, _____ representing _____
(Senior Subcontractor representative) (Name of company)

have reviewed this Project Safety and Health Incident Prevention Program and fully understand its contents. I have reviewed the safety requirements with the assigned Project Team and understand our responsibilities and will hold each worker assigned to work on this project accountable for complying with the health and safety rules and requirements, regulations, and procedures contained in the Project Safety and Incident Prevention Program. I further will allocate the necessary qualified personnel, equipment, and supplies required to comply with this Project Safety and Incident Prevention Program.

I fully understand that if my company or a worker fails to comply with any part of the Project Safety and Incident Prevention Program, owner safe work rules, or regulatory requirements, that part or all of the work being performed by my company may be suspended until such time that a corrective action plan has been developed, accepted by Metcon Inc, and implemented.

_____ is being submitted by my company as the
Designated Competent Person / Safety Representative for this project.

Date:

Signature: _____

Title: _____

THIS DOCUMENT MUST BE SUBMITTED TO METCON'S SAFETY DIRECTOR BEFORE MOBILIZING ONSITE.

SAFETY REGULATIONS

Metcon, Inc and our subcontractors shall incorporate, as a minimum, the OSHA 29 CFR 1926 Construction Safety Standards, OSHA 29 CFR 1910 General Industry Standards (as applicable), ANSI, NEC, specific state safety regulations, specific owner requirements, DOT, CDC and this Project Safety and Health Incident Prevention Program when determining the safe work practices and protection of its workers. **If any of these standards, requirements, or procedures conflict, the more stringent requirement shall prevail.**

SUBCONTRACTOR SAFETY SUBMITTALS

Prior to mobilizing onsite, Subcontractors shall submit for review/approval to Metcon's Safety Director the following **mandatory** safety documents (NO EXCEPTIONS):

- **Executed Subcontractor** Health & Safety Commitment Agreement
- **Subcontractor's Site-Specific Safety & Health Plan must be submitted including but not limited to their Job Hazard Analysis (JHA)** detailing your scope of work, the hazards associated with each task and how the hazards will be abated.
- **Trades:** work scopes that include Steel Erection, Pre-Cast, and Roofing, etc. shall provide a written site-specific Fall Protection Plan for review and approval.
- **Name(s) of designated Competent Persons;** must have completed a OSHA 30-hour course within the last four-years. Must have the necessary credentials as required by the scope of work such as required designated Safety Representative, Trenching, Scaffolding, and Rigging. Etc.
- **Names of Trained and qualified equipment** operators as required by the scope of the work for Cranes, Forklifts, Aerial Lifts, etc.
- **Training verification** for competent persons, equipment operators, first-aid providers, etc.
- Annual crane inspections of any crane brought onto the site (if applicable).
- **Provide your OSHA 300 and 300A** logs for the last three years from the date of subcontract and shall be submitted yearly by February 01. thereafter.
- **Written Hazard Communication Program & Safety Data Sheets (SDS)** (must have a tabbed - table of contents) for all chemicals and materials used or stored on the site. **(must be in a 3-ring binder)**
- **Written Safety Plan per the revised Silica Dust Respiratory Plan (if applicable)**
- **Written Ground Fault Protection Program**
- **Provide** Written Verification of OSHA or project required training as necessary. Training verification shall include training rosters. Examples of required training may include:
 - Fall Protection
 - Scaffolding
 - Trenching & Excavation
 - Crane / Rigging
 - Hazard Communication
 - Ladders
 - Confined Spaces
 - Asbestos
 - Demolition

The above requested safety information *Shall* be submitted for review and approval to Metcon's Safety Director prior to attending Subcontractor Safe Start meeting or mobilizing onsite.

TIER CONTRACTOR NOTIFICATION

- ***Subcontractor shall:***
 - ***Notify Metcon Team Members and submit Tier notification on Company Letterhead to*** Metcon's Safety Director if using a tier contractor. Notification to include, company name, address, phone number, designated competent person and their phone number.
 - Verify proof of insurance per Metcon's subcontractor insurance requirements and workman compensation for all tiered contractors.
 - Have their Competent Person on-site while tier subcontractor is on-site.
- The tier subcontractor must also have a Competent Person that has completed the OSHA 30-hour course within the last four years.
- No tier contractor is permitted to work onsite or attend the site safety orientation until required safety documents are approved by Metcon's Safety Director.
- Subcontractor's tier contractor shall submit a Job Hazard Analysis (JHA) for their scope of work, employee safety training for review/approval to contracted subcontractor for review by Metcon's Safety Director.

1099 Contractors –

Not Permitted to work onsite

- No exceptions

Temporary Agencies

Use of temporary agency or personnel are prohibited without the approval of Metcon's Safety Director. OSHA 300 log and reporting shall be maintained by the subcontractor or temporary agency. Subcontractor who needs to use 1099 workers shall submit proof of training and Insurance.

Daily/Weekly Safety Forms

The below on-going documents will be required to be completed by each subcontractor onsite competent person, superintendents and or foreman's daily/weekly or monthly as indicated below:

- Pre-Task Safety Plan - PTP (Daily) – see Metcon's Project superintendent for forms
- Subcontractor Weekly site safety inspection (weekly)
- Daily Scaffold, ladder, excavation/trenching, scissor lift, JLG, Trench, Crane, Rigging, GFCI Inspection, Forklift Inspections, Hot work permit, (Daily as required by the work)

SUBCONTRACTOR EMPLOYEE "SAFETY IMPACT" INCENTIVE PROGRAM

Members of the site safety committee which consist of a hourly employee from each subcontractor, during the course of each month members of the committee along with supervisors from all trades are actively observing the safety performance of all personnel onsite, nominations to the safety committee or by a member of the committee will be made monthly for an individual (s) that they have observed that has made an impact on safety. The committee members will review and if the core requirements have been met.

then the reception will receive a "Safety Impact" winner Certificate and a "I'm a "Safety Impact" winner tee- shirt. Awards will be presented at the weekly job wide safety meeting.

SAFETY IMPACT WINNER

I I MADE A DIFFERENCE
M I KEPT MY MIND ON THE WORK TASK
P I WORE THE PROPER PPE BY BEING AWARE OF THE HAZARDS
A I WAS AWARE OF THE HAZARD BY ATTENDING THE DAILY PRE-TASK SAFETY MEETING (PTP)
C I CHOSE THE RIGHT TOOL TO DO THE TASK SAFELY
T I TOOK THE TIME TO WORK SAFELY

VIOLATION OF SAFETY AND HEALTH REQUIREMENTS

Violation of statutory health and safety regulations or the project rules contained in the Project Safety and Health Incident Prevention Program will not be tolerated. All violations identified are expected to be abated immediately. When a violation cannot be immediately corrected, a written explanation is required and must be submitted to the Metcon's Safety Director. Failure to correct violations may result in suspension of part or all work. Metcon, Inc. will issue if warranted to a Written Subcontractor Safety Violation Notice for all unsafe acts.

Serious/Major violations will result in all involved parties Accident Root Cause Investigation meeting. At this meeting, the project management, supervision, or subcontractors will discuss the violation, root causes, and corrective action plans.

DISCIPLINARY PROGRAM

At-risk behavior on this project could contribute to an incident or injury and will not be tolerated. Each worker has an individual responsibility to work safely and minimize at-risk behavior.

Metcon, Inc. has established a progressive disciplinary program for those acts or practices not considered Immediately Dangerous to Life or Health.

Committing an unsafe act and/or practice not an Immediate Danger to Life or Health will result in the following:

- First occurrence: Depending on the severity, Verbal warning, written warning, and/or re-training.
- Second occurrence: Written warning, re-training, suspension, or termination from the project.

- Third occurrence: termination from the project. Metcon, Inc. will also fine any subcontractor whose employees commit repeated unsafe acts that are considered “Other-than-Serious” in accordance with the Safety Violation Fine Table below.

Other-than-Serious safety violations may consist of, but are not limited to:

- Failure to wear hard hat.
- Failure to wear safety glasses/eye protection.
- Failure to use hearing protection.
- Failure to wear appropriate work boots and clothing.
- Chemical containers not labeled.
- SDS Missing.
- Failure to attend orientation training.
- Failure to submit Accident Report.

Committing unsafe acts and/or practices that are considered Immediately Dangerous to Life or Health (IDLH) may result in immediate termination from the project. Metcon, Inc. also reserves the right to issue fines to any subcontractor whose employees commit unsafe acts that are considered Immediately Dangerous to Life or Health in accordance with the Safety Violation Fine table below.

IDLH safety violations may include, but are not limited to

- Failure to follow fall protection requirements.
- Failure to wear required respiratory protection.
- Failure to follow the Substance Abuse Policy.
- Failure to wear a protective PPE and vest.
- Possession of firearms, explosives or dangerous weapons.
- Violation of project security rules or procedures.
- Fighting, horseplay, practical joking or gambling.
- Entering a confined space without following procedures.
- Unsafe and/or reckless operation of motorized vehicles or equipment.
- Failure to follow lock-out/tag-out procedures.
- Failure to follow hot work permit procedures.
- Failure to follow requirements for insurance
- Failure to follow requirements for orientations
- Unsafe Excavation/Trench, including inspection
- No Competent Person onsite
- Fall Hazard

SAFETY VIOLATION FINES

Safety Violation	First Fine	Second Fine	Additional Fines
Accident Report Not Submitted in 24 hrs.	\$250	\$500	Project Mgr. Discretion
Alcohol or Drug Abuse	\$1,000/Removal	\$2,000/Removal	Project Mgr. Discretion
Competent Person Not on Site	\$1,000	\$2,000	Project Mgr. Discretion
Confined Space Entry Violation	\$1,000	\$2,000	Project Mgr. Discretion
Crane Violations	\$1,000	\$2,000	Project Mgr. Discretion
Daily Inspections/Documentation Incomplete	\$250	\$500	Project Mgr. Discretion
Electrical Cords Defective	\$250	\$500	Project Mgr. Discretion
Endangering Others	\$1,000/Removal	\$2,000/Removal	Project Mgr. Discretion

Equipment Operator Not Licensed	\$500	\$1,000	Project Mgr. Discretion
Equipment Violation	\$500	\$1,000	Project Mgr. Discretion
Eye Protection Violation	\$250	\$500	Project Mgr. Discretion
Failure to Protect Public	\$500	\$1,000	Project Mgr. Discretion
Fall Protection Not Used or Provided	\$1,000/Removal	\$2,000/Removal	Project Mgr. Discretion
Fighting or Horseplay	\$250	\$500	Project Mgr. Discretion
Fire Watch/ Fire Extinguisher Missing	\$500	\$1,000	Project Mgr. Discretion
Floor Hole Not Covered/Secured/ Labeled	\$500	\$1,000	Project Mgr. Discretion
Footwear Not Adequate	\$250	\$500	Project Mgr. Discretion
Gas Cylinders Stored Improperly	\$500	\$1,000	Project Mgr. Discretion
GFCI Not Used	\$500	\$1,000	Project Mgr. Discretion
Guardrail Removal	\$1,000	\$2,000	Project Mgr. Discretion
Hard Hat Not Worn	\$250	\$500	Project Mgr. Discretion
Haz-Com Program Not Submitted	\$250	\$500	Project Mgr. Discretion
Hearing Protection Not Used	\$250	\$500	Project Mgr. Discretion
Hot Work Performed Without Permit	\$500	\$1,000	Project Mgr. Discretion
Housekeeping Inadequate	\$500	\$1,000	Project Mgr. Discretion
Job Hazard Analysis Not Submitted	\$500	\$1,000	Project Mgr. Discretion
Ladders Defective or Used Improperly	\$500	\$1,000	Project Mgr. Discretion
Lock-Out/Tack-Out Not Used	\$1,000	\$2,000	Project Mgr. Discretion
Material Storage Improper	\$250	\$500	Project Mgr. Discretion
SDS Not Submitted for Materials	\$250	\$500	Project Mgr. Discretion
Orientation Not Attended	\$1000	\$1500	Project Mgr. Discretion
Personal Protective Equipment Inadequate	\$250	\$500	Project Mgr. Discretion
Power Tools Defective/Damaged	\$250	\$500	Project Mgr. Discretion
Respiratory Protection Inadequate	\$250	\$500	Project Mgr. Discretion
Scaffold Violations	\$1,000	\$2,000	Project Mgr. Discretion
Smoking/Tobacco Use	\$250	\$500	Project Mgr. Discretion
Task Hazard Analysis Not Performed	\$250	\$500	Project Mgr. Discretion
Tool Box Safety Meetings Not Held Weekly	\$250	\$500	Project Mgr. Discretion
Training Inadequate, Worker	\$1,000	\$1,500	Project Mgr. Discretion
Training Inadequate, Supervisor	\$1,500	\$2,000	Project Mgr. Discretion
Training Inadequate, Competent Person	\$2,000	\$5,000	Project Mgr. Discretion
Trench/Excav Cave-In Protection	\$5,000/removal	\$10,000/removal	Project Mgr. Discretion
Trench/Excav Violations, Misc.	\$5, 000/removal	\$5,000/removal	Project Mgr. Discretion
Tiered contractors on site w/o proper insurance Prime Contractor Fine	\$2,000.00	\$5,000.00	Project Mgr. Discretion
Lapse of insurance, Prime or tiered, Prime fine	\$2,000.00	\$3,000.00	Project Mgr. Discretion
Unauthorized Access to Restricted Areas	\$250	\$500	Project Mgr. Discretion
Urinating in Building	\$500	\$1,000	Project Mgr. Discretion
Improper Fuel Cans or not labeled	\$250	\$500	Project Mgr. Discretion
No Fire Ext. or not inspected	\$250	\$500	Project Mgr. Discretion
Conex hazcom placards not posted	\$250	\$500	Project Mgr. Discretion

TOBACCO & SMOKE FREE WORKPLACE

This project is a Tobacco and Smoke Free Workplace. The use of any form of tobacco or type products including Electronic vapor E-cigarettes are prohibited on this project. Violation of this rule will be subject to removal from the project or termination.

SUBSTANCE ABUSE POLICY

This project is committed to providing a safe, drug-free work place for all employees. This policy applies to all Metcon, Inc. projects. This policy applies to all subcontractors, vendor, and other third party employees, including management working or visiting the project.

Drug and alcohol abuse on and off the job can contribute both to incidents and to greater risk for all individuals employed on this Metcon, Inc project as well as the general public. Construction work is dangerous; therefore, all work tasks on this project will be considered safety sensitive. The use, sale, offer to sell, purchase, transfer, distribution, or possession of drug paraphernalia, any detectable amounts of alcohol or illegal drug, firearm, CBC items or other dangerous weapon by any employee on this project is prohibited. Each subcontractor shall promote a Drug Free Workplace with their employees and communicate during the daily Pre-Task Planning meeting what constitutes prohibited activities.

Every worker involved in an incident shall have a post incident drug/alcohol test performed within three (3) hours after the incident. Subcontractors will transport their workers involved in an incident to a collection facility selected in their Site-Specific Safety Plan. Workers that refuse to test, stall to be tested, are uncooperative with collectors, or attempt to alter a urine specimen will be considered positive and immediately removed from the project.

WORK-RELATED INJURIES, ILLNESSES AND INCIDENT INVESTIGATION

An incident is defined as any unplanned or undesired event that results in or has the potential to result in a work-related injury/illness, property damage, or disruption of business where the cause was from human errors or omission.

Every incident will be investigated to determine the probable root cause(s) and steps required preventing a similar occurrence from happening in the future.

First-line supervision will be responsible for conducting the investigation of the incident immediately. A safety representative may assist the first-line supervisor in the investigation but will not solely conduct the investigation. An Accident/Incident Report shall be completed and submitted to Metcon, Inc. Project Superintendent within twenty-four (24) hours of the occurrence.

In the event of a work-related injury or illness, the worker is to notify his or her supervision. All work-related injuries/illnesses and incidents must be reported to the Metcon, Inc. Project Superintendent immediately.

For accidents/Incidents. all parties involved will be required to attend a Post Incident meeting. At this meeting, all effective parties shall attend, and Metcon's Safety Director will meet and discuss the incident, root causes, and corrective action plans.

RESPONSIBILITIES AND ACCOUNTABILITY

Metcon, Inc. is committed to creating a work environment, absent of incidents and injuries. Incident and Injury Free is not a goal or a result but a mindset intolerant of any level, frequency, or severity of incident or injury.

A Responsibilities Matrix is included in this Project Safety and Health Incident Prevention Program that defines the minimum responsibilities for Metcon project team and our subcontractors project management, supervision, workers, and safety representatives.

Everyone associated with this project must understand his or her responsibilities with regards to health and safety on this project. With the responsibilities defined, project management, supervision, subcontractors, and workers will be held accountable for their health and safety performance.

SAFETY RESPONSIBILITIES MATRIX:

SUBJECT	PROJECT MANAGEMENT	FIRST-LINE SUPERVISION*	WORKER	SAFETY DIRECTOR	SAFETY REPRESENTATIVE
	WILL ENSURE THAT:	ENSURE THAT:	WILL:	WILL ENSURE THAT:	WILL:
Project Safety and Incident Prevention Program:	The IPP is understood, implemented, and strictly complied with. Subcontractors , vendors, or third party individuals working or having business at this project are in conformance to the IPP.	The IPP is fully understood, implemented in work planning, and communicated to workers.	Understand the contents of the IPP and follow the established rules and procedures.	An assessment program is instituted to evaluate IPP conformance.	Ensure the project is in conformance to the IPP.
Work Practices:	First-line supervision is communicating safe work practices to workers.	All work tasks are properly communicated to workers and complied with.	Follow all safe work practices as communicated to them by their supervisor.		Ensure project personnel are complying with safe work practices and federal, state, local, and company regulations and procedures.
Site-Specific Safety Procedures:	The site-specific safety procedures are implemented and enforced.	The site-specific safety procedures are understood and implemented.	Understand and follow the site-specific safety procedures.	All necessary procedures and processes are developed.	Ensure project conformance to site-specific safety procedures.
Medical Attention:	A member of management or supervision is currently certified in CPR and/or first aid.	A member of management or supervision is currently certified in CPR and/or first aid.	Know the worker(s) who are certified in CPR and/or first aid.		Ensure that a member of management or supervision holds a current CPR and/or first aid certification.

* First-line Supervision includes general superintendents, superintendents, field engineers, general foreman, and foremen.

SAFETY RESPONSIBILITIES (CONTINUED):

SUBJECT	PROJECT MANAGEMENT	FIRST-LINE SUPERVISION	WORKER	SAFETY DIRECTOR	SAFETY REPRESENTATIVE
	WILL ENSURE THAT:	ENSURE THAT:	WILL:	WILL ENSURE THAT:	WILL:
Training & Supervision:	<p>All project workers are properly trained in their work assignments and health and safety requirements.</p> <p>Project supervision and workers understand their roles and responsibilities regarding health and safety.</p>	<p>They've received a project-specific supervisor safety orientation prior to start of work.</p> <p>All workers under their direction are properly trained in hazard recognition and safe work practices.</p>	<p>Receive a site-specific safety orientation prior to start of work.</p> <p>Understand and follow the work practices and guidelines discussed during the training.</p>	<p>All necessary training programs are available to project personnel.</p>	<p>Ensure project management, first-line supervision, and workers have received proper health and safety orientation.</p> <p>Assist project supervision in training workers on hazard recognition and safe work practices.</p> <p>Monitor weekly "toolbox" safety meetings.</p>
Hazards:	<p>All first-line supervision have identified, evaluated, and controlled the work site hazards.</p>	<p>All hazards are identified, evaluated, and controlled.</p>	<p>Understand the hazards of the work and follow the safe work practices and controls developed for those hazards.</p>	<p>Assist project as required.</p>	<p>Assist in evaluating hazards and determining methods of eliminating or reducing the hazard.</p> <p>Institute a daily assessment program to identify, evaluate, and correct work site hazards.</p>
Incidents:	<p>All incidents are investigated properly and thoroughly.</p>	<p>They conduct a thorough and proper incident investigation and solutions developed to prevent similar occurrences.</p>	<p>Cooperate and participate in the incident investigation and contribute ideas and solutions.</p>		<p>Assist first-line supervision in investigating incidents.</p> <p>Maintain monthly incident statistics.</p>

SAFETY PLANNING

Job Hazard Analysis JHA (Completed by the Subcontractor prior to mobilization)

Prior to the mobilization onsite, every subcontractor will submit a written Job Hazard Analysis for their overall scope of contract work. The Job Hazard Analysis must identify and outline each work component or activity, list the potential safety and health hazards associated with each activity, and describe what safety controls, PPE, tools and equipment will be implemented and required to mitigate the recognized hazards and safely complete each activity.

An additional Job Hazard Analysis (JHA) will be required to be submitted for review and approval for all additional work not included in the original submitted JHA such as change order work, etc.

Site Specific Written Safety Plan

Prior to start of work, subcontractors will be required to submit a written site-specific safety plan for work activities that include, Steel Erection, Demolition, Roofing, Asbestos removal, Crane lift plan, and Precast. Safety plans shall include your fall protection plan if your work includes working at heights more than 6ft. Safety plans are to be submitted for review and approval by the Safety Director prior to mobilizing onsite.

Pre-Task Safety Planning (PTP) (Completed each morning by each Subcontractor's Superintendent or Foremen prior to the start of work each morning and turned in each morning to Metcon's onsite office by NO Later than 8:30am)

Foreman/ designated supervisor will analyze each task to be performed **FOR EACH SHIFT OF WORK** and identify the work sequences, hazards, and controls necessary to protect workers from the identified hazards.

A Pre-Task Safety Plan will be completed each morning (and each shift) for each crew performing work on this project. ***The PTP shall be turned into Metcon's Project Superintendent each morning by 8:30am before allowing to start work. Subcontractors who fail to provide his/her PTP will be asked to stop work and to complete the form and may be issued a safety violation .***

The work will be broken down into individual steps (i.e. all the steps the work crew will have to take in order to complete that task); the known hazards associated with the work; and the hazard controls (tools, safety equipment, safety procedures, safe work practices, etc.).

Once the Pre-Task Safety Plan (PTP) is completely filled out, the foreman is to review the plan with his/her respective work crew so that each worker is aware of what work activities will occur during the shift, what hazards to be aware of and how to properly control or eliminate those hazards. This is also a time for workers to provide input into the safety plan. Foremen should encourage crewmembers to participate in this planning process.

After a Pre-Task Safety Plan (PTP) has been reviewed with crewmembers, each worker is to sign the plan stating that they understand the work activities, hazards, and controls. This is also an acknowledgement that each worker agrees to work according to the plan.

If the initial task scope of work changes or a new hazard appears during the work, the subcontractor competent person will stop his/her crewmembers and revise the Pre-Task Safety Plan.

Pre-Task Safety Plans (PTP) are to be completed each morning before starting work by the subcontractor onsite competent person directing the work. Safety representatives can aid foremen in identifying hazards and controls. PTP's are required to be turned every morning by 8:00am into Metcon's onsite office. Subcontractors who arrive after 8:00am shall follow the same guidelines before starting work. PTP's will be audited daily by Metcon's onsite team.

Workers will attend the daily pre-task safety plan meeting where the competent supervisor will discuss work to be performed, hazards associated with the work, and controls required to protect them from the hazards and review any accidents/incidents that may have occurred and ask if any accident/incident may have occurred the prior day. Workers will sign the Pre-Task Safety Plan (PTP) daily stating the plan was communicated and that each worker understands what was presented.

SAFETY INSPECTIONS

Each subcontractor performing work on this project will be responsible for conducting daily safety inspections of their work area, tools and equipment. The following inspections will be required as they relate to the ongoing work activities:

Daily and Weekly Worksite Safety Inspection

Metcon, Inc. and each subcontractor will perform a general daily safety inspection of their work area and conduct a weekly safety inspection work area audit.

Daily Scaffold Inspection

Subcontractor using scaffolds will designate a competent person to inspect all scaffolds each day prior to use and after a weather event. The inspection tag shall be dated, signed and affixed to the ladder access daily.

Daily Trench & Excavation Inspection

Each subcontractor working in trenches or excavations will have a designated OSHA Excavation/Trenching competent persons to inspect excavation/trench each day prior to beginning work or after a weather event. The daily Trench/Excavation form shall remain in the work area while work is being performed. Completed inspection forms shall be turned in at the end of each day to Metcon's Project Superintendent.

Daily Crane/Rigging Inspection

Each subcontractor using cranes on this site will designate a competent person to inspect each crane each day prior to use. The Daily Crane/Rigging Safety Inspection Report forms will be available onsite if needed to document these inspections. Documents shall be turned in at the end of each day to Metcon's Project Superintendent.

Daily Forklift Inspection

Each subcontractor using forklifts on this site will designate a competent person to inspect each forklift each day prior to use. Daily Forklift Safety Inspection form will be available onsite at Metcon's onsite office if needed to document the inspection. The completed inspection form shall be kept on the forklift for review if needed and turned in at the end of each day to Metcon's Project Superintendent. Equipment shall have audibled and visible alarm. Spotters will be required when backing up in small or congested areas.

Daily man lift and scissor lift Inspection

Subcontractor using man lifts or scissor lift will designate a competent person and show evidence that this person is by training competent to inspect all mechanical parts of such lifts including all welds for signs of fatigue. The Daily lift Safety Inspection form will be available onsite in Metcon's onsite office and shall be kept in the clear pouch on lift for review until the end of the shift and turned into Metcon's onsite office. Equipment shall maintain a minimum clearance of 10ft from electrical lines. Alarms shall be in working condition or a spotter shall be used. The subcontractor company name and phone number shall be posted in BOLD on the exterior of all moving equipment onsite

SAFETY TRAINING

Health and Safety Training is a requirement and mandatory for all Metcon Projects, and subcontractor workers assigned to this project to promote and ensure that an Incident and Injury Free Environment exists.

Site Health and Safety Orientation:

All project management, supervision, workers and visitors shall receive Metcon's site-specific health and safety orientation training prior to access to the project. No worker is to start work prior to receiving site-specific health and safety orientation training.

As a minimum, the health and safety orientation will include the project General Safe Work Rules and procedures contained in this Project Safety and Incident Prevention Program. The site-specific orientation will communicate each workers responsibility to be compliant with the project safety rules and regulations, accountability, and the disciplinary program.

Even though Metcon, Inc. conducts project specific safety orientations, subcontractors are responsible for reviewing their Site -Specific Job Hazard Analysis and Metcon's Subcontractor Safety and Health Incident Prevent Guidelines,

Health and Safety Training:

In addition to the site-specific health and safety orientation, OSHA requires that workers receive specific task training. To help comply with OSHA minimum worker training requirements and assist in achieving an Injury and Incident Free workplace, a training matrix has been included in this Subcontractor Safety and Incident Prevention Program.

Subcontractor management team or supervision will communicate the health and safety policies and procedures to all vendors and third-party individuals having business on this project.

All safety training must be documented.

Daily and Weekly Safety Meetings:

Subcontractors and their employees and tier contractors shall attend Metcon's weekly jobwide safety meeting conducted by Metcon's Project Superintendent. Subcontractors that continually fail to attend or conduct weekly safety meetings may be removed from the project.

Safety meetings shall communicate any incident that occurred on the project, safety concerns, new hazards that may appear on the project, etc. The safety meeting should be approximately ten to twenty minutes in length.

Monthly Safety Committee

All onsite major MEP subcontractors will participate in our monthly jobsite safety committee. Subcontractors shall provide one hourly employee to attend the meeting for a duration of a 3 month rotation.

Subcontractors will be required prior to mobilization to provide proof of employee training applicable with their scope of work. Proof of 30 hour OSHA training within the last four years for all competent person assigned to the project shall be submitted prior to mobilization.

TRAINING MATRIX:

TOPIC	WHO NEEDS TRAINING	WHAT TRAINING IS NEEDED	WHO CAN DO THE TRAINING
Worker Safety Orientation	All workers entering the project.	This Project Safety and Incident Prevention Program, site-specific emergency procedures, etc.	Project Management/Supervision, or Safety Representative.
Hazard Communication	All workers entering the project.	Hazard Communication Basic Training (Refer to Hazard Communication Program in this manual).	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
	Workers exposed to a hazardous chemical or substance.	Specific Hazard Communication Training (Refer to Hazard Communication Program in this manual).	
Supervisor Safety Orientation	All supervision on the project.	<ul style="list-style-type: none"> Project Safety and Incident Prevention Program. Safety planning requirements and instruction. Responsibilities for safety on the project. 	Metcon, Inc. .Project Management or Safety Supervisor.
Fall Protection	Workers exposed to fall hazards of 6' or greater.	<ul style="list-style-type: none"> The nature of fall hazards. Procedures for erecting, disassembling, maintaining, & inspecting fall protection systems. Use and operation of: guardrail systems, personal fall arrest systems, safety net systems, warning line systems, safety monitoring systems, controlled access zones & other protection when used. Procedures for handling equipment & erection of overhead protection. Fall protection standards. 	Competent person, Safety Representative, or First-Line Supervision.
PPE	Workers using PPE.	Refer to section on PPE or regulatory standards.	Safety Representative, Project Manager/ Superintendent or First-Line Supervision.
Respiratory Protection	Workers required to wear respiratory protection, including common dust masks.	OSHA 29 CFR 1910.134 & 139 or 1926.103.	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Forklifts	Operators of powered industrial trucks.	<ul style="list-style-type: none"> Types of trucks operated. Hazards of the workplace. Hands-on performance evaluation. 	Qualified person.

TRAINING MATRIX (CONTINUED):

TOPIC	WHO NEEDS TRAINING	WHAT TRAINING IS NEEDED	WHO CAN DO THE TRAINING
Confined Spaces	Workers entering or working within a confined space.	<ul style="list-style-type: none"> • Hazards of the space. • Duties of entrants. • Air monitoring. 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Permit-Required Confined Spaces	Workers entering or working within a permit-required confined space.	<ul style="list-style-type: none"> • Hazards of the space. • Duties of entrants, attendants, supervisors. • Measures used to eliminate or control hazards. • Air monitoring requirements. • Emergency procedures/rescue equipment. • Communications. • Permitting procedure. • PPE. 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Excavations/ Trenches	Workers entering or working within an excavation/trench.	<ul style="list-style-type: none"> • Hazards of the space (slides, cave-ins, water accumulation, etc.) • Safe means of access/egress. • Proper support system procedures (erection, maintenance, disassembly and inspection). 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Lockout/Tryout	Workers affected by hazardous energy sources.	<ul style="list-style-type: none"> • Nature of known hazardous energy sources. • Project-specific Lockout/Tryout procedures. 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Gas Welding & Cutting	Workers conducting gas welding and/or cutting.	<ul style="list-style-type: none"> • The safe use of fuel gas. • Fire hazards and control procedures. 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Arc Welding & Cutting	Workers conducting arc welding and/or cutting.	<ul style="list-style-type: none"> • What to do with unattended machines & electrode holders. • Operations around water. • Fire hazards and control procedures. 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.
Hot Work	Workers conducting hot work activities.	<ul style="list-style-type: none"> • Hazards of the area. • Permits. • Duties of Fire Watch. • How to use a fire extinguisher. 	Project Manager/Superintendent, Safety Representative, or First-Line Supervision.

TRAINING MATRIX (CONTINUED):

TOPIC	WHO NEEDS TRAINING	WHAT TRAINING IS NEEDED	WHO CAN DO THE TRAINING
Scaffolding	Workers working from scaffolding.	<ul style="list-style-type: none"> • The nature of any known hazards. • Proper erection, maintenance, & disassembly of fall protection systems. • Falling object protection. • Material/equipment handling from scaffold. • Maximum load-carrying capacity. 	Competent person or Safety Representative.
Man Lifts	Workers working from man lifts.	<ul style="list-style-type: none"> • 100% fall protection. • Controls and operating limits of machine. • Overhead hazards. 	Project Manager/ Superintendent, First-Line Supervision or Manufacturer rep.
Crane Baskets	Workers working from crane baskets.	<ul style="list-style-type: none"> • Safe work rules. • 100% fall protection. • Lift plan contents. • Emergency procedures. 	Project Manager/ Superintendent or First- Line Supervision.
Railroads	Workers working within or near the immediate area of railroad tracks.	<ul style="list-style-type: none"> • Hazards of working on or near tracks. • Train schedules. • 6' rule. 	Project Manager/ Superintendent or First- Line Supervision.
Owner/Client-specific requirements	Applicable workers.	<ul style="list-style-type: none"> • Owner/Client-specific safety requirements. 	Metcon, Inc. Project Team

EMERGENCY ACTION PROCEDURES

Medical Emergency

- Protect yourself and other workers from further injury.
- Immediately report the injury and location to Metcon, Inc.
- Call for emergency services as needed. When reporting a medical emergency, state your name, the nature of the emergency, the severity of the emergency, and where assistance is needed.
- Meet medical responders and guide them to the emergency location.
- If you have the proper training, render first aid care for the injured.
- Do not move injured workers before medical assistance arrives unless they are in danger of further injury.
- Preserve the area around the accident scene until an investigation can be conducted.

Fire or Explosion

- Immediately report the fire and its location to the Metcon, Inc. Project Superintendent.
- Call the fire department or emergency services as needed.
- Unless you have received special instructions, do not attempt to extinguish the fire.
- Immediately evacuate the work area and report to the designated assembly area upon hearing the evacuation signal.
- Do not leave the assembly area until accounted for. Do not re-enter the building until authorized by the Metcon, Inc., Project Superintendent.
- Report the occurrence to adjacent building occupants as necessary.

Severe Weather

The following procedures shall be followed if weather conditions such as severe thunderstorms, high winds or tornadoes develop around or near this project.

- Secure loose materials if it is safe to do so.
- All workers on scaffolds, ladders, cranes, aerial lifts and roofs shall seek shelter.
- Crane booms will be lowered if determined to be necessary by the Project Superintendent.
- If necessary, the evacuation signal will be given, and all personnel will seek shelter to the designated area.

Bomb Threat

- Immediately report the bomb threat to the Metcon, Inc. Project Superintendent.
- Notify the law enforcement authorities immediately.
- Report to the designated assembly area upon hearing the evacuation alarm. Do not leave or re-enter the building until authorized to do so.
- Do not touch suspicious objects.

Chemical Spill or Release

- Evacuate personnel to a safe distance and secure the area.
- Report the occurrence to the Project Superintendent who will call for emergency services as needed.
- Report to the designated assembly area upon hearing the evacuation alarm.
- Control or clean up small non-hazardous spills only if it is safe to do so.

Structural Failure or Collapse

- Evacuate personnel to a safe distance and secure the area.
- Report the occurrence to the Metcon, Inc. Project Superintendent who will call for emergency services as needed.
- Report to the designated assembly area upon hearing the evacuation alarm. Do not leave until accounted for.
- Do not re-enter buildings until authorized by the Metcon, Inc. Project Superintendent after the damage has been assessed by an engineer or qualified person.

This plan shall be reviewed with all workers during orientation and posted in prominent locations.

- Project Name: Metcon, Inc.
Project Address:
- This Crisis Management Plan provides evacuation procedures, specific alarms, and assembly points, should an emergency evacuation become necessary because of severe weather, fire, hazardous chemical release, explosion, or other emergencies that could cause a worker harm.
- It is each worker's responsibility to familiarize themselves with evacuation routes, alarms, and assembly points in case an emergency evacuation is required.
- Workers will immediately evacuate their work area upon hearing the alarm or being notified of the emergency and ordered to evacuate. No worker is exempt from evacuation even if the evacuation is a drill.
- Workers are required to report immediately to their designated assembly point and be accounted for. Failure to report may cause another to risk danger in an effort to search for you. Do not leave the project without prior authorization from first-line supervision.

In Case of Fire or Explosion: Emergency Phone Number – 911

Alarm Notification:

Evacuation Alarm: Constant continuous Horn

Evacuation Assembly Area: To Be Determined At the Onset of Project Phases

In Case of Injury or Medical Emergency: Emergency Phone Number – 911

Alarm Notification: Call 911 in severe life-threatening situations. All other, call Metcon's Project Superintendent that all employees have evacuate.

In Case of Severe Weather: Emergency Phone Number – 911

Alarm Notification:

Evacuation Alarm: Shot interment horn sounds

Evacuation Assembly Area: To Be Determined At the Onset of Project Phases

Special Instructions: If feasible, seek designated Site Emergency Evacuation Shelter or the nearest interior room or basement.

In Case of Chemical Spill or Release: Emergency Phone Number – 911

Alarm Notification:

Evacuation Alarm: Constant Continuous Horn sound

Evacuation Assembly Area: To Be Determined at the Onset of Project Phases

Spill Kit Location: each Subcontractor whose scope of work requires use of equipment or chemicals shall have a spill kit onsite and trained Hazcom team member(s).

Special Instructions:

The following general safe work rules are just a partial list of the general rules that apply to each worker on this project, additional site-specific safety rules will be discussed in detail during the onsite Specific Safety Orientation. There will be no tolerance for any worker who carelessly disregards these rules or the other applicable health and safety rules.

1. It is the responsibility of each worker to perform his or her assigned duties so as to provide:
 - Safety to themselves.
 - Safety to their fellow worker.
 - Protection to the general public and all other workers.
 - Protection to equipment, materials, and tools.
2. It is the responsibility of each worker to report all unsafe acts and conditions to their supervisor.
3. No worker will attempt to work under conditions that appear to be unsafe.
4. Workers will wear the minimum personal protective equipment as described in this Project Safety and Incident Prevention Program.
5. No worker will use damaged tools or equipment. Damaged tools and equipment will be tagged and removed from the work site.
6. No work will be performed on any equipment, machinery, or system without it being locked out and tagged.
7. It is every worker's responsibility to maintain his/her work area in a clean and orderly manner.
8. No radios, Bluetooth, ear buds for phone or radio are allowed onsite.
9. Workers will ensure that the proper guards and safety devices are present and operational on all tools and equipment. No worker will remove a guard or safety device for any reason.
10. Workers will report work-related injuries, illnesses, or unsafe conditions immediately to their supervisor.
11. If a worker is unsure as to the safe performance of their work, they will request instruction from their supervisor.
12. No worker will enter a confined space without authorization and training.
13. No worker will attempt to operate equipment or machinery or any specialty tool (e.g. powder-actuated tools) unless authorized and properly trained.
14. No worker will cut, weld, grind, chip, or perform other tasks where the danger of flying debris exists without wearing proper eye and faceshield protection and hearing protection.
15. Workers will use safe lifting techniques when required to lift material or other loads.
16. Workers will not remove any respiratory protection when the work area requires it.
17. No worker will ride on the tailgate, tool box or sides of pickup trucks. Workers to be seated in bed of truck if no room available in cab.
18. No worker will engage in any horseplay, fighting or gambling of any form.

19. No worker will cross, disregard, or enter a red barricaded, taped, or flagged area.
20. No worker will intentionally discharge or remove fire-fighting equipment.
21. No worker will remove barricades or floor covers without authorization.
22. No worker will work six (6') feet or greater above the surface without proper fall protection.
23. No worker, visitor, subcontractor employees shall be permitted to take photos or videos without the consent of Metcon's Project Manager. Violations will result in fines being issued.
24. All onsite personnel shall attend Metcon's weekly jobwide safety meeting (no exceptions).
25. Workers, visitors and subcontractor employees and tier contractors shall be of 18yr. or older to work on any Metcon, Inc. Project.
26. Everyone who enters the project shall comply with Metcon's COVID-19 Safety Guidelines that will be reviewed during the Site Safety Orientation and will be posted in common work areas. Subcontractors shall provide the required CDC and local Government COVID-19 PPE (Hand sanitizer and Mask-(if applicable at the time) and/or employee temperature monitoring) at the time of mobilization.
27. No one is permitted to enter an existing campus facility without authorization from Metcon's Project Team. Failure to comply will result in immediate removal from the project.
28. Zero tolerance for anyone who works on this project that fraternize or harasses any faculty member or student of the University. Violators will be immediately removed from the project and banned from any Metcon project
29. No Food or beverages (other than water) are permitted inside the building. No Eating or drinking of beverages inside bldg. Areas where workers take break and lunch shall be kept clean and no trash left behind. These areas will be monitored for compliance. Workers who eat at their vehicles shall not play music with windows down or doors open.

PROJECT-SPECIFIC SAFETY PROCEDURES AND REQUIREMENTS

The project-specific safe work procedures are the minimum requirements for this project. The purpose of these rules is to ensure an incident/injury free environment and compliance with regulatory standards and requirements.

HAZARD COMMUNICATION PROCEDURES

All workers on this project are entitled to know the properties and potential safety and health hazards of chemicals or substances that they may encounter on this project.

Each subcontractor working on this project will be required to submit their written Hazard Communication Program. This program will be submitted to Metcon and will be placed in the Metcon, Inc. site office or other location where workers can easily access and review all programs. Each subcontractor onsite supervisors shall maintain a copy of the program and safety data sheets in their gang box, onsite office trailer or company vehicle and employees shall be aware of the location.

Each contractor's Hazard Communication Program must include:

- 1) A list of all chemical products that are used or stored on the site.
- 2) A Safety Data Sheet for each chemical product used or stored on the site in a three-ring binder.
- 3) Container labeling requirements.
- 4) Conex Hazard Placard
- 5) Provisions for employee training.

It will be the responsibility of each workers supervision or project management to assure Safety Data Sheets are received prior to or at the time of delivery of a hazardous chemical. A copy of the Safety Data Sheet shall be updated in the Subcontractors onsite safety Data Sheet book located in Metcon's onsite office trailer. Subcontractors onsite Competent person shall maintain a copy of their Hazcom program and SDS sheets onsite.

Project management and onsite supervision will ensure all hazardous chemicals are properly labeled in accordance with the Safety Data Sheet (SDS). Containers that hazardous chemicals have been transferred into for use during a single work shift require secondary labeling per the new Hazcom labeling requirements set for by OSHA.

Every worker on this project shall have received instruction about their company Hazcom program, the location of the onsite Chemical Inventory list, the location of the onsite Safety Data Sheets, labeling requirements, and specific safety or health instructions about specific hazardous chemicals or substances in use.

Minimum Hazard Communication Training during worker orientation, will consist of:

1. The contents of this program.
2. Prior to use of or the potential exposure to any hazardous chemical or substance, workers are to be instructed in:
 - Physical and health hazards.
 - Procedures to protect against the hazards.
 - Personal protective equipment.
 - Emergency procedures in case of exposure or accidental spill.

- Engineering and administrative controls.
3. Whenever a new chemical or substance is introduced into the workplace, workers will be briefed of its hazards.

Subcontractor project manager and onsite superintendent will notify Metcon's Project Superintendent that hazardous chemicals are being used and the hazards they may encounter.

THIS PROGRAM WILL BE REVIEWED WITH ALL WORKERS AND POSTED IN A LOCATION ACCESSIBLE TO ALL WORKERS.

1. The purpose of this Hazard Communication Plan is to ensure that information on hazardous chemicals and substances is communicated to workers in accordance with OSHA 29 CFR 1926.59 and the Metcon, Inc Hazard Communication Program.
2. An inventory of known hazardous chemicals and substances used and stored on this project has been compiled by each contractor. A list(s) of the chemicals and substances known to be used or stored on the site is located and can be reviewed at the Metcon, Inc. Project Superintendent onsite office.
3. A copy of the Safety Data Sheets (SDS) for known hazardous chemicals and substances used on this project are located and can be reviewed at the Metcon, Inc. onsite office.
4. If a copy of a safety data sheet cannot be located, contact your Project Manager, Superintendent, Foreman or the Metcon, Inc. Project Superintendent.
5. Project management and first line supervision are responsible for obtaining material safety data sheets (SDS) and ensuring they are received prior to or at the time of delivery of a hazardous chemical.
6. Hazardous chemicals will be properly labeled in accordance with the safety data sheet. Containers that hazardous chemicals have been transferred into for use during a single work shift will require secondary labeling.
7. Workers who work with or may be potentially exposed to a hazardous chemical or substance will be informed of the physical and health hazards and procedures to protect against those hazards. Including engineering and administrative controls, personal protective equipment, and emergency instructions for accidental exposure, emergency evacuations, or spill containment of the hazardous chemical or substance.
8. When new hazardous chemicals or substances are introduced into the work environment, workers will be informed of the physical and health hazards.
9. Employers, who may be working in a Metcon, Inc. work area where workers could be exposed to a hazardous chemical or substance, will be informed of where that hazardous chemical or substance is in use.
10. Workers performing non-routine tasks will be informed of chemical hazards associated with the work activity and the appropriate protection measures.
11. Hazardous materials stored in c-ban containers shall contain the required placard affixed to the outside door.
12. Fuel containers shall have Hazcom placards affixed.

13. Secondary containers such as sprayers shall have Hazcom placard affixed. Safe Work Practices

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All Metcon, Inc., employees, subcontractor and vendor employees and third-party individuals will, as a minimum, shall wear the following personal protective equipment at all times while on this project (except in office and lunch areas). The below PPE shall be worn at all times until notified by Metcon’s Safety Director otherwise.

Head Protection

An approved hard hat must be worn at all times.

- Hard hats must be properly maintained.
- Ball caps, stocking caps, towels, jacket/sweatshirts hoods or other headgear not specifically designed to wear with a hardhat will not be allowed.
- Hard hats must be worn with the bill facing forward except when reversing the suspension is allowed by the manufacturer to accept a welding shield or other face shield.
- No cowboy, Metal style or Bump cap style hardhats allowed to be worn.
- Hardhat must fit properly and securely around the skull base; an employee’s hair must not interfere with the hardhat conforming to head and not raised up.
-

Eye and Face Protection

Safety glasses with side-shields must be worn at all times. Workers that wear prescription glasses may do one of the following:

- Obtain prescription safety glasses with side shields. These will meet ANSI Z-87 criteria, or;
- Wear over-the-glass safety glasses, or;
- Wear mono-goggles.

In addition, the following eye/face equipment must be used when performing the following work activities:

Activity	Safety Equipment
Welding	Welding Hood*
Burning	Burning Goggles
Grinding or cutting metals	Face Shield*
Drilling	Goggles/Face Shield*
Reaming	Goggles/Face Shield*
Chemical Handling	Face Shield*
Molten Materials	Face Shield*
Corrosive Liquids	Face Shield*
Concrete Pouring	Face Shield*
*SAFETY GLASSES WILL BE USED IN CONJUNCTION WITH FACE SHIELDS AND WELDING HOODS.	

Foot Protection

Leather upper and rubber sole work boots that are in good condition must be worn at all times. Tennis shoes, sandals, or other street-type shoes are not allowed, even if they have steel toes. Rain boots are not allowed to be worn as substitution to the work boot.

Work Attire

Shirt sleeves will have a minimum sleeve length of four (4) inches. No shorts, tank tops, or cut-off shirts are permitted.

Long trousers will fit properly around the waist. Shorts or trousers that are being worn low on the hips or thigh are not allowed. The length of the trouser will be such to not present a tripping hazard.

Rings, chains, bracelets, dangling earrings, or other loose jewelry will not be worn when working near or on machinery, equipment, or moving parts.

Reflective Safety vests or lime/orange reflective shirts will be worn at all times by all persons while on site.

Respiratory Protection

Subcontractors onsite competent person who has been trained in Respiratory Protection shall determine and implement if hazards exist that require respiratory protection prior to start of work and follow their company written Respiratory Protection Program as set forth by the OSHA 29CFR 1910.134 guidelines.

If a worker desires to voluntarily wear a filtering face piece (dust mask) and a respirator is not required, the subcontractor onsite trained competent person is required to inform the worker about the specific respirator and its limitations and sign the Appendix D (Voluntary Respiratory Use Form) and kept on file. **NOTE: DUST MASKS ARE PROHIBITED FOR PROTECTION OF SILICA EXPOSURE.**

WORKERS ARE ONLY PERMITTED TO WEAR A RESPIRATOR AFTER HAVING SUCCESSFULLY PASSED A MEDICAL CLEARANCE, RECEIVED RESPIRATOR TRAINING, AND PASSED A RESPIRATOR FIT TEST. This includes disposable dust and mist respirators! . Subcontractors shall provide a copy of their written Respiratory Protection Program and proof of employee training with their Site-Specific Safety Submittal.

Hearing Protection

Subcontractor shall determine by monitoring if their work task (machinery, tool) exceeds the allowable noise level and shall post signage in the area that requires approved hearing protection to be worn while in the area. A good rule to follow is: When you must raise your voice to be heard, you need hearing protection. Exposure to impulsive or impact noise must not exceed 140dB noise level

Duration per day, hours	Sound Level dBA Slow Response
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ or less	115

Impulsive or impact noise	
Equipment or tools	Sound Level Created
Pneumatic chip hammer	103-113
Jack Hammer	102-111
Concrete Joint Cutter	99-102
Skill saw	88-102
Stud Welder	101
Bulldozer	93-95
Crane	90-96
Hammer	87-95
Backhoe	84-93
Above hearing exposure based on an 8 hour exposure	

Hand Protection (On-Person Glove Policy)

ALL Workers are required to have the appropriate protective gloves with the appropriate cut rating ON-PERSON (them) at all times.

ALL Workers shall wear the appropriate glove classification for the task when performing work. The project safety supervisor can assist in recommending the correct glove for the task.

Additional Protections

Reflective safety vests are required at all times.

HAND AND POWER TOOLS

Hand and power tools will be kept in good working condition and inspected daily before use. Hand and power tools are to be operated according to manufacturer's instructions and guidelines and the personal protective equipment appropriate for the hand or power tool will be worn. Workers shall have been trained by their company on the safety and proper use of the power tools they are provided or have access to use.

Hand Tools

- Impact tools such as chisels, wedges, etc. are not to have mushroomed heads.
- Wooden handles will not be splintered or cracked.
- Pocket knives will not be used for stripping wire unless protective gloves are worn.

Electric Tools

- Never lift or carry a power tool by its cord.
- Guards and safety switches will not be removed or made inoperative.
- Electric tools must have a three-wire cord unless double insulated.
- Damaged cord-ends shall be replaced per the manufacture guidelines,

Portable Abrasive Wheel Tools

- Guards will not be removed.
- Grinding disks and wheels will be checked to verify they are the correct RPM for the grinder.
- Handles shall not be removed.

Pneumatic Tools

- Air hoses ½ inch in diameter or greater will have a safety excess valve installed at the source of air.
- Clips or retainers are required to prevent attachments from being ejected from the tool.
- Pneumatic nail guns shall be disconnected from the air supply when unattended.

Battery Operated tools

- Batteries are to be stored per manufacture
- Remove battery when changing bits, blades, etc.

Powder Actuated Tools

- Workers will be trained to operate a powder actuated tool and required to carry their training card at all times.
- Fired cartridges are not to be discarded on the floor but placed in a container or bucket of sand or water and properly disposed of.

All employees who will be using any form of tools shall be trained by a competent person on the use and safety precautions of the tool.

FIRE PROTECTION AND PREVENTION

Fire Protection

Temporary fire protection measures, such as fire extinguishers, temporary hose lines, and temporary standpipes are required near hazardous locations and as required by the OSHA regulations. Only trained workers shall be designated to operate or inspected fire extinguishers.

It shall be the responsibility of every subcontractor to ensure their employees who will be onsite have been trained on how to properly use a fire extinguisher.

Fire extinguishers will be:

- Inspected monthly on the affixed inspection tag located on the fire extinguisher.
- Conspicuously located and readily available. No fire extinguisher shall be placed on ground or floor.
- Protected from freezing.
- Placed within the immediate area of any welding/cutting operation or flammable liquid storage area.

If a fire extinguisher is discharged for any purpose, it should be reported to Metcon's Project Superintendent.

All temporary buildings (shops, field offices, storage rooms, Conex etc.) will have a UL-rated, 10lb, class "ABC" fire extinguisher located at the interior entrance and inspected monthly.

In other locations provide, UL-rated, class "ABC" dry chemical extinguishers or combination of extinguishers of NFPA recommended classes suited for the exposures.

1. Comply with NFPA 10 and 241 for classification of extinguishers agent and size required by location and class of fire.
2. Provide the appropriate number of designated fire watch individuals with fully charged fire extinguishers, welding blankets and welding screens as required to limit risks associated with welding, cutting and burning or any other activity which has the potential to cause a fire. All Hot work shall be done under a permit system issued by Metcon's Project Superintendent.

Access to fire hydrants will always be maintained. Access to buildings and other structures will always be maintained.

Fire Prevention

Combustible refuse from construction operations will not be burned nor dumped anywhere on the construction site. Such refuse will be removed at frequent intervals, as needed. Storage of large quantities of construction debris will be placed in metal dumpsters.

Compressed gases will be:

- Stored with valve caps securely on when not attached to a regulator.
- Secured upright in a rack at all times, including when transported in vehicles with chains, tie-wire is not permitted
- Fuel and oxygen cylinders will be separated by 20 feet or greater on a pallet outside. No storage inside bldg.. or conex. A 10lb. fire extinguisher shall be posted near the area and storage area and kept free of weeds.
- Empty cylinders shall be marked according
- No cylinders are allowed to be stored inside building or Conex containers

Only approved solvents are to be used for cleaning purposes and a copy of the SDS shall be updated in your SDS binder located in Metcon's onsite office and a copy in your onsite supervisor binder.

- No open burning is permitted on this project.
- No materials or chemicals shall be stored in stairwells.
- No fuel containers allowed to be stored inside building or conex container. Shall be stored on pallet outside subcontractor's storage area, 10lb fire extinguisher shall be posted near storage area and 'No Smoking' signs posted. Area shall be kept free of weeds.
- No propane cylinders allowed to be stored inside of building or conex container, cylinders shall be stored on a pallet and secured with chains to prevent tipping outside subcontractor's storage area. 10lb fire extinguisher shall be posted near storage area and 'No Smoking' signs posted.

All fire safety rules and signs on this project will be observed.

Special precautions will be taken to reduce the risk of fire when flammable liquid primers and adhesives are used in conjunction with foundation waterproofing systems. These materials shall not be used until authorized by Metcon, Inc. Special precautions may include additional training, the use of Hot Work Permits, fire watch personnel, fire retardant clothing, etc.

Flammable Liquid Storage and Dispensing

Flammable Liquids will be:

- Stored outside not within 20 feet of any structure or inside a properly constructed storage locker.
- Stored in approved NFPA portable containers that is marked with contents to indicate its contents.
- Stored on a pallet
- No more than 10-gallons stored fuel will be permitted unless in an approved flammable cabinet.
- Posted with "NO SMOKING or Open Flames" signs.
- Outside storage areas kept free of weeds and other combustible material.
- UL-rated 10lb "ABC" fire extinguishers shall be in the storage areas of portable containers.
- No storage of flammable containers permitted to be stored in gang boxes,

All flammables will be stored in approved UL containers and marked to indicate the contents. If storing flammables of 10gals or more for more than one day, contact Metcon's Project Superintendent for approval.

Storage of fuel containers brought into the bldg. **will not** be allowed permitted nor in conex..

Transportation and transferring of volatile liquids will be made in Underwriter Laboratory or Department of Transportation approved containers.

Gasoline or Diesel storage double-wall tanks/drums will be placed on 10ml poly and surrounded by 2ft. high bales of wheat straw as a secondary containment. Perimeter of containment shall have hard barricade with "No Smoking/No Open Flames" sign posted. Tanks shall have affixed required HAZCOM decals and content labels. Daily removal of residue will be conducted.

Metcon's Project Superintendent will designate location for any fuel tank storage area.

At fuel dispensing points, the following is required:

- Portable 20 B-C fire extinguisher within 75 feet of fueling point. Inspected monthly.
- “No Smoking or Open Flames” signs shall be posted.
- Self-locking fuel nozzle prohibited.
- Spill kit stored nearby.
- Hard barricade to be around all fueling location

HOT WORK

Any form of burning, welding, cutting, or any work operation that may produce a flame or spark shall obtain **Prior to performing work a “Hot Work” Permit**. The permit must be filled out and signed by the Permit Authorizing Individual (P.A.I.).

If necessary see Metcon’s Project Superintendent for the Hot Work Permit.

A Hot Work Permit is valid only for the date and shift that is stated on the permit. Hot Work Permits will not be issued for a period in excess of one shift and must be renewed daily.

The following precautionary measures will be taken when a Hot Work Permit is required:

- No flammable material shall be within 35-feet in any direction.
- Combustible materials within 35-feet that cannot be moved must be covered with fire blankets or other suitable material.
- Grating, openings, edge of slabs, exterior steel columns, etc. will be completely covered in such a way to prevent sparks and slag from falling to a level below.
- Adequate Fire extinguishers will be available in the immediate area of work and worker shall have been trained on how to use.
- A Fire-Watch, must be trained in fire protection during Hot Work activities.
- A Fire-Watch must be maintained for **one-hour** after hot work has ended.

Note:

- The P.A.I. can authorize the duration of a Fire Watch for 30 minutes only if conditions permit.
- Following the completion of the established fire watch time period, one-hour, fire monitoring shall be provided within the hot work area for up to an additional two-hours for a total of three hours if necessary or as determined by the P.A.I. or by **Metcon’s Project Superintendent**).
- Follow confined space entry procedures, if required.

When burning or welding using compressed gases, flame arrestors will be installed on both the torch side and regulator side of the oxygen and gas hoses. Strikers shall be used to ignite torch, no cigarette lighters permitted.

Welding screens will be used to protect others from welding flash.

The onsite competent person shall train workers prior to performing any hot work. The training will consist of:

- A review of the work to be performed.
- Precautions to be taken.
- How to use the fire extinguisher correctly.
- Emergency procedure in case of fire.
- Duties of fire watch.

EXCLUSION ZONES

All elevated and/or leaned material must be positively secured to prevent displacement. Subcontractor, its employees and the employees of all those for which Subcontractor is responsible shall access and egress from the project work areas only through the Metcon designated access and egress points shown on the applicable logistics plan.

Subcontractor is responsible for erecting barricades to keep non-essential personnel away from potentially dangerous activities or areas under its control.

Barricades and warning signs must be inspected and maintained by the subcontractor responsible for erecting them. Subcontractor is also responsible for the removal of the barricades and warning signs upon the completion of the activity.

Caution/Danger/Ribbon tape type barricades may only be used for short duration (less than 4 hours) activities. Multi-shift or multiple day duration activities must use a durable, hard/solid type barricade.

Exclusion Zones utilized for the protection of an area below elevated work must be positioned horizontally at a distance of **half-the-height** of the work being performed and material being stored. If the distance of half the height is not feasible, MESH netting shall be installed from the uppermost work area to the ground level. This may include installing protection for a worker/pedestrian walkway below the work area with an additional twenty-feet past the elevated work area on both sides. This plan must be approved by the Safety Department.

FALL PROTECTION AND PREVENTION

This project is committed to the philosophy of **100%** continuous fall protection, whenever the potential exists for a worker to be exposed to fall hazards of six feet (6') or greater.

Metcon, Inc., subcontractors will take all practical measures to eliminate, prevent, and control fall hazards. All work will be planned with the intent to eliminate identified fall hazards. **A SITE-SPECIFIC FALL PROTECTION, PREVENTION and EMERGENCY ACTION PLAN WILL be required for review and approval by Metcon's Safety Director.** If the fall hazard cannot be eliminated, then effective means of fall protection will be implemented.

Subcontractors shall utilize man-lifts with retractable while erecting steel frame, structure or roof and avoid 'walking" the steel whenever possible.

Acceptable fall protection systems include the following conventional systems:

- Guardrail systems.
- Safety netting.
- Floor and wall hole covers.
- Positioning device systems.
- Protection from falling objects.
- Personal fall arrest systems.

(Controlled Access Zones (CAZ) will only be allowed when used in conjunction with conventional fall protection systems.)

Workers exposed to fall hazards that cannot be eliminated will be uniformly equipped, trained, and given periodic refresher training in fall protection at specific intervals to minimize the adverse effects of accidental falls. Fall protection training records shall be submitted to Metcon, Inc.

On this project, 100% FALL PROTECTION MEANS PROTECTED FROM FALLS AT ALL TIMES WHEN WORKING AT OR ABOVE SIX FEET. This means it is mandatory for all trades, including but not limited to:

- Structural steel erection (including connectors).
- Re-bar assembly.
- Concrete forming.
- Pre-cast erection
- Electrical.
- Masonry.
- Carpentry.
- Scaffold erection/disassembly.
- Over-hand brick/block work
- Roofing
- Plumbing
- Elevator installer

Personal Fall Arrest Systems will consist of an ANSI certified full-body harness, lanyard with shock absorbing device or retractable lifeline, locking snap hook, and properly engineered anchorage points.

Workers will not tie off to a perimeter cable or wire rope guardrail unless the perimeter guardrail has been properly designed as a horizontal lifeline. Horizontal lifelines must be designed by a qualified person.

When wire rope is used to construct guardrail systems at least 3/8" diameter cable shall be used with three cable clamps per connection. Guardrail systems must be constructed such that the toprail is 39"-45" high and is capable of withstanding a 200 lb. force without deflecting below 39". Guardrail shall be inspected daily and able to be tighten.

Lanyards will not be tied back to themselves unless the specific type approved by the manufacturer.

Workers on this project who may be exposed to a fall of six feet (6') or greater while working off scaffolding, ladders, elevated decks, elevated platforms, low-slope roofs, stairways, stairwells, reinforcing steel, and any other elevated area or equipment will be protected from falls.

Floor, wall openings of more than 18", columns, or expansion joints will be securely guarded or covered with plywood that is flush and capable of withstanding the potential load and properly marked, **"HOLE OR COVER-DO NOT REMOVE."** **ALL COLUMN DIAMONDS SHALL BE SECURLY COVERED AT ALL TIMES UNTIL Poured AND MARKED "HOLE"**

All shaft openings, including elevator, shall have a full height physical hard barrier with toe boards which include security measures to prevent unauthorized use or entry. "Danger Fall Hazards" sign shall be posted.

Any contractor that must remove a guardrail, hole cover or other fall protection system in the course of their work will be responsible notifying Metcon's Project Superintendent for approval **prior** to removing any fall protection protective system and will provide the proper anchor point for their fall arrest system prior to removing any fall protection system.

LADDERS & STAIRWAYS

Ladders used on this project will meet the requirements established in OSHA 29 CFR 1926.1050. Ladders shall be designed and rated for heavy or extra heavy duty with a minimum capacity rating of 250 pounds. Ladders shall not be used for purposes other than intended by the manufacturer. Training - Workers shall be trained in the safe use of ladders.

- Step Ladders (A-Frame) that are used on the project shall be Platform or Podium type (with rear gate), **ONLY**.

- All ladders must be made safe, removed or protected from use, prior to completion of daily work activities.
- Task that are repetitious and/or tasks that are longer than 15 minutes and can be done from a work platform, scaffold or mechanical man-lift.
- Secured ladders or steps are required to ascend or descend truck beds and/or trailers.
- Ladders, stairs or ramps will be provided where there is a change in elevation of 19 inches or greater. Stairways having four or more risers or rising 30" or more shall have at least one stair rail system 36" high and one stair rail system on each unprotected side.
- Metal pan stairs shall not be used until the pans are filled to prevent a tripping hazard.
- Fall protection must be utilized while working from a ladder above 6-feet.
- Ladders will be inspected each day prior to use and documented on the daily ladder inspection tag that is to be affixed to ladder. Defective ladders shall be Red tagged and immediately removed from the project.
- Feet of ladders shall not be covered with tape, cloth, etc.
- No hand tools, power tools, material shall be kept on top of ladder.
- Workers will not stand on the top three rungs of straight ladders. No worker will work when his or her knees are above the top of the ladder.

Aluminum ladders of any type are prohibited on all Metcon, Inc. projects.

All ladders must have manufactures safety labels affixed regarding weight and type of ladder.

Straight/Extension Ladders

- Ladders can only be utilized up to 20-feet. A ladder permit and approval from the Safety Department is needed if a ladder is needed to be utilized above 20-feet.
- Ladders will be set up so the horizontal distance from the base of the ladder to the bearing point is $\frac{1}{4}$ of the vertical distance to the bearing point.
- When extension ladders are set up such that the top cannot be secured by tying or other approved means, stay poles or stabilizers shall be used as required by the ladder manufacturer.
- All straight ladders will have non-skid feet at the base.
- All ladders shall be equipped with the pulley rope in place or removed from service.
- No Aluminum ladders permitted.
- Daily ladder inspections shall be performed and documented on the affixed ladder inspection tag.
- When ladders are used to access upper levels, they must be secured at the base and at the top by tying, etc. to prevent displacement. Ladders will extend past the bearing point four feet and walk-thru rails shall be used.

SCAFFOLDING

All scaffolding used on this project will meet the requirements established in OSHA 29 CFR 1926.451.

Each contractor using scaffolds must designate a scaffolding competent person that has received scaffold competent person training to supervise the erection and dismantling of all scaffolding on this project. The competent person will attach a colored scaffold tag to the scaffold, depending on whether it is a complete or incomplete scaffold. Each scaffold will be inspected by the competent person prior to work daily and after a weather event.

Mechanically Elevated Work Platforms (MEWP) shall be required to wear fall protection.

Hydraulic scaffolding guardrails shall be netted. A UL-rated, Class "ABC" 10lb fire extinguisher shall be located on scaffold platform, fall protection for accessing platform, and barricade with orange fencing below. Hydraulic Scaffold shall be on level firm foundation, base plate and mud sill shall be used at all times.

Workers required to work from scaffolding shall be trained on the following:

- Nature of any known hazards, such as electrical, fall, or falling objects.
- Correct method of erecting, maintaining, and disassembling fall protection systems.
- Fall protection will be worn when erecting and dismantling
- Falling object protection systems.
- Proper handling of equipment or material on the scaffold.
- Maximum load-carrying capacity of the scaffold.
- Any other pertinent requirements about the scaffold.

Proof of Subcontractor Employee Scaffold training shall be provided to Metcon's Safety Director as part of your Site Specific Safety submittal.

All scaffolding, prior to erection, will have its components inspected for defects and any damaged parts not used.

All scaffolding shall be inspected dated and signed by a competent person prior to each use or weather-related event. The appropriate color scaffold tags shall be affixed by the ladder access indicating complete (GREEN) or incomplete (RED) tag.

The use of pallets to act as end gates or barricades are not permitted.

No materials shall be left on a "Red" tagged scaffold.

Scaffold shall be built in their entirety and not left unfinished or in an unsafe condition.

Scaffolding will be erected on a firm foundation/footing. Scaffold poles, legs, posts, frames and uprights will bear on metal base plates and mud sills at all times.

Scaffold legs, poles, posts, frames and uprights will be pinned or locked to prevent uplift. No bolts are permitted to be used in lieu of scaffold pins.

The maximum allowable space between scaffold planks shall not exceed one inch. Openings in scaffold platforms shall not exceed 9½ inches to accommodate uprights that pass through a scaffold platform.

Workers are not permitted when scaffolding is at a window opening or roof top be used for access/egress to scaffolding.

Scaffold planks shall extend past the horizontal support a minimum of 6 inches and not more than 12 inches unless cleated or restrained by hooks.

When scaffold planks are overlapped the overlap must occur at a horizontal support and the overlap must be at least 12 inches. Scaffold planks must be scaffold grade planking.

Safe access, with stairs being the first choice over ladders, must be used to access any scaffold platform that is more than 2-feet above the point of access. End frames of tubular welded scaffolds can be used as a ladder if the following criteria are met:

- Specifically designed and constructed as ladder rungs.
- Rung length of at least 8 inches.
- Spacing between rungs does not exceed 16 $\frac{3}{4}$ inches.

No worker will climb up or descend from scaffold using the cross bracing.

Workers working from suspended scaffolding will wear a full body harness attached to an independent vertical lifeline.

Scaffold platforms more than 4-feet above lower levels will be equipped with guardrail systems. If guardrails cannot be used on a scaffold, workers will wear a full body harness and be tied off to a fixed anchorage point.

Workers that work from a scaffold will be protected from falling objects such as hand tools, debris, and other small objects from above.

Scaffold access Ladder shall be no higher than 20-feet. Internal or External Stair Tower needs to be used.

Scaffolds shall include MESH netting with openings no larger than $\frac{1}{4}$ " on ALL levels where workers are present and/or where there are materials being stored. Areas below and around work on a scaffold shall be protected by a Control Access Zone (CAZ) at a horizontal distance of half the height of work being performed, to also prevent access under scaffold. Danger tape can only be used temporarily for four hours or less.

When welding is required from swinging scaffolding, the scaffold will be grounded.

Scaffolds shall not be erected such that the height to base width ratio exceeds 3 -to-1 ratio as possible and repeated tie-ins shall follow OSHA guidelines.

Solid bracing are to be utilized for support, no #9 wire.

No overhand bricklaying without fall protection is permitted.

Guardrails are required on all Baker scaffolding –no matter at what height. Scaffold must contain scaffold tag Green or RED. If used as a work table, the baker scaffold must contain a Red tag and signed.

Housekeeping shall be performed on a continues bases during the day, no accumulation of block or brick or mortar under or around work area.

Stilts

Are not allowed on any Metcon Construction project, unless approved by the Metcon Construction project management team. Subcontractor must submit a site-specific written plan that includes (at minimum) provisions for housekeeping, training, inspections and spotters.

Adjustable stilts: Use adjustable stilts from 12 to 36 inches and follow the manufacturer's instructions.

Guardrails: If using stilts on a large area scaffold with a guardrail system, raise the guardrails by the same amount as the stilts.

Surfaces: Use stilts on flat surfaces free of holes, pits, obstructions, and other tripping hazards.

Maintenance: Keep stilts properly maintained, and don't alter the original equipment without the manufacturer's approval.

Walking: Take short, deliberate steps, and keep your stilts well apart.

Inspection: Before each use, inspect the stilts for damage, wear, and loose bolts.

STEEL ERECTION

No steel erection will begin without a written Notice to Proceed letter from Metcon, Inc. Project Team.

Workers engaged in steel erection activities to include connecting, bolt up and decking are ***not exempt*** from the project 100% fall protection requirements when working from six feet or greater.

Perimeter safety cable with turn-buckles shall be installed by the steel erector, inspected daily and will remain in place unless otherwise instructed by Metcon, Inc.

Multiple lift rigging assemblies shall be specifically designed for making multiple lifts. Design criteria shall be made available for review by Metcon, Inc.

Work shall be planned such that loads will not be swung over the public or other workers. Steps will be taken as necessary to protect workers below from falling objects.

Subcontractor shall submit a Site-Specific Steel Erector Safety Plan to include fall protection means and rescue plan to Metcon's Safety Director for review and approval prior to being allowed to begin work.

When the steel is being shook out and being placed on edge it must be done on level ground or wood dunnage.

The beams must be spaced so that they cannot "domino" if one gets tipped over.

While the crews are shaking out beams, no other worker can be performing any other work task in that area (i.e. laying out center lines or hooking on to erect)

Danger "Steel Erection in Progress –Do Not Enter" signs shall be posted in work area(s) and supplied by the subcontractors and barricade with either Red Danger flagging or Orange safety fencing.

CONFINED SPACES

1926.21 (b)(6)(ii) A confined space also has limited or restricted means for entry or exit and is not designed for continuous occupancy. Confined spaces include, but are not limited to, tanks, vessels, silos, storage bins, hoppers, vaults, pits, manholes, tunnels, equipment housings, ductwork, pipelines, elevator pits, etc.

OSHA uses the term "permit-required confined space" (permit space) to describe a confined space that has one or more of the following characteristics: contains or has the potential to contain a hazardous atmosphere; contains material that has the potential to engulf an entrant; has walls that converge inward or floors that slope downward and taper into a smaller area which could trap or asphyxiate an entrant; or contains any other recognized safety or health hazard, such as unguarded machinery, exposed live wires, or heat stress.

It shall be the responsibility of the subcontractor to determine if their scope of work on the project entails work in a confined space per OSHA 1926.21 (b)(6)(ii) and ensure to comply with the guidelines set forth and work in conjunction with Metcon's Project Superintendent when scheduling confined space work.

Non-Permit Required Confined Space Entry

All non-permit-confined spaces will have the atmosphere tested and a permit completed and authorized prior to any worker entering the space. The atmosphere will be tested and documented for oxygen deficiency, toxic gases or vapors, and combustible or flammable gases or vapors.

Prior to any worker entering a non-permit confined space, they will be trained in:

- Contents of this procedure.
- Known hazards in the confined space.
- Procedures in the event of an emergency.
- Correct use of personal protective equipment if required.
- Hot Work Permit if required.
- Atmosphere testing requirements.
- Lockout/ Tryout procedures.
- Fall protection if required.

Permit Required Confined Space Entry

The following minimum procedures must be used when any employee or worker will enter any permit required confined space. Permit required confined spaces may include open top spaces more than 4 feet deep, pits, sewers, tanks, silos, vats, bins, tubs, pipes, deep excavations and other similar areas.

Definitions

- *Attendant* means an individual stationed outside one or more permit spaces who monitors the authorized entrants and who performs all attendant's duties assigned in this permit space program.
- *Authorized entrant* means an employee who is authorized by the entry supervisor to enter a permit space.
- *Confined space* means a space that is large enough and so configured that an employee can bodily enter and perform assigned work; and has limited or restricted means for entry or exit and is not designed for continuous employee occupancy.
- *Emergency* means any occurrence (including any failure of hazard control or monitoring equipment) or event internal or external to the permit space that could endanger entrants.
- *Entry* means the action by which a person passes through an opening into a permit-required confined space. Entry includes the work activities in the permit space and is considered to have occurred as soon as any part of the entrant's body breaks the plane of an opening into the space.
- *Entry permit* (permit) means the written or printed document that is completed by the entry supervisor to allow and control entry into a permit space.
- *Entry supervisor* means the person such as the superintendent responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations and for terminating entry as required by this section.
- *Hazardous atmosphere* means an atmosphere that may expose employees to the risk of death, incapacitation, impairment of ability to self-rescue, injury, or acute illness from one or more of the following causes:
 - ✓ Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit (LFL).
 - ✓ Airborne combustible dust as a concentration that meets or exceeds its LFL.

- ✓ Atmospheric oxygen concentration below 19.5 percent or above 23.5 percent.
- ✓ Atmospheric concentration of any substance for which a dose or a permissible exposure limit has been established and which could result in employee exposure in excess of its dose or permissible exposure limit.
- ✓ Any other atmospheric condition that is immediately dangerous to life or health.
- *Isolation* means the process by which a permit space is removed from service and completely protected against the release of energy and material into the space by such means as blanking or blinding; misaligning or removing sections of lines, pipes, or ducts; a double block and bleed system; lockout or tagout of all sources of energy; or blocking or disconnecting all mechanical linkages.
- *Oxygen deficient atmosphere* means an atmosphere containing less than 19.5 percent oxygen by volume.
- *Permit-required confined space* (permit space) means a confined space that has one or more of the following characteristics:
 - ✓ Contains or has a potential to contain a hazardous atmosphere.
 - ✓ Contains a material that has the potential for engulfing an entrant.
 - ✓ Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor, which slopes downward and tapers to a smaller cross-section.
 - ✓ Contains any other recognized serious safety or health hazard.
- *Prohibited condition* means any condition in a permit space that is not allowed by the permit during the period when entry is authorized.
- *Retrieval system* means the equipment (including a retrieval line, chest or full-body harness and a lifting device or anchor) used for non-entry rescue of persons from permit spaces.
- *Testing* means the process by which the hazards that may confront entrants of a permit space are identified and evaluated. Testing includes specifying the tests that are to be performed in the permit space.

Subcontractor shall follow the guidelines per the terms of section 1926.353(b)(1), either general mechanical or local exhaust ventilation meeting the requirements of section 1926.353(a) "shall be provided whenever welding, cutting, or heating is performed in a confined space.

Section 1926.353(b)(1) I welding, heating, or cutting in a confined space, regardless of whether the atmospheric hazard within the space is likely to exceed any particular exposure level. If an employer has not implemented mechanical or local exhaust ventilation when welding, cutting, or heating is performed within a confined space, a serious violation of section 1926.353(b)(1) should be considered unless:

Open ventilation is present, such as when a confined space has a substantial number of openings in its walls to outside the confined space (like a screen or open sections of rebar) or is entirely open on one side but still has limited or restricted means of access and egress.

For example, to access or egress the space, a ladder, ramp, controlled descent device, etc. must be used; and

The employer has conducted air sampling within the confined space where welding, cutting, or heating is being performed and determined that natural ventilation maintains the atmospheric hazard below the threshold limit values in Appendix A to 29 CFR 1926.55.

Confined Space Permit must be filled out and reviewed by the Metcon Construction project team. Once the permit has been approved it will be displayed along with the appropriate "DANGER CONFINED SPACE-DO NOT ENTER" signage at the location of the Confined Space Entry point.

EXCAVATION AND TRENCHING

Prior to any excavation or trenching on this project, the following must be performed:

- The subcontractor must designate a OSHA Competent Person certified in Trenching /Excavation overseeing the safety, work activities, completing the required inspections and documentation while excavation work is ongoing.
- Underground utilities must be located. Underground utility locating authorities must be given the required advance notice.
- The soil classification unless classified by a Registered Engineer is considered TYPE "C." All excavation / trench work shall be in compliance per the OSHA Excavation/Trench required sloping, trench box or shoring requirements. No benching permitted in Type "C" soil.
- An excavation / trench Daily Inspection Permit must be obtained from Metcon's Project Superintendent prior to breaking ground. The Daily Excavation/Trench Inspection Permit can be found in the jobsite office.

During excavation or trenching operations on this project, the following requirements will be followed:

- All trenches and excavations will have as a minimum barricading and appropriate safety signs posted at the work area.
- Trenches or excavations greater than 4-feet in depth will be sloped or use of trench box or shoring system to prevent cave-ins in accordance with OSHA guidelines and as determined by the competent person.
- Spoil piles or other surface encumbrance or materials will be placed a minimum of 2 feet from the edges of all trenches or excavations.
- OSHA required excavation/trench access/egress shall be maintained at all times during trenching or excavating activities. A ladder, ramp or steps shall be used for access and egress into any trench or excavation. Ladders or other means of egress will be placed such that no worker is required to travel more than 25-feet to reach a point of egress from a trench or excavation.
- The competent person shall inspect and supervise excavations and trenches per the OSHA Excavation/Trench Standard.
- When trench boxes are used, workers shall remain inside the trench box. Workers shall not have to exit the trench box for access or egress. Trench Box tabulated data sheet must be onsite and available for review by a Metcon Project Team Member.
- A registered professional engineer must design all excavations over 20 feet in depth. A registered professional engineer must design protective systems for use in excavations more than 20 feet in depth.

TRAFFIC CONTROL

At no time will it be permitted for any delivery truck, concrete truck or vehicle to be staged or unloaded in the roadway or medium.

With prior approval from Metcon's Project Superintendent and the Safety Department, when it becomes necessary to temporarily close a city street or alley, a written traffic control plan is required showing how the closure will occur to be reviewed and approved by DOT. Refer to the Manual of Uniform Traffic Control Devices (MUTCD) Part VI when developing a traffic control plan.

As a minimum, the written Traffic Control Plan will contain:

- Time the street(s) will be required to be closed.
- Detail drawing showing temporary signage, tapers, etc.
- Detail plan detailing detour routes for traffic impacted by the closed streets.
- Signage
- lighting

Flagmen shall be trained as required the Manual Uniform of Traffic Control Devices and carry their certification on their person, wear the approved class three clothing. Subcontractors onsite Competent supervisor shall also be certified as a flagmen or traffic control supervisor. Copy of certifications must be provided to Metcon's Project Superintendent.

HOUSEKEEPING

Project management, supervision, workers, vendors, and third-party persons will maintain all work locations in an orderly and clean manner at all times.

The following are the minimum housekeeping and orderliness requirements for this project:

- Access walkways, roadways, and fire lanes will not be blocked with material, tools, ladders, scaffolds, welding leads, air hoses, or electrical cords.
- Where electrical extension cords, light stringers, air hoses, and welding leads could pose a trip hazard they will be elevated above the work area or walking surface by a minimum of seven (7) feet or marked with a warning sign stating: "**TRIP HAZARD**".
- Shackles, slings, chokers, ladders, and safety equipment will be removed from the work area when not needed and properly stored.
- Trash containers will be placed at appropriate locations including at water coolers.
- All nails will be removed from scrap and form lumbers and swept up daily.
- Rubbish, trash, and debris will be removed from the work area daily.
- No materials shall be stored in temp. Elec. Rooms or in Stairways.
- Work areas shall be cleaned daily. When work is completed in room, all excess materials shall be removed.
- No grout shall be dumped on ground and left.

LOCK-OUT / TAG-OUT 1910.147

Subcontractor Project Management will ensure that workers are not exposed to the hazards from moving machinery or equipment and those hazards posed by any energized sources by implementing this lock-out/tag-out procedure.

Subcontractor shall indicate in their Site-Specific Safety Submittal Job Hazard Analysis work that will require LOTO.

No person will remove another worker's safety lock or attempt to energize any piece of equipment, machinery, or process that has been locked out and tagged.

Subcontractor shall have and provide their written LOTO plan that describes the practices and procedures necessary to disable machinery or equipment to prevent hazardous energy release per the OSHA standard for The Control of Hazardous Energy (Lockout/Tagout) (29 CFR 1910.147). Subcontractors are also required to train each worker to ensure that they know, understand, and are able to follow the applicable provisions of the hazardous energy control procedures:

Proper lockout/tagout (LOTO) practices and procedures safeguard workers from the release of hazardous energy. And plan shall outline specific action and procedures for addressing and controlling hazardous energy during servicing and maintenance of machines and equipment.

All workers who work in an area where energy control procedure(s) are utilized need to be instructed in the purpose and use of the energy control procedure(s), especially prohibition against attempting to restart or reenergize machines or other equipment that are locked or tagged out.

All employees who are authorized to lockout machines or equipment and perform the service and maintenance operations need to be trained in recognition of applicable hazardous energy sources in the workplace, the type and magnitude of energy found in the workplace, and the means and methods of isolating and/or controlling the energy.

ELECTRICAL

Electrical equipment and tools used on this project will be inspected to prevent any worker from receiving an accidental electrical shock. This procedure will apply to all cord sets, portable electrical equipment, tools, and appliances not part of any permanent building or structural electrical systems. The electrical subcontractor shall be responsible for the weekly testing and inspection of all GFCI outlets and shall be documented weekly on a GFCI weekly inspection form. A copy of the inspection form shall be posted on the front panel cover and provided to Metcon's Project Superintendent weekly.

All temporary cords shall be UL tested and labeled, will be three wire types S, ST, SO, or STO with a 14 or greater wire gauge.

All cord sets and cord & plug connected electrical equipment, tools, or appliances that are 120 volts will be connected to a ground fault circuit interrupter (GFCI). No cord set or cord and plug connected electrical equipment, tool, or appliance will be plugged directly into any non-GFCI protected permanent building electrical system. Exemptions are office equipment and appliances in site offices. GFCI protection must also be provided and used when using portable generators and outlets on portable welders.

All electric tools and equipment shall be either grounded or double-insulated. Double-insulated tools shall be appropriately marked.

In addition to the required GFCI protection, subcontractors shall have a written Assured Equipment Grounding Conductor Written Plan that covers all work areas where any employee is exposed to potential electrical hazards from cord sets, receptacles not part of permanent wiring, and equipment connected by cord or plug. Each cord set, attachment cap, plug, and receptacle of cord sets, portable electrical equipment, tools, or appliances connected by a cord and plug, will be visually inspected daily by workers for external damage, such as deformed or missing ground pins, insulation damage, frayed wires, or indications of possible internal damage. Exceptions include cord sets and receptacles that are fixed to the permanent electrical system and are not exposed to damage.

Temporary Electrical Cords Test Schedule and color coding

Each Subcontractor shall inspect their electrical extension cords on a monthly basis. Colored tape shall be utilized to indicate that an electrical extension cord has passed the monthly inspection. The Colored tape will be placed on the plug end of each electrical extension cord according to the chart below. Monthly testing will be conducted on the first day of the month.

The following chart shows testing frequency and colored tape selections.

January:	White
February:	White and yellow
March:	White and blue
April:	Green
May:	Green and yellow
June:	Green and blue
July:	Red
August:	Red and yellow
September:	Red and blue
October:	Orange
November:	Orange and yellow
December:	Orange and blue



(Sample)

Any electrical equipment, tool, appliance, or cord set that is damaged or defective will be immediately removed from service and tagged out as defective equipment.

All required tests will be performed:

- Before the first use
- Before equipment is returned to service following any repairs
- Before equipment is used after any incident that can be reasonably suspected to have caused damage, such as when a cord set is run over
- Every 3 months

The test records will be kept by means of color coding each cord set plug; color coding tape shall be no closer than 1” from the end of the plug end.

Cord sets that cross roadways will be protected with a hard cover from damage by vehicle and equipment traffic.

Light stringers will have the light bulbs protected from accidental contact or breakage. Temp. Lighting shall be inspected daily through-out the building by the electrical subcontractor competent person.

Electrical rooms with energized electrical equipment and energized electrical cabinets will always be kept closed and locked except when attended by a qualified electrician.

Access to these rooms and equipment will be controlled solely by the electrical contractor’s qualified persons. Access by other persons will not be allowed until all equipment is protected to prevent the risk of accidental shock or electrocution. Doors shall have “Warning signs posted” in English and Spanish to warn others to stay out.

Temp. Panel boxes – exterior panel cover shall be labeled with voltage and feed, breakers shall be labeled, and outlets shall be assigned a number that controls which breaker. All temp. panels and GFCI outlets shall be inspected weekly and document on a weekly inspection form affixed to each panel cover by the electrical subcontractor competent person and a copy of the inspection form submitted weekly to Metcon’s Project Superintendent. Temp. Panels shall be affixed with a “Red” Danger Keep Out Electrical Hazard” tag, dated and signed on access panel to prevent unauthorized access.

PRESSURIZATION OF PIPING SYSTEMS

If Subcontractor's work activities involve the pressurization of piping systems, Subcontractor must submit a detailed work plan to Metcon's Safety Department. Detailed work plan must be approved prior to the pressurization of any standard metal piping systems and/or the use of pneumatic plugs. Pneumatic pressure testing on cast iron, fiberglass, plastic, PVC and CPVC piping is prohibited.

Pneumatic or Hydrostatic pressurization over 7lbs. cannot be performed without a plan approved by the Safety Director.

EQUIPMENT AND VEHICLES

Heavy equipment (cranes, forklifts, dump trucks, excavators/back hoes, man-lifts, etc.) used on this project will be inspected prior to use and comply with applicable OSHA and ANSI standards.

Seat belts shall be worn on all equipment with roll-over protective structures.

Equipment that is equipped with a windshield will be free of cracks or other visible damage.

All mobile equipment, dump trucks, concrete trucks must be equipped with highly visual and audible warning equipment.

No equipment or vehicle will be used to transport personnel unless it is specifically designed to do so.

Backing of any equipment of vehicle in a tight, main access area or congested area shall use a designated spotter.

Scissor lift/JLG, forklift and lulls shall have affixed in BOLD, the company name and phone number on either the side or rear of equipment. Owners manuals shall be on all equipment.

Subcontractor is responsible to ensure that all equipment is maintained, tested, and inspected per the manufactures' requirements. Equipment operators are responsible to check and document their equipment daily to verify it is working properly. Minimum inspection items include:

- Brakes.
- Lights.
- Backup alarm.
- Hydraulic systems.
- Steering mechanism.
- Operating controls.
- Mirrors.
- Fire extinguisher.
- Limit switches.
- Leaks.

Equipment operators will possess the required training, certification, and current driver licenses as required by law for the equipment that they are required to operate. All forklift operators shall have a valid operator's license and current driver license, a copy shall be supplied to Metcon's Project Superintendent upon request.

All mobile equipment, air compressor, utility trailers, welding machines, mobile generators shall be properly braked and/or chocked when parked.

When using a scissor lift or JLG lift, the load limits shall not exceed the load limits of the machine per the Owner's manual. 100% tie-off with either a 4ft. lanyard or retractable is required at all time to the appropriate tie off locations inside the lift. The use of additional platforms inside the machine is prohibited. Workers must stand with feet on the bottom of the platform and not on rails or other objects to increase their reach limit. Modification to the equipment must be approved by the manufacture and proof of approval submitted to Metcon's Safety Director for review.

Only certified operators can operate equipment and certification card must be on their person during use of the equipment. When using lifts in areas of foot traffic, doorways or congested areas, the lift work area shall be barricaded with "Red" danger tape.

Subcontractor is responsible to have onsite spill kit and have trained designated employees to respond to a spill event.

Forklifts will be inspected daily prior to initial use and inspection document shall be maintained on the forklift until the end of each day and then provided to Metcon's Project Superintendent. A Daily Forklift Safety Inspection Report form is in the Jobsite office. Spotters will be required in congested areas.

MOBILE CRANES/HOISTS, LIFTING AND SLINGING

Mobile cranes will be operated in strict accordance with OSHA 29 CFR 1926.1400 and 1500 and ANSI B 30.5.

No crane will be brought onto the project without a current annual 3rd party inspection and applicable load charts.

Subcontractor shall provide a site-specific Crane Lifting Plan to include the following items at a minimum:

1. Erection, climbing and dismantling process
2. Crane operators must provide a valid NCCCO, OECP or NCCER certification
3. Rigger/signalman certifications/qualifications
4. Crane operator's evaluation (1926.1427(f))
5. Please note that the NCCCO, OECP or NCCER certifications do not meet this requirement.
6. Inspection process for all equipment and rigging
7. Exclusion zones with hard barricade
8. Maintenance process
9. Identification of Qualified/Competent Persons
10. Lifting Plan & worksheet, decking plan, steel erection plan, sequencing
11. Radius drawing must be submitted identifying all necessary obstructions
12. Process for identifying and working around aerial hazards
13. Signalmen communication
14. Working around energized lines
15. Ground Conditions and Underground hazards
16. Protection of public (not swinging over public right of ways, spotters, etc.)
17. Other trade considerations (not swinging overhead, etc.)

Lift plan shall be reviewed with Contractor, crane operator, rigger, signal person prior to the start of work onsite.

The Rigger and Signal Person may not be the same person and must be separate individuals, each performing the separate responsibilities and tasks.

Subcontractor shall ensure that cranes and lifting equipment are certified for use and are affixed with the required tags by a Qualified/Competent person prior to initial use and annually (at a minimum).

Crane operators will perform daily crane safety inspections. Crane operators are to turn the Daily Crane Safety Checklist into their supervisor daily.

All cranes will be equipped with anti-two block devices. Hooks will be equipped with safety latches.

Supervision will designate a qualified person to monitor all rigging. All rigging will be inspected daily and before each shift. The Daily Rigging Safety Inspection Checklist form can be found in the jobsite office trailer.

The crane manufacturer's operating manual, instructions and load charts shall be located inside the cab at all times, hand signals shall post outside of crane cab.

The ground where the crane will be setup must be solid and able to support the weight of the loaded crane. Determine if underground utilities exist near where the crane will be set up.

Cranes will be set up level with outriggers fully extended or set per the manufacturer's recommendation for a particular lift configuration. All tires should be clear of the ground.

Cribbing or mats under outrigger pads should be of sufficient size and properly placed to ensure adequate soil bearing. **The rule for cribbage is if the crane has five outriggers divide the tonnage of crane by five for the total square footage of cribbage. If the crane has four outriggers then divide the crane tonnage by four.**

The entire swing radius of the rear rotating superstructure of all cranes must be barricaded to prevent crushing injuries. Cranes that will be positioned in one area for a long duration will be required to use a durable, hard/solid type barricade.

Before a lift, determine the load weight and load capacity. Crane capacity charts are the ideal gross capacity of the crane at certain boom lengths, boom angles, and load radius from the crane center pin.

- Deductions to the net capacity should be made per manufacturer's load chart or operating manual for attachments such as jibs (stowed or attached), headache balls, wind, etc. to determine the load that can be safely lifted.
- Additional deductions to the net capacity are the weight of the cranes load block, rigging, and amount of load line required to make the lift. Some manufacturers include the load line in their load charts, but others do not.

A designated qualified person will determine the load weight. Refer to the shipping weight or have the equipment or machinery assembly weighed. Calculate all structural loads and determine the center of gravity.

Determine the radius from the center pin of the crane to the load using a steel tape. **This is required for near capacity lifts.**

Determine the boom length, counterweight, and crane configuration to determine the correct load chart required.

Position the hook over the "Center of Gravity" of the load before starting the lift.

Position the crane so there is a minimum swing and load path clearance of two feet. Cranes and their loads shall not be operated within 10 feet of electrical lines rated less than 50 kilovolts. Increased clearance is required for higher voltage lines. When working near electrical sources (overhead lines or lighting), the crane should be grounded.

Crane operators are to know the weight of the load they are lifting.

Anti-collision systems must be fitted on all cranes for projects with multiple cranes in use.

Where there is potential for the crane to contact an adjacent structure, or where there is potential to over sail public areas, sensitive environmental areas, or electrical power sources, the crane shall also have zone control.

All cranes shall have an external warning light that goes into alarm any time the anti-collision or zone controls are disabled.

At no time while the crane is in operation may any of these systems be disengaged or made non-functional.

Critical Lift Criteria

Critical lifts with mobile cranes can be extremely hazardous and require special care and attention. Before attempting lifts in this category, the project manager or superintendent must verify that a properly documented lift plan is prepared by a qualified person. The crane must be provided with a wind anemometer (or access to site wind speed indicator). The weight of the lifted object is verified prior to a critical lift. Critical lifts include at least one of the following criteria:

Any lift exceeding 75% of the machine's maximum chart capacity at the specified lifting radius

- Lifts where loads must be maneuvered over existing facilities or where the boom or load does not maintain a minimum safe distance to objects as required by code and operating conditions at any stage during the lift operation
- Lifts that require unusual or complicated rigging and/or nonstandard crane configurations
- Lifts performed on undesirable ground conditions or during adverse weather conditions
- Lifts where cranes operate from barges
- Lift that consist of any "Blind Picks"
- All lifts requiring the coordination of multiple (2 or more) cranes working in unison
- Any lift involving two cranes lifting the same load simultaneously where the load on any one crane during its entire lift operation may exceed more than 75% of that crane's lifting capacity as measured on the lifting chart
- All lifts where a crane must travel with a suspended load above 50% of the crane's capacity
- Lifts the Metcon Superintendent, the Lift Supervisor, the Crane Supervisor or the Crane Operator believes should be critical
- Hoisting personnel (with a crane)
- Lifts where the center of gravity could change
- Lifts using more than one hoist-line on the same crane
- Lifts involving non-routine or technically complex rigging/rigging methods. (See also USACE EM 385-1-1 "Critical Lifts" where applicable).

TOWER CRANES

Tower Crane requirements below are in addition to Metcon's MOBILE CRANES/HOISTS, LIFTING AND SLINGING Section when necessary.

All sections of this subpart apply and shall be adhered to tower cranes unless specified otherwise noted., Cranes & Derricks in Construction- 1926.1435

A written site-specific erection plan shall be submitted to include lift plan, set-up, dismantle, fall protection, rigging, etc. shall be submitted to the Safety Director for review/approval prior to starting work.

All tower cranes and temporary (not permanently integrated into the structure) construction elevator/hoist, must have a third-party inspector to review, and certify the tower crane and/or elevator hoist prior to use.

All tower cranes and hoists with tie-back struts must have all welds on the tie-back struts inspected and certified by a third-party AWI certified inspector prior to use. If visual inspection results in any reasonable concern about the welds or structural integrity of the assembly, ultrasonic, radiographic

or another accepted method for evaluating welds or an engineered analysis and stamped report will be required to be performed and made available for review if requested. Similarly, all tower crane and hoist bases, except those cast into the foundation - which is the preferred method, shall have all exposed welds inspected and certified by a third party AWI certified inspector prior to use. All welding certifications shall be in writing and made available promptly for review if requested.

All tower cranes shall have a third-party inspection every three (3) months and after every addition. Tower cranes must be fitted with a zone control device that automatically prevents the trolley from overflying restricted areas including, without limitation, occupied buildings, public streets, sidewalks, electrical lines and other areas identified as restricted by Metcon.

Anti-collision systems must be fitted on all cranes for projects with multiple tower cranes in use.

Where there is potential for the crane to contact an adjacent structure, or where there is potential to over sail public areas, sensitive environmental areas, or electrical power sources, the crane shall also have zone control.

All cranes shall have an external warning light that goes into alarm any time the anti-collision or zone controls are disabled.

At no time while the crane is in operation may any of these systems be disengaged or made non-functional.

All Riggers/Signal Persons shall be uniquely identified from afar (e.g. from the operator cab in a tower crane) to differentiate them from other workers. The signal person must be equipped with an audible warning device that alerts others when loads are overhead.

1926.1435(c)

Signs. The size and location of signs installed on tower cranes must be in accordance with manufacturer specifications. Where these are unavailable, a registered professional engineer familiar with the type of equipment involved must approve in writing the size and location of any signs.

1926.1435(b)(1)

Section 1926.1403 (Assembly/Disassembly--selection of manufacturer or employer procedures), § 1926.1404 (Assembly/Disassembly--general requirements (applies to all assembly and disassembly operations)), § 1926.1405 (Disassembly--additional requirements for dismantling of booms and jibs (applies to both the use of manufacturer procedures and employer procedures)), and § 1926.1406 (Assembly/Disassembly--employer procedures--general requirements), apply to tower cranes (except as otherwise specified), except that the term "assembly/disassembly" is replaced by "erecting, climbing and dismantling," and the term "disassembly" is replaced by "dismantling."

DEMOLITION

Prior to start of any demolition work, an engineering survey of the building or area to be demolished is required to determine the condition of the area. No work will commence until this engineering survey has been completed.

A written site-specific demolition and fall protection plan shall be submitted to Metcon's Safety Director for review and approval prior to beginning work.

Debris and material shall not be dropped through walls, floor holes, windows, or other elevated work areas without the consent of Metcon's Project Superintendent.

Debris chutes shall be in accordance with the OSHA guidelines and have a substantial gate at all elevated openings.

Demolition activities shall follow OSHA 29 CFR 1926 Subpart T rules.

Prior to any demolition, all utilities shall be confirmed and disconnected using LOTO.

ASBESTOS

Subcontractor shall comply with the OSHA standard 1926.1101

A site-specific Asbestos Written Safety Plan shall be submitted for review and approved by Metcon's Safety Director.

1926.1101(e)(5)

Prohibited activities. The employer shall ensure that employees do not eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the regulated area.

1926.1101(k)(7)(i) -Signage

Warning signs that demarcate the regulated area shall be provided and displayed at each location where a regulated area is required to be established by paragraph (e) of this section. Signs shall be posted at such a distance from such a location that an employee may read the signs and take necessary protective steps before entering the area marked by the signs.

1926.1101(k)(7)(ii)(A)

The warning signs required by paragraph (k)(7) of this section shall bear the following information.

DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY

Training

1926.1101(k)(9)(iv)(A)

For work with asbestos containing roofing materials, flooring materials, siding materials, ceiling tiles, or transite panels, training shall include at a minimum all the elements included in paragraph (k)(9)(viii) of this section and in addition, the specific work practices and engineering controls set forth in paragraph (g) of this section which specifically relate to that category. Such course shall include "hands-on" training and shall take at least 8 hours.

SILICA

Construction employers must comply with all requirements of the standard. Workers that perform any of the following work tasks will be protected from exposure to silica dust:

- Abrasive blasting using silica sand as a blasting medium.
- Abrasive blasting of concrete regardless of the type of medium.
- Sawing, hammering, drilling, grinding, or chipping of concrete or masonry products.
- Chipping, hammering, or mixing of concrete grout.

- Demolition of concrete or masonry structures.
- Dry sweeping or compressed air blowing of concrete, masonry, rock, or sand dust.

Subcontractor shall provide their written Silica exposure control plan that identifies tasks that involve exposure and methods used to protect workers, including procedures to restrict access to work areas where high exposures may occur.

Designate a competent person to implement the written exposure control plan. Restrict housekeeping practices that expose workers to silica where feasible alternatives are available.

Employers who follow Table 1 correctly are not required to measure workers' exposure to silica and are not subject to the PEL.

Alternative exposure control methods Employers who do not use control methods in Table 1 must:

- Measure the amount of silica that workers are exposed to if it may be at or above an action level of 25 µg/m³ (micrograms of silica per cubic meter of air), averaged over an eight hour day.
- Protect workers from respirable crystalline silica exposures above the permissible exposure limit of 50 µg/m³, averaged over an eight-hour day.
- Use dust controls to protect workers from silica exposures above the PEL.
- Provide respirators to workers when dust controls cannot limit exposures to the PEL.

Workers exposed to silica dust shall have had received training on silica hazards and protection methods and their company written Silica Program and Procedures

Acceptable engineering controls will be used when exposure to silica is likely.

Examples of acceptable engineering controls are:

- Substitute blasting medium for less hazardous material with less than 1% silica.
- Maintain an effective dust control program.
- Use dust collection systems with grinders.
- Use wet saw systems.
- Use wet drill systems.

Regardless of which exposure control method is used, all subcontractors covered by the standard are required to:

- have a written exposure control plan that identifies tasks that involve exposure and methods used to protect workers, including procedures to restrict access to work areas where high exposures may occur.

Restrict housekeeping practices that expose workers to silica where feasible alternatives are available.

Workers shall have been trained on work operations that result in silica exposure and ways to limit exposure.

Freestanding masonry walls over 8 feet in height will be adequately braced to prevent overturning. Limited access zones will be established as required by OSHA to protect workers from the hazards associated with collapsing masonry walls.

All reinforcing steel and other similar projections that present an impalement hazard will be protected. Protection shall be provided with an approved rebar cap. **(NO MUSHROOM CAPS PERMITTED)** Aluminum bull-float handles are not allowed on this project. Fiberglass or other non-conductive material handles must be used.

Metal Curb Pins used with forms shall be protected with approved rebar cap. No mushroom head pins are allowed to be used.

Masonry saws work areas shall be kept clean and excess water removed.

Rotating masonry finishing equipment shall be equipped with an automatic cut off switch when employees hand is removed from handle.

Pre-Cast Concrete

A competent person must be designated to be responsible for the inspection of all rigging and hardware and the supervision of the rigging of precast concrete members.

Pre-cast members are not to be moved over other workers.

Worker(s) involved in the setting or connection of precast members will strictly adhere to the 100% fall protection policy with no exception.

No worker(s) will use their hands to reach under a precast member to adjust a shim or bearing pad.

HEAT ILLNESS PREVENTION

Work involving high air temperature, radiant heat sources, high humidity, direct physical contact with hot objects or strenuous physical activities have a high potential for inducing heat stress in workers engaged in construction activities.

Workers are required to be trained on the heat related dangers and how to prevent them per the OSHA guidelines.

When the Heat Index is expected to meet or exceed 91 degrees, Subcontractors of every tier must have a Heat Illness Prevention Plan that complies with OSHA's Nationwide Heat Illness Prevention Campaign.

Age, weight, degree of physical fitness, degree of acclimatization, metabolism, use of alcohol or drugs and a variety of medical conditions such as hypertension all affect a worker's sensitivity to heat. Even the type of clothing the worker wears must be considered. Prior heat injury predisposes a worker to additional injury.

It is difficult to predict just who will be affected and when, because a worker's susceptibility varies. Environmental factors include more than ambient air temperature. Radiant heat, air movement, conduction and relative humidity all affect a worker's response to heat.

Workers should consume adequate liquids and take necessary rest breaks to help prevent heat disorders. It is recommended that water be consumed rather than carbonated beverages or sport drinks like Gatorade. These beverages can dehydrate a worker because of the sugars and other ingredients contained in the beverage.

At a minimum the Subcontractor's Heat Illness Prevention Plan must include:

- Training - Recognizing the symptoms of Heat Stress, Heat Exhaustion and Heat Stroke
- Measuring and documenting outdoor temperatures
- Wearing appropriate work clothing
- Supplying adequate, clean, cool, potable drinking water
- Encouraging workers to replenish fluids frequently
- Means or provisions for adequate shade
- Permitting and encouraging cool-down rest periods
- Scheduling of work
 - Less demanding work activities during the warmest times
 - Split shifts
 - Start work shifts earlier in the day
 - Rotate workers through less demanding work
 - Shorten work shifts or stop work altogether

- Acclimatization - Defined as: A physical change that builds tolerance to the heat, can be done by gradually increasing workload for new and returning workers- and for everyone during a heat wave.
- Means of communication between Supervisors and workers
- Monitoring for signs and symptoms of heat illness
- Emergency Response Procedures

If the subcontractor's company Heat Illness policy is more stringent than the minimum requirement set forth by these Heat Stress Prevention requirements, as applicable, subcontractors shall follow its policy.

Heat Disorders and Health Effects

Heat Stroke: Occurs when the body's system of temperature regulation falls and body temperature rises to critical levels. **HEAT STROKE IS A MEDICAL EMERGENCY. DO NOT SEND THE WORKER HOME OR LEAVE UNATTENDED.**

PRIMARY SIGNS AND SYMPTOMS:	
Confusion	Convulsions
Irrational Behavior	Lack of Sweating
Loss of Conscious	Hot dry skin

Heat Exhaustion: Symptoms often are nonspecific and may be sudden in onset; these symptoms often resemble a viral illness. It is caused from dehydration where a large loss of body fluid causes a slowing of the circulatory system. REMOVE FROM HEAT, GIVE FLUIDS, AND ADEQUATE REST.

Primary signs and symptoms:	
Fainting	Weakness
Headache	Thirst
Nausea	Giddiness
Vertigo	

Heat Cramps: Usually caused by performing hard physical labor in a hot environment. They are caused from an electrolyte imbalance caused from sweating. Cramps can be caused by too little or too much salt. ADMINISTER WATER OR A COMMERCIAL CARBOHYDRATE-ELECTROLYTE REPLACEMENT LIQUID EVERY 15 TO 20 MINUTES.

LASERS

Precautions will be taken to ensure all workers that will use a laser are trained in proper use and the hazards associated with lasers. Each worker is to be issued a qualification card, which must be carried by the worker and available upon request by Metcon, Inc. No worker will install, adjust or operate any laser equipment without a valid qualification card. Laser manual shall be maintained with laser and available onsite when laser is in use.

Standard laser warning signs will be placed around the perimeter of the area the laser is being used.

No laser equipment will be used that does not contain a label, indicating make, maximum output and beam spread and equipment manual.

No laser beam will be directed at any worker. Whenever a laser is not in use, shudders or caps will be used and the laser turned off.

BLASTING (EXPLOSIVES)

General Information that should be contained in EVERY SSHP (Part 1)

Cover sheet should include

- Project Name and address
- Name and address of the Contractor
- Date created

Name of Designated Safety Person

- Copy of Certifications
 - OSHA 10 Hour for Construction (w/in the past 7 years)
 - Current First Aid & CPR certifications
 - Other applicable and required scope related certifications such as forklift training, rigging, fall protection, power actuated tools, etc.

Name, address and map to local medical facilities (Hospital, Occupational Clinic)

Emergency Action Plan

- Direct dial information for local Emergency Responders
 - Medical
 - Fire
 - Police
- Name and contact information for Subcontractor Site Representative and Upper Management
- Evacuation Procedures - Notification, Routes (Primary and Secondary), Assembly Areas/Rally Points (Primary and Secondary)
- Roll call sign in sheet

Name and Contact information of the person who created the SSHP

Additional Requirements depending on a subcontractor's scope of work (Part 2)

Insurance Requirements for Blasting Operations

Consult with Risk Management (Jennifer Martin or Evan Hamilton)

Document (photograph) pre-existing conditions

Cracks in concrete or asphalt paving
Nearby structures (community outreach to nearby neighborhoods/businesses)
Broken windows Etc.

Site PPE Requirements (All Personnel working or accessing project)

100% - Hardhats, Eye protection, Hi-Vis Safety vests / Safety T's, Footwear, etc.

Meetings

Documented Daily Pre-Task Meetings with blasting crew members and as conditions change

Blasting Permit

Copy of the Permit provided to Metcon
State Blasting License (check per State requirements)
DOT & Federal Railroad Commission (SH & Railroad proximity)

Blasting Hours

Blasting operations shall only be conducted between sunup and sundown.

Blaster Qualifications

Qualified by training, knowledge, and experience in the field of transporting, storing, handling for each type of blasting method used.

Has knowledge of state and local laws and regulations.

Storage of Explosives and Blasting Agents

Explosives and related materials shall be stored in facilities in compliance with the Bureau of Alcohol, Tabaco and Firearms,

Blasting caps, electric blasting caps, detonating primers and primed charges shall not be stored in the same magazine with explosives or blasting agents

No smoking or open flames within 50 feet of explosive or detonator storage magazine. Signs must be posted.

Contractor must have a means for maintaining an inventory and use record of all explosives.

Loading

The blasting contractor shall notify the follow (when applicable)

- Fire Department
- Utilities (above and below ground)
- Business and Home Owners

Material and Equipment

The blasting contractor will provide the following materials and equipment:

- Stemming Materials
- Proper and adequate Warning signage
- Proper and adequate Warning signals
- Seismic Testing
- Fire Extinguishers
- Blasting shelter

Shot Design

Shot area is posted and secured

Shot area is diagramed

Process of Drilling and Loading Holes

Tools and equipment that will be used

No vehicles permitted within 50 feet of loaded holes

Security Measures and Detonation Procedures

Blasting Contractor must set up Checkpoints at each project access.

Means of communication between Blaster and Checkpoints

Flagmen and Traffic Control

Pre-Detonation Warning signal

Inspection procedures post-blast inspection procedures

Misfire Procedures

All-Clear signal

BLOODBORNE PATHOGENS

General Requirements

1. When dealing with blood or other bodily fluids, Subcontractor is required to follow Universal Precautions.
2. According to the concept of Universal Precautions, all human blood and other human body fluids are treated as if known to be infectious for HIV, Hepatitis B, and other blood borne pathogens.
3. All Subcontractors are required to make available to their employees rubber gloves rated at 5 microns or less and resuscitation masks.
4. All Subcontractors certified first aid providers are required to wear disposable latex gloves and eye protection while performing first aid on an injured individual.
5. If rescue breathing or CPR is performed, the Subcontractor for the protection of the injured and the provider shall provide a resuscitation mask.
6. All blood spills shall be immediately contained and outside emergency services consulted for cleanup.
7. Any material saturated with blood shall be considered Regulated Waste. This means liquid or semi-liquid blood or other potentially infectious materials; contaminated items that would release blood or other potentially infectious materials in a liquid or semi-liquid state if compressed; and items that are caked with dried blood or other potentially infectious materials. Discarded Band-Aids and gauze containing small amounts of blood products are not considered regulated waste.
8. Disposal of all regulated waste shall be the responsibility of emergency medical personnel or the Subcontractor of the injured worker.

Training

At least one of each Subcontractor's onsite personnel shall be trained in First Aid and CPR, and they shall also be trained in the decontamination of blood spills. Subcontractors are solely responsible for this training.

RAILROAD TRACK SAFETY

Reference the U.S. Department of Transportation Federal Railroad Administration (FRA) and North Carolina Railroad Company and North Carolina Department of Transportation policies and procedures when working on or around railroad tracks.

Subcontractor Safety and Health procedures must identify:

- Location of the blue and white Emergency Notification System (ENS) sign at the grade crossing and identify the Railroads emergency contact number and crossing inventory number.
- Notification of railroad first when excavating near tracks.
- Notification to railroad before construction begins are on the railroad right of way (ROW) (25-33' from centerline or more can be ROW) or any time working within 25' from outer rail.
- Never operate a buck or boom truck closer than 25' from outer rail or swing the boom over the rail without authority from railroad and trained/qualified railroad flaggers. When your roadway work is within 25' of the outer rail, you MUST seek authority to perform your work from the operating

- railroad. The railroad will likely require one or more railroad trained/qualified flaggers to be present during any work performed.
- While a train is passing work, equipment, and machinery, within 25' of the outer rail, will stop. Don't turn your back on trains. Watch from a safe distance (15' or more away) as trains may have freight or strapping dragging.
- Don't put yourself between equipment buildings, ditches, walls, and railroad tracks.
- No wires or any other items over the tracks until railroad gives you authority.
- Notify railroad immediately if any machinery or equipment becomes stuck on railroad tracks.

Safety procedures shall be approved by a Metcon Safety Manager.

MOLD CONTROL

Necessary steps will be taken to control the formation of mold from occurring in the work and storage areas. Mold will occur when there is water and a source of food (i.e. wall board, wood, and other building material).

Work will be planned to:

- Prevent moisture accumulation
 - Double check points where moisture may enter
 - Doors
 - Windows
 - Flashings and caulking
 - Waterproof membranes (proper lapping at joints and corners)
 - Roofing systems and penetrations
- Properly store material
 - Dry location
 - Off the ground
 - Loose tarps or sheets to allow air flow
- Have drying equipment readily available
 - Fans
 - Dehumidifiers
 - Wet-dry vacuum

If mold is observed, work will not continue in the area. Notify Metcon's Superintendent immediately. Metcon's Project Superintendent will advise when work can resume after an evaluation of the exposure and developed an abatement plan.

ENVIRONMENTAL

Metcon, Inc. subcontractors, vendors, and third parties will comply with all applicable federal, state, and local environmental laws and regulations. Work will be planned accordingly to prevent potential environmental impact from its operations and activities.

EROSION CONTROL & WETLANDS

Erosion & Sedimentation

Erosion and sedimentation from site drainage and run-off, especially around streams, lakes, ponds or wetland areas will be controlled. Drainage and run-off from temporary roads, parking areas, lay-down areas, de-watering and final grading activities at the end of construction will be controlled.

All permits that may be required will be obtained before work will begin. Silt fencing will be inspected daily and damaged fencing repaired immediately. Damaged silt fencing will be documented and reported to Metcon's Project Superintendent.

Wetlands

Metcon, or subcontractors will be responsible for ensuring all permits from the Army Corps of Engineers have been acquired when disturbing wetland areas. There are several factors that define what constitutes a wetland area. These factors include soil type and the presence of flora (plant life) and/or fauna (animal life) typically indigenous to wetland areas.

HAZARDOUS MATERIALS & WASTE

Hazardous Materials

Metcon, and subcontractors will comply with all laws governing the storage, handling, and disposal of Hazardous Materials and Waste.

When the storage, handling, or disposal of hazardous material occurs:

- Have a copy of the Safety Data Sheet (SDS) for each hazardous material at the project on-site office.
- Develop a written Emergency Response Procedure for accidental discharge or spills. Each subcontractor will develop and provided in their Site-Specific Safety submittal.
- Train each worker how to properly store, handle and dispose of hazardous materials. Additional training will be conducted for accidental discharge and spill response.
- Sufficient spill kits must be available at each location that hazardous material is stored or handled.
- Fueling areas will meet OSHA and all other applicable laws and regulations.

Steps must be taken to ensure that chemicals and chemical based products that are classified as hazardous materials are properly stored, used and disposed of. Examples are:

- Paints (varnish, shellac, lacquers, urethanes, stains, etc.)
- Oils
- Greases
- Solvents and solvent-based cleaning fluids
- Acids
- Caustics
- Wood preservatives
- Metal corrosion inhibitors

Workers that will handle hazardous solid waste materials that pose environmental, health and safety risks, such as asbestos, PCB's and mercury will be certified to handle and remove these types of hazardous materials.

Aerosols

All aerosol cans, including spray paint cans need to be collected in a designated aerosol waste container for recycling. Under no circumstances are aerosol cans to be disposed of in the waste dumpsters.

Non-Hazardous Materials

A Waste Management Plan will be developed detailing how the waste will be prevented and to reduce the amount of waste being directed to landfills.

Metcon, Inc. and subcontractors will:

- Determine what waste can be recycled in the local market.
- Provide sufficient recycling containers in the work area.

- Train workers of the Waste Management Plan.
- If waste must be sorted at the jobsite, correctly identify the recycling containers in English and Spanish.

Contaminated Soil or Groundwater

Contaminated soil and groundwater will be quickly identified to prevent environmental problems, as well as potential health and safety problems.

Concrete

The effluent from washing out concrete trucks poses an environmental threat, especially near streams, lakes, ponds or wetland areas. The discharging of waste concrete on the site constitutes solid waste disposal and it must be determined if a permit is required. A concrete washout station must be used for any trucks washing out on site or the washout must not be done on site.

MACHINERY AND EQUIPMENT

No service or maintenance on machinery or equipment will be performed without the prior approval of Metcon's Project Superintendent. All oil or fuel spills will be investigated and reported immediately to Metcon, Inc.

Machinery or equipment that is not in good working order is to be removed from the project immediately.

Equipment shall not be degreased on site using large quantities of solvents or cleaning materials.

Equipment shall be secured each night and weekends.

Spill kits shall be onsite, and operators shall know of the location of kit.

Equipment cabs shall be clean, fire extinguisher must have a current annual inspection and inspected monthly.

Cab glass and mirrors shall be clean daily.

Backup alarms shall be working and audible per OSHA guidelines. Subcontractors onsite competent person shall monitor alarm noise level to ensure its audible when working near other equipment.

Daily earth moving equipment inspections form are to be completed and turned into Metcon's Project Superintendent weekly.

INDOOR/OUTDOOR AIR QUALITY

Indoor Air Quality

All necessary steps will be taken to eliminate harmful emissions to the air. This includes; second hand smoke, exhaust from combustible engines, mold and refrigerants.

This project has a "no smoking" policy inside all office building and storage areas.

Work is to be closely monitored to ensure prevention of mold. All water damage, leaks or water intrusion is to be reported to Metcon's Project Superintendent immediately.

Dust Control

Metcon considers blowing dust as a form of erosion or may contain silica dust and therefore must use a HEPA vac. or sweeping compound to control dust within their work area.

ENDANGERED SPECIES

All laws and regulations will be followed when work operations may border or contain endangered species.

All workers will be trained about the animals and take the necessary steps to minimize the impact on them and their habitat. All hazardous material and fuel storage will be a safe distance from these designated areas.

CORONAVIRUS – COVID-19 AWARENESS AND PRECAUTIONS

Know how it spreads

- There is currently no vaccine to prevent coronavirus disease 2019 (COVID-19).
- **The best way to prevent illness is to avoid being exposed to this virus.**
- The virus is thought to [spread mainly from person-to-person](#).
 - Between people who are in close contact with one another (within about 6 feet).
 - Through respiratory droplets produced when an infected person coughs, sneezes or talks.
 - These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.
 - Some recent studies have suggested that COVID-19 may be spread by people who are not showing symptoms.

Wash your hands often

- [Wash your hands](#) often with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, or sneezing.
- If soap and water are not readily available, **use a hand sanitizer that contains at least 60% alcohol**. Cover all surfaces of your hands and rub them together until they feel dry.
- **Avoid touching your eyes, nose, and mouth** with unwashed hands.

Avoid close contact

- **Avoid close contact** with people who are sick. Maintain 6ft distance from others.
- Put **distance between yourself and other people**.
 - Remember that some people without symptoms may be able to spread virus.
 - Keeping distance from others is especially important for [people who are at higher risk of getting very sick](#).

Cover your mouth and nose with a cloth face cover when around others

- You could spread COVID-19 to others even if you do not feel sick.
- Everyone should wear a [cloth face cover](#) when they have to go out in public, for example to the grocery store or to pick up other necessities.
 - Cloth face coverings should not be placed on young children under age 2, anyone who has trouble breathing, or is unconscious, incapacitated or otherwise unable to remove the mask without assistance.
- The cloth face cover is meant to protect other people in case you are infected.
- Do NOT use a facemask meant for a healthcare worker.
- Continue to keep about 6 feet between yourself and others. The cloth face cover is not a substitute for social distancing.

Cover coughs and sneezes

- **If you are in a private setting and do not have on your cloth face covering, remember to always cover your mouth and nose** with a tissue when you cough or sneeze or use the inside of your elbow.
- **Throw used tissues** in the trash.
- Immediately **wash your hands** with soap and water for at least 20 seconds. If soap and water are not readily available, clean your hands with a hand sanitizer that contains at least 60% alcohol.

Clean and disinfect

- **Clean AND disinfect [frequently touched surfaces](#) daily.** This includes tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets, and sinks.
- **If surfaces are dirty, clean them.** Use detergent or soap and water prior to disinfection.
- **Then, use a household disinfectant..**

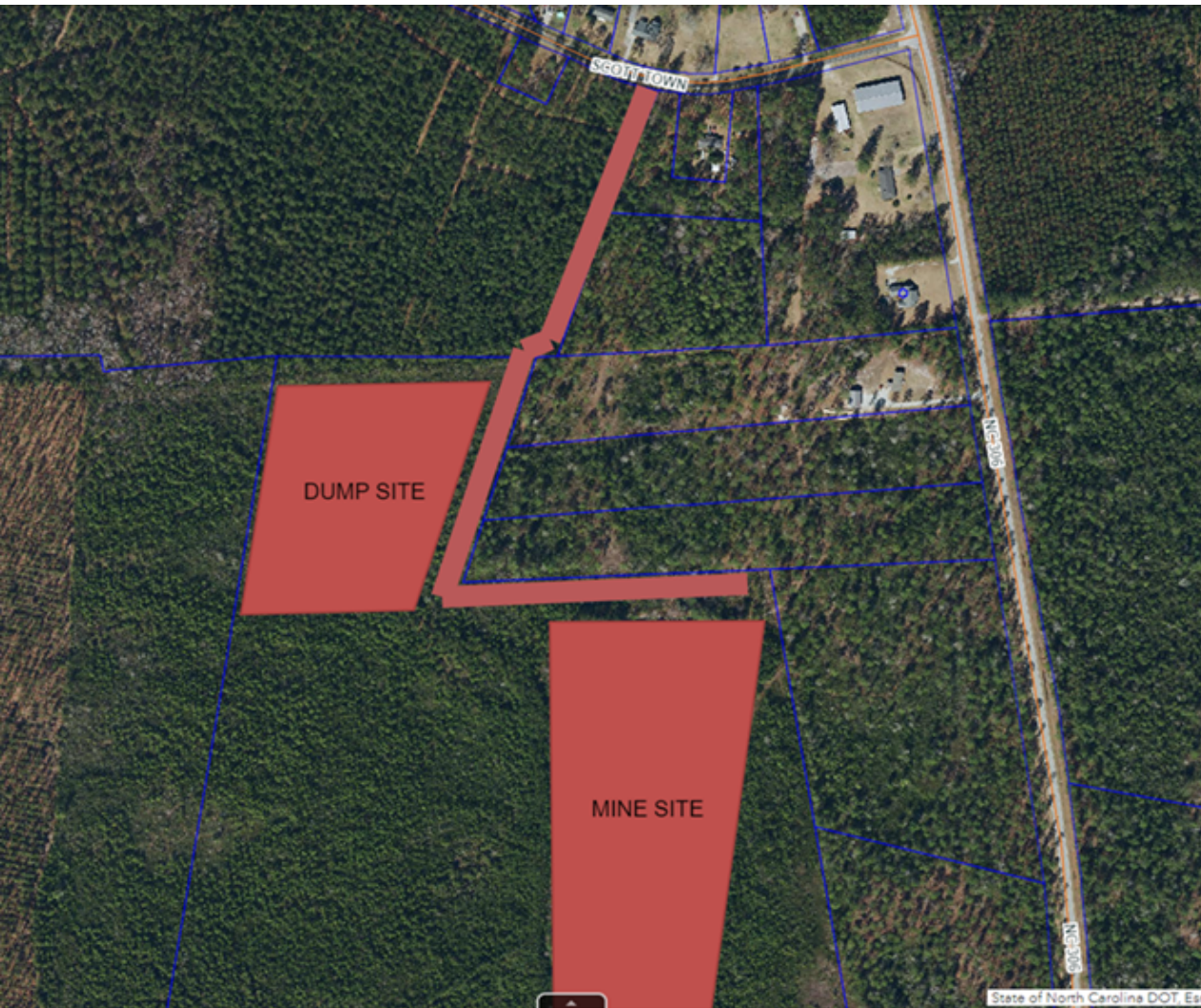
Steps to help prevent the spread of COVID-19 if you are sick per the CDC Guidelines

If any worker has or called in a fever, cough, or other symptoms, please have worker stay at home and follow the CDC' guidelines.

Immediately notify Metcon's Project Superintendent if anyone reports feeling sick or caring for a family member who has tested positive for the COVID-19 virus.

Workers will not be permitted back onsite until the CDC's Return to Work guidelines have been followed and the Subcontractor has submitted an "All Clear" letter before they can return.

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Corey Harrison Construction has a dump and mine site willing to accept asphalt, concrete, brick, and metal. No hazardous materials. Corey is willing to allow the successful demo bidder to bring demo material to his property where the demo contractor will have time to separate material from acceptable material and material needing to go to the local landfills. Corey will require the demo contractor to obtain the solid waste permit and pay the permitting fees of **\$6875**.

The property's access is at:

155 Scott Town Rd, New Bern, NC 28560.

(Approximately 7 miles from Pamlico County High School and directly off Hwy 306.)

The access road is currently being built, and the mining permit is in process. Access is shown in red. Dump site and mine marked.

Feel free to contact Corey Harrison to discuss details further.

coreyharrisonconstruction@gmail.com

Cell 252-571-6090

**BID PACKAGE #0150
GENERAL TRADES
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **GENERAL TRADES**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
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38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- Executed the partnership form for the subcontractor safety and health incident prevention program.
 - Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - Provide OSHA 300 & 300A logs for the last three years.
 - A written hazard communication program safety data sheet (SDS)
 - A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - A written ground fault protection program.
 - Exhibit J3 returned with pages initialed.
 - All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
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41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Provide one full-time supervisor for the duration of job site hours. Required to be:
 - a. Certified forklift operator.
 - b. Required for 24 months.
 - c. OSHA 30 Certified and considered the general trades competent person.
 - d. English speaking.
 - e. This supervisor should be separate and apart from all other labor hours.
2. Personnel Utilization Manhour pool:
 - a. 5 unskilled workers for 24 months, 5 days a week, 10 hours a day. To be used at the discretion of the CM, not for specific tasks called out below.
 - b. 2 skilled workers for 5 days a week, 10 hours a day. To be used at the discretion of the CM, not for specific tasks called out below.
 - i. The subcontractor shall provide personnel to be utilized at the Construction Manager's sole discretion.
 - ii. Upon award, a schedule of values and rates must be provided for cost tracking and the valuation of any potential ADD or DEDUCT Change Orders.
 - iii. Provide the CM with a biweekly report tracking manpower usage as agreed upon in this contract. This manpower tracking should be correlated weekly between the subcontractor and the CM.
3. Machinery and Equipment:
 - a. Provide all fuel and maintenance necessary.
 - b. Forklift – 18 months, all-terrain, capable of booming out and reaching a minimum of 135’
 - c. Scissor lift – 18 months, all-terrain, capable of lifting over 2 stories.
 - d. Lawn Mower (Riding) – 24 months.
 - e. Weed Trimmer – 24 months.
 - f. Pressure Washer – 24 months
4. Cleaning Equipment and Materials:
 - a. Provide all required cleaning equipment and materials, including push brooms, sweeping compound, pressure washer, squeegees, rakes, trash bags, flat dirt shovels, wet/dry shop vacs, etc. Provide enough hand tools to accommodate the number of workers using them.
5. Temporary Toilets:
 - a. Provide and maintain enough temporary toilets to service the entire site and workforce.
 - b. Supply at least 1 temporary toilet trailer with a minimum of 3 stalls and enough porta-potties for the number of men and women on site.
6. Grass Cutting:
 - a. Perform grass cutting biweekly or as directed by CM. This work is separate from the general labor hour pool.
7. Trash Containers:

- a. Provide and maintain 20 each 55-gallon trash containers with covers, to be located throughout the building and site as directed by CM. Containers to be emptied daily into a construction dumpster.
8. Trash Hoppers:
- a. Provide 4 trash hoppers with forklift lifting capabilities, to be emptied twice a week to allow easy maneuvering of trash from the building to the dumpsters.
9. Dust Control:
- a. Provide dust control while sweeping using wax-based dust-down material. Use dust-down material when sweeping any floor surface within the building's inside perimeter. Provide sweeping compound, wax-based green, delivered bi-weekly upon request.
10. Allowance for Miscellaneous Materials:
- a. Include an allowance of \$25,000 for the purchase of miscellaneous materials and supplies as directed by the Construction Manager. This allowance is for purchase only as requested by the GC. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
11. Fire Extinguishers:
- a. Provide and maintain fire extinguishers and stands to meet OSHA and Metcon's minimum safety requirements for the project's duration. Refer to the Safety Manual for further information.
12. Temporary Facilities and Controls:
- a. Reference specifications 01 50 00 - Temporary Facilities and Controls for Section 1.5.F.
13. Dumpsters:
- a. Provide and manage three 30-yard dumpsters for the entire project duration. All manifests and/or dump tickets must be provided to the CM (Project Manager) by the last business day of the month to deduct from the reimbursable dumpster allowance in this scope. Dumpsters must be provided for a minimum of 24 months. If dump tickets are not provided to CM by the end of each month, the subcontractor will not be reimbursed.
14. Allowance for Dump Ticket Fees:
- a. Include a scope allowance of \$75,000 for dump ticket fees. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
15. Conex Containers:
- a. Provide two 40' high cube Conex containers as directed by the Construction Manager. The total of 48 units (1 Conex for 1 month) will be used at the CM's discretion. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
16. Debris Netting and T-Posts:

- a. Provide 2500 LF of installed and removed debris netting and T-posts at CM's request. This work is separate from the general labor hour pool.

17. Job-Built Ladders:

- a. Include two job-built ladders to facilitate two-way vertical traffic, or four fiberglass ladders per floor with walk-through rails. Also, provide handline ropes for material hoisting on every ladder. This work and materials are separate from the general labor hour pool and allowance.

18. Material Load-In Bays:

- a. Construct two material load-in bays on the second floor, 20'x15' with two sets of removable rails at each corral. Provide two retractable lifelines and appropriate anchor points to be used by all trades at each load-in bay. This work and materials are separate from the general labor hour pool and allowance.

19. Extension Cord Trees:

- a. Provide 40 seven-foot-tall extension cord trees. This work and materials are separate from the general labor hour pool and allowance.

20. Man Bridges:

- a. Provide four-man bridges across swales to provide safe personnel access to the site, including OSHA-compliant handrails and non-skid walkable surfaces. This work and materials are separate from the general labor hour pool and allowance.

21. Temporary Handrails:

- a. Provide and maintain an interior and exterior second-floor perimeter temporary handrail, mid-rail, and toe board that is OSHA and Metcon approved. Include a LF unit price and labor hour time for any additional areas the CM may add.

22. Snow Fence:

- a. Provide and maintain a snow fence for "Contractor temporary parking" and "Overflow/laydown area." See the site logistics plan for locations. Reference the current condition for the size of the area.

23. Wheel Wash Station:

- a. Provide a wheel wash station near the exit gate to be utilized by all other subcontractors.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #0170
FINAL CLEANING
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **FINAL CLEANING**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the Submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. "Hard" samples are still required per the plans/specifications.

At the time of submittals subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. The intent of this is to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following sections outline the scope of work specifications relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 01 77 00 - CLOSEOUT PROCEDURES

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Provide clean-up personnel as needed to ensure that the school is left in pristine condition and ready for use by students, staff, and faculty. This includes detailed cleaning of all areas, surfaces, fixtures, and finishes to meet or exceed industry standards. Personnel shall be able to lift 50 lbs. and be able to work all hours needed to maintain building & site.
2. Provide and maintain enough trash containers with covers, to be located throughout the building as directed by CM. To ensure a clean Job Site. Containers to be emptied daily into a dumpster provided by others.
3. This subcontractor shall provide enough moving dollies to complete this scope of work.
4. Dispose of all trash to dumpster provided by General Trades.
5. Subcontractor shall clean all interior and exterior surfaces and spaces including, but not limited to:
 - a. Classrooms, Offices, and Hallways
 - b. Restrooms
 - c. Cafeteria and Kitchen
 - d. Gymnasium and Locker Rooms
 - e. Entrances and Exits
 - f. Parking Lots and Walkways
6. Subcontractor shall provide all required cleaning equipment and materials such as push brooms, sweeping compound, rakes, large trash shovels, flat dirt shovels, etc.
7. This subcontractor shall provide dust control while sweeping by use of dust down material, note dust down material shall be wax based material NOT oil based material. Dust down shall be used when sweeping any floor surface within the inside perimeter of the building. It is the responsibility of this subcontractor to ensure compatibility of sweeping compound and final installed products.
8. Perform unloading of materials on an as needed basis.
9. Removal of all shipping labels, shipping and manufacturers markings, etc. from all new furnishings and construction products.
10. Subcontractor is responsible to coordinate and verify with other Subcontractors/vendors for compatible cleaning products and methods to prevent damage and/or warranty issues prior to starting work under this agreement. Any product damage caused by this subcontractor during execution of this agreement shall be repaired and/or replaced by this subcontractor at no additional cost to CM.
11. This subcontractor is responsible for removing and disposing of all protective floor covering prior to cleaning the sub surface.
12. Subcontractor shall clean all interior and exterior surfaces and spaces including, but not limited to:
 - a) Flooring: Vinyl - sweep, scrub, damp mop ,
Concrete - sweep, scrub and mop
Ceramic tile - sweep, scrub, mop, and seal
Resinous – sweep, scrub and mop

- Carpet – vacuum
 - LVT - sweep, scrub, damp mop
 - Rubber athletic flooring - sweep, scrub, damp mop
 - Athletic Wood Flooring - sweep, scrub, damp mop
 - b) Walls: Dust and Wipe Down
 - Ceramic tile - sweep, scrub and mop
 - c) Fixtures: dust, scrub, vacuum, wash down, sanitize, and polish (includes but not limited to all lights, toilets, sinks, toilet accessories, registers, window blinds, fire extinguisher cabinets, marker boards, handrails, mirrors, etc.)
 - d) Storefronts, Windows and Doors: Wipe down and polish interior and exterior sides (includes glass, bathroom mirrors, door thresholds, door hardware, etc.)
 - e) Casework: dust, vacuum, wipe down and polish cabinets' interior and exterior sides (includes all drawers, upper and lower cabinets, countertops, shelves, etc.)
 - f) General: Provide general cleanup of all units prior to start of work under this agreement, including removal of miscellaneous boxes, cups, trash, etc.
 - g) Mechanical: dust and wipe down conduits, piping, equipment, etc.
13. This agreement includes the cleaning of Resilient Floor Tiles in accordance with Specifications 09 65 00. This cleaning occurs after the Architect's punch is complete and prior to Owner Acceptance.
14. This subcontractor shall notify CM upon completion of each area to verify completeness and acceptability. CM will only provide written acceptance upon 100% of this scope.
15. This subcontractor shall provide separate mobilizations to include:
- a) A *general pre-clean* prior to Architect / Engineer punch list preparation, which includes general sweeping, removal of tags, and general wipe down of materials, removing construction debris.
 - b) Final cleaning under this agreement will occur upon completion of the Construction Manager's and Architect's punch list and prior to the Owner's acceptance of the building.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

**BID PACKAGE #0240
DEMOLITION / TURNKEY SITE
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **TURNKEY SITE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

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DEMOLITION / TURNKEY SITE

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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 31 05 13 - SOILS FOR EARTHWORK
2. SECTION 31 05 16 - AGGREGATES FOR EARTHWORK
3. SECTION 31 10 00 - SITE CLEARING AND **DEMOLITION**
4. SECTION 31 20 00 - EARTHWORK FOR SITE
5. SECTION 31 22 13 - ROUGH GRADING
6. SECTION 31 23 16 – EXCAVATION
7. SECTION 31 23 17 – TRENCHING
8. SECTION 31 23 23 – FILL
9. SECTION 31 25 13 - EROSION CONTROLS

10. SECTION 32 11 23 - AGGREGATE BASE COURSES
11. SECTION 32 12 16 - ASPHALT PAVING
12. SECTION 32 13 13 - CONCRETE PAVING
13. SECTION 32 17 23 - PAVEMENT MARKINGS
14. SECTION 32 31 13 - CHAIN LINK FENCES AND GATES – Permanent Only
15. SECTION 33 11 16 - SITE WATER UTILITY DISTRIBUTION PIPING
16. SECTION 33 27 53 - TURNKEY DUPLEX LIFT STATION
17. SECTION 33 31 00 - SANITARY UTILITY SEWERAGE PIPING
18. SECTION 33 41 00 - STORM UTILITY DRAINAGE PIPING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Furnish, install, maintain, and remove the following *temporary utilities*.
 - a. Subcontractor shall furnish, install, maintain, and remove (upon project completion) all required water taps, valves, backflow preventers, underground PVC or cast iron piping, and insulated wrap on exposed piping to Construction Manager's office trailer complex including connection to trailer.
 - b. Subcontractor shall furnish, install, maintain, and remove (upon project completion) all required water taps, valves, backflow preventers, underground PVC or cast iron piping, and insulated wrap on exposed piping to provide a site construction water source. Include a supported header assembly providing four (4) 2" connections and six (6) hose bib connections.
 - c. Provide 200,000 SF of 4" stone aggregate base compacted furnish, install, maintained and removed at CM's discretion. See logistics plan for details.
2. Installation and Maintenance of Erosion Control
3. Temporary Utilities as outlined above
4. Site Clearing
5. Rough and Final Grading
6. All Cut and Fill operations including Building pad prep
7. All Water Distribution Systems
8. On Site Sewer Systems complete
9. All Storm Water Systems
10. All Site Concrete outside the building line. This shall include sidewalks, playground,
11. Equipment pads shall be installed by others.
12. All Paving, Striping and ADA Signage.

13. Temporary Seeding and Mulch
14. This subcontractor shall be responsible for all decorative fencing, chain link fencing, in its entirety as it is indicated within the contract documents.
15. This subcontractor shall be responsible for installing bollards provided by others.
16. All Sitework (clearing, excavation, etc.) on this project is to be bid as “UNCLASSIFIED”.
17. This Subcontractor shall contract with a registered land surveyor in the State of North Carolina to stake all work under this agreement. Also, this Subcontractor shall provide a signed and sealed drawing to certify that all grading, ponds, utility installations, etc. comply with Contract Documents upon completion of each phase of work and prior to receipt of payment for completed work. Final signed and sealed as-built drawings shall be provided at conclusion of the scope of work.
18. Coordinate building point of entry (location and elevation), and flange layout / bolt pattern with Fire Protection Subcontractor. Sleeving of walls and waterproofing penetration is herein included.
19. All work under this subcontract will be in accordance with the Contract Documents and City, County, DENR, and NCDOT Requirements.
20. This subcontractor is responsible for the procuring of and payment for all required Right-of-way permits, Curb Cut Permits, City Insurance requirements, roadway bonds, tap fees, etc. This subcontractor shall have NCDOT certified traffic control personnel and devices to insure safe vehicular entrance and exit to and from the site.
21. All terminations to within 4'-0" of building are included. Subcontractor shall be responsible for tie-in of lines to building structures regardless of whether stub outs are installed at time of utility line installation. Subcontractor shall coordinate with other subcontractors to ensure that final installation is completed as required.
22. It is the responsibility of this Subcontractor to ensure that all piping installations have sufficient specified, or code required coverage.
23. This subcontractor is responsible for final setting and adjusting of all grates, manholes, hydrants, PIVs, cleanout covers, valve boxes, etc.
24. This subcontractor is responsible for total coordination of all underground utilities and for providing complete utilities system. There will be no cost or time considerations given for adjustments of structures or pipe runs due to conflicts arising from lack of coordination with adjacent utilities, structures, or other Subcontractors. First installed does not constitute grounds for a change order for installation of uncoordinated work.
25. This subcontractor is responsible for the re-wetting, aeration, and/or drying of existing soil materials to obtain optimum moisture content for use as compacted fill. In the event weather

conditions do not allow Subcontractor to dry wet materials required to perform the work within the scheduled time frame, Subcontractor shall remove and dispose of the wet material and replace with suitable soil as not to delay project schedule at no additional cost to Construction Manager.

26. Surface and rainwater controls shall be provided throughout the duration of the Agreement. Contaminated water, beyond the limits allowed by the Contract Documents shall not be permitted, mechanically or by natural flow, to be discharged off-site. Quality of water discharged shall comply with all requirements of the Contract documents and local jurisdictional allowances. All flocculation as required to comply with the quality of water requirements of the Contract Documents shall be included.
27. All liabilities of sediment entering storm sewer system or discharging off-site is the responsibility of this Subcontractor to rectify.
28. This subcontractor is responsible for notifying Construction Manager, Owner, Architect, and governing agencies two weeks prior of all tie-ins and shutdowns of existing utility systems and inspection requests. These requests shall be in writing to the CM.
29. This subcontractor is responsible for compliance to all requirements of local authority(s) having jurisdiction on all installations under this agreement. This subcontractor has reviewed the Drawings & Specification for this Project. Subcontractor has found no obvious omissions and further agrees that the Work of this Agreement and the Project can be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.
30. This subcontractor is required to maintain daily rain fall records, have rain gauge on-site, current inspection drawings, permit card, etc. for Owner, Engineer, and DENR storm water inspection requirements. This subcontractor is responsible to have a supervisor present on all storm water management inspections. All inspection violations shall be corrected by the end of the day of the inspection violation notification or Subcontractor will not be allowed to continue site operations until such violations are rectified. This subcontractor is responsible for all recordkeeping and reporting per NCG01- " Self Inspection, Recordkeeping and Reporting" as outlined in the documents.
31. This subcontractor is responsible for providing all required temporary and permanent access requirements for Owner and Construction operations at all times. **This includes any RCP culvert necessary to provide access to the site. Please refer to the site logistics plan for details. (Addendum 2)**
32. This subcontractor is responsible for dewatering. Dewatering is considered all-natural grade water as well as "surface or rainwater" for all excavations under this agreement. Dewatering includes all required pumps, sumps, stone, etc. for proper execution of work under this agreement and for the continual maintenance of exposed soil conditions to access the work under this agreement.

33. It is the responsibility of this Subcontractor to maintain a suitable soil substrate condition once exposed under this agreement (or exposed by others as in mass excavation to perform work under this agreement). The Owner (or the Construction Manager) will not be responsible to reimburse Subcontractor for the costs to remove unsuitable soil and dispose of off-site or for the replacement costs of suitable fill (or stone backfill) for exposed substrate conditions not achieving compactions due to excessive moisture content not inherent with undisturbed soil conditions on-site. This subcontractor is responsible for all work performed be per NCG01-“Ground Stabilization and Material Handling” as outlined in the documents.
34. Final grading shall be free of any rocks, roots, debris. The Subcontractor shall request an inspection of topsoil/grading to be performed by the Construction Manager and/or owner prior to placing any permanent ground cover.
35. The site contractor shall include, in their bid, allowances for the following based upon unit prices provided on the bid form. Allowances shall be adjusted within the subcontract agreement based upon unit prices provided.
- a. 2,000 cubic yards replacement of unsuitable soil dispose off site and replace with imported structural fill.
 - b. 500 cubic yards of aggregate base stone (NCDOT CABC)
 - c. 1000 cubic yards of imported structural fill.
 - d. All of the above allowances shall be INCLUDED in the subcontractor’s total bid amount.
36. Asphalt Binder and Fuel F.O.B Index: This Subcontractor shall include in their base bid a price per ton on Asphalt Binder and price per gallon on Fuel F.O.B. In the event there is fluctuation on these prices this Subcontractor shall utilize current prices from the NCDOT Asphalt Binder and Fuel F.O.B. Index noted below:
- a. <https://connect.ncdot.gov/projects/construction/lists/monthly%20terminal%20asphalt%20binder%20%20fuel%20fob%20prices/allitems.aspx>
 - b. If Asphalt Binder and Fuel F.O.B prices are higher than base bid at the time of ordering, the subcontractor will be issued a change order.
 - c. If Asphalt Binder and Fuel F.O.B. prices are lower than base bid at the time of ordering, the owner will be issued a credit back.
37. Base bid is to bring in imported fill for this project including but not limited to building pads, parking lots, roads and other structural fill.
38. Remote Fire Department Connection if shown, is by this subcontractor.
39. Subcontractor is responsible for site surcharge requirements and monitoring of back fill over seven (7) feet.
40. This subcontractor is to provide demolition of the existing building on site and surrounding structures see plan C-100 for more information. (Addendum 2)
41. Provide temporary lighting in areas of egress and where work is to be conducted. (Addendum 2)
42. Protect existing mechanical units that are to remain during the extent of construction in accordance with the construction indoor air quality management plan. (Addendum 2)

Bid Package #: 0240

DEMOLITION / TURNKEY SITE

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- 43. Provide all State, City and County permitting/**fees required to perform the complete scope of work.** (Addendum 2)
- 44. Provide all certifications required to perform the complete scope of work for demolition. (Addendum 2)
- 45. The subcontractor will remove/Haul/Dispose of all demolition materials as shown on the plans, specifications, and addenda. This includes all dump fees. (Addendum 2)
- 46. The subcontractor will provide dust control during demolition. (Addendum 2)
- 47. The subcontractor will provide protection for all materials that remain. (Addendum 2)
- 48. If this subcontractor uses cutting torches, welding equipment, plasma torches, etc., it shall be required to provide fire blankets, fire watches, extinguishers, etc. (Addendum 2)
- 49. This subcontractor will provide dumpsters and develop the waste management plan. (Addendum 2)
- 50. All City/County, DHEC, OSHA and NCSCO permit, notification, and fees pertaining to this scope of work **is included.** (Addendum 2)
- 51. Prepare and provide a specific Health & Safety Plan prior to the commencement of work **for approval.** (Addendum 2)
- 52. Create a binder containing the Material Safety Data Sheets (MSDS) for all the materials proposed for use or transport to the site. Have the binder on site and make it available all staff. (Addendum 2)
- 53. Prepare and provide a site-specific hazard analysis prior to the commencement of work. (Addendum 2)
- 54. Prepare and provide a site-specific safety plan prior to the commencement of work. (Addendum 2)
- 55. Prepare and provide copies of asbestos accreditations issued by the State of North Carolina to supervisor(s) and worker(s) projected to perform work on this project and on any supervisor or worker who performs work on this project after the commencement of the project; prior to the commencement of work. (Addendum 2)
- 56. Prepare and provide copies of the most recent individual respiratory fit testing records for worker(s) and supervisor(s) projected to perform work on this project and on any supervisor or worker who performs work on this project before and after the commencement of the project. (Addendum 2)
- 57. Abatement of all hazardous materials. To include and are not limited to molded materials, asbestos of all types, PCBs of all types, and mercury-containing materials of all types. Please reference abatement plans, specifications, and reports.
 - a. To include and not limited to all 9” floor tile
 - b. To Include and not limited to 2’X4’ Lay in ceiling panels with Fissure Pattern
 - c. To include and not limited to Spray Fireproofing
 - d. To include and is not limited to Vibration Dampers
 - e. Include of existing sidewalk demolition.(Addendum 2)

- 58. Perform demolition per plans to accommodate the abatement and hazardous materials removal. (Addendum 2)
- 59. Provide abatement clearance reports to the Metcon Superintendent, with a copy for the owner to be provided to the Metcon PM. (Addendum 2)
- 60. Provide waste dump tickets to Metcon Superintendent with a copy to be provided to the Metcon PM for the owner. (Addendum 2)
- 61. Provide the abatement manifest to the Metcon Superintendent, with a copy for the owner to be provided to the Metcon PM. (Addendum 2)
- 62. All notices; management of 10-day notification forms to required entities, negative exposure assessment (NEA's), all required licensed air monitors, and safety work plans required for your scope of work. This includes all work practices defined by USOSHA, and USEPA's regulations. (Addendum 2)
- 63. The survey report, if any, lists asbestos-containing materials to be completely removed, abated, and disposed of. The third-party consultant shall verify the quantities and remove them prior to other non-demolition and non-abatement subcontractors beginning their scope of work per the plan and specifications. (Addendum 2)
- 64. Provide all temporary walls (egress, safety, dust, etc.) required for personnel access to occupied areas during phase one of the project. (Addendum 2)
- 65. All labor equipment and materials associated with demolition and removal of CMU walls, slab, and masonry openings per plans construction documents. (Addendum 2)
- 66. This subcontractor shall properly dispose of all hazardous material per the required codes and standards. (Addendum 2)
- 67. The relocation, disconnection, termination, and capping of plumbing, electrical, and HVAC systems within the building scheduled for demolition will be the responsibility of other parties. Additionally, the capture and disposal of HVAC refrigerant will also be handled by others. (Addendum 1)

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. Soil testing is done by the Owner; retesting costs are the responsibility of this Subcontractor.
- 2. Termite Control under slab on grade (by Concrete Subcontractor)
- 3. All Site Electrical (by Electrical Subcontractor)
- 4. All Athletic Lighting (by Electrical Subcontractor)
- 5. Landscape plantings – As shown in the contract drawings as “L” sheets (by Landscaping Subcontractor)
- 6. Fire storage tank and foundations by other.
- 7. Fire pump and foundation by others.

BID PACKAGE #0330
TURNKEY CONCRETE
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **TURNKEY CONCRETE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

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TURNKEY CONCRETE

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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. **03 30 00-CAST-IN-PLACE CONCRETE**
- 2. **31 31 16-TERMITE CONTROL**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or

comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor is responsible for backfilling against its work.
2. Subcontractor is responsible for removal and disposal of excess excavated fill material.
3. This Subcontractor is responsible for excavation safety including providing, installing, maintaining, and removing the following: safety perimeter fencing, flagging, ladder access points, for the duration of exposure on this project for all trades.
4. Subcontractor responsible to provide, maintain and remove the concrete washout area.
5. In situations where bad soils are excavated (i.e. Gumbo) this subcontractor shall be responsible for removing the soils off the building pad to a location chosen by the CM where the Site Work Subcontractor will then remove from site.
6. Fine grading and compaction of soil subgrade prior to installation of granular fill under this agreement upon completion of foundation work, and again after MEP under slab installations. Subcontractor shall export to a location on site as directed by CM any additional site spoils generated from MEP installations.
7. Subcontractor is responsible for the backfill of all column block-outs after column steel erection/base plate grouting is complete.
8. Subcontractor to grout all base plates at column locations.
9. Subcontractor shall furnish and install all concrete formwork materials, tools and accessories as required for all mud slabs, footings, slab-on-grade perimeters, foundation walls, masonry leave-out slab edges, etc. Including all required construction joints, templates, control joints, pour stops, slab depressions and recesses, block-outs, steel column block-outs and re-forming (this is included at both slab-on-grade condition as well as the elevated slab condition), keyways (for pour joints, construction joints, joint covers, etc.), brick ledges and haunches, bulkheads, grade changes, hollow core topping slabs, hollow core bonding beams, etc.
10. Included is all formwork, formwork system engineering (including signed and sealed by registered Engineer in the State of North Carolina), scaffold, shoring, bracing, etc.
11. All elevated slab pours shall be shored as required after review by a licensed engineer.
12. Furnishing and installation of all exposed corner chamfer strips, drip edges, recesses, isolation wraps, depressions, reglets, etc. as shown on structural and architectural drawings.
 - a. If elevated slabs are shown without rolled/beveled corners the subcontractor is to include the additional materials/labor as specified above to provide an “eased” edge.
 - b. Subcontractor is to shore elevated slabs from below to limit deflection of steel decking supporting elevated slabs. The prescribed floor tolerance of $\frac{1}{4}$ ” per 10’ shall not be compromised due to concrete being placed on unsupported spans of metal decking exceeding 15’.
13. Subcontractor shall provide and install all sleeving requirements for others which are either resting under or encapsulated within this scope of work.

14. It is the responsibility of the subcontractor to coordinate the placement of all sleeves with other trades at least 72 hours prior to concrete placement.
15. Subcontractor is responsible for furnishing and installing anything related to formwork and related to design construction joints, bond breakers, etc.
16. Subcontractor is responsible to maintain dowel/ reinforcement placement to ensure proper clearances during concrete placements, any deviations/deflections resulting from improper workmanship shall become Subcontractor's expense and/or responsibility to correct.
17. Subcontractor is responsible for storage, receipt of, unloading, distribution, layout, and installation of embeds, anchor bolts, etc. cast-into work under this agreement and provided by others. Subcontractor shall provide all templates, replace all nuts/washers after template removal, and clean and grease all anchor bolts and embeds of all concrete residue. All layouts shall be performed from approved fabricator field use shop drawings only.
18. All concrete slab cold-key forming and saw cutting for control joints, construction joints, and joint covers is included.
19. Furnishing, unloading, distribution, field cutting, and installation of all expansion joint material and rigid insulation board (and removal if between concrete elements formed under this agreement).
20. Providing all required block-outs, sleeves, and cutouts associated with formwork system either located above, below, on or within the formwork assembly under this agreement for pumps, ducts, conduits, drains, pipes, pipe chases, floor openings, embeds, scuppers, etc.
21. Subcontractor is responsible for building all box-outs, furnishing all sleeving requirements, etc. for installation and removal under this agreement.
22. Subcontractor shall provide temporary block-outs around column piers from top of pier to underside of slab-on-grade to retain earth during steel erection and keep column block-outs clean of dirt (see masonry section below for condition at spread footings).
23. Construction Manager will not reimburse Subcontractor for cutting, drilling, etc. of formwork to install sleeves or embedded items in formwork system.
24. Subcontractor is responsible for furnishing and installing all form release agents. All agents shall be submitted for Engineer's approval and said Subcontractor shall be responsible for any non- compatibility problems with unapproved form release agents with subsequent material applications.
25. Subcontractor is responsible for all formwork tolerances and specified exposed finishes (Subcontractor shall assume, as a minimum, a class B finish with a smooth formed finish requirement). All plywood formwork supplied on this Project shall be new.
26. Subcontractor is responsible for removing all wall ties, exposed nails, screws/bolts, tie-cones, form block-outs materials, masking materials, etc. as formwork removal progresses. Scraping of all concrete to remove burs and fins is included herein.
27. All form nails, bolts, screws, etc. used at form bracing locations shall be removed completely from existing concrete elements and said concrete elements shall be patched by this Subcontractor to match adjacent finishes.

28. Subcontractor is responsible for cleanliness of formwork cavities and metal decks prior to concrete placement.
29. Extended formwork storage on-site is not permitted if said materials are not being utilized. It is responsibility of Subcontractor to continually sort and remove materials from site during nonuse.
30. Subcontractor shall furnish and install all construction joint key ways in walls, columns, beams and slabs including removal thereof after concrete placement.
31. Subcontractor shall layout formwork systems, drill/cut, and reinforce formwork system for all rebar dowels, embeds, inserts, sleeves, etc. Subcontractor will provide split bulkhead system for slabs and beams in order to extend reinforcing steel into next pour.
32. Disposal of wood formwork in Construction Manager's dumpster is prohibited. Subcontractor is responsible for removal of all usable and non-usable form materials from jobsite including wood, form oil, curing compounds, etc.
33. Subcontractor is responsible for delivering and providing a slab on grade that is compliant to the flatness requirements of the specifications in division 3. All required floor leveling and grinding will be at the cost of the concrete subcontractor if required to meet the requirements of the athletic flooring and other flooring finishes. All specified curing compounds for each location are included in this scope of work. Coordination is required.
34. Subcontractor is responsible for any admix, space heaters, heat blankets, etc. for concrete curing during cold weather season at no additional cost to Construction manager.
35. Subcontractor is responsible for all the concrete on pan-filled stairs.
36. Subcontractor will Provide two (2) or more sources of concrete and grout. Subcontractor will turn in concrete mix submittals for all suppliers and mixes for Architect's approval. At least one of the of the two sources of concrete should have the capacity of heating the water utilized for the concrete mix to mitigate cold weather pour days.
37. Subcontractor is responsible for proper filling of hollow core cavities with concrete as intended by design specifications when pouring topping slabs. Hollow core cavity caps will be provided by hollow core subcontractor. The cap position is the responsibility of this subcontractor. This subcontractor is responsible for making sure that the appropriate quantity of caps is supplied by Hollow Core subcontractor.
38. Provide multiple mobilizations in phasing with slab pours including post treatment.
39. Provide all termite treatment including any hazard/safety signage requirements.
40. Provide retreatment of areas that are disturbed by subsequent excavation, rain, landscape grading, etc.
41. Provide termite treatment warranty in accordance with the specification which shall begin on the Owner's beneficial acceptance of building.
42. All required mockups are included. Subcontractor is responsible for the compliance to the "schedule of form materials" including obtaining Architect's approvals of any deviations.
43. Subcontractor is responsible for notifying Construction Manager and governing agencies of all inspection requests.

44. Subcontractor to install uplift anchors as highlighted in structural details for tension piles. Steel Subcontractor shall supply angles and bolts.
45. All concrete that will have exposed edges needs to be formed with a pre-engineered edge form system, for example Doka or Symons forms. Some conditions required form work to be flush with continuous face block.

I. The following is a general outline of items included, but not limited to, under this agreement for **Reinforcing Steel** per specifications.

1. All reinforcing steel shall be cut, bent bundled, tagged and delivered in accordance to the Contract Documents and approved shop drawings. Deliveries shall be as material is needed for installation.
2. All welded-wire-fabric is included in flat sheets (not rolls). All bar and mesh supports for footings, walls, slab-on-grade, etc.
3. Subcontractor shall furnish all tie wire to perform this work.
4. Subcontractor is responsible for the cleanliness of all reinforcing steel prior to concrete placement.
5. Subcontractor shall review MEP drawings to ensure adequate reinforcing steel is provided at all slab and wall penetrations required on Contract Documents.
6. Subcontractor is responsible for the removal and disposal off-site of all extra reinforcing steel and shall not utilize Construction Manager's dumpster for such disposal.
7. Furnishing and maintenance of all exposed rebar safety caps for dowels, etc. is included. Safety caps for rebar left above finish floor levels will become the responsibility of the Masonry Subcontractor to maintain during the duration of this scope. After completing his scope, the Masonry Subcontractor will return all rebar caps into a container provided by this subcontractor.
8. All reinforcement in and coming out of concrete is the responsibility of this subcontractor.
 - a. Hooks that tie into edge of precast and masonry rebar.
 - b. Ubars at edge of precast and edge pour.
 - c. Straight keyway rebar that lies on top of precast.

II. The following is general outline of items included, but not limited to, under this agreement for all **Cast- in-Place Concrete** per the specification section 03 30 00.

1. Scope of Work includes, but not limited to:
 - a. All building footings, above grade slabs and all Slab-on-grade work including column block-outs, Elevator Pit, Fire ~~Tank~~ Pump Slab & Foundation, pour-backs and thickened slabs. (Addendum 2)
 - b. Foundation at dumpster screen wall is included.
 - c. All mechanical, plumbing and electrical equipment pads, including doweling into slab. Final sizing shall be coordinated with MEP trade subcontractor at no additional cost to Construction Manager.

- d. All interior elevated slabs.
 - e. All concrete control joints.
 - f. All expansion joint material in concrete in accordance with the Contract Documents.
2. Included is establishing off-set lines, protecting and transferring registered surveyor points, etc. with the use of a robotic total station.
 - a. Subcontractor shall layout all new foundations including all anchor bolts, rebar dowel placements, embed requirements, block-outs, footing steps, etc.
 - b. Subcontractor is responsible for all slab edge locations, slab transition locations, slab slope requirements, curb and wall locations, etc.
 - c. Subcontractor is responsible to layout stair bottom and masonry wall thickened slab conditions.
 - d. Subcontractor shall layout all new concrete equipment pads as highlighted above.
 - e. Subcontractor layout lines shall be accessible to all MEP trades to rough-in foundations, slabs, walls, etc. Subcontractor shall coordinate and reference all layouts with MEP Subcontractors.
 - f. Subcontractor is responsible for formwork placement, trueness, plumbness, etc. before, during, and after concrete placement. Substandard work will be demoed and replaced by this subcontractor at no additional cost to Construction Manager.
 - g. This subcontractor is responsible for preventing any washout under any finished concrete work.
 3. Subcontractor is responsible for all hoisting and hoisting devices for the unloading, loading and distribution of work under this agreement including cables, straps, slings, spreader bars, chokers, lifting bars, etc. as required to perform work under this agreement.
 - a. Subcontractor shall submit to Construction Manager all crane inspection certifications ten (10) days prior to starting work. All certifications, and inspections shall be current and in accordance with OSHA and the Contract Documents.

III. The following is a general outline of items included, but not limited to, under this agreement for Concrete **Placement and Finishing** per specifications.

1. Subcontractor agrees to furnish, vibrate, hoist, place, finish and cure concrete for the duration of the Project at the footings, walls, slab-on-grade, secondary curbs, equipment pad, etc. either formed, installed, or excavated under this agreement.
2. Subcontractor agrees to coordinate all placements with Construction Manager 48 hours in advance to determine truck routing, truck delivery sequencing and timeliness, traffic control, etc.
3. Subcontractor agrees to provide on-site technical support to coordinate deliveries, verify concrete slumps and temperatures, etc. with testing agency. Subcontractor shall provide Construction Manager with copies of all delivery tickets with subsequent day's daily reports.
4. All tickets shall indicate batch times, time of arrival to site, start time of placement, finish time of placement, quantity of concrete, and mix design number. Each truck shall have an accurate count/trip meter of drum rotation from batching to placement.

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TURNKEY CONCRETE

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5. This agreement is based on Subcontractor obtaining approved mixed designs from Engineer of Record. Contract pricing will not be adjusted for compliance to Contract Documents, or inability of Subcontractor to obtain mix design approvals and approved products at point of discharge as determined by Field Conditions at time of placement.
6. Subcontractor's submittal package shall clearly identify each mix design and identify each mix with a proposed location for placement.
7. Subcontractor to provide vapor retarder as per specification section 07 26 16.
8. Truck "wash-out" of unused concrete will not be permitted on-site. Subcontractor will be allowed to rinse the chute and any concrete splatter on delivery truck only at a location determined by Construction Manager. Should Subcontractor wash out debris on-site, this Subcontractor is responsible for the removal; or costs thereof, to remove debris from site and **shall not utilize Construction Manager's dumpster for such disposal**. Washout area shall be emptied when it is no longer compliant with EPA standards.
9. Subcontractor will cooperate with the Owner's testing agency and shall respond immediately to any low cylinder breaks at 7 day, 28 days, and 56 days in writing to Construction Manager of possible causes and assistance of projected outcomes. This Subcontractor is responsible for costs of any early concrete breaks or extra cylinders requested by Subcontractor.
10. All concrete shall be delivered to the site with the approved slump. Water added at the site is prohibited if exceeds the amount of added water approved for each concrete mix. All specified and approved slumps and air contents shall be achieved by Subcontractor at point of discharge.
11. Subcontractor **shall not assume truck access to all points of concrete discharge**. Construction Manager will not accept extra costs or schedule delays for concrete placement as means and methods.
12. All concrete shall be shipped and maintain specified temperatures throughout the approved placement and curing time allotment specified in the Contract Documents at no additional cost to Construction Manager. Delaying concrete placements to avoid controllable concrete temperature placements is not acceptable means and methods.
13. Any concrete placements starting before, or exceeding, normal project working hours shall be coordinated with Construction Manager three (3) working days in advance.
14. Subcontractor is responsible for the strength of concrete as determined by specimen's taken at point of discharge (or sampling) in accordance with all applicable ACI and ASTM standards and specifications for sampling, curing, and testing concrete cylinders. Actual records of Subcontractors Ready Mix Vendor's delivery performance shall be kept and furnished to Construction Manager. If said concrete does not achieve designed strength or Owner's acceptance, Subcontractor will be responsible for all costs of removing, testing and retesting, replacing, and/or shoring of said concrete.
15. Construction Manager will not be responsible for payment of defective concrete, returned concrete not in-compliance of approved submittals, short-loads, minimum load requirement charges, weekend or after hour concrete placements requirements, environmental fees or charges, fuel surcharges, concrete delivered without inspection approvals for work to be placed, returned deliveries which were not coordinated with Construction Manager, loads returned due to site accessibility, etc.

16. All concrete shall be shipped in four-wheeled mixers, if required by site conditions. Subcontractor shall coordinate requirements with batch plant.
 17. Subcontractor shall protect all surfaces and embeds adjacent to work including alignments, elevations, and cleaning after day's placement of concrete. Subcontractor is responsible for ensuring all reinforcing steel remain in design location and shall protect and support said materials from pump hoses, manpower traffic, tool storage, etc.
 18. Subcontractor will cooperate with the Owner testing agency to obtain specified cylinders and slumps.
 19. Subcontractor is responsible to construct and maintain concrete curing box in accordance with ACI.
 20. Subcontractor is responsible for screeding, troweling, vibrating, and finishing of all concrete in accordance with Project Specifications for flatness and levelness. Subcontractor shall coordinate and comply with all required slab finishes (i.e. float, trowel, broom, etc.) prior to beginning day's placement of concrete since each placement could have multiple finish requirements.
 - a. Any slabs not specified to have a FF/FL value will be assumed to be FF 25 and FL 15 or better. In the case that a more stringent flatness and/or levelness is specified in the contract documents, contract documents supersede this clause.
 21. Subcontractor will be responsible for all corrective repairs resulting from their defective workmanship. Defective workmanship shall be defined as all birdbaths, out of tolerance floor flatness and levelness, out of tolerance floor finish, wall alignment, elevations, and honeycombs, mis-located embeds or anchor bolts, missed chamfer/reveals, etc. All corrective work shall be performed within twenty-four (24) hours and prior to payment issuance from Construction Manager to Subcontractor for work performed.
 22. Subcontractor is responsible for rubbing and grinding all exposed concrete. Assumed finish of concrete walls shall be a "rubbed finish".
 23. Removing and patching of all tie holes is included. Patch shall match color and texture of surrounding concrete finishing.
 24. All concrete receiving damp proofing or waterproofing shall be rubbed, joints ground, and concrete cured per the manufacturer's recommendations.
 25. The subcontractor is responsible for field verifying all floor drain elevations to ensure specified drainage requirements prior to concrete placement and notifying the Construction Manager immediately of any documented inefficiencies.
 26. The subcontractor is responsible for monitoring and cleaning up any concrete leaks, etc.
 27. The subcontractor is responsible for furnishing and installing all curing methods or agents. All methods or agents shall be submitted for the Engineer's approval, and the Subcontractor shall be responsible for any non-compatibility problems with unapproved curing methods or agents with subsequent material applications.
- IV. Subcontractor shall furnish and install all **Miscellaneous Concrete Work and Accessories**, including:

1. Subcontractor shall furnish and install all slab-on-grade vapor barriers as specified including taping of joints, penetrations, etc.
2. All specified joint fillers, slab and floor treatment are included. Provide penetrating liquid floor treatment at all exposed concrete floors, mechanical pads, etc. including all floor sweeping, pressure cleaning, scraping, acid washing (if required by manufacturer), etc., ready to receive sealer. All this work shall be completed at or near the end of Project Completion date.
3. Provide block-outs for, then furnish and install all floor to wall expansion joints as specified in section 07 95 00.
4. Provide and install all perimeter foundation insulation board as specified in section 07 21 00 and as shown on plans.
5. Subcontractor is responsible for coordinating the control joints shown and required in the drawings with all flooring shop drawings to ensure that control joints in flooring systems align with structural concrete joints.
6. Grouting of steel column base plates and steel beam bearing plates per specifications.
7. Subcontractor is responsible for notifying Construction Manager of all dates/times for soil testing, foundation inspections (rebar), concrete placements, etc. with at least 48 hours advanced notice.
8. Subcontractor is responsible for dewatering. Dewatering is considered all-natural grade water as well as "surface or rain water" for all excavations under this agreement. Areas include all interior and exterior foundations, slab-on-grade, interior and exterior perimeter of building walls and retaining walls, column block-outs, sumps pits, etc. Dewatering duration is for such a period until all areas are poured in concrete under this agreement, backfilled under this agreement, or backfilled by others.
9. Dewatering includes all required pumps, sumps, stone, etc. for proper execution of work under this agreement and for the continual maintenance of exposed soil conditions to access the work under this agreement.
10. It is the responsibility of this Subcontractor to maintain a suitable soil substrate condition once exposed under this agreement (or exposed by others as in mass excavation to perform work under this agreement). The Owner (or the Construction Manager) will not be responsible to reimburse Subcontractor for the costs to remove unsuitable soil and dispose of off-site or for the replacement costs of suitable fill (or stone backfill) for exposed substrate conditions not achieving compactions due to excessive moisture content not inherent with undisturbed soil conditions on- site.
11. Subcontractor is responsible for all temporary power requirements via generator including fuel costs to perform work under this agreement. Subcontractor agrees to allow other trades

working in the same vicinity to utilize same generator power. Also, temporary and task lighting to perform work under this agreement is also included.

12. Subcontractor is responsible for ensuring all tools, equipment, and formwork materials and assemblies stored or installed on-site from damage, theft, fire, etc.
13. Should stepped footings not be indicated for MEP coordination, this Subcontractor shall provide such requirements for all piping conditions indicated on MEP drawings and on site coordinated at no additional cost to Construction Manager.
14. MEP pad sizes indicated on Contract Documents are for reference only. Final sizing and design shall be coordinated with MEP trade subcontractor at no additional cost to Construction Manager.
15. Construction Manager is not responsible for truck or equipment access to or around building areas for Subcontractor as it relates to soil conditions. Subcontractor shall review soils report, existing and proposed grades, concurrent utility excavations, site access points from public roads in evaluating means and methods to deliver and execute work under this agreement.
16. Subcontractor shall set and place all anchor bolts.

V. The following is a general outline of items included, but not limited to, under this agreement, Provide materials, labor and equipment to perform the following **Foundation Excavation** work:

1. Subcontractor is responsible for excavation of all foundations including compaction, shaping, excavating, shoring, etc.
 - a. Subcontractor is responsible for the undercutting and placement of cleaned washed stone as specified in the Project drawings and specifications at the site as needed. This pertains to the footings and foundations and any SOG as specified.
2. All excavated spoils excavated or graded under this agreement are to remain on-site within construction fencing on non-paved areas. Subcontractor may need to remove spoils from site, if obstructing work under this agreement, and return soil during backfilling operations. It is the responsibility of this Subcontractor to balance site soil conditions from the building pad.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

**BID PACKAGE #0340
HOLLOW CORE PLANK
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **HOLLOW CORE PLANK**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. "Hard" samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.
6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. It is mandatory that all subcontractor employees have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity, or comparable in specs and capabilities. This provision provides the subcontractor the capability of having access to Procore in the field with the latest set of drawings.

8. Subcontractor will not use or allow the use of the building's drainage systems for cleaning debris or disposing of waste materials. In the event of any drainage systems being clogged or obstructed by this Subcontractor's materials, Subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This Subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The Subcontractor will request such information from the Design team in writing in the form of a Request for information (RFI) through the file sharing program called Procore. The request for such information shall be made in advance to avoid any delay of the work.
10. This Subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this Subcontractor's work. **All deliveries, hoisting and storing of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated as "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building it must be installed within five (5) workdays. Subcontractor must utilize its own equipment to unload material.
11. Subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. Flag man is not required if staging of deliveries outside of the site does not impede pedestrian and motor vehicle traffic. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use active public roadways.
12. This Subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This Subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See exhibit J for more details.
14. The Subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications, unless substantial Owner directed Scope changes occur.
15. Within **10** days of receipt of subcontract, each subcontractor is required to issue a manpower count necessary for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and must approve the proposed manpower counts prior to commencement of your work. Metcon, Owner, Architect & Consultants will constantly track the manpower for each activity to ensure compliance to the schedule and the forecasted status of project which will measure performance. In the event of the subcontractor having low productivity/performance, resulting on schedule delays, subcontractor will increase its manpower at Metcon's, Owner's and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.
16. In the event of inclement weather, all Subcontractors are responsible for the securing and protection of all their own materials and work in place.
17. Each subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this Agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the

United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this Agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.

18. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. Subcontractor is required to review all project drawings and specs. Subcontractor will have an opportunity to ask questions about design intent before bidding; after bid and award of package subcontractor will utilize the most stringent design. The design utilized shall be to the best interest to the owner.
19. Parking at and around the site will be limited. Please see the Logistics plan for more information.
20. Subcontractor shall only remove temporary construction fence, safety control devices or sediment control devices with advanced approval of the Construction Manager. In the event that removal is required subcontractor shall reinstall in the same condition or better.
21. Subcontractor will abide by local noise ordinances as required.
22. All punch list items must be corrected and “ready for review” within 5 working days of initiation by Construction Manager.
23. All subcontractors will adhere to a work week consisting of: five (5) days per week, ten (10) hour days, fifty two (52) weeks per year, with standardized starting and quitting times 7am to 5:30 pm regardless of external influences (such as driving distance, subcontractor’s company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
24. Under no circumstances subcontractor is permitted to work without a Construction Manager’s representative on site.
25. Protection of work in place: subcontractor shall provide and maintain protection of all adjacent property and other subcontractor’s work, materials tools, and equipment from damage resulting from this subcontractor’s activities. Subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
26. In addition to any Owner site requirements, eating, and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
27. No visitors shall be admitted to the job site by the Subcontractor without first obtaining the approval of the Construction Manager and having completed the site specific jobsite orientation. Subcontractor will confirm and/or provide all their visitors with the site required personal protection equipment.
28. No photographs, videos (including Drone videos) may be taken of the project without prior approval of Construction Manager and Owner. All persons approved to take photographs/videos must attend training and will be provided with credentials.
29. All schedule of values shall be uploaded to GC Pay within of ten (10) days of the letter of intent being awarded. All subcontractors SOV’s shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. Schedule of values approval by Construction Manager shall be done prior to this subcontractor’s first pay application. Construction manager requires a minimum of twenty (20) days to review the Schedule of values.
30. Weekend work might be necessary to meet the project schedule which must be coordinated with the Construction Manager if necessary. The Construction Manager will not allow weekend work if the

subcontractors are not already working the full amount of job site hours with full crews. This means that if you are working less than Monday through Friday 7am -5:30pm the site will not be open in the weekend. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the schedule responsibilities by working the full amount of open hours.

31. Include four (4) mobilizations to complete this scope of work. Include unit pricing for additional mobilizations and deduction mobilizations.
32. Construction Manager reserves the right to add a fifteen (15) percent markup in all back charges that are facilitated by the Construction Manager. If back charges are resolved without the involvement of the Construction Manager no markup will be applied.
33. Time and Material tickets must be approved by Construction Manager’s superintendent withing 24 hours of work commencing and reference the Change Estimate (CE) number. Cost associated with time and material tickets must be submitted to Construction Manager Project Manager within thirty (30) days of work commencing.
34. For the Submittal of pay applications, subcontractor is required to use GC Pay at no cost to the subcontractor.
35. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
36. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman’s Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. 034100-PRESTRESSED HOLLOW-CORE CONCRETE PLANK**F. PROJECT SPECIFIC SCOPE REQUIREMENTS:**

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Grout and grouting of keyways and butt joints. Grouting shall be completed before demobilization of each area. Under no circumstances subcontractor will leave the site without grouting installed planks.
2. Plank is to be designed to comply with UL requirements for a 2-hour fire rating as the design specifies.
3. Placement of all hooks, u bars, and flag bars straight rebar that lays on, lays in, or comes out of precast hollow core.
4. Provide shop drawings and erection drawings for all plank. Shop drawings should clearly show strand location.
5. Provide and install all bearing pads. Jacking and preloading of planking for adjustment as required.
6. Coordinate all floor openings as required.
 - a. BIM coordination will be utilized on this project. Once all openings have been approved and issued, this Subcontractor has 15 days to review and submit adjustments to their shop drawings.
7. Provide plugs at end of planks to allow for edge pour.
8. Hoisting as required to complete the work of this contract. Hoisting for others on a limited basis is included.
9. All temporary stairs and ladders as required are complete.
10. Horizontal and vertical control shall be provided on every level. All other layout is included.
11. All cut-out openings shall be grouted solid.
12. Weep holes shall be cast into all hollow core planking as required to drain all hollow core slabs after installation.
13. All penetrations shall be coordinated with other subs and show in final shop drawings.
14. Stockpiling the floor with materials will not be allowed.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

BID PACKAGE #0420
TURNKEY MASONRY
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **TURNKEY MASONRY PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

- i. Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.

5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.
6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this

Bid Package #: 0420

Turn Key Masonry

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Initial Here _____

work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting times 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.

26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.
27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS:

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **SECTION 04 05 03 - MASONRY MORTARING AND GROUTING**
2. **SECTION 04 20 00 - UNIT MASONRY**
3. **SECTION 04 72 00 - CAST STONE MASONRY**
4. **SECTION 07 21 00 - THERMAL INSULATION**
5. **SECTION 07 21 19 - FOAMED-IN-PLACE INSULATION**
6. **SECTION 07 65 00 - THROUGH WALL FLASHING**
7. **SECTION 07 95 13 - EXPANSION JOINT COVER ASSEMBLIES**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. The subcontractor shall provide labor, materials, and equipment to build and clean all required sample panels under this agreement at no cost to the Construction Manager. The approved sample panel will remain standing to provide the standards for the workmanship of the masonry work. All sample panels shall be constructed and completed for Owner/Architect review by such time to allow for the manufacturing and shipment of masonry units in accordance with the project schedule.
2. Protection of all roofing, metal decking, concrete slabs and sidewalks, railings, door and window frames, structural steel, prefinished flashings, stairs, handrails, and any other materials that occur at or under this work from mortar droppings and dropped block is required and included. The cost of all protection and cleaning of same is included in the Contract Price.
 - a. After cleaning, all interior blocks must be covered and protected. The masonry subcontractor is responsible for protecting this work for the duration of the job.
3. This subcontractor shall clean up all masonry debris created by this Work. All non-masonry material debris (other than block or mortar) shall be placed in the Construction Manager's dumpster. **Subcontractor shall remove all block, brick and mortar debris offsite. (Do not place in Job Dumpster) Any fees associated with dumping material in the jobsite dumpster will be back charged to the Subcontractor.**
4. Daily clean-up is expected; however, the final cleanup of masonry debris under the scaffolding shall take place directly after the scaffolding has been removed in each work area. Scraping and broom cleaning of floors is included. Collecting blown materials under this agreement is included.
5. This agreement includes all levels of masonry production, including bond type, pier work, rowlocks, sills, precast window sills, jamb return block, etc. The subcontractor shall complete all areas 100% prior to demobilizing, enabling subsequent trades to proceed (e.g., windows, rails, caulking, etc.).
6. The subcontractor will pay particular attention to the layout, width, and straightness of the block control joints. Subcontractor shall rake clean control joints of all mortar prior to the Construction Manager's caulking operation.
7. In addition to the control joints shown in the drawings, subcontractor is responsible for bringing to the attention of the Construction Manager and Architect if additional control joints are needed for a warrantable system. Subcontractor will submit proposed additional control joint suggestions to Construction manager and Architect for approval, before putting them in place at no additional cost.
8. This subcontractor will check the levelness and elevation of the concrete foundations prior to starting masonry work. Subcontractor shall inform Construction Manager in writing of any conditions which will prevent the Subcontractor from producing a first

- class masonry job within the specified tolerances of workmanship. Subcontractor shall submit written findings within three (3) working days following predecessor's installation.
9. This subcontractor will refer to the Construction Manager's approved hollow metal shop drawings, aluminum window and door frame shop drawings, louver shop drawings, etc., when determining the masonry opening sizes required. The construction Manager will provide the Subcontractor with approved shop drawings.
 10. All cold and hot weather requirements are included. Subcontractor will be required to follow all guidelines related to the protection of in place masonry and the conditions under which masonry work can proceed daily. Schedule delays due to Subcontractor's unwillingness to comply with production under cold and hot weather requirements are not acceptable.
 11. This subcontractor shall tool or strike all joints flush in areas to receive insulation, waterproofing, surface applied drywalls, furred drywall partitions, etc. Subcontractor is responsible for identifying such areas in compliance with manufacturer's recommendations for substrate conditions. All masonry shall be assumed jointed except at concealed exterior cavity walls and walls to receive ceramic tile.
 12. Subcontractor to provide all transitional membranes required to complete a warrantable system that adheres to the materials covered by this scope of work.
 13. Cleaning of all masonry materials furnished and installed under this Scope is included in accordance with manufacture's recommendations, Contract Documents, and as approved by the Architect. Subcontractor will provide a sample cleaning area (area indicated by Construction Manager) for review prior to beginning the block cleaning operation. All block cleaning will be in accordance with the procedures indicated in the specifications and by the manufacturer of the cleaning solution. Protection of windows, doors, hardware, planting, roofing and flashings, etc. is included in the performance of this operation.
 14. This subcontractor shall clean the building (block, etc.) on an as-needed area basis determined by the Construction Manager in order to release subsequent trades to work (i.e. caulking, landscaping, etc.).
 15. Subcontractor is responsible for protecting block work before and after block cleaning operations including, but not limited to, soil staining, walk board splatters, mortar, grout, etc. until receiving Architect's acceptance of work. Subcontractor shall provide a final re-clean of all masonry installations soiled during construction during Construction Manager's punch list phase and prior to Architect's punch list phase for each building.
 16. All walls are to be considered finish product. All mortar will be mixed by this Subcontractor in accordance with the Contract Documents and shall be proportioned as indicated by the mortar manufacturer's instructions by utilizing prefabricated 1 C.F. box for measuring sand.
 17. Subcontractor will ensure that consistent joint work is achieved, and the radius of jointer indicated is used by all masons on the crew and that the crew is tooling the joints correctly and at the correct time. Provide flush joints at all base locations as indicated

on the finish schedule notes and mock-up requirements. Subcontractor is responsible for identifying tooling joint types, locations, elevations above finish floors with ceiling heights, etc.

18. Subcontractor shall correct all punch list items indicated by either the Construction Manager or the Architect immediately upon notification to prevent delaying subsequent trades from proceeding with their work. All masonry shall be sawcut. All saw cutting shall be performed outside the building limit areas, or as otherwise approved by the Construction Manager, to limit dust exposure to the building components (exposed concrete, windows, MEP piping and conduits, light fixtures, mechanical equipment, ductwork, etc.).
19. Subcontractor shall protect on a daily basis all stored materials and the tops of all walls under construction from moisture in order to minimize potential efflorescence of the block and mortar.
20. Subcontractor is responsible for all layout of masonry walls, bond beams, block walls, wall openings, door and window frames, masonry coursing and bonding, embeds within this scope of work, block outs, control joints, expansion joints, joint covers, windows, louvers, fire extinguisher cabinets, toilet accessories, etc. Construction Manager will provide building control lines for Subcontractor (one north-south line, one east-west line, and one benchmark elevation) on a per building basis only.
21. Subcontractor shall coordinate all installations under this agreement with the Mechanical, Electrical, Fire Protection and Plumbing Subcontractors and the Contract Documents to ensure their items are embedded, thru-wall conditions and/or blocked-out in accordance with the Contract Documents.
22. This contractor shall participate in BIM coordination with MPE trades to ensure all precast through masonry are installed within one quarter of an inch ($\frac{1}{4}$ ") of modeled locations including bond beams. This subcontractor will be provided with BIM coordination access and drawings. Mason will participate in weekly BIM coordination calls.
23. Subcontractor will supply all incidental formwork and structural materials if required to support work under this agreement. This specifically includes materials and labor to install falsework for masonry cased openings, phased work requirements, expansion joint covers, door openings, window openings, louvers, in-set walls, recesses, arches, ductwork openings, door frames, etc. Subcontractor shall not use premanufactured CMU lintels unless submitted and approved by Architect.
24. All MEPF pipe sleeving shall be furnished by appropriate MEPF Subcontractor and installed by this Subcontractor. Layout of sleeving shall be by MEPF trades.
25. Exposed CMU will be "pointed up" and rubbed to accept specified finishes in accordance with Project Specifications, subsequent Subcontractors acceptance, and Architect's acceptance. Subcontractor shall "point" and rub all walls on an as-needed area determined by the Construction Manager in order to release subsequent trades to work (i.e. painting, ceiling grid, etc.).
26. When Masonry walls need to match the elevation of other structural members such as: roof trusses and glulam beams, for roof installation, this subcontractor shall coordinate

- elevation and contour of adjacent structure.
27. This subcontractor shall coordinate angle bracing for walls to structure above with MEP coordination drawings/model.
 28. This Subcontractor is responsible for all costs associated with re-painting should such pointing and patching not be completed in accordance with Contract Documents and Architect's acceptance after said Subcontractor stated work had previously been completed.
 29. Construction Manager's Electrical Subcontractor will provide OSHA required illumination only by natural or artificial means. This Subcontractor shall be responsible for providing additional task lighting above these requirements, if needed, to complete wall finishes.
 30. Subcontractor shall provide all cutouts for toilet accessories, fire extinguisher cabinets, Knox boxes, door hardware, lockers, display cabinets, access panels, MEPF items, etc. Product data and layout information will be provided to the Subcontractor by the Construction Manager for items requiring cutouts and block outs.
 31. Concrete Subcontractor will provide major cleaning of dirt off of footings prior to start of masonry on a one time only basis. If Subcontractor fails to begin installation of masonry on foundations at that time, and the said foundations require re-cleaning, this will become the responsibility of this Subcontractor. Minor cleaning (sweeping) of foundations will be performed by this Subcontractor. Subcontractor is responsible for all dewatering of excavations while performing work under this agreement at excavation locations.
 32. Subcontractor will provide all pumping, dewatering, and de-mocking of their area that can collect water.
 33. All masonry foundation stem walls shall terminate at elevation appropriate for Concrete Subcontractor to place concrete slab-on-grade prior to Subcontractor continuing walls vertical and without forming slab edges (stem walls shall extend to or above finish floor slabs). At the time of foundation stem wall installation, Subcontractor shall also extend support block to design location (below finish site grade) to receive block including concrete fill, insulation, etc. to avoid re- excavation of building foundations.
 34. Hollow metal door and window frames which build into masonry walls will be furnished by others to Subcontractor as follows:
 - a. Limited usage of HM frames will be utilized on this project. Where HM frames are required by code, they will be bolted frames. This subcontractor shall be responsible for the filling of these frames with grout.
 32. Subcontractor agrees to let others utilize in-place scaffold after hours or without interfering with work under this agreement for the duration scaffolding is erected by this Subcontractor, provided indemnification and/or insurance certificates are provided to this Subcontractor from each Subcontractor utilizing scaffold.
 33. All walls shall be braced if required per OSHA requirements.
 34. Subcontractor shall allow time and provisions for Construction Manager, Owner and Architect to visually inspect all cavity wall and head flashings installed under this agreement

- prior to concealment. Failure to obtain such inspections may require Subcontractor to expose concealed Work at no additional cost to Owner or Construction Manager.
35. All wall cavities shall be kept clean of all debris and mortar droppings. Subcontractor is responsible for cleaning all cavities as directed by Architect.
 36. Pre-wetting of all masonry prior to installation is included per Contract Documents.
 37. Subcontractor will refer to Construction Manager's approved window/curtainwall, hollow metal and louver shop drawings when determining the masonry opening block returns at openings to provide sufficient amount of returns to accommodate window/louver/door installations for anchorages and caulking without exposing cavity or requiring backing materials by others not shown on documents. All block returns shall be saw cut and true at all abutting masonry, concrete or metal stud assembly substrates.
 38. Subcontractor shall coordinate block projections, returns, etc. to provide smooth block returns at overhead door openings receiving steel jamb plates, hollow metal door installations, louvers, window returns, etc.
 39. Subcontractor is responsible for designating, furnishing, installing, maintaining and removing two safe entrances into buildings for others for the protection from overhead debris for the entire duration of performing any operations under this agreement. Safe entry shall have appropriate signage identifying safe entry and shall have safety fencing installed to direct pedestrian flow to safe entry and covered walkway if separation cannot be achieved from overhead work.
 40. Subcontractor is responsible for ensuring all quality control inspection requirements outlined in the Contract Documents are adhered to throughout the Project. Subcontractor is responsible for notifying Construction Manager and governing agencies of all inspection request.
 41. The following items including, but not limited to, are to be furnished and installed by Subcontractor complete:
 - a. Masonry sand and aggregates.
 - b. Masonry concrete fill/grout including vertical and horizontal cell fills, bond beams, vertical cells at hollow metal frames, CMU below finished floor, grouting of the hollow metal door and window frames, foundation block cavity, etc.
 - c. All block and CMU expansion material, compressible fillers and control joint materials.
 - d. Surface mounted wall to wall expansion joint covers **and gaskets** as shown on the drawings. **(Addendum 2)**
 - e. Masonry joint reinforcing including ties, dovetail anchors, wire reinforcing, etc.
 - f. CMU of all sizes, fire ratings and shapes indicated including if specified bullnose units, fire rated units, scored units, structural units, architectural units, weight classifications, etc.
 - g. All masonry through wall flashing indicated is included. This shall include the furnishing and installation of through-wall flashing at window sill application locations that have masonry backup conditions. (Removed in Addendum ES02)
 - h. Cleaning of all items installed under this scope.
 - i. Cavity drain mat, nets, drip boards, weep vents, wicking material, etc. is included (Removed in Addendum ES02).

- j. Subcontractor shall provide all compressible fillers as required at the top of wall conditions.
 - k. All z-ties including sealing of penetrations of membrane flashings installed under this agreement.
 - l. All reinforcing steel (rebar) and bar positioners.
42. Furnishing, installing, maintaining and removal of all exposed rebar safety caps for dowels, etc. are included. Removal shall only occur under this agreement when concealed. Safety caps shall be installed on all exposed rebar installed under this agreement. Subcontractor is also responsible for the removal and placement of rebar caps installed by Concrete Subcontractor in a barrel(s) and turnover to Concrete Subcontractor.
43. Subcontractor is responsible for the cleanliness of all reinforcing steel prior to concrete/grout placement.
44. Subcontractor is responsible for the removal and disposal off-site of all extra reinforcing steel and shall not utilize Construction Manager's dumpster for such disposal.
45. The following items will be furnished only by the other trades for unloading, distribution, and installation by this Subcontractor:
- a. Loose masonry and block steel lintels (of all weights and lengths) set in or bearing onto masonry to include all associated anchor bolts.
 - b. Embeds, bearing plates, and anchor bolts located within this work.
 - c. Roofing related counter flashings required to be built-in block masonry.
 - d. Non-formwork related sleeving requirements for PME Contractors built into work under this agreement.
 - e. Structural steel masonry wall anchorage devices to columns, beams, slab edges, etc.
 - f. Dowels from footings or foundation walls will be provided by Concrete Subcontractor to meet the spacing and minimum lap requirement starting at concrete placement only.
46. Subcontractor is responsible for providing a fall protection plan and engineered system signed and sealed by a licensed and registered Engineer in State of North Carolina. Subcontractor shall furnish and install a fall protection system to allow masonry worker to install masonry block at exposed areas. All systems shall be per OSHA guidelines in meeting a guardrail and tie-off system.
47. Subcontractor shall provide shop drawings indicating control joint locations as indicated on plans and not exceeding 30' of continuous wall length to verify layout, quantity, aesthetic locations, masonry coursing layout, lintel conditions and bearing, door/window openings, etc.
48. Daily reports shall provide actual daily block installations quantities and listing of total quantity of block installations to provide a percent complete on a per area basis.
49. Subcontractor is responsible for the engineering, layout, and installation/removal of temporary landing platforms required for material staging and trash removal. Subcontractor is responsible for furnishing, installing, maintaining and removing any safety railing requirements at these locations.
50. Subcontractor has reviewed the Drawings & Specification for this Project, has found no obvious omissions, and further agrees that the Work of this Agreement and the Project can

be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.

51. Subcontractor shall be responsible for vehicular and pedestrian traffic control while performing this scope of work.
52. Subcontractor is responsible to coordinate and schedule the installation of through wall metal flashing with the roofing subcontractor.
53. All HM Frames in masonry construction are to be set by the Masonry Subcontractor and provided by others.
54. The following items including, but not limited to, are to be furnished and installed by Subcontractor complete:
 - a. Block of all types, sizes, and special shapes indicated in the Contract Documents. Subcontractor is responsible for field cutting all special shaped blocks, lipped block, etc. from block selections. All mortar including admixtures, colors, etc. as required. Ensure all grout is properly consolidated to meet the requirements of the specifications and design.
 - b. All Foamed-In-Place insulation and air barrier required for all exterior wall assemblies. Contractor should anticipate multiple mobilizations for this work.
 - c. all Foamed in-place insulation and air barrier behind the metal wall panels.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

**BID PACKAGE #0510
STRUCTURAL STEEL
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **STRUCTURAL STEEL**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **05 12 00-STRUCTURAL STEEL**
2. **05 21 00-STEEL JOISTS**
3. **05 31 00-STEEL DECK**
4. **05 50 00-METAL FABRICATIONS**
5. **05 51 00-METAL STAIRS**
6. **05 52 00-METAL RAILINGS**
7. **07 72 33-ROOF HATCHES**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor has inspected the site and is familiar with access, egress, staging, hoisting requirements, restraints, etc.
2. Perimeter safety tie-off cabling system including maintenance of same for duration of subcontractor's activities.
3. This subcontractor shall be responsible for coordinating all deliveries with the CM for truck loading, unloading, sequencing, delivery frequency, etc. This subcontractor shall assume multiple mobilizations during the work on this project.
4. This subcontractor shall be responsible for the erection of all structural steel, stairs, miscellaneous steel, etc.
5. **All Project Stairs must be expedited.** Once each stairwell opening is completed, field measurements are to commence immediately. Stairs are to be erected no later than 4 weeks after the stairwell openings are turned over for field measurements.
6. This subcontractor is responsible for furnishing, installation, and removal of all necessary temporary safety brackets, safety cables and fall protection devices for an OSHA approved erection of steel under this agreement. Subcontractor shall provide Construction Manager with copies of Subcontractor's fall protection plan, hoisting and rigging plan, crane(s) annual inspection and recent 3rd party inspection, safety policies, etc. prior to starting work.
7. This subcontractor has included all falsework, scaffolding, engineering, temporary shoring and bracing, support members, erection angles, cables, loose hardware, embeds, welding, drilling, and anchors necessary to support framing members during erection. Any and all patchwork required, as a result of temporary systems utilized, which is associated with the erection of this Scope of Work shall be the responsibility of this Subcontractor.
8. This subcontractor shall be responsible for providing safe access for the testing agency and Engineer of Record to the Work being fabricated, stored, or erected so that required inspection and testing may be accomplished. It is understood and agreed that any Work under this Scope found to be in non-compliance shall be corrected and re-tested at no cost to the Construction Manager and/or Owner.

9. This subcontractor shall include certified welders as required and provide credentials prior to start of work.
10. This subcontractor will provide weld shields and fire blankets to protect surrounding finishes and visual harm to others.
11. This subcontractor shall utilize gas or diesel operated welding machines required for the Work under this Agreement. It is understood and agreed that temporary power will not be available onsite for welding operations.
12. This subcontractor shall be responsible for the cleaning of all welding slag, etc. from field welded connections and the touch up of primer paint and/or touch up galvanizing of these connections as well as bolted connections, and any abraded areas of shop paint.
13. Field painting of all unpainted bolts, nuts, etc. shall be performed after Engineer of Record and Testing Agency inspection.
14. Furnish, install, properly secure/anchor and label temporary protections (use of plywood/handrails) over all floor and roof openings. These protections will be clearly identified and removed by others.
15. This subcontractor shall be responsible for the coordination with the Work of other trades as to prevent rework, damages, or delays.
16. Any drilling or core drilling of concrete and masonry to complete this Scope is included, especially installation of expansion and epoxy anchors is included. All cleaning and patching of spalled areas due to drilling and coring is the responsibility of this This subcontractor.
17. This subcontractor shall review both Architectural and Structural Drawings in conjunction with approved Fabricator Shop Drawings for conflicts in configuration and placement of building perimeter angles, slab edge dimensions, stair and openings, architectural feature openings, etc.
18. This subcontractor shall review Mechanical, Electrical, and Plumbing Drawings in conjunction with the Architectural and Structural Drawings for all miscellaneous structural framing and blockouts for beam penetrations, roof openings, floor openings, equipment loads, equipment locations, etc. This subcontractor acknowledges this MEP information must be coordinated with others and said layout information may not be available or provided to This subcontractor during initial fabrication/erection shop drawing preparation. This subcontractor will interpret Contract Drawings for coordination information during shop drawing preparation and identify such requested information via “clouding”. All requested information shall be obtained during shop drawing approval and this Subcontractor shall make all final corrections prior to fabrication incorporating all coordinated information at no additional cost to Construction Manager.

19. Any deviations, changes, and/or discrepancies differentiating the shop drawings from the Contract Documents shall be **clouded and clearly marked** requesting the Architect's/Engineer's and the Construction Manager's approval.
20. This subcontractor is responsible for cutting all holes in assemblies installed under this agreement. Holes for roof penetration shall be coordinated with roof curb and handrail installations to maintain a safe work environment.
21. All required layout is included to perform this subcontractor's work. Construction Manager will provide horizontal benchmarks and vertical control lines. This subcontractor is responsible for transferring grade to all anchor bolts from benchmark, and adjust with nuts, washers, etc. to maintain a plumb and level installation, and erecting steel measured from the control lines.
22. This subcontractor shall notify Construction Manager of any, and all, required repairs, noncompliance items, mis-fabricated items, etc. due to fabrication or detailing errors so Construction Manager can properly and timely notify Engineer of Record for recommendations and repair approvals.
23. This subcontractor shall submit to the Construction Manager all welders' certificates and crane inspection certifications ten (10) days prior to starting work. All certifications and inspections shall be current in accordance with OSHA, the Contract Documents and Metcon's safety policies.
24. This subcontractor shall perform surface preparation, shop painting and hot dipped galvanizing of materials supplied under this agreement per each specific specification section. This subcontractor is responsible for ensuring prime painting material is compatible with the finish painting of exposed steel in accordance with specifications.
25. This subcontractor shall coordinate galvanizing / prime painting / non-painting of structural and metal deck with the fireproofing Subcontractor prior to submitting fabrication shop drawings for review.
26. Verify which components furnished under this agreement will have field applied fireproofing by others and will require adhesion considerations under this agreement.
27. This subcontractor is responsible for cleaning steel upon completion of the installation. Cleaning shall include the removal of oils, grease, dirt, etc. associated with the storage, handling, or erection of the materials provided under this agreement.
28. Provide pre-drilled holes in specified steel, as necessary, for attachment of work by others including holes for wood blocking bolts, holes in embeds for anchoring to formwork, etc.
29. This subcontractor is responsible for the separation of all dissimilar materials.

30. Provide signed and sealed engineered shop drawings by a registered and licensed Engineer in State of North Carolina as indicated in Contract Documents.
31. The following items shall be **furnished and installed** by This subcontractor including all layout, hoisting, scaffolding, unloading, bolts, expansion anchors, drilling, connection details and materials, welding, painting, and galvanizing, etc.:
- a. All building structural support columns, beams, bent plates, base plates, kickers, joist system, bracing, moment connections, shimming materials, beam seats, stiffener plates, cap plates, decking, etc.
 - b. All structural steel columns, beams, and connections.
 - c. All support frames and decking at infill areas.
 - d. All roof decking.
 - e. All miscellaneous steel clips, angles, and frames.
 - f. All steel ladders including roof hatch access ladders.
 - g. All galvanized steel ladders as indicated for upper roof access.
 - h. All mechanical room ladders as indicated in the contract documents.
 - i. All neoprene bearing pads (if any), weld plates, welding, moment connections, etc.
 - j. All required field connectors and erection bolts including epoxy and expansion bolt type anchors for masonry/concrete conditions to complete erection of work required under this agreement.
 - k. All base plate, shim materials and leveling nuts, etc.
 - l. All metal roof truss non-gauged structural steel bracing.
 - m. All required framing around roof openings, curtain wall, sky lights, etc. Coordination with other trades for opening sizes is included.
 - n. This subcontractor shall paint all steel below grade with asphalt paint.
 - o. All building interior and exterior handrails, guardrails, and stairs, including pickets.
 - p. Perimeter safety cabling system including maintenance of same for duration of subcontractor's activities; safety cabling to be removed by others. Provide safety cable plan to CM for review. Include Top and Mid-rail cables
 - q. All steel that is required for roof edge blocking.
31. The following items shall be **furnished only** to Construction Manager by This subcontractor including furnishing of all required bolts, expansion anchors, sleeves, connection details and materials, etc.:
- a. Column or beam anchor bolts embedded in concrete or masonry.
 - b. All bearing plates required for structural steel and/or joist system.
 - c. All sleeves for any items under this agreement to be cast into concrete (sleeves for rails).
 - d. Embed plates at concrete or masonry for steel beam connections, metal roof deck, Roof edge blocking support, etc.
 - e. Loose masonry steel lintels for masonry and brick veneer.
 - f. All steel bollards
32. This subcontractor shall provide all perimeter and opening barricades (two-line 1/2" wire rope/cable) and edge angle toe boards all floors and roof as required by the authority having jurisdiction for safety. Provide intermediate posts at a minimum of 10' O.C. Provide turnbuckles for removable areas for staging materials as directed by Construction Manager

- (CM). Install barricades and edge angle toe boards immediately upon the creation of the opening or edge condition. Maintain barricades throughout the duration of this scope of work and/or as directed by CM. Wooden toe boards will be installed and maintained by others upon completion of concrete slab fill.
33. A hoisting plan will be required for approval by CM
 34. All notations on contract documents relating to STRUCTURAL AND MISCELLANEOUS STEEL referenced as “by General Construction Manager” or by “Construction Manager” shall be assumed to be included in this agreement by this subcontractor.
 35. Provide an allowance of **\$25,000** to cover all miscellaneous steel resulting from coordination with all other subcontractors. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
 36. This subcontractor has reviewed the Drawings & Specification for this Project. This subcontractor has found no obvious omissions and further agrees that the Work of this Agreement and the Project can be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.
 37. This subcontractor to supply and install all decking on light gauge trusses.
 38. This subcontractor is to supply and install all welded bearing pads per details.
 39. **This subcontractor is responsible for all Steel to Storefront attachments. This is to include all seats, angles, bolts, saddles, clips, etc.**
 40. If guaranteed dimensions are required, each subcontractor shall be responsible to provide templates with durability to withstand installation. Each template shall have layout dimensions if it is to be installed by another trade. Each subcontractor is responsible for confirming the accuracy of each template installed immediately before and after placement

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. Testing (by Owner). All retesting costs are the responsibility of this Subcontractor.
2. Grouting under column base plates (by Concrete Subcontractor)
3. Metal studs, slip connection and deflection tracks (by Drywall Subcontractor)
4. Roof hatches (by Roofing Sub).

**BID PACKAGE #0550
ORNAMENTAL METALS
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **ORNAMENTAL METALS**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

Bid Package #: 0550

ORNAMENTAL METALS

Page 5 of 8

Initial Here _____

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 05 71 00 - DECORATIVE METAL STAIRS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All products furnished under this agreement, including accessories, shall be prefinished in accordance with Contract Documents and the Architect's approved colors, textures, etc.
2. The subcontractor shall field measure and verify all rough openings, slab conditions, and dimensions prior to fabricating and installing assemblies and glass. Twenty-eight (28 days) prior to starting wall construction activities, the subcontractor will issue final field use drawings, approved by the architect, to the contractor, masonry subcontractor, and metal stud/drywall subcontractor.
3. this Subcontractor is responsible for separating metal railings and other surfaces from sources of corrosion of electrolytic action at points of contact with dissimilar materials.
4. This subcontractor shall provide the manufacturer with testing for system performance requirements as specified under the Project Specifications, outlining the performance characteristics of all requirements under Project Specifications.
5. This subcontractor is responsible for all wood blocking, wood trim, spacers, shims, etc., to accommodate existing masonry substrate conditions, as detailed in the Contract Documents.
6. This subcontractor is responsible for all required field touch-up painting of factory finishes as may be required after installation and prior to Owner acceptance. Use materials and preparation as recommended by the paint manufacturer.
7. This subcontractor is responsible for protecting this scope of work until the owner accepts railing, glazing, and caulking operations.
8. All assemblies, including factory glazing, shall be shipped and installed concurrently with rail installations to provide immediate secure conditions for this Project.
9. Scheduled finish dates shall mean installation is complete.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #BP0710
DAMP PROOFING, WATERPROOFING, FIREPROOFING & JOINT PROTECTION
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete Waterproofing, & Joint Sealants. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. (Addendum 2)

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

1. Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.
6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.

7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
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13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.
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18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
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23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.
27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.

28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.

- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATION:

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **SECTION 07 11 00 - DAMPPROOFING**
2. **SECTION 07 13 00 - SHEET WATERPROOFING**
3. **SECTION 07 14 16 - COLD FLUID-APPLIED WATERPROOFING**
4. **SECTION 07 27 00 - AIR BARRIERS**
5. **SECTION 07 84 00 - FIRESTOPPING**
6. **SECTION 07 90 00 - JOINT PROTECTION**
7. **SECTION 07 95 13 - EXPANSION JOINT COVER ASSEMBLIES**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor is responsible for verifying the compatibility of shop-applied coatings with topcoats applied in the field. Surface preparation and barrier coats, as required to achieve compatibility of primer and topcoats, are part of this Scope.
2. This subcontractor is aware that custom and multiple colors will be required for Work of this Scope to match substrate colors in accordance with the Architect's approved color selections for this Scope of Work.
3. All masking and protection of existing work are included. Excess material shall be removed using products and methods that do not damage finished surfaces. The subcontractor shall remove all protection materials and shall be responsible for all costs should those materials damage materials by others upon removal.
4. This subcontractor is responsible for cleaning joints of foreign dust materials before caulking. The removal of zip strips from concrete expansion joint materials is included in this Agreement.
5. This subcontractor protects all joints from traffic and weather (rain) after installation.
6. All samples and mock-ups are included for Architect's approval.
7. All manufacturer and required field testing is included.
8. Proper ventilation and protection to ensure fumes flow out of the building during the curing period.
9. Top of wall fire-safing.
10. All through penetration, fire stopping of both rated and non-rated assemblies is done.
11. The following is a general list of Joint Protection inclusions, but is not strictly limited to the following whether indicated on drawings or not:
 - a. All building mechanical louvers.
 - b. All building hollow metal door and hollow metal window frames (both sides of frames) to masonry wall and/or gypsum wallboard conditions.
 - c. All building exterior hollow metal door frames (interior and exterior sides for frames) to masonry/brick wall conditions.
 - d. All exterior brick veneer and masonry joints including all control joints, **brick expansion joint cover and gasket by others**, brick copings/flashings, brick-to-steel shelf lintels, veneer penetrations of conduit, hose bibs, brick caps and windowsills, abutting concrete, etc. **(Addendum 2)**
 - e. All soffit and fascia metal panel perimeter caulk to brick veneer.
 - f. All sidewalk and concrete paving control and expansion joints including perimeters to following items: building brick, bollards, concrete curbs, asphalt paving, brick pavers, brick site and seat walls, concrete stairs, etc.
 - g. Caulking of aluminum canopy to brick.
 - h. All rated and non-rated masonry wall caulk requirements per wall types, etc. This work shall include tops of walls, perimeters of walls, penetrations of walls, etc.

- i. All hollow metal door and window frames.
- j. All masonry control joints.
- k. Caulk tops and ends of all millwork backsplashes.
- l. All access panel perimeters to ceiling and/or wall substrate.
- m. All fire extinguisher cabinet perimeters to wall substrate.
- n. All exposed structural steel perimeters to brick veneer, metal panels, etc.
- o. All joints where masonry wall or brick veneer abuts steel column or beam.
- p. Caulk all joints at metal panels and brick.
- q. All fire caulk & fireproofing at penetrations in fire assemblies.
- r. All penetrations that are made by the MEP and Fire Protection trades shall be their responsibility. This subcontractor shall be responsible for fire caulking any other remaining penetrations.

12. All manufacturers and required field testing.

13. This subcontractor is responsible for obtaining the Architect's approval of all installations prior to demobilizing the site at the end of each phase to accept work before it is concealed by other trades. The CM's sole approval without the Architect's concurrence is unacceptable and shall not be grounds for this Subcontractor not to comply with specification requirements under this agreement.

14. If guaranteed dimensions are required, each subcontractor shall be responsible for providing durable templates that can withstand installation. Each template shall have layout dimensions if it is to be installed by another trade. Each subcontractor is responsible for confirming the accuracy of each template installed immediately before and after placement.

15. All notations on contract documents relating to FIRESTOPPING and JOINT PROTECTION referenced as "by General Contractor", "by CM", or by "Construction Manager" shall be assumed to be included in this agreement by Subcontractor.

16. Included is all masking and protection of existing work. Excess material shall be removed with products and methods which cause no damage to finished surfaces. The subcontractor shall remove all protection materials and shall be responsible for all costs should protection materials be damaged materials by others upon removal.

G. DESCRIPTION OF SCOPE EXCLUSIONS:

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. Caulking of aluminum window exterior perimeters. By Glazing/Curtain wall/Storefront Subcontractor.
- 2. Caulking of roof-related flashings. By Roofing subcontractor.

BID PACKAGE #0724

EIFS

(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **EIFS PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. **CONTRACT DOCUMENTS:**

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. **BONDING REQUIRMENTS:**

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. **SUBMITTAL REQUIREMENTS:**

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

1. Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

- schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.
17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
 18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
 19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
 20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
 21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
 22. This subcontractor will abide by local noise ordinances as required.
 23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
 24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
 25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
 26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

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 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
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 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
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 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
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41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
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Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATION:

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 07 24 00 -EXTERIOR INSULATION AND FINISH SYSTEMS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor to furnish and install all drainable EIFS.
2. Subcontractor responsible for all special inspections.
3. The subcontractor is responsible for the supply and installation of soffit vents.
4. Subcontractor shall have EFIS Insurance. Proof of Insurance must be provided before work begins. Failure to provide voids subcontract and no payments will be made.
5. Subcontractor to be a Certified Applicator.
6. Subcontractor shall verify all seismic requirements per the applicable codes/requirements and ensure that the ceiling system complies.
7. Provide all hard-coat and drainable EIFS systems per specification sections and Contract Drawings.
8. The subcontractor has reviewed the finish schedule for color, texture, and pattern of the finish coat and caulking.
9. The subcontractor is responsible for supplying and installing all flashings at the bottom of the EIFS and any flashing necessary for the installation of the EFIS system. Other flashings are done by others.
10. Provide all required mock-ups of work for Owner/Architect acceptance.
11. The subcontractor shall clean, straighten, and punch-list all EIFS for the Construction Manager's and Architect's acceptance prior to the owner's final acceptance.
12. Provide all installations per manufacturer recommendations and listed UL ratings assemblies.
13. Ensure that all waterproofing is included as part of a warranted manufacturer approved assembly.
14. This subcontractor must provide insurance specific to all aspects of the scope and subsequent damage as caused by a system failure. This policy is subject to review.
15. Subcontractor is responsible for all cleanup of debris from materials and installation of EIFS.
16. Subcontractor is responsible for coordination with Metal Stud Subcontractor.
17. Subcontractor is responsible for waterproof barrier and flashing at all openings withing their scope of work.
18. Subcontractor is responsible for all caulking of materials withing their scope of work, to include caulking to dis-similar materials per manufacturer's recommendations.
19. Subcontractor shall final clean per specifications following completion of all surrounding installations prior to Owner's acceptance of building.

G. **DESCRIPTION OF SCOPE EXCLUSIONS**

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #0740

Wall Panels

(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete WALL PANELS PACKAGE. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS:

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 07 41 13 - METAL ROOF PANELS**
- 2. SECTION 07 42 13 - METAL WALL PANELS**
- 3. SECTION 07 42 93.13 - METAL SOFFIT PANELS**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor to furnish and install all Interior and exterior metal wall panels.
2. Subcontractor shall furnish and install all exterior metal wall panels and Metal Soffit Panels including but not limited to all prefinished panels, gaskets, panel mounting systems, stiffeners, metal furring, trim metals, steel sub girts/hat channels, hangers, flashings, closures, sealants, covers, wraps, fillers, soffits, borders, other metal trim items and accessories, copings, weather-stripping, fasteners and anchors, clips, rigid insulation, shims, spacers, and all other incidental items required for a complete and weather-tight system.
3. Subcontractor is responsible for the supply and install of all metal furring channel and J Closures for this scope of work to create a complete system.
4. Subcontractor to furnish and install the Rainscreen System complete to satisfy manufacturer's warranty.
5. Subcontractor to provide and install all required flashing and trim to complete installation.
6. Provide all Metal wall panels per specification sections and Contract Drawings.
7. Subcontractor has reviewed the finish schedule for color, texture and pattern of finish coat and caulking.
8. Supply & install all flashings with drip edge at bottom of Metal wall panels, and any other flashing required for proper installation of this scope. Other adjacent flashings by others.
9. Coordination and/or Cutting of spray foam insulation on an as needed bases for the installation of the wall panel, is in this scope of work.
10. Provide all required mock-ups of work for Owner/Architect approval.
11. Subcontractor shall clean, straighten and punch-list all the materials installed by this scope for Construction Manager's and Architect's acceptance prior to final acceptance by the owner.
12. Ensure that all waterproofing is included as part of a warranted manufacturer approved assembly.
13. Subcontractor is responsible for all cleanup of debris from materials and installation of materials included by this scope.
14. Subcontractor is responsible for coordination with Metal Stud/framing Subcontractor, Canopy subcontractor, mason, storefront/glazing subcontractor, spray foam insulation

- subcontractors or any other subcontractor whose work affects the sequencing of installation for this scope.
15. Subcontractor is responsible for waterproof barrier and flashing at all openings within this scope of work.
 16. Subcontractor is responsible for all caulking, to include caulking to dis-similar materials per manufacturer's recommendations within or adjacent to this scope of work.
 17. Subcontractor shall final clean per specifications following completion of all surrounding installations prior to Owner's acceptance of building.
 18. Subcontractor is responsible for protection of all installation surfaces from scratches, dents, etc. until wall panel installation and caulking operations under this agreement are 100% complete by Subcontractor. Subcontractor shall notify Construction Manager in writing when the project or a mutually designated portion or area thereof, is 100% for Construction Manager's review, at which time Construction Manager will accept wall panel conditions with the exception of those items and conditions identified during walk-thru acceptance.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #0750
TURNKEY ROOFING
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **TURNKEY ROOFING PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

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Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

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2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
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5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.
6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.

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7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
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15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.
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18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
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38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
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41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

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42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **SECTION 07 22 16 - ROOF INSULATION**
2. **SECTION 07 52 16 - MODIFIED BITUMEN ROOFING – Alternate #9**
3. **SECTION 07 54 23 - THERMOPLASTIC-POLYOLEFIN ROOFING**
4. **SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM**
5. **SECTION 07 72 00 - ROOF ACCESSORIES**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor Provide all required gutters and downspouts.

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2. All downspouts that connect to in ground piping require a decorative shroud around the point of interconnection.
 - a. Shroud/cover shall be removable.
 - b. Made out of sheet metal with riveted or welded corners.
 - c. Color to match downspouts.
3. The subcontractor will provide walk off mats as shown on plans and supply material specified in the specifications.
4. The subcontractor will provide and install the acoustical insulation. The roofer is responsible for placing the insulation in the metal decking and ensuring it remains free from moisture until the roofing system is complete.
5. Includes all metal bands and associated wood blocking.
6. The subcontractor will supply all flashing around roof hatches as indicated in plans and specifications.
7. All Field measurements and verification are included. The subcontractor shall notify the Construction Manager, in writing, at least seven (7) days before equipment installation, of any field discrepancies found during field measurement.
8. Subcontractor acknowledges that not all roofing systems and components are shown on the Drawings and that Subcontractor has allowed and will supply a sufficient roofing system to meet the intent of the Contract Documents and manufacturer's recommendations. The subcontractor is responsible for all costs associated with modifying Contract Drawing details relating to this agreement.
 - a. Changes to waterproofing details such as through wall flashing and other related items shall be covered to ensure the intent of the drawings is covered as mentioned in the above statement.
9. Changes to waterproofing details such as through wall flashing and other related items shall be covered to ensure the intent of the drawings is covered as mentioned in the above statement.
10. The subcontractor is responsible for cleaning and or protecting all surrounding finished installations from work performed under this agreement to prevent damage.
11. Provide all OSHA required fall protection systems and maintain through the end of the project for shared usage with all other trades as needed. Include fall protection systems capable of securing up to 20 other tradesmen.
 - a. Harness and PPE are to be provided by each subcontractor.
12. Subcontractor is responsible for all furring, blocking, cants, backing or any other manufacturer requirement that are not indicated on contract documents to provide a complete and warrantable system.
13. All components and assemblies installed under this agreement shall meet any specified fire rating requirements indicated on the Contract Documents from the substrate provided by others.
14. All systems, flashings, accessories, etc. furnished under this agreement shall be prefinished in accordance with contract documents to match Architect's approved samples in color, pattern, texture, etc.

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15. Subcontractor is responsible for protecting all on-site stored materials including any materials supplied by other contractors for this subcontractor to install.
16. Daily cleanup of debris is included. General Construction Manager shall provide a single on-site location or dumpster for removal from site by others. Blown debris pickup is included in this agreement.
17. Subcontractor shall place all control joints and expansion joints required by this Scope of Work where shown on the Drawings or specifications, and if not indicated Subcontractor will install in locations directed or required for a complete and proper installation of the roofing system per manufacturer's recommendations.
18. This Subcontractor is responsible to separate dissimilar metals from electrolytic actions.
19. Subcontractor shall broom clean and wash-down roof areas. Subcontractor is responsible to protect surrounding substrates and finishes installed by others from damage by performance of work under this agreement. Manufacturer's recommended procedure for touch-up painting all abrasions, scratches, etc. is included following cleaning procedure noted above for Owner and Architect acceptance of work.
20. Subcontractor shall not overload building structure system when storing products on building roof structure.
21. Subcontractor shall schedule frequent manufacturer(s) inspections of the materials and installation procedures for a warrantable system. Copies of inspection reports shall be provided to Construction Manager weekly. Any specified field testing, roof flood testing, hosing, etc. is also included.
22. All required or specified mock-ups are included.
23. The subcontractor understands that the metal roof decking will be provided by others. The subcontractor acknowledges new roofing will be installed over a roofing substrate per tolerances specified under the specification section for ***Steel Roof Decking if applicable***.
24. The subcontractor understands that the roof topping slab shall be provided by others. The subcontractor acknowledges new roofing will be installed over a roofing substrate installed per tolerances specified under the specification section for lightweight ***concrete if applicable***.
25. Subcontractor shall provide and install all roof membrane, fasteners, cant strips, flashings and boots, wood blocking, cricket insulation, saddles, cants, adhesives, termination bars, caulking, mastic, primers, sealers, protective coatings, underlayment's, base sheet, recovery boards, coping, edge trims, vapor retarder, separation layers, counterflashing's, fire retardant gypsum/barrier board (including as specified and required with UL assemblies for roof assemblies), accessories, membrane cleaners, etc. required to provide a waterproof and warrantable roof system.
26. All preformed and prefinished flashings are included per following as specified and in color(s)/texture(s) to match Architect's approved samples.
27. All roof taper is included for proper drainage. Subcontractor shall coordinate insulation layout with structural drawings, roof drain layout, existing and new structure substrate conditions, scuppers, mechanical curbs, etc. in achieving proper specified slope requirements. Structure substrate shall be installed in accordance with structural drawings. The subcontractor shall ensure that proper roof drainage, rework for this to be this subcontractor's responsibility.

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28. The mechanical subcontractor will provide the Mechanical roof curbs. However, this subcontractor will be responsible for all required flashing and for coordinating the size and configuration of these roof curbs with the mechanical subcontractor.
29. Subcontractor is responsible for all substrate preparation/backing to turn-up roof membrane at windows, metal panels, masonry, etc.
30. All roof and roof-related caulking required for a watertight roof system is included. This includes but is not limited to, caulk at flashings to flashings, caulk flashings to brick, caulk flashings to steel beams/tubes, caulk flashings to metal panels, caulk above termination bars to substrate, caulk parapet and edge metal copings to brick or metal panels at building exterior sides, etc.
31. Flashing of all roof penetrations and associated flashings including plumbing vents, fan curbs, stacks/flues, electrical penetrations, structural steel, lightning protection, etc.
32. All roof related counter flashings, etc. are included.
33. Subcontractor shall provide any required masonry counterflashing reglets in a timely manner to be installed during masonry construction, etc. Saw cutting into brick is included.
34. All prefinished custom fabricated flashings at fascia including drips, etc.
35. All metal cap flashing with continuous cleat over PT wood blocking.
36. The subcontractor shall notify Construction Manager in writing within twenty-one (21) days prior to mobilizing to each area of noncompliance or rework requirements of existing substrate or rough opening conditions. Failure to notify Construction Manager of any inefficiency will result in the subcontractor assuming full acceptance of substrate, rough opening conditions and locations.
37. The subcontractor shall prepare detailed shop drawings identifying all required rough opening sizes and locations, all metal stud locations, structural angle locations, etc.
38. All systems, flashings, accessories, etc. furnished under this agreement shall be prefinished in accordance with contract documents to match Architect's approved samples in color, pattern, texture, etc.
39. The subcontractor shall provide standard manufacturer's factory testing requirements or as specified under the Project Specifications (whichever is more stringent), outlining the performance characteristics of all requirements under the Project Specifications.
40. The subcontractor is responsible for all metal stud, structural steel, concrete, and masonry substrate preparation, including spacers, shims, etc., as each trade shall be responsible for installation tolerances allowed to each respective trade under the contract specification.
41. The subcontractor is responsible for coordinating work under this agreement with the Plumbing Subcontractor, Mechanical Subcontractor, Electrical Subcontractor, and Solar PV Subcontractor as applicable.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #0810
DOORS, FRAMES, AND HARDWARE
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **DOORS, FRAMES, AND HARDWARE PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

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 - e. A written hazard communication program safety data sheet (SDS)
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- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

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Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS:

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES
2. SECTION 08 11 16.10 - ALUMINUM DOORS WITH FRP FACE PANEL
3. SECTION 08 14 16 - FLUSH WOOD DOORS
4. SECTION 08 71 00 - DOOR HARDWARE

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All wood doors are to be shipped pre-finished and pre-machined, including shipment in protective plastic covers. Provide finish, texture, stain, sheen, etc., to meet the Architect's approval at no additional cost.
2. Provide and install a power supply box and power supply for electromagnetic locks supplied by this bid package. This includes HM frames needing to be prepped for electronic connections.
3. Provide complete keying per Specification Section 08 71 00, including key cabinet, key control, proper quantities for key turnover, etc. All doors shall have temporary cores for construction use. The subcontractor shall coordinate and/or send directly to the Owner's School System keying contact, the key control systems, permanent cores, keys, and blanks as required. The subcontractor shall provide three (3) types of construction cores (exterior doors vs. electrical/mechanical rooms vs. general doors). Provide one (1) core key for each type of core and ten (10) keys for each type of core. The construction Manager will retain ownership of all temporary cores and keys at the conclusion of the project.
4. Provide the following miscellaneous items:
 - a. Site visit to remove all temporary cores for the Owner to install all permanent key cores
 - b. Set all nails, putty nail head, and finish for all wood door window kit trims to match doors upon completion of Glazing Subcontractor installing door glass.
 - c. Provide and install Fire Marshal-approved Knox boxes as directed.
 - d. Temporary doors, including hinges and lockset, for the following rooms:
 - i. All Electrical and Telecommunications Room
 - ii. All Mechanical and Boiler Rooms
 - iii. All Elevator Machine Rooms
 - iv. All exterior doors of the building, **other than aluminum doors and frames.**
(Addendum 2)
5. Subcontractor shall coordinate framed openings with the Storefront Subcontractor to ensure that the temporary doors and hinges used do not damage the aluminum frames.
6. Locks shall be keyed per the owner keying schedule.
7. This subcontractor shall transmit all hardware to the Curtain-wall/Storefront Subcontractor. This Subcontractor is to go through all delivered hardware with the Curtain-wall/Storefront Subcontractor to ensure all items are accounted for. Once all items are accounted for, the Hardware Subcontractor is to provide the CM with a signed transmittal with the signatures of both responsible parties.

8. This subcontractor shall be responsible for providing all steel door frames to be installed by Masonry and Drywall Subcontractors.
9. Verify door security rough-ins for conduit, placement locations of devices, etc.
10. The electrical subcontractor will provide conduit for card readers and security devices. The subcontractor is responsible for coordinating with the entity providing the card readers to ensure that the system integrates properly with the hardware provided.
11. All door frames will be anchored to the building's concrete slab. This subcontractor is responsible for deducting undercuts for doors based on specified finish flooring conditions at each frame.
12. Provide all required door frame anchor devices for concrete walls, masonry walls, drywall partitions, anchoring to the floor, etc. Furnish and install all plaster guards on door frames. The subcontractor shall provide 10% extra anchorage devices at no cost.
13. This subcontractor is responsible for the field welding (including grinding, Bondo, and prime painting) for any frames sent to the site in multiple sections. This subcontractor will also provide the installation subcontractor with a unit ready to be installed.
14. The subcontractor shall not install door hardware items in traffic areas that will be damaged or soiled until completion of all work surrounding the unit is complete (i.e., weather sills, thresholds, etc. shall be delayed until finished accessory installation is needed to complete the project).
15. Provide a single source responsibility for the final finish paint system to be applied to hollow metal. Primers used shall be by the same manufacturer as or compatible with the topcoat system. Provide factory primer for field touch-up. Galvanizing of materials as specified is included.
16. All materials furnished under this agreement shall be smooth, free of defects, and ready to receive finish paint or finishes as specified.
17. All materials shall be properly packed, separated, wrapped, etc., for shipment to prevent damage during shipment and unloading. The subcontractor is responsible for all receiving, unloading, stacking, securing, and storage of all materials.
18. Deliver doors and frames in original cartons or crates with seals intact and legibly labeled to indicate manufacturer, door number, frame type, sizes, model designations, and contents.
19. All doors and frames shall be factory-prepared to receive scheduled hardware, including required reinforcement, backing, and pre-machining.
20. Hardware preparation is to be in accordance with the final approved hardware schedule and templates as approved by the Architect. Provide all required hardware templates, hardware

schedules, and any other required information to manufacturers of items that will be fitted with finished hardware in ample time to avoid delays to the work.

21. Storefront hardware to be furnished by this Subcontractor and installed by Storefront Subcontractor
22. Coordinate, package, and ship all door hardware specified for aluminum storefront doors to the aluminum storefront Subcontractor. Shipment shall be made to the factory or to the aluminum storefront Subcontractor's office at no cost to the Construction Manager.
23. Provide a copy of signed delivery tickets for materials shipped to the aluminum storefront subcontractor to the construction manager. Failure of this item will require the replacement of lost hardware. Cost to be assumed by this Subcontractor.
24. All hardware shall be shipped with factory finish in color and texture as approved by the Architect.
25. Provide all specified and required special tools for installing and maintaining materials furnished under this agreement, including Maintenance Manuals, Maintenance Schedules, and training as required by Contract Documents for proper installation and owner turnover.
26. Provide all required shim spacers for door stops, door guides, etc.
27. Install all door hardware and accessories as identified in each hardware set. This includes thresholds, weather-stripping, door silencers, astragals, sound seals, and smoke gasketing as required by contract documents.
28. Subcontractor is responsible for installing door closers to meet accessibility requirements.
29. All silencers must be installed after the painting is completed. Frames must be prepared such that grouting will not affect the later installation of the silencers and other hardware.
30. Provide a complete review and confirmation of the finish schedule to determine floor types/thickness in order to properly undercut all doors per Contract Documents, including for return air systems.
31. Provide a complete review of all hardware specifications and ADA requirements. Provide a complete listing of any conflicts found concurrent with submitting shop drawings for Architect approval. Provide all certifications and installer qualifications. Attend pre-construction conferences as required.
 - a. Coordinate floor plan door layout with the door schedule to confirm wall types and thicknesses, door swings, ratings, acoustical requirements, U-Value insulating requirements, frame elevations, hardware types, etc.
32. All doors and frames shall comply with proper UL fire rating, U-Value, and STC sound requirements and have factory-applied labeling affixed to each door and frame.

33. Schedule, attend, and coordinate all required and specified meetings with the Architect and Owner in preparing final keying requirements for this project, including documentation and distribution of all meeting notes. Coordinate with the Owner's existing keying system at no additional cost.
34. Conduct a door hardware installation seminar on-site with the door/hardware installation Subcontractor in accordance with the manufacturer's literature and recommendations to illustrate proper installation procedures upon first scheduled installation, including but not limited to panics, pulls, cylinders, closure, hold open devices, continuous hinges, weather stripping, Automatic door operators, etc.
 - a. Provide a minimum of three (3) site visits per phase throughout the project to certify door and hardware installations are per manufacturers' recommendations. Provide written reports of status within 24 hours of each site visit.
 - b. Attend the specified Owner training meeting at Project Completion and again at the six-month continued maintenance service meeting. The development and distribution of all specified written reports are included.
35. Provide all required materials and labor (or costs thereof) to replace defective products furnished under this agreement.
36. Provide door fabrications with all specified accessories, including louvers, glazing stops, door glass vision kits, etc., as required. All accessories shall be factory installed prior to shipment.
37. Shipment of all accessories shall be made with corresponding doors.
38. Coordinate all glass types and corresponding glass thickness' for glazing stop/framing spacing requirements with the glass and glazing Subcontractor before submitting shop drawings in accordance with the Contract Drawings and glass specifications.
39. If the glazing stops and frames (metal and wood type) are not factory-installed, the subcontractor is responsible for installing them.
40. Furnish, install, maintain, and remove the following temporary items:
 - a. Provide and maintain Kraft paper protection of all wood door installations upon completion of swinging doors. Maintenance of protection paper shall be until the owner accepts each area. Removal and disposal of protection materials are included at the Construction Manager's direction.
41. This subcontractor shall include in this agreement a 10% repair (based on the total quantity of door leaves) cost for wood door repairs. Repairs shall be considered surface dents, dings, scratches, etc. Provide a factory representative, or equal as approved by the Construction Manager, to perform such repairs.
42. This subcontractor acknowledges that on-site storage is not permissible inside the building. (Unless approved by CM in writing)

- 43. Door shipments will not be allowed if the corresponding hardware is not complete for installation.
- 44. All door, frame, hardware material, and deliveries are the responsibility of this scope of work. Metcon will not be responsible for lost, stolen or mis-managed material or circumstances.
- 45. The cost of expediting submittals and materials to the site is included to avoid delays. All material dates shall meet or exceed the project schedule. The subcontractor shall include all overnight shipping costs, “quick ship” fabrication, alternate manufacturer(s), etc. This shall include, but not be limited to, all door frames, doors, hardware, etc.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

**BID PACKAGE #0833
OVERHEAD DOORS
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **OVERHEAD DOORS PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

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OVERHEAD DOORS

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Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

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37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)

41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
 - a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 08 33 13 - COILING COUNTER DOORS**
- 2. SECTION 08 33 23 - OVERHEAD COILING DOORS**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

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The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Furnish and install all Coiling Counter Doors, Overhead Coiling Doors, Overhead Coiling Grilles, and Sectional Doors indicated on the Contract documents including providing all final assemblies, anchors, fasteners, etc.
2. Provide and install access doors for chain assembly.
3. Touchup painting of factory finishes is included upon completion of installation of all equipment and just prior to Owner/Architect acceptance of equipment.
4. Subcontractor shall provide all Maintenance Manuals, Owner training; all require equipment start-up, etc. prior to Final acceptance of work under this Agreement.
5. All final cleaning of items installed in this Agreement as directed by Construction Manager and prior to final acceptance by Owner.
6. All Field measurements and verification are included. Subcontractor shall inform Construction Manager, in writing, at least twelve (12) days before installation of equipment, of any field discrepancies found during field measurement.
7. Subcontractor shall indicate any required in-wall blocking by others on submitted Shop Drawings
8. All sleeves, to be cast in concrete slabs or built into CMU walls, shall be indicated in shop drawings and furnished and installed by this Subcontractor. This Subcontractor shall coordinate sleeve placement with the appropriate Subcontractor.
9. All miscellaneous steel required for door installation shall be identified on shop drawings.
10. This subcontractor shall coordinate with Electrical Subcontractor all electrical requirements needed to operate this scope of work.
11. This subcontractor shall coordinate with Metal Framing Subcontractor any rated enclosures as required by this scope of work.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

**BID PACKAGE #0840
GLASS AND GLAZING
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **GLASS AND GLAZING PACKAGE**. This shall include, but is not limited to, all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Bid Package #: 0840

GLASS AND GLAZING

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Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
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11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)

- 41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
 - a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

- 42. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **SECTION 08 41 13 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS**
2. **SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS**
3. **SECTION 08 80 00 - GLAZING**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

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The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All products furnished under this agreement, including accessories, shall be prefinished in accordance with Contract Documents and the Architect's approved colors, textures, etc.
2. The subcontractor shall field measure and verify all rough openings, slab conditions, and dimensions prior to the fabrication and installation of aluminum assemblies and glass. For new construction areas framed in metal stud or masonry wall conditions, the contractor will guarantee rough opening measurements, provided the subcontractor issues Final Field Use Drawings approved by the architect to the contractor, masonry subcontractor, and metal stud/drywall subcontractor at least twenty-eight (28) days prior to the start of wall construction activities. Openings in poured-in-place concrete conditions must be field measured by the subcontractor.
3. This subcontractor is responsible for separating aluminum and other surfaces from sources of corrosion or electrolytic action at points of contact with dissimilar materials.
4. This subcontractor shall provide the manufacturer with testing for system performance requirements as specified under the Project Specifications, outlining the performance characteristics of all requirements under Project Specifications.
5. This subcontractor is responsible for all wood blocking, wood trim, spacers, shims, etc., to accommodate existing masonry substrate conditions, as detailed in the Contract Documents.
6. This subcontractor has acknowledged window placement locations within the wall cavities and shall detail, fabricate, and install a warrantable assembly as such, including all required flashings and caulking, whether indicated or not on the contract drawings to conceal surrounding substrates (including brick/air spaces/drywall returns to windows) and provide adequate caulking backers.
7. This subcontractor will also be responsible for all wood blocking and metal framing components which are detailed on this Subcontractor's shop drawings above the requirements of the Contract Documents to meet wind loading, dead loads, anchorage details, etc. (i.e. Subcontractor shop drawings shall not supersede work by others as indicated on the Contract Documents).
8. This subcontractor is responsible for all required field touch-up painting of factory finishes as may be required after installation and prior to Owner acceptance. Use materials and prepare as recommended by the paint manufacturer.
9. This subcontractor is responsible for protecting this scope of work until the Owner accepts aluminum, glazing, and caulking operations.
10. Provide all prefinished sill flashings, sill receptors, trim closures, drip flashings, head flashings, etc., to meet manufacturers' and Architect's requirements for a warrantable system.
11. Furnish and install all broken metal as directed by CM to the storefront/ curtain wall framing system.

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12. All assemblies shall be shipped to the project, or glazing shall be shipped with assemblies and installed concurrently with frame installation to provide an immediate secure and dried-in condition for this Project. If the Subcontractor fails to provide glazing with framing installation, this Subcontractor will be responsible for providing temporary secure and weather-tight alternative installation to the glazing at no additional cost to the Contractor.
13. Scheduled start and finish dates shall mean complete aluminum and glazing installations.
14. Subcontractor to provide and maintain temporary wood or metal framed plastic covering in-fills at all door and window openings until permanent doors and windows are installed. This Subcontractor is responsible for removing temporary windows as installation begins for each opening under this agreement. Each temporary window assembly shall be carefully removed from the opening, transported to the Construction Manager's laydown yard, and neatly stacked by this Subcontractor for future re-use.
15. Provide all Aluminum Framed Entrances and Storefronts, including all required aluminum framing members, internal structural reinforcing, structural anchorage devices to building structure, factory and field testing, weather-stripping, fasteners and anchors, setting blocks, shims, spacers, edge blocks, glazing points, angle clips, beads, concealed sealants, bituminous paint, welding, and all other incidental items required for a complete structural and weather-tight system.
16. All sill flashings, head flashings, and break metal closures at mullions and jambs/heads/sills are included.
17. This subcontractor coordinates and prepares all assemblies to receive specified glass and door hardware.
18. This subcontractor is responsible for furnishing and installing all aluminum door weather-stripping, silencers, weather sweeps, etc.
19. If applicable, This subcontractor shall provide and install all Composite Doors and Frames as indicated on door and window schedules.
20. This Subcontractor is responsible for the coordination, receipt, shipping (from the hardware supplier's local office), handling, unpacking, storage, protection, and installation (field and factory) of all hardware required for aluminum doors. Field cutting/ fitting of thresholds and weather stripping are included herein.
21. This Subcontractor is responsible for providing all required holes, chases, backing plates, stile sizing, header profiles, etc., required for the installation of said hardware equipment furnished by others per specification section 08 71 00 Door Hardware requirements, electrical rough-in (security, power, card readers, etc.) and complete operation.
22. All shop drawings provided under this agreement shall be fully detailed and coordinated with other scheduled hardware installations before fabrication.
23. This subcontractor acknowledges that any additional hardware materials specified under specification section 08 41 13 are not part of the hardware package under 08 71 00 and shall be provided herein at no additional cost to the Contractor.
24. All fabrication of storefront and door assemblies shall be completed off-site and shipped to the project. *No on-site fabrication of aluminum assemblies will be permitted.*

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- 25. It is the responsibility of this Subcontractor to verify door undercut requirements based on the interior floor finish requirements. Frames shall be assumed to rest on building slab.
- 26. This Subcontractor shall provide temporary lockable doors at all aluminum door openings for construction use. The permanent doors will be installed at the end of each phase or as directed by the Contractor. **All other temporary doors, provided by others. (Addendum 2)**
- 27. All window hardware is included.
- 28. Included is all annealed glass, heat treated glass, laminated glass, insulating glass, float glass, tempered glass, wired glass, spandrel glass, pyrolytic glass, tinting of glass, etc. including combinations thereof, as specified in the Contract Documents and as required by the inspecting agencies having jurisdiction.
- 29. If applicable, include polycarbonate panels in gym windows.
- 30. All structural, weather-tight, and aesthetic **caulking** is included for the proper installation of items included in this scope. This specifically includes both the interior and exterior perimeter caulking, butt glazing, glazing, framing members, etc., complete of all assemblies provided under this agreement in accordance with specification sections **07 90 00**, per all related specification sections under this agreement, per manufacturer's recommendations, per contract drawings, and per Architect's requirements after installation completion of surrounding finishes.
 - a. Interior and exterior caulking operations shall be separate mobilizations from aluminum and glazing installations following prime painting, brick installations and cleaning, metal panel installations, concrete rubbing operations, etc.
 - b. All caulking colors shall match that specified or as approved by the Architect. Field mock-ups are included herein to obtain the Architect's approval.
 - c. This Subcontractor is responsible for all surface preparation and primers for caulk adhesion on both windows and surrounding substrate conditions. Field testing of adhesion to meet the Architect's acceptance of installations is included herein.
- 31. The subcontractor acknowledges that not all openings may be ready at the time of scheduled installation and agrees to remobilize areas as they become available at no cost to the Contractor.

G. DESCRIPTION OF SCOPE EXCLUSIONS:

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

BID PACKAGE #0920
METAL FRAMING, ROUGH CARPENTRY AND GYPSUM BOARD
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **METAL FRAMING, ROUGH CARPENTRY AND GYPSUM BOARD PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

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2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
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4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
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14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
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34. Include all necessary mobilizations required to complete this scope of work.
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Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
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E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required.;

- 1. SECTION 05 40 00 - COLD-FORMED STEEL FRAMING**
- 2. SECTION 06 10 53 - MISCELLANEOUS ROUGH CARPENTRY**
- 3. SECTION 06 83 16 - FIBERGLASS REINFORCED PANELING**
- 4. SECTION 07 21 00 - THERMAL INSULATION**
- 5. SECTION 07 21 19 - FOAMED-IN-PLACE INSULATION**
- 6. SECTION 07 65 00 - THROUGH WALL FLASHING**
- 7. SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES**

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8. SECTION 09 27 13 - GLASS-FIBER-REINFORCED GYPSUM FABRICATIONS
9. SECTION 10 26 23.14 - WALL PROTECTION

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All backer board material and installation.
2. 07 21 00 - Thermal Insulation for framed walls/Gypsum Board Assemblies
3. 07 21 19 - foamed-in-place insulation for framed walls/Gypsum Board Assemblies
4. 07 65 00 - Through Wall Flashing in association with this scope of work
5. Acoustical outlet backer pad, sealant, and cover See A-011 Detail 7.
6. All Mineral Wool in association with this scope of work (reference A-011)
7. Stud framing in Steel.
8. Framing at Learning Stairs
9. Turnbuckles and cables.
10. Mezzanine Floor area.
11. Blocking for millwork, restroom accessories, all items to be hung from or supported through Gypsum drywall assemblies, etc.
12. Backer board for Telecommunications, Plywood panels at phone boards and electrical panels, FRP panels, etc.
13. Fire rated Plywood in MDF and IDF's
14. DensGlass in all electrical rooms.
15. Supply, install and Coordinate the installation of Access doors and frames
16. This package shall include 5% of overall wall systems for unidentifiable repair. This shall be based on the overall square footage of each wall type utilized in the Project. This shall be broken out as a separate line item on SOV for tracking by CMAR.
17. Column enclosures as noted on plans.
18. All structural stud framing as shown.
19. All attachments to the structure required for this scope of work.
20. Installation of hollow metal doors and window frames within the construction of this scope of work.

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21. Purple mold-resistant gypsum board shall be the minimum standard throughout the project unless a more stringent gypsum board is specified. Note- Provide Mold resistance gypsum wall bard at the “Top Out” of all walls prior to building dry-in.
22. Exterior soffit framing.
23. Exterior sheathing
24. This subcontractor shall provide all required framed openings in drywall assemblies installed under this agreement for all trades. Including but not limited to ductwork, MEFPF items, cable trays, toilet accessories, fire extinguisher cabinets, drinking fountains, etc. This subcontractor shall verify the required quantities, locations, and sizes of openings with other subcontractors.
25. Provide and install all FRP, whether installed on metal stud assemblies or directly applied to other wall surfaces.
26. This subcontractor is responsible for coordinating installation elevation and layout with the Construction Manager and ensuring proper placement, including trueness, levelness, extension from the building, proper installation with vapor barrier installed under this agreement, etc.
27. This Subcontractor is responsible for fire labeling all rated drywall assemblies, walls, and ceilings by a method approved by the architect, including verbiage, letter size, and spacing, for all rated wall/ceiling assemblies installed under this agreement.
28. This subcontractor protects all fire sprinkler heads and fire alarm devices from damage to drywall installations, mud, and dust.
29. This subcontractor is also responsible for the proper loading and distribution of stored materials so that excessive loads applied do not damage building structure elements.
30. This subcontractor is responsible for separating dissimilar metals from electrolytic actions.
31. Vacuum clean all wall cavities before installation of wall insulation and drywall is included - building and sound insulation in metal stud walls and cavities. Before insulation and hanging drywall, this subcontractor and CM shall walk all walls to ensure that the cavities are clean.
32. Provide all casework (knee) wall framing and drywall. All assumptions shall be metal studs and drywall with reinforcing columns by this Subcontractor for (knee) wall construction at casework unless specifically denoted as wood construction as part of the cabinet construction.
33. The subcontractor understands solid-surface windowsills; if specified, they need to be field measured and ordered following the completion of drywall and window installations. This subcontractor will have to remobilize said areas to touch-up drywall finishes following window sill installations at no additional cost to the Construction Manager.
34. If guaranteed dimensions are required, this subcontractor shall be responsible for providing durable templates to withstand installation. Each template shall have layout dimensions if it is to be installed by another trade. This subcontractor is responsible for confirming the accuracy of each template installed immediately before and after placement.

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METAL FRAMING, ROUGH CARPENTRY AND GYPSUM BOARD

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- 35. The subcontractor shall properly stack and protect the drywall board on the dunnage to prevent the wicking action of water to the drywall sheets.
- 36. 5/8" Fiberglass face gypsum board sheathing for the wall panel installation is included in this scope of work. Coordination and/or cutting of spray foam insulation on an as-needed basis for the installation of fiberglass face gypsum is also included.
- 37. Fire-rated wall endcaps shall be furnished by this subcontractor. (Addendum 2)

G. DESCRIPTION OF SCOPE EXCLUSION:

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

BID PACKAGE #0930

HARD TILE

(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **HARD TILE PACKAGE**. This shall include, but is not limited to, all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
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1. SECTION 09 30 0 – TILING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor responsible for including 2% additional to the required attic stock for miscellaneous repairs.
2. Provide all wall, base, and floor tiles (including all mud set installations as specified), special tile and shapes/fabrications, base, trims, patterned tile installation, protective coatings, sealers, grout, etc. to meet the Architect's design intent, including any field conditions modifications.
3. The construction manager shall not review or approve extra costs for tile pattern layout claims as approved in the mock-up for joint layout conditions to meet Owner / Architect approvals.
4. All required field measurements and the layout of all work and patterns are included.
5. The subcontractor is responsible for providing shop drawings for each bathroom to obtain Owner and Architect approval for tile termination points. Shop drawings shall include wall elevations and floor plans. Identify each trim piece at the corner and exposed end condition and verify patterns and layout. All the previously mentioned shop drawing requirements must be approved by Metcon and the Architect before installation.
6. Per the architect's approval, provide all specified colors and patterns for tile, grouts, caulk, etc.
7. Provide tile cut-outs for all clean-outs, toilet accessories, drains, plumbing fixtures, etc.
8. Provide base, wall, and trim joint alignment per specification section. Provide full mock-ups of the work for the owner/architect's acceptance before starting production work.
9. Provide all sealants, joint fillers, grouting, etc., within this Scope of Work, including the areas where this Scope of Work is abutting dissimilar materials (i.e. floor tile perimeters and base, floor drains, clean-outs, exposed plumbing, control/expansion joints, top of wainscoting, etc.) is included per Contract Documents.
10. Provide all flooring leveling as required for your scope of work.
11. This subcontractor is required to coordinate with concrete (slab-on-grade subcontractor) regarding floor levelness, attend pre-pour meetings, and review/discuss sloping floors to floor drains, depressed shower floors, and other requirements and coordination issues. Provide all leveling grout, bonding coat/grout, mastic, epoxy grout, flash patch, floor sealers, adhesive, floor scarring, floor sanding, removal of concrete curing sealers, etc., to install tile and waterproofing in accordance with Contract Documents to achieve adhesion and/or levelness for tile installation to meet manufacturer's recommendations. Tile bond performance and testing per specifications are included at the Owner and Architect's direction.
 - a. Verify all substrate conditions and notify the Construction Manager, twenty-one (21) days prior to the start of work, of any deficiencies in substrate prohibiting the start of work under this agreement. This shall also include required floor slopes for drainage and floor drain projections, masonry wall substrates, building temperature, etc. Floor substrates will be prepared by the Construction Manager in accordance with specification section 03 30 00 and ACI standards only.
 - b. Wall substrates will be installed by other Subcontractors. This subcontractor prepares the Substrate in accordance with specifications.
12. Subcontractor shall review **structural drawings and architectural drawings and specifications** prior to providing submittal data and information to ensure slab depressions,

- floor substrates, wall substrates, etc. meet the requirements of submittal data and intent of contract documents.
13. Subcontractors shall furnish and install all required control and expansion joints in accordance with the Contract Documents for building wall and slab design, including ANSI and TCA recommendations. All joints shall be indicated on Shop Drawings for the Architect's approval.
 14. Provide final cleaning of tile, including removal of grout, caulk, stains, discoloration, re-polishing for scratches, tile replacement, etc., to achieve Owner acceptance. The subcontractor is responsible for protecting surrounding finish products during cleaning operations (toilet partitions and accessories, plumbing fixtures, etc.). Cleaning must be completed before demobilizing from each area of work.
 15. Apply protective sealer to complete installed tile areas per the specifications and as recommended by the tile manufacturer.
 16. Cover floor and wall tile with Ram Board upon completion of tile cleaning for protection.
 17. The subcontractor shall revisit each installation weekly to monitor and repair all protection paper installations until the Owner accepts the building or designated area thereof.
 18. The subcontractor shall not clean tools or dispose of grout in the building drainage or sanitary systems. It is the responsibility of this Subcontractor to verify floor drainage operations in each room prior to beginning work and again after 100% work completion, as witnessed by Construction Managers in writing, to avoid any post-work cost implications against the Subcontractor for repairing damaged drainage systems.
 19. The subcontractor is responsible for all off-site storage, warehousing, deliveries to the site, unloading, uncrating, and distributing materials necessary to complete the work under this scope. Disposal of trash and packing material to site dumpsters (provided by others) is included. All shipping boxes shall be flattened for disposal. Hoisting of materials to and from elevated floor conditions is herein included.
 20. Provide all 'Extra Materials for Owner' to the Construction Manager in unopened containers/packages thirty (30) days prior to beginning work. All attic stock shall be palletized and handed to the Construction Manager with a transmittal form for signature. The subcontractor shall place materials in a location (or locations) determined by the Owner/Contractor.
 21. All marble thresholds or metal edge guards are included at all door openings, and any transitions as directed by Architect, as indicated on contract drawings, per door schedule, etc.
 22. The subcontractor must also comply with ADA/Code requirements, including slip-resistant finishes, allowable heights to stone thresholds, tile ramps, etc.
 23. Adjustment of tile mortar beds to meet ADA access requirements is included if required.
 24. This subcontractor shall properly dispose of all excess materials, debris, and shipping materials on a daily basis or as the subcontractor finishes a room, whichever comes first. This includes but is not limited to the approved removal of the flooring protection (i.e. Kraft paper) at final turnover and disposal of such to contractor's waste management area.

G. DESCRIPTION OF SCOPE EXCLUSIONS

Bid Package #: 0930
 Hard Tile
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The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

BID PACKAGE #0950
ACOUSTICAL CEILINGS & PANELS
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **ACOUSTICAL CEILINGS & PANELS PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

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ACOUSTICAL CEILINGS & PANELS

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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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ACOUSTICAL CEILINGS & PANELS

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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ACOUSTICAL CEILINGS & PANELS

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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)

- 41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
 - a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

- 42. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS
- 2. SECTION 09 84 00 - ACOUSTIC ROOM COMPONENTS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or

Bid Package #: 0950

ACOUSTICAL CEILINGS & PANELS

comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor shall provide and install all Barrel Diffusers where required or necessary.
2. This subcontractor shall provide shop drawings after coordination with the following subs for items placed on walls and for items protruding through the wall.
 - a. Scoreboards – Location within panel field.
 - a. HVAC penetrations
 - b. Electrical devices
 - c. Access panels, clean-out covers, etc.
3. Furnish and install all Acoustic Room Components indicated on the contract documents, including providing all final assemblies, anchors, fasteners, etc.
 - a. Installation will be finished flooring. The contractor shall use Baker Scaffolding with clean, non-scuff wheels to install the panel system.
 - b. Panels will be properly installed per plans, flush to the wall, and free of defects.
4. This subcontractor is to include a \$25,000 allowance in a bid to repair the damaged grid and tile. To be used at the CM direction. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
5. This package shall include a \$50,000 allowance for ceiling systems for unidentifiable repair. It shall be broken out as a separate line item on the Schedule of Values for tracking by the Construction Manager. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
6. This subcontractor is responsible for all wood substrates, as the contract documents require.
7. This subcontractor is responsible for all “BLACK” ceiling tiles and grid, as required by the plans and specifications.
8. This subcontractor shall bring to the Architect's attention any grid/tile layout concerns regarding equal borders of installation, squareness of room, transition areas for ceiling direction, etc., and specification layout requirements prior to installing the ceiling grid.
9. This subcontractor shall verify all seismic requirements per the applicable codes/requirements and ensure that the ceiling system complies.
10. Provide all ceiling systems per specification sections and Contract Drawings, including all ceiling grids, tiles, barrel diffusers, wire hangers, sheet metal moldings, clips, bracing, fasteners, seismic and hold-down clips, channels, column covers, ties, rivets, wires, direct loading clips, etc. The subcontractor shall caulk behind the grid at walls if required or necessary.
11. Provide layout and cutouts for all mechanical, electrical, fire alarm, intercom, data, fire protection, exit lights, lights, diffusers, and any other fixture installed in the acoustical grid and tile systems.
12. This Subcontractor is responsible for providing coordinated layout drawings as specified for the Architect's approval.

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ACOUSTICAL CEILINGS & PANELS

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13. Provide all additional ceiling hanging wires, channel supports, etc., at light fixtures, ductwork, diffusers, etc., as required to support the ceiling system per specifications, UL listings, and manufacturers' requirements, including all secondary ceiling support to trapeze MEP systems and/or as required to maintain specified ceiling wiring spacing. **No wires are allowed to be tied to bridging.** Install ceiling hangers to facilitate equipment access and maintenance. Relocation may be required upon final ceiling inspections by the Owner and Construction Manager at no additional cost.
14. This subcontractor is responsible for off-site storage, distributing, and unloading of materials. On-site storage of materials delivered out of sequence will not be allowed.
15. Prior to beginning work, provide all 'Extra Materials for Owner' to the Construction Manager in unopened containers/packages. All extra materials shall be delivered in unopened packages/cartons. All attic stock shall be palletted and transmitted to the Construction Manager for signature. The subcontractor shall locate materials in a location (or locations) determined by the Owner/Construction Manager.
16. This subcontractor has reviewed both the finish schedule for ceiling types and compared to reflective ceiling plans, building sections, architectural drawings, etc., for complete compliance with the Architect's Scope under specification sections.
17. Provide all required mock-ups of work for Owner/Architect acceptance.
18. This subcontractor shall clean, straighten, and punch list all grid installations during ceiling tile installations for the Construction Manager's and Architect's acceptance on a room-by-room basis at no additional cost to the Construction Manager as reasonably determined by the Construction Manager and Subcontractor.
19. Provide all installations per manufacturer recommendations and listed UL rating assemblies.
20. Field verification for humidity control and temperature control are included, and any noted deficiencies shall be submitted to the Construction Manager in writing at a minimum of twenty-one (21) days before the start of work.
21. This subcontractor is responsible for all mobilizations needed to complete this scope of work.
22. This subcontractor shall finally clean the tile and grid per specifications following the completion of all surrounding installations and just prior to the Owner's acceptance of the building.
23. Extra material will not be used by the Subcontractor for punch list work.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

BID PACKAGE #0960
RESILIENT FLOORING & CARPET
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **RESILIENT FLOORING & CARPET SCOPE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall accompany their bid with a 10% Bid Bond and include a Payment and Performance Bond in their price. Additionally, all required bonds shall be furnished per the Subcontract Agreement provided in the Bid Manual. (Addendum 2)

C. SUBMITTAL REQUIREMENTS

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
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5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
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14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

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37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)



- 41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
 - a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

- 42. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 09 65 00 - RESILIENT FLOORING
2. SECTION 09 68 13 - TILE CARPETING
3. SECTION 09 68 16 - SHEET CARPETING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

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The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor shall provide transitions at all flooring type change conditions.
 - a. Subcontractor is responsible for the coordination of the placement and sequencing of the transitions with CM and other flooring Subcontractor.
2. Furnish and install all LVT, Resistant tile, wall base, and accessories, including as indicated on the plans:
3. All adhesives, primers, sealers, epoxy fillers, miscellaneous accessories, etc.
4. All edge strips, transition strips, primers, sealers, reducer strips, etc.
5. Provide all resilient and metal edge strips to abutting finishes including exposed concrete floors, traffic coating flooring, etc.
6. All resilient base/rubber bases are included as indicated on the finish schedule and as follows:
 - a. At all vinyl tile floors.
 - b. At all exposed concrete floors/seal concrete floors.
 - c. At all traffic coating floors.
 - d. At all fixed casework and cabinets.
7. All rubber treads and risers at all steps as required.
8. Furnish and Install all Resilient Tile, feature strips, borders and patterns, and accessories including:
 - a. All adhesives, primers, sealers, epoxy fillers, miscellaneous accessories, etc.
 - b. All edge strips, transition strips, primers, sealers, reducer strips, etc.
9. This subcontractor is responsible for the protection of his work.
10. Subcontractor responsible to carry 2% extra material for repairs (Owner's attic stock NOT TO BE USED FOR REPAIRS).
- ~~11. This subcontract includes all resilient athletic flooring and accessories. (Addendum 2)~~
12. Provide all minor floor patching, floor leveling, filling of control/expansion joints and cracks, and floor preparations per specifications and as recommended by the manufacturer, including floor sanding, floor scarifying, preparatory cleaning, slab moisture testing as required, slab alkalinity conditions testing, concrete slab, and substrate primers, etc. The subcontractor is responsible for obtaining the Architect's acceptance of all floor preparatory work before installing flooring under this agreement.
13. The subcontractor acknowledges new flooring will be installed over concrete slab substrate installed per tolerances specified in specifications. The subcontractor has included any additional minor floor patching and leveling required prior to resilient installations under this section to meet the Architect's and manufacturer's acceptance. The number of bags anticipated for floor patching and/or leveling shall be included in the bid amount, **along with a price/bag installed for conditions deemed in excess of standard prep. Failure to provide the above-mentioned**

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bid pricing may result in the denial of proposed change order pricing for additional or unforeseen floor patching after the fact.

14. This subcontractor shall notify the Construction Manager in writing twenty-one (21) days prior to the Subcontractor's installation date of all unacceptable substrate conditions. Failure of meeting the 21-day requirement prior to 21 days before the scheduled start date shall be considered a breach of schedule if deficiencies delay installation.
15. This subcontractor must coordinate with concrete (slab-on-grade subcontractor) regarding floor levelness, attend slab-on-grade pre-pour meetings, and review/discuss floor finish and other requirements and coordination issues.
16. Provide all required mock-ups of work for Owner/Architect acceptance. The subcontractor is responsible for obtaining the Architect's approval/verification of all pattern/color layouts shown on the Contract Drawings before beginning installation.
17. Provide all **extra materials for Owner** to Construction Manager in unopened containers/packages **prior to beginning work**. All attic stock shall be palleted and transmitted to Contractor for signature. Subcontractor shall locate materials in a location (or locations) determined by Owner/ Construction Manager.
18. The scope of Work includes ventilation, sweeping compounds, vacuuming systems, etc., to limit the amount of airborne dust during floor preparatory operations so as not to soil existing wall finishes, windows, light fixtures, building mechanical ventilation systems, etc.
19. This Subcontractor is responsible for notifying the Construction Manager and Mechanical Contractor to shut down the building ventilation systems in work areas where airborne dust is generated while performing work under this agreement to avoid soil in mechanical systems.
20. Daily cleanup and disposal of packaging material and scrap materials to an on-site dumpster provided by others is included.
21. Field verification for humidity and temperature control is included, and any noted deficiencies shall be submitted to the Construction Manager in writing at least twenty-one (21) days before the start of work. Failure to meet the 21-day requirement before 21 days before the scheduled start date shall be considered a breach of schedule if deficiencies delay installation.
22. This subcontractor to provide all remediation due to high moisture in concrete. The Subcontractor shall maintain all warranties for material and workmanship.
23. This subcontractor verifies that the product specified for the curing and sealing of concrete slabs will not compromise the performance of the specified adhesive.
24. This subcontractor is responsible for any ventilation fan or other approved method as necessary to perform installations and curing of work installed under this agreement.
25. This subcontractor is required to provide all task lighting as required to perform their scope of work.
26. This subcontractor is responsible for the layout of all work from the Construction Manager's single horizontal and vertical control point. The subcontractor shall bring to the Architect's attention any layout concerns regarding equal borders of installation, squareness of room, etc. and specification layout requirements prior to installing floor.

27. Off-site storage, Unloading, and distribution of materials is the responsibility of this Subcontractor. On-site storage of materials delivered out of sequence will not be allowed.
28. Subcontractor to provide all final cleaning of all systems under this agreement upon 100% complete installation, including punch lists, removal of glue, damp mopping, stripping, waxing (multiple times), and polishing as required in the specifications.
29. If this subcontractor requires access to work areas, the removal and reinstallation of doors, thresholds, etc., for flooring installation is included.
30. This subcontractor is responsible for all flooring leveling for their scope of work.
31. This subcontractor is responsible for prepping new and existing floors to allow new flooring to be installed for their scope of work.
32. This subcontractor is responsible for protecting finished painted walls, doors, cabinets, etc. from damage during installation of flooring.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

**BID PACKAGE #0964
ATHLETIC FLOORING
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **ATHLETIC FLOORING**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
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8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
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14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

Bid Package #:0964

ATHLETIC FLOORING

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Initial Here _____

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 09 64 66 - WOOD ATHLETIC FLOORING
2. SECTION 09 65 66 - RESILIENT ATHLETIC FLOORING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or

comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Provide all minor floor patching, floor leveling, filling of control/expansion joints and cracks, and floor preparations per specifications and as recommended by the manufacturer, including floor sanding, floor scarifying, preparatory cleaning, slab moisture testing, slab alkalinity conditions testing, concrete slab, and substrate primers, etc. The subcontractor is responsible for obtaining the Architect's acceptance of all floor preparatory work prior to the installation of flooring under this agreement.
2. The subcontractor acknowledges that new flooring will be installed over a concrete slab substrate installed per tolerances specified under specification section 033000. The subcontractor has included any additional minor floor patching and leveling required prior to resilient installations under this section to meet the Architect's and manufacturer's acceptance.
3. Provide all required mock-ups of work for Owner/Architect acceptance. Subcontractor is responsible for obtaining Architect's approval/verification of all pattern/color layouts shown on Contract Drawings prior to beginning installation.
4. Provide all 'Extra Materials for Owner' to Construction Manager in unopened containers/packages to Construction Managers prior to beginning work. All attic stock shall be palletized and transmitted to Construction Managers for signature. Subcontractor shall locate materials in a location (or locations) determined by Owner/Contractor.
5. Scope of Work includes ventilation, sweeping compounds, vacuuming systems, etc. to limit the amount of airborne dust during floor preparatory operations as not to soil existing wall finishes, windows, light fixtures, building mechanical ventilation systems, etc.
6. This subcontractor shall be responsible for cleaning any material damaged or soiled by dust.
7. It is the responsibility of this Subcontractor to notify the Contractor and Mechanical Contractor in writing to shut down the building ventilation systems in work areas where airborne dust is generated while performing work under this agreement to avoid soil in mechanical systems.
8. Field verification for humidity control and temperature control are included, and any noted deficiencies shall be submitted to Contractor in writing at a minimum twenty-one (21) days prior to start of work.
9. The subcontractor shall assume that the concrete substrate will not meet the minimum moisture content allowable by the flooring manufacturer and the specifications. A plastic barrier, overlapped and taped, shall be provided by this subcontractor as specified when moisture content is higher than allowed.
10. This subcontractor to include moisture testing IF required for your scope of work.
11. This subcontractor is responsible for any ventilation fan or other approved method as necessary to perform installations and curing of work installed under this agreement.
12. Layout of all work from the Contractor's single horizontal and vertical control point.
13. All color selections shall be per Contract Documents and per Architect's approved submittal samples for all products furnished under this section.

14. Furnish and install all Athletic wood flooring, including all transition strips, adhesives, subflooring, resilient pads, seaming cement, primers, miscellaneous accessories, etc.
15. The subcontractor shall be responsible for any miscellaneous patching, and all additional mobilizations to complete the scope of work (accepted by the Architect and Owner) shall be included.
16. All floor preparation, including but not limited to floor leveling, removal of floor coating such as curing compound, etc., is included in this Agreement.
17. This subcontractor to provide all final cleaning of all systems under this agreement upon 100% complete installation including punch lists, removal of glue, vacuuming, etc.
18. Protection of this work is included during installation period and shall be resistant to traffic and weather damage so as not to stain, scar, or damage installed products in any way. Installation and removal of any required temporary signage, barricades, taping, etc. is also included.
19. This subcontractor shall apply the final floor finish where applicable.
20. Provide replacement materials and labor for unidentifiable damage – 5% of total project square footage.
21. This subcontractor is responsible for all floor protection (RAM board) to protect the work under this scope.
22. **Wood Strip Flooring** as per the specification Section:
 - a. Subcontractor shall include painted game lines on the sports flooring as shown on the Contract Drawings. This is to include markings to provide NCHSAA (North Carolina High School Athletic Association) compliant basketball court lines.
 - b. Subcontractor shall include a logo for the center court. The owner/architect will choose the design and colors.
 - c. Modification of “Center court line/Jump line” shall be implemented in case of full center court graphic. Dashed/faded lines shall be used in this case.
 - d. This subcontractor shall be responsible for all base, threshold transitions, and caulking related to this scope of work.
 - e. Subcontractor is responsible for providing their own Power/generator for installation equipment.
 - f. The subcontractor is responsible for additional support under retractable bleacher motor locations. Plan and Field coordination are required.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #0967
EPOXY FLOORING
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **EPOXY FLOORING PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for

submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
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 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
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 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
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- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
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Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 09 67 23 - RESINOUS FLOORING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. All cove Metal caps and base.
- 2. All Schluter transitions from adjacent flooring.

3. Provide all minor floor patching, floor leveling, filling of control/expansion joints and cracks, and floor preparations per specifications and as recommended by the manufacturer, including floor sanding, floor scarifying, preparatory cleaning, slab moisture testing, slab alkalinity conditions testing, concrete slab and substrate primers etc. Subcontractor is responsible for obtaining Architect's acceptance of all floor preparatory work prior installation of flooring under this agreement.
4. The subcontractor acknowledges that new flooring will be installed over a concrete slab substrate installed per tolerances specified under specification section 03 30 00. The subcontractor will include any additional minor floor patching and leveling required prior to resilient installations under this section to meet the Architect's and manufacturer's acceptance.
5. The subcontractor shall provide moisture mitigation for areas with moisture levels that do not meet the application criteria.
6. Provide all required mock-ups of work for Owner/Architect acceptance. The subcontractor is responsible for obtaining the Architect's approval/verification of all pattern/color layouts shown on the Contract Drawings prior to beginning installation.
7. Provide all **extra materials for the Owner to the Construction Manager in unopened containers/packages prior to beginning work. All attic stock shall be palleted and transmitted to the Contractor for signature.** The subcontractor shall locate materials in a location (or locations) determined by the Owner/ Construction Manager.
8. Scope of Work includes ventilation, sweeping compounds, vacuuming systems, etc. to limit the amount of airborne dust during floor preparatory operations as not to soil existing wall finishes, windows, light fixtures, building mechanical ventilation systems, etc.
9. This subcontractor is responsible for notifying the Contractor and Mechanical Contractor to shut down the building ventilation systems in work areas where airborne dust is generated while performing work under this agreement to avoid soil in mechanical systems.
10. Field verification for humidity control and temperature control are included, and any noted deficiencies shall be submitted to the Contractor in writing at a minimum of twenty-one (21) days prior to the start of work.
11. This subcontractor is responsible for any ventilation fan or other approved method as necessary to perform installations and curing of work installed under this agreement.
12. Furnish and install all Resinous Flooring and accessories, including but not limited to:
 - a. All primers, sealers, epoxy fillers, miscellaneous accessories, etc.
 - b. All edge strips, transition strips, primers, sealers, reducer strips, etc.
13. Layout of all work from Contractor's single horizontal and vertical control point. Subcontractor shall bring to the Architect's attention any tile layout concerns regarding equal borders of installation, squareness of room, etc. and specification layout requirements prior to installing floor.
14. Responsible for multiple mobilizations as required to meet the project schedule.
15. The subcontractor will coordinate moisture testing provided by the Subcontractor and scheduled by the Subcontractor with the Construction Manager. The subcontractor is responsible for all moisture remediations required to install flooring per specifications.

- 16. Subcontractor to provide all final cleaning of all systems under this agreement upon 100% complete installation, including punch lists. Protect all other finished materials from damage during final cleaning. Any damage costs identified by the Construction Manager will be borne by the Subcontractor.
- 17. Removal and reinstallation of doors, thresholds, etc., for installation of flooring is included if required by this Subcontractor to access work areas.
- 18. The subcontractor is responsible for protecting finished painted walls, doors, cabinets, etc. from damage during the installation of resinous flooring.
- 19. Subcontractors shall be responsible for their power requirements above and beyond 110V & 20 amps.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

**BID PACKAGE #0990
PAINTING & COATINGS
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **PAINTING & COATINGS**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

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PAINTING & COATINGS

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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 09 90 00 - PAINTING AND COATING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Prior to applying paint, the subcontractor shall bring to the Contractor's attention any paint color or pattern layout concerns regarding equal borders of installation, start-finish points, elevations, color coding, piping and conduit types, etc.
2. This subcontractor is responsible for verifying the compatibility of shop-applied coatings with topcoats applied in the field. Any sanding, back-priming, block-fill, barrier coats, alkalinity and moisture testing, abrasive blast cleaning, cleaning, wiping, washing, etc. required to achieve compatibility of primer and topcoats are part of this Scope.
3. The subcontractor shall verify with other trades and their respective manufacturers that all proposed materials to be used (e.g., cleaning agents, primers, backing materials, bond breakers, sealants, etc.) are compatible with adjacent substrates and will not jeopardize product warranties.
4. This subcontractor is responsible for the proper shipping, handling, storage and installation of materials in the Scope of Work per the manufacturer's written instructions.
5. All surfaces to be coated shall be inspected before the commencement of work. Any imperfections that may affect the finished product shall be submitted to the Contractor in writing seventy-two (72) hours before commencing work. Starting of work shall constitute acceptance of substrates. Additional compensation for rework associated with unacceptable substrates will not be granted.
6. This subcontractor fully understands that metals (frames, doors, stairs, etc.), masonry and drywall point-up will need to occur after each painting coat (i.e. after prime coat, after first coat, after final coat) to ensure substrate conditions meet Owner / Architect approval. The subcontractor shall allow sufficient time between paint coats to perform pointing up by others, and this Subcontractor shall perform touch-up painting of these point-ups at no additional cost to the Contractor. The subcontractor shall assume 20% to 25% touch-up of total job square footage included in this scope.
7. Included are all masking and protection of existing work including hardware, fixtures, millwork, flooring, ceiling assemblies, unscheduled paint items, etc. Subcontractor shall remove all protection materials and shall be responsible for all costs should damage occur to materials installed by others. Do not paint over any labels (i.e. door rating, equipment label, UL fire rated, STC Labels, penetration labels, etc.).
8. This agreement includes all additional lighting and/or task lighting above the OSHA floor lighting standard and temporary lighting requirements to perform this Scope of Work. The subcontractor shall ensure that each painter has adequate lighting in each room to do a first-class job of applying finishes. Extension cords, light stands, portable lights, etc. above and beyond OSHA standards are the Subcontractor's responsibility to provide.
9. On-ground washout or washout into building storm or sanitary systems is **prohibited**. The subcontractor shall remove all used paint rags from the site daily and not dispose of them in the Contractor's dumpsters to prevent combustion fire. The subcontractor is responsible for the removal and disposal of all paint containers, wash buckets, and accessories from the site and will not dispose of them in the Contractor's dumpsters.
10. This subcontractor shall provide all required cosmetic caulking associated with painting installations around drywall ceilings and partitions, abutting dissimilar materials, masonry walls, casework and cabinets, door frames, fire extinguisher cabinets, toilet accessories, etc.

11. The subcontractor is aware that custom and multiple colors will be required for Work of this Scope in accordance with the Architect's approved color selections for this Scope of Work.
12. Tinting of colors for each coat is also included.
13. Furnish all "Extra" materials per specification sections covered under this agreement of each color and type used on the Project; these shall include unopened containers/ packages, factory markings, project labels identifying material specification and quantity, palleted, and transmitted to Contractor at one time only. Subcontractor shall deliver to location(s) determined by Owner. Extra materials shall not be utilized by the Subcontractor for punch list work.
14. This subcontractor is responsible for notifying the Contractor and Mechanical Subcontractor to shut down the building ventilation systems in work areas where airborne dust or paint is generated while performing work under this agreement to avoid soiling mechanical systems.
15. This subcontractor further understands that work shall progress in accordance with the project schedule and normal flow of work. The subcontractor will not be reimbursed for work installed out-of-sequence of surrounding construction activities. The final painting will be withheld until all major furniture, cabinets, plumbing fixtures, finish flooring, lights, sprinkler heads, doors and hardware, HVAC grilles, acoustical ceilings, toilet, and other accessories, etc., are installed to prevent damages to painted areas. However, this does not warrant this Subcontractor from providing paint touch-up and minor re-painting following the issuance of the Contractor punch list and again after the Architect punch list as part of the base contract.
16. Field verification for humidity control and temperature control are included, and any noted deficiencies shall be submitted to the Contractor in writing at a minimum twenty-one (21) days prior to start of work.
17. Subcontractor shall furnish and install all field-applied painting and coatings at all exposed interior and exterior surfaces as indicated in the Contract Documents, inclusive of all substrate preparation, cleaning agents, primers, block fillers, undercoats, finishes, stains, shellacs, varnishes, sanding, filling of nail/screw holes, field priming of materials furnished by others which are not factory primed, a topcoat of materials supplied by others, all patterns and colors, back priming of all finish carpentry items and wood base, and all other incidental items as required to achieve finishes specified.
18. This subcontractor shall provide epoxy wall coatings as required.
19. Provide all concrete floor sealer and preparation as per contract documents. Include 10% repair of concrete sealer by total square footage.
20. Protect and cover drains. This subcontractor will be responsible for any infiltration into floor drains, clogs, etc., due to a lack of protection.
21. This Scope includes all fire rating stenciling, including but not limited to "FIRE RATED ASSEMBLY, PROTECT ALL OPENINGS" above ceilings on both sides of all fire rated walls.
22. For all cosmetic work under this agreement, the subcontractor shall properly clean and prepare joints and install caulking materials in strict accordance with the Contract Documents, and the manufacturer's written installation instructions.

23. This Subcontractor will furnish and install All paintable surfaces and joints that need latex caulk.
24. Site-related items (high-performance coating on ferrous metals):
- a. All steel bollards
 - b. All steel bollard covers
25. Building exterior-related items (high-performance coating on ferrous metals):
- a. All steel brick and masonry lintels
 - b. All metal gratings
 - c. All exposed structural and miscellaneous steel
 - d. All exposed masonry walls
 - e. All mechanical equipment and associated support systems
 - f. All exposed fire protection piping
 - g. All fire hydrants, FDC's, and PIV's
 - h. All housekeeping pads
26. Building interior related items:
- a. All hollow metal window frames, door frames, and steel doors
 - b. All interior drywall partitions, soffits, bulkheads, ceilings
 - c. All exposed masonry walls
 - d. All exposed structural as shown on plans/finish schedule and miscellaneous steel, including beams, cover plates, and wall angle supports
 - e. Exposed Structure painted at Gymnasium
 - f. All exposed wood blocking plywood, and phone boards
 - g. All exposed steel is painted as per the plans and specifications.
 - h. Electrical panel covers exposed to public view.
 - i. All access panels, including frames and backsides
 - j. Provide concrete sealer at all exposed concrete floors, mechanical pads, etc., including all floor sweeping, pressure cleaning, scraping, and acid washing (if the manufacturer requires) ready to receive sealer. Coordinate locations with the finish schedule. (Note: This shall include all sealed floor designations and concrete exposed designations. The intent of this agreement is to seal all concrete floors not covered by tile or carpeting). The subcontractor shall provide pigment sealer as approved by the Architect in order to conceal construction use staining of concrete surfaces. The sealer shall be able to withstand heavy traffic conditions without deteriorating.
 - k. Exposed ductwork and mechanical piping, plumbing piping, electrical conduits and equipment, fire protection (steel and CPVC), PME hangers and supports, piping insulation, piping jackets, etc. (Coordinate compatibility with any other Division)
 - l. All ladders, pan-filled stairs, and railing.
 - m. Paint touch-up all exposed damaged or missing primer at structural steel, including columns, beams, clips, and connections, since this is not scheduled to receive finish painting.
 - n. Stencil fire ratings on all rated walls and ceilings per Architect description and spacing requirements.
 - o. Painting of cabinet counter supports as required.
 - p. Painting exposed J-Hooks and cable trays as required.
 - q. Painting of wall surfaces behind all casework.

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- r. Interior surfaces of ductwork are visible through grilles, etc.
- s. Exposed fire protection piping.
- t. All exposed concrete foundation walls.
- u. All exposed ceilings.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #1014

SIGNAGE

(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **SIGNAGE PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
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28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
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34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
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41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 10 14 00 – SIGNAGE

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. All interior & exterior signs and building letters.

2. Raised letters and Braille formed as an integral part of the sign face.
3. Subcontractor to furnish all exterior sign bases
4. Furnish and install all accessories, trims, backing, blocking (if required), anchoring to supports, etc. required to complete this scope of work.
5. Subcontractor shall anchor assemblies to masonry or drywall partitions without the need for in-wall blocking.
6. All furnished items under this agreement shall be manufactured and prefinished per Architect's approved color samples.
7. Subcontractor shall final clean all installations upon installation completion.
8. Signage shall conform to ADA requirements.
9. Letters and background colors as selected by Architect from standard range.
10. All substrate, backing, blocking, and or anchoring to supports.
11. Prior to releasing signs for fabrication, subcontractor verification includes but is not limited to location, labeling, final numbering, etc. to ensure the most up to date information is included in the final signage package

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

**BID PACKAGE #1020
INTERIOR SPECIALTIES
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **INTERIOR SPECIALTIES**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
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Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 10 21 13.19 - PLASTIC TOILET COMPARTMENTS
2. SECTION 10 28 00 - TOILET ACCESSORIES
3. SECTION 10 75 00 – FLAGPOLES
4. SECTION 11 53 00 - LABORATORY EQUIPMENT
5. SECTION 11 95 15 - KILNS AND POTTERY STUDIO EQUIPMENT

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All furnished items under this agreement shall be prefinished per Architect's approved colors and samples.
2. Provide all required samples and mock-ups specified per the contract documents. Installations shall be in accordance with Contract Documents, any variations must be identified prior to installation. All final installations in accordance with NC -ADA guidelines and code.
3. Surfaces are to be cleaned and polished, temporary labels applied, and protective coatings are to be removed from the products provided by this scope.
4. Provide and install above-ceiling bracing, framing, and anchoring. Coordinate installation of materials pertaining to this scope with all other necessary Subcontractors.
5. Furnish and install all products per the specification sections above, including all associated accessories, trim, clips, fasteners, adhesives, anchors, brackets, and backing/support materials as required for a complete installation.
6. Include all blocking and connections for work within this Agreement.
7. Comply with the manufacturer's written installation instructions.
8. Materials are to be received in the manufacturer's original packaging. Discarded packaging is to be placed in the site dumpster provided by others.
9. This subcontractor shall be responsible for verifying that all required blocking is in place.
10. Coordinate Architectural Drawings with Fire Protection Drawings and Life Safety Drawings to confirm quantities and locations.
11. Provide all necessary information for layout requirements of all openings with submittal of shop drawings including rough opening sizes, backing requirements, and recommended mounting heights, etc. for verification by Architect. Coordinate with Metal Stud & Drywall Subcontractor.
12. Coordinate layout including wall types, thickness, ratings, construction materials, etc. Provide rated boxes at fire rated walls when recessed or semi-recessed.
13. Provide all complete locking mechanisms required for this scope. Turnover all keys to Construction Manager along with a transmittals for each type.
14. This subcontractor is responsible for field measures for accurate fabrication.
15. Provide and install all **toilet compartments**, to include but not limited to the following: doors, panels, pilasters, brackets, bracing, overhead bracing, hinges, latches, coat hooks, bumpers and door pulls; to provide a complete and functional system.

16. Provide and install all Portable Fire Extinguishers and Fire Extinguisher Cabinets, including mounting brackets, door hardware, surface and recessed installations, fire-rated units, glass, graphic lettering, etc., as indicated on the contract drawings.
17. Provide and Install all Toilet and Bath Accessories, including mounting brackets, surface and recessed installations, etc., as indicated on both the Contract Drawings and the 'Accessory Schedule' under the specification section.
18. Provide a minimum of 6 universal toilet accessory keys to the Owner.
19. This Subcontractor shall furnish and install Flagpole(s) in accordance with the plans and specifications.
20. This subcontractor shall furnish all required sleeves to be cast in concrete by others.
21. Subcontractor to provide detailed shop drawings indicating the size and design of flagpole foundation as recommended by the specific manufacturer.
22. Subcontractor shall furnish the following items (other items might apply please see spec sections):
 - a. Fire extinguisher cabinets.
 - b. Fire Blanket Cabinets.
 - c. Flammable Storage Cabinets
 - d. Acid Corrosive storage cabinets
 - e. Lab Coat Storage
 - f. Bike racks

(Addendum 2)

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

**BID PACKAGE #BP1050
STORAGE SPECIALTY
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **STORAGE SPECIALTY PACKAGE**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

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Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

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37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)

41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
 - a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 10 51 13 METAL LOCKERS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

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The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor is responsible for all penetrations, attachments, etc., in or through concrete, CMU, gypsum wallboard, wall blocking slabs, etc., or any other material or structure necessary to complete this work.
2. This subcontractor shall obtain and pay for any required permits, bonds, or fees as required to complete the scope of work under this agreement, including any required re-inspection fees/costs that are the responsibility of the Subcontractor.
3. Provide extended warranties, special warranties, and bonds as required for this scope of work. All warranties are to start at the time of substantial completion as approved by the architect and the owner.
4. Provide cleaning and polishing of all exposed surfaces furnished under this package before final turnover. This includes removing all labels, excess sealant, compounds, dirt, and other substances. Protection of all installed equipment, fixtures, etc. that are installed in this Agreement are the responsibility of this subcontractor.
5. This subcontractor shall provide aesthetic caulk as necessary for complete installation.
6. All anchorage devices, bolts, screws, nuts, etc., for all items furnished shall be included.
7. Include all necessary information for layout requirements with the submittal of shop drawings, including backing requirements, recommended mounting heights, etc., for verification by the Architect.
8. This subcontractor shall provide all locks and keying requirements for the lockers. Turn over all keys to the Construction Manager in writing under separate transmittal for each type.
9. All necessary locker identification systems and numbering sequences are included in this Agreement.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None.

**BID PACKAGE #1073
AWNINGS & CANOPIES
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **AWNINGS & CANOPIES**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting times 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

Bid Package #: 1073

AWNINGS & CANOPIES

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Initial Here _____

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 10 73 16 – CANOPIES
2. SECTION 10 73 26 WALKWAY COVERINGS (ALTERNATE 1 & 2)

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or

comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. The furnishing, installation, and removal of all necessary temporary safety brackets, safety cables, and fall protection devices for an OSHA-approved erection of steel and aluminum under this agreement. Subcontractor shall provide Contractor with copies of Subcontractor's fall protection plan, hoisting and rigging plan, safety policies, etc., prior to starting work.
2. This subcontractor has included all falsework, scaffolding, engineering, temporary shoring and bracing, support members, erection angles, cables, loose hardware, embeds, welding, drilling, and anchors necessary to support framing members during erection. Any and all patchwork required, as a result of temporary systems utilized, which is associated with the erection of this Scope of Work shall be the responsibility of this Subcontractor.
3. This subcontractor shall be responsible for providing safe access for the testing agency and Engineer of Record for the Work being fabricated, stored, or erected so that required inspection and testing may be accomplished. It is understood and agreed that any work under this scope found to be non-compliant shall be corrected and re-tested at no cost to the Contractor and/or Owner.
4. This subcontractor will provide weld shields to protect surrounding finishes and visual harm to others.
5. This subcontractor shall utilize gas or diesel-operated welding machines required for the Work under this Agreement. It is understood and agreed that temporary power may not be available onsite at the time this work is performed.
6. This subcontractor shall be responsible for the coordination of installation sequence with the Work of other trades as to prevent rework, damages, or delays.
7. Any drilling or core drilling of concrete and masonry to complete this Scope is included, especially the installation of expansion and epoxy anchors. All cleaning and patching of sprawled areas due to drilling is the responsibility of this Subcontractor.
8. This subcontractor shall review both Architectural and Structural Drawings in conjunction with approved Fabricator Shop Drawings for conflicts in configuration and placement of canopy perimeter angles, etc.
9. Any deviations, changes, and/or discrepancies differentiating the shop drawings from the Contract Documents shall be clouded and clearly marked, requesting the Architect's/ Engineer's and the Contractor's approval. Otherwise, it is understood that the Subcontractor shall furnish all products as per the Contract Documents.
10. This subcontractor shall submit to Contractor all welders' certificates and crane inspection certifications **ten (10) days prior to starting work**. All certifications and inspections shall be current in accordance with OSHA and the Contract Documents.
11. Per each specification section, the subcontractor shall perform surface preparation, shop painting, and hot-dipped galvanizing of materials supplied under this agreement.
12. The subcontractor is responsible for separating all dissimilar materials to prevent sources of corrosion due to electrolytic action and protect their work.

13. Provide signed and sealed engineered shop drawings by a registered and licensed Engineer in State of North Carolina as indicated in Contract Documents.
14. The subcontractor shall provide all warranties and Owner's maintenance stock as required.
15. All caulking to dissimilar materials.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #1140
FOOD SERVICE EQUIPMENT
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **FOOD SERVICE EQUIPMENT**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

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- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
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42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
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Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
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BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 11 21 73.10 - COMMERCIAL LAUNDRY EQUIPMENT**
- 2. SECTION 11 30 13 - RESIDENTIAL APPLIANCES**
- 3. SECTION 11 40 00 - FOOD SERVICE EQUIPMENT**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor, including manufacturer(s), shall provide all general warranties, extended warranties, extra material stock, Owner training, maintenance manuals/data and programs, etc. as outlined in the Project Specification sections related to this scope of work, and General Conditions and Supplementary General Conditions of the Owner-Contractor Agreement, and in Specification. All warranties commence on the date outlined in the Contract Documents.
2. Touchup painting of factory finishes and all equipment is included upon completion of installation and prior to Owner-Architect acceptance of equipment.
3. The subcontractor shall provide all required equipment start-up and burn-off requirements, etc., prior to the Final acceptance of work under this agreement.
4. Any permits and fees are included.
5. The subcontractor shall schedule, attend, and obtain all required health inspections, final building inspections, Fire Marshal inspections, Owner/Architect inspections, etc., of all kitchen equipment under this agreement.
6. All equipment interwiring is included. The subcontractor shall provide all switches and disconnects, controls, including fuses and relays, special plugs, shunt trip breaker, etc. required for this work. All equipment shall have specified voltages and shall be fully coordinated with the Electrical Contractor by this Subcontractor.
7. All wiring inside of the kitchen hood shall be coordinated in a pre-installation meeting with the electrician.
8. The Electrical Contractor is only obligated and responsible for providing conduit, wiring, and disconnects as indicated on the electrical drawings and division 26 specifications. This Subcontractor is thereafter responsible for a complete electrical connection of all items furnished under this agreement at no additional cost to the Contractor or Owner.
9. All inner plumbing of equipment is included. The subcontractor shall provide all plumbing, gas piping, solenoids, pressure regulators, gas quick disconnects, etc. required for this work. All condensate drain lines and heat tapes are included in this agreement by this subcontractor for all items furnished under this agreement.
10. The Plumbing Contractor is only obligated and responsible to provide plumbing piping, valves, etc. as indicated on the plumbing drawings and division 22 specifications. This Subcontractor is thereafter responsible for a complete plumbing connection of all items furnished under this agreement at no additional cost to Contractor.
11. All internal mechanical systems of equipment are included. The subcontractor shall provide all ductwork, dampers, controls, wiring, duct collars, etc. required for this work.
12. The Mechanical Contractor is only obligated and responsible to provide mechanical systems as indicated on the mechanical drawings and division 23 specifications. This Subcontractor is thereafter responsible for a complete mechanical connection of all items furnished under this agreement at no additional cost to Contractor.

13. The subcontractor shall field measure and ensure fitment of equipment. The subcontractor will notify the General Contractor (21 days prior to installation) of any deviations from the plans that will prevent the installation of the equipment under this scope.
14. The subcontractor shall include multiple visits to the site to verify all MEP rough-ins. All rough-ins will be installed per the approved Food Service Shop Drawings. It is the responsibility of the Food Service Subcontractor to sign off on all rough-ins **prior to slab placement**.
15. All keys for equipment locks are included in quantities specified in the contract documents. Keys shall not be left in the units. Turn over all keys to the Construction Manager along with transmittals for each type with tags, properly packaged, and corresponding numbers to match locking devices by room number.
16. Piping identification per specifications and governing agencies is included. All fire sealing and/or sealing of penetrations under this agreement is included.
17. All stainless-steel guiderails are included.
18. All required equipment trim packages, closure panels, top panels, etc., per Contract Documents, and as warranted by field conditions, are included for all items furnished and/or installed under this agreement.
19. All required perimeter caulking equipment, furnished under this agreement and Owner-furnished, is included per Contract Documents and, as warranted by field conditions, is included for all items furnished and/or installed under this agreement.
20. All equipment racks, pads, and supports are included for equipment furnished under this Agreement.
21. All equipment shall be furnished with specified factory finishes per the contract documents and the Architect's approval of color selections, including material textures.
22. Removal of protective materials and final cleaning of all items furnished under this agreement is included upon completion of installation of all equipment just prior to Owner-Architect acceptance of equipment. This Subcontractor is also responsible for final cleaning of all existing kitchen equipment.
23. The subcontractor is responsible for the shipment and installation of equipment on a phased installation sequence to correspond with the building readiness in effort to allow other trades to continue their respective Scope of Work:
 - a. Fixed equipment requiring MEP connections by others (after flooring).
 - b. Wall-mounted accessories (after finishing painting).
24. General Contractor will not be responsible for bulk deliveries and stored material costs which do not apply to above sequencing, nor will Contractor be responsible for damage and theft thereof.
25. The subcontractor is responsible for installing sleeves or drilling all penetrations into the building structure to install work under this agreement.
26. The subcontractor shall coordinate shop drawings and fabrication with other subcontractors to ensure that rough openings are appropriately sized and that the required backing materials are properly located.

- 27. Subcontractor shall indicate any required in-wall blocking by others on submitted Shop Drawings.
- 28. The subcontractor shall comply with all ADA access requirements when preparing Shop Drawings and note any discrepancies for confirmation with the Architect.
- 29. All cutouts, removable access panels, built-in chases, and supports/backing required within this scope for access to electrical, mechanical, plumbing, fire protection, attach shelving, etc. whether shop or field performed including reinforcing and refinishing of cutouts, sealing of penetrations, etc. is included under this agreement.
- 30. The Equipment Start-up process of this Scope of Work shall be completed 45 days prior to project completion to ensure all components function satisfactorily.
- 31. The subcontractor shall plan for and provide for the smoke evaluation test as required by Authority Having Jurisdiction.
- 32. Furnish and install all kitchen equipment items indicated on the Contract documents, including providing all final assemblies, final connections, etc. Also included:
 - a. All vapor proof fluorescent and incandescent fixtures including light bulbs for cooler/freezer units are included.
 - b. Hose, hose spray and retractable hose reel as indicated.
 - c. All lateral seismic bracing if required for the Hood System
 - d. Provide shimming/leveling system for walk in cooler and freezer as recommended by manufacturer.
 - e. Provide trim between walk in cooler/freezer and surrounding walls for flush mount finish.
- 33. ~~The subcontractor shall furnish and install the kitchen hood, exhaust fans, make-up air units, and all other necessary equipment to provide a fully functioning “hood system,” including final testing & balancing and acceptance of the hood system. Coordinate with the HVAC Contractor and Electrical Contractor throughout the process. (Addendum 2)~~
- 34. The subcontractor shall furnish and install the chemical fire suppression system as required by the contract documents or as required by code for items within this scope. The subcontractor shall fully coordinate interface requirements with the Fire Alarm Systems Subcontractor. All testing and refilling is included in this Agreement.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

BID PACKAGE #1166
ATHLETIC EQUIPMENT
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **ATHLETIC EQUIPMENT**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

Bid Package #: 1166

ATHLETIC EQUIPMENT

Page 5 of 9

Initial Here _____

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **SECTION 11 66 23 - GYMNASIUM EQUIPMENT**
2. **SECTION 11 66 23.16 - BASKETBALL BACKSTOPS**
3. **SECTION 11 66 23.23 - VOLLEYBALL EQUIPMENT**
4. **SECTION 11 66 23.53 - WALL PADDING**
5. **SECTION 11 66 43 - INTERIOR SCOREBOARDS**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Furnish and install all Gymnasium Equipment items indicated on the Contract documents, including providing all final assemblies, final connections, safety devices, etc.
2. Touchup painting of factory finishes is included upon completion of installation of all equipment and prior to Owner-Architect acceptance of equipment.
3. Subcontractor shall provide all Maintenance Manuals, Owner training; all required equipment start-up, etc. prior to Final acceptance of work under this Agreement.
4. All final cleaning of items installed in this Agreement as directed by Construction Manager and prior to final acceptance by Owner.
5. All electrical connections for the backboard electric operator are included in this Agreement.
6. The subcontractor is responsible for field measurement verification to ensure the proper installation of equipment under this scope. The subcontractor shall notify the construction manager of any discrepancies in the required measurements. Discrepancies shall be submitted to the Construction Manager in writing at least 14 days before the installation date.
7. Subcontractor shall indicate any required in-wall blocking by others on submitted Shop Drawings
8. All Sleeves, to be cast in concrete slabs shall be indicated in shop drawings, furnished and installed by this Subcontractor. This Subcontractor shall coordinate sleeve placement with the athletic flooring Subcontractor.
9. Coordinate with the Electrician for all equipment that requires power.
10. Coordinate with the Structural Steel Subcontractor for all equipment support members.
11. The following is a general outline of items included, but not limited to, under this agreement for
 - a. Scorer's Table
 - b. Ball Storage Cage
 - c. Team Chairs
 - d. Gym Floor Protective Cover and Storage rack.
 - e. Basketball Backstops
 - f. Volleyball Equipment
 - g. Including Volleyball Pole storage.
 - h. Including Volleyball net storage
 - i. Wall Padding
 - j. Electronic Scoreboards
 - k. Referee stand.
 - l. Shot Clocks

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #1220
WINDOW TREATMENTS
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **WINDOW TREATMENTS**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
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23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
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25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
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34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 12 24 13 - ROLLER WINDOW SHADES

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Provide all required samples and mock-ups specified in the contract documents. Installations shall be in accordance with the Contract Documents; any variations must be identified prior to installation and approved in writing by the architect/owner.
2. This subcontractor will be required to provide a mock-up. Subcontractor will present to the Architect one complete assembly for the purpose of evaluation of mounting, appearance, and accessories. Location to be chosen by Architect, and not to proceed with remaining work until accepted by the Architect.
3. Surfaces are to be cleaned and polished after installation. Temporary labels and protective coating are to be removed from products provided by this scope.
4. Furnish and install all products per the specification sections above, including all associated accessories, trim, clips, fasteners, adhesives, anchors, brackets, and backing/support materials as required for a complete installation.
5. Include all blocking and connections for work within this Agreement. If blocking is to be provided by others, the Subcontractor is responsible for verifying that all required blocking is in place.
6. Comply with the manufacturer's written installation instructions.
7. Provide all necessary information for layout requirements of all openings with the submittal of shop drawings, including rough opening sizes, backing requirements, and recommended mounting heights, etc., for verification by the Architect. Coordinate with Metal Stud & Drywall Subcontractor.
8. Materials are to be received in the manufacturer's original packaging. Discarded packaging is to be placed in the site dumpster provided by others.
9. Provide all items necessary for complete installation.
10. All furnished items under this agreement shall be prefinished per the Architect's approved colors and samples.
11. All required field measurements for proper fabrications is included and it's the responsibility of this subcontractor.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #1230

CASEWORK

(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **CASE WORK**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is

responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
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 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
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 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
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 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

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Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **SECTION 06 20 00 - FINISH CARPENTRY**
2. **SECTION 06 61 16 - SOLID SURFACING FABRICATIONS**
3. **SECTION 12 32 16 - MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK**
4. **SECTION 12 35 53.19 - WOOD LABORATORY CASEWORK**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All materials furnished under this agreement shall be prefinished. All finishes and colors shall be as specified in the Contract Documents and meet the Architect's approval for all laminates, melamine, exposed wood trim, hardware, etc. The reference specification for multiple color approvals and selections shall be acceptable to the Subcontractor at no additional cost to the Construction Manager or Owner.
2. Included in this agreement are all surface-mounted fire and preservative-treated blocking, backing, shims, supports, etc., required to install this work. All required in-wall blocking is by others, and shall be detailed as such on submitted shop drawings by this Subcontractor and prior to Drywall Subcontractor framing walls.
3. This subcontractor acknowledges that the casework designs on the Contract Drawings are schematic in nature and will provide a complete and functional casework assembly for the areas of its intended use based on approved shop drawings. This subcontractor shall comply with all ADA access requirements when preparing shop drawings and notify the Construction Manager and Architect of any discrepancies for confirmation.
4. Subcontractor shall coordinate casework shop drawings and fabrication with other Subcontractors to ensure rough openings, required backing materials, etc. to ensure proper execution of the work, including sinks, etc.
5. This subcontractor shall furnish and install all required supports for the work, including but not limited to hot-dipped galvanized steel for high humidity and preservative-treated wood locations. Unfished steel elsewhere
6. This subcontractor shall unload and distribute all materials under this agreement. No on-site storage will be permitted; all required off-site warehousing, storage, transportation, insurance, etc. are included. Material shall be installed within two weeks of arrival at the job site. Materials shall be stored in a climate-controlled environment per the specifications until ready for installation.
7. This subcontractor shall allow all wall substrates to be primed and the first coat finished painted before installing work under this agreement.
8. This agreement includes protection of all casework countertops installed under this agreement, with the ability to withstand construction usage without staining, scarring, or abrasive to the finished product upon completion of installation and acceptance of work by the Construction Manager.

9. All keys for casework locks are included in quantities specified in the Contract Documents and keyed to the Owner system. Keys shall not be left in the casework units. All keys shall be transmitted in writing and signed for by the Project Manager for the Construction Manager with tags, properly packaged, and corresponding numbers to match locking devices by room number.
10. The scope of work includes ventilation and vacuuming systems to limit dust during field cutting operations, and all field fabrications are to be conducted outside the building.
11. This subcontractor is responsible for notifying the Construction Manager and Mechanical Subcontractor to shut down the building ventilation systems in work areas where airborne dust is generated while performing work under this agreement to avoid soiling mechanical systems. The Construction Manager shall notify the Subcontractor of which ventilation systems are in operation.
12. All required coordination with Mechanical, Electrical, and Plumbing Subcontractors to allow time for rough ins to occur in concealed or under counter conditions.
13. All cutouts, removable access panels, built-in chases, and supports required within this Scope for access to cable TV, phone systems, security, fire systems, electrical power, lighting, computer monitors and assemblies, plumbing, plumbing fixtures, sinks, ductwork, computer equipment, etc. whether shop or field performed including reinforcing and refinishing of cutouts is included under this agreement. Cutouts for grommets shall be a special trip following the Owner's identification of exact locations with Owner-furnished installations.
14. All wood, wood shelving, and wood veneers provided under this agreement shall be manufacturer-finished and/or field-applied finished as part of this scope of work as indicated on the Contract Documents, including filling/sanding of anchorage holes, filling/sanding of joints, and field touchup of fillers and abrasions during installation. No exposed fasteners are acceptable unless pre-approved by the Architect.
15. Final cleaning and adjustment of casework are included before acceptance by the Owner. This shall include polishing, wiping, vacuuming, washing, or dusting to ensure that this subcontractor punched out the product prior to the Construction Manager's final punch list. Final cleaning shall not precede the removal of temporary protection.
16. Dissimilar material and moisture barriers are included.
17. Any redrafting of shop drawings to accommodate field conditions after field measurements is included.
18. Field verification for access, substrate conditions, humidity control, and temperature control are included, and any noted deficiencies shall be submitted to the Construction Manager in writing at a minimum fourteen (14) days prior to start of work.
19. All cosmetic caulking is included per Drawings and/or by Owner/Architect direction for work acceptance relating to this Scope and surrounding finishes including, but not limited to: casework perimeter to dissimilar material conditions to this Scope, countertops and

- backsplashes to drywall, countertops to backsplashes (if not one piece), windows sills to window and drywall, wall caps to drywall, etc. in custom colors as required by Architect.
20. Included is protection of other surrounding finishes to complete this Scope of Work, including costs of protection methods which will not damage work by others upon removal.
 21. This subcontractor is responsible for all equipment to unload and distribute all materials, labor, and equipment furnished under this agreement. All hoisting of materials to elevated floors is included.
 22. This subcontractor shall be responsible for coordinating with the electrician and other trades for all cut out within the casework. These cut outs shall be performed by this subcontractor while in fabrication.
 23. This subcontractor shall coordinate all cabinet layout and fabrications with approved residential appliances, if any, provided by the Owner.
 24. Stockpiling the floor with materials will not be allowed. Any material delivered must be installed within two weeks.
 25. The following location of casework is listed only as a guide, but shall in no way limit the Scope of Work intended under the Contract Documents, etc.:
 - a. All wood veneer plastic laminate cabinets including countertops, backsplashes, aprons, handicap panels, skirts, etc. *Furnish and install all metal counter support brackets.*
 - b. All wood veneer and plastic laminate reception/lobby and staff office cabinets, including countertops, edging, backsplashes, aprons, skirts, wood trim, etc.
 - i. Furnish and install all counter metal support brackets.
 - ii. All prefinished hardware including locks, knobs, handles, operating hardware, grommets, stops, drawer slides, shelf supports, silencers, brackets, coat hooks etc.
 - iii. All required cantilevered counter supports, counter die-walls (included framing, etc.), adjustable shelves, fixed shelves, dividers, etc.
 - iv. All fillers panels, end wall panels, upper cabinet top closure panels to ceiling as required on drawings, blank-off materials, etc. to complete this scope to existing substrate is included.
 - v. All edge banding.
 - vi. 3'L bench with wood seats in changing rooms.
 - c. All wood, glass and metal shelving, including standards and brackets
 - d. All media center casework
 - e. All boardroom and conference room casework
 26. All shop drawings shall indicate each individual room layout plan and shall be identified matching architectural floor plans. Use of "typical" and "opposite hand" detailing for floor plans will not be accepted. Any commonly used shop drawing casework elevations shall be identified and labeled by room numbers for each detail.
 27. All sinks and faucets located within the casework are to be provided by this subcontractor.

28. This subcontractor shall be responsible for providing and installing all solid surfaces windowsills as indicated on the contact documents.
29. If guaranteed dimensions are required, each subcontractor shall be responsible for providing templates with durability to withstand installation. Each template shall have layout dimensions if it is to be installed by another trade. Each subcontractor is responsible for confirming the accuracy of each template installed immediately before and after placement.
30. All Flammable Storage cabinets will fall under BP1020. (Addendum 2)

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

BID PACKAGE #1266
TELESCOPING BLEACHERS
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **TELESCOPING BLEACHERS**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 12 66 13 - TELESCOPING BLEACHERS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Subcontractor must ensure that bleachers will be manufactured and delivered to the site within 12 weeks of Submittal approval (Shops, Colors, etc.). (12 weeks?)
2. Touchup painting of factory finishes is included upon completion of the installation of all equipment and just prior to the Architect's acceptance of equipment.
3. The subcontractor shall provide all Maintenance Manuals, Owner training, all required equipment start-up, etc., prior to the Final acceptance of work under this Agreement.
4. All final cleaning of items installed in this Agreement as directed by Construction Manager and prior to final acceptance by Owner.
5. Furnish and install all Telescoping Bleachers as indicated on the Contract documents, including all final assemblies, final connections, signage, anchors, fasteners, etc.
6. All Sleeves, to be cast in concrete slabs or built into CMU walls or wood floor, shall be indicated in shop drawings, furnished and installed by this Subcontractor. This Subcontractor shall coordinate sleeve placement with the appropriate Subcontractor. Any electrical requirements pertaining to the motorized equipment for the bleachers should be reflected on the shop drawings and coordinated with electrician on-site.
7. All Field measurements and verification are included. The subcontractor will contact the Construction Manager and notify in writing any field discrepancies found during field measurement at least twelve (12) days before the installation of equipment.
8. Subcontractor shall indicate any required in-wall blocking by others on submitted Shop Drawings.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

**BID PACKAGE #1420
ELEVATOR
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **ELEVATOR**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 14 21 23.16 - ELECTRIC TRACTION PASSENGER ELEVATORS – MRL

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. The subcontractor is responsible for scheduling, coordinating, preparing, and documenting all inspections, including those of the architect, Engineer, and required local authority(s) having jurisdiction. All pre-testing and testing requirements needed to achieve a certificate of occupancy are included.
2. The subcontractor is responsible for testing building systems to the point of connection. All testing, certification tests, etc. under direction of Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction.
3. The subcontractor shall furnish and install all access doors required for access to this scope of work in accordance with the local authority(s) having jurisdiction.
4. Subcontractor shall protect all flooring conditions (including concrete slabs to receive flooring) from staining and any other damage under work under this agreement.
5. All warranties start at Project Completion or date approved by Owner, NOT at start-up.
6. Provide testing, cleaning, certification, start-up, etc. to meet project schedule on a per area basis.
7. The subcontractor is responsible for identifying all potential conflicts with building structure systems. Subcontractor shall include all required piping modifications, fittings, etc. to comply with final piping layouts with approved coordination drawings and/or to comply with field conditions for connections to existing utilities at no additional cost to Construction Manager.
8. The subcontractor has reviewed the Drawings and Specifications for this Project. The subcontractor has found no obvious omissions and further agrees that the Work of this Agreement and the Project can be constructed within the milestone and completion dates without claims for delay or impact costs unless substantial owner-directed Scope changes occur.
9. All Maintenance Manuals and Owner Training requirements shall be completed 45 days before the scheduled project completion date or earlier if noted elsewhere in the Contract Documents.
10. Coordination with all project designers to ensure the areas for the elevator scope of work are adequate and detailed to allow for installation and operation as desired.
11. Include all motors, drive systems, rails, brackets, pumps, piping, wiring, controls, car slings, bi-parting freight doors, call buttons, indicator lights, switches, valves and miscellaneous elevator components for a complete installation as intended by the Contract Documents and as required to meet local, and state code requirements.
12. This includes the supply and installation of all internal fire alarms, life safety devices, and recall programming required for the elevators.
13. Furnish and install all structural steel machine beams and any necessary absorbers, isolators, and anchor bolts for proper elevator equipment installation. Submit the intended layout of all equipment to be installed in the machine room/hoistway prior to equipment release. Provide dimensions on shop drawings for equipment supports.

14. This Subcontractor shall verify elevator pit size and depth, floor opening sizes, over-travel requirements, any hoistway ledges or obstructions, overall hoist way height, hoistway ventilation requirements, ventilation/cooling of the machine room, etc.
15. During Shop Drawing preparation, all discrepancies shall be noted to the Contractor in writing. The subcontractor will not be compensated for modifications to the Elevator System to comply with the elevator pit/hoist way design. This must be done within the first 30 days of the project.
16. The subcontractor shall furnish and install all elevator rails, safety railing, and safety netting, including any required overhead and intermediate secondary support members (i.e., where the floor-to-floor height exceeds the code and/or design limit) required to install the Work under this Agreement.
17. This subcontractor shall provide final connections to; and coordination with fire alarm system, emergency power system, CCTV, security and telephone system, Interface required with Security system software, and telephone wiring from elevator cab to IDF/MDF.
18. Provide electronic security cable travel means. The subcontractor shall include personnel on site during all fire alarm inspections. Fire alarm inspections will be on a per-floor basis, with an additional inspection for the final building at substantial and final completions.
19. Power wiring will be brought to the equipment disconnect and landed by others. Elevator subcontractor shall be responsible for all power wiring from disconnect to their equipment. Any modifications to power requirements or pits must be included and carried by this Subcontractor.
20. All required electrical work shall be the responsibility of this Subcontractor in accordance with the Contract Documents and which is necessary for the installation and operation of the elevator. The electrical Subcontractor's scope of inclusion is only per Electrical Drawings.
21. The subcontractor shall identify anticipated work to be performed by others on approved shop drawings.
22. The subcontractor shall provide and install all complete required finishes, including but not limited to entrances (frames and fronts), cab subflooring, cab walls, cab ceiling, etc., as required for a complete installation.
23. This subcontract is to furnish all non-security and security access panels required for access to valves, switches, etc. All access panels/doors (including fire rated) and covers as required by code, or indicated on the documents are by this Subcontractor.
24. Include all caulking of equipment and fixtures installed by this bid package, including security caulking in secure areas.
25. All fire-rated sealing of penetrations required for work under this agreement, including hydraulic lines.
26. Clean all exposed surfaces furnished under this package prior to final turnover. This includes removing all labels, excess sealant, compounds, dirt, and other substances. This subcontractor is also responsible for protecting all installed equipment, fixtures, etc., that are installed in this bid package.

27. The subcontractor will provide rough-in information in their shop drawings for position indicators, push-button stations, hall lanterns, etc.
28. This subcontractor is to coordinate with the finish trade subcontractors to confirm the rough-in locations and openings are correct.
29. The subcontractor shall obtain and pay for any required inspections, permits, bonds, or fees as required to complete the scope of work under this agreement, including any required re-inspection fees/costs. It is the responsibility of this Subcontractor to anticipate inspection delays in the installation durations and sequence such work ahead of others so as not to impose delays in the schedule. This shall be construed for NC DOI, Engineer, City, County, and Fire Marshal, etc.
30. Dewatering of pits as required for the duration subcontractor is on site.
31. If delivery of factory equipment is not timely as to allow the hoist way to be closed up and finishes to proceed in accordance with the approved progress schedule, then Subcontractor shall obtain, by whatever means necessary, all required rails, brackets, and door frames and maintain Progress Schedule at no cost to the Contractor. Delays at the factory shall not be grounds for time extensions by the Subcontractor.
32. The subcontractor will coordinate all equipment with the electrical subcontractor's Work and verify all control and power requirements, such as smoke detectors, power wiring, etc. The subcontractor shall notify the Contractor of all conflicts or requirements between the Work by others and the Work of this Agreement required for a complete installation of the elevator Systems with shop drawing approval.
33. Provide all carrier cabling as required to support the systems as required by contract documents.
34. The subcontractor is responsible for identifying on approved shop drawings the routing of all piping from the machine room to the hoist way/pit areas. All routing shall meet the Owner's and Architect's approval at no additional cost to the Contractor.
35. The subcontractor shall maintain and properly replace, as necessary, all hoist-way removable barricades and signage during the progression of this Work until the work is accepted.
36. The final removal/disposal of hoistway safety railings at openings is included throughout the execution of work under this agreement by this Subcontractor.
37. The subcontractor shall provide surge protection and coordination of power necessary for executing work prior to permanent power installation.
38. Subcontractor is responsible for sizing and dimensionally locating all items furnished and installed by others for code compliance and per contract drawings on this Subcontractor's Shop Drawings, including but not limited to:
 - a. Sump Pit (location only)
 - b. Elevator Pit Ladder(s) (location only)
 - c. Elevator Pit Lights and Switching (location only)
 - d. Elevator Pit Convenience Outlets (location only)
 - e. Elevator Power Source Point of Termination for Controller and Machines (including service size).
 - f. Elevator Machine Concrete Housekeeping Pad

- g. Phone and Fire Alarm Point of Termination (location only)
 - h. Wall opening blockouts for equipment lines/services installed under this agreement or under slab rough-in requirements
 - i. Rail anchor inserts (furnished by this Subcontractor, and installed by Contractor if in concrete or masonry walls only) Elevator hoist beam.
 - j. Hoist way ventilation requirements
 - k. Sump pump (Size Only).
39. Subcontractor shall provide elevator maintenance for a period of twelve (12) months after acceptance and
40. Includes costs for 60 days of temporary use, recertification, retesting, and 2 extra mobilizations.
41. All testing, certification tests, commissioning, etc., under the direction of the Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction. This includes but is not limited to all seismic qualification certifications and/or calculations as required in various elevator specification sections.
42. Certifications/calculations shall be signed and sealed by a qualified professional engineer.
43. This Subcontractor shall make deliveries by trailer truck. Storage space at the jobsite is extremely limited and will only be available as the CM allows. Temporary offices and equipment and apparatus at the construction site will be permitted only to the extent approved by the Construction Manager.
44. Include coordination and assistance with third-party inspections and testing as required, including providing personnel for commissioning the entire time of the elevator commissioning process (including commissioning of systems that interface with the elevators, such as fire alarm).
45. If the Certificates of Use are issued before Substantial Completion, the Subcontractor will hold the Certificates so that the warranty period does not begin until the substantial completion date.
46. The subcontractor shall utilize gas or diesel-operated welding machines. It is understood that welding will not be done using on-site temporary electrical power.
47. Subcontractor agrees to work with Masonry and Concrete Subcontractors to coordinate all rough-ins.
48. The subcontractor is responsible for supplying temporary power for the elevator startup.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. Elevator Sump Pump provided by others.
- 2. Sump Grate provided by Others.

**BID PACKAGE #2100
FIRE SUPPRESSION
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **FIRE SUPPRESSION**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
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22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 08 31 13 - ACCESS DOORS AND FRAMES
- 2. DIVISION 21 – FIRE SUPPRESSION

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. All Fire Protection related work identified on plumbing drawings as well as inclusion of those items indicated on civil and mechanical drawings identified to be completed by Fire Protection Subcontractor.
2. Section 08 31 13 - access doors and frames in association with this scope of work
3. This agreement includes all piping, valves, couplings, water flow indicators, water-motor gongs, Fire Department connections, air compressors, backflow devices, supervisory switches, alarm check valves, sprinkler heads, alarm devices, anchorage hangers/devices and attachments, meters, sleeves, gauges, escutcheons, etc. as required for a complete fire protection system.
4. Connections for electrical alarm system including flow and tamper switches all properly connected to the sprinkler system is included. Coordination of location of all devices with Electrical Subcontractor is included.
5. All fire department connections drain lines, and inspector test line locations shall be coordinated with Owner, Architect, and local authority(s) having jurisdiction.
6. The subcontractor shall ensure that the equipment hose threads are identical to those used by the local fire department equipment.
7. The subcontractor is responsible for the vibration and seismic requirements of the Fire Protection system. This includes all design calculations and drawings which must be signed and sealed by a professional Engineer registered in the state of North Carolina.
8. Provide all required sprinkler heads of type, location, size, and color to meet code, the Architect's approval, and the local authority(s) having jurisdiction approval in order to meet both required coverage areas and aesthetics.
9. The subcontractor is responsible for scheduling, coordinating, preparing, and documenting all inspections of the Owner, Architect, Engineer, and required local authority(s) having jurisdiction. All pre-testing and testing requirements needed to achieve a certificate of occupancy are included.
10. The subcontractor is responsible for testing building systems to the point of connection. All testing, certification tests, etc., are conducted under the direction of the Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction.
11. The subcontractor is responsible for ensuring that all sprinkler valves are accessible. Should valves be deemed inaccessible by the local authority having jurisdiction, this Subcontractor shall be responsible for providing fixed ladders/wall steps or other means deemed appropriate by the local authority to access valves.
12. The subcontractor shall furnish and install all access doors required for access to this scope of work in accordance with the local authority(s) having jurisdiction.
13. The subcontractor is aware of the building's architectural, structural, HVAC, plumbing, and electrical components and has considered these for layout, head locations, and penetrations.
14. Subcontractor is to meet and coordinate with the electrical, plumbing, and mechanical subcontractors to ensure that all items, whether electrical, mechanical or fire protection, will be provided as needed and that the installation of any items will be completed by one of the other subcontractors without any additional expense to the Construction Manager and/or

- Owner. The first installation does not constitute grounds for a change order for relocation of work under this agreement, which has not been properly coordinated with others.
15. The subcontractor shall verify existing incoming water pressure (i.e., flow test) for final design and acceptance of the system by the local authority(s) having jurisdiction. This would include performing (as witnessed by Construction Manager, Owner and Engineer) an on-site water flow test(s) as basis of engineered shop drawing design within five days of contract award and before beginning shop drawings to certify the information provided by Owner at time of bid is accurate. (More time?)
 16. All wall and floor slab penetrations must be properly core drilled and/or sleeved, collared, escutcheoned when exposed, grouted, fire-safe, and fire-caulked to meet all applicable codes. Provide a neat, clean, tightly sealed product. The subcontractor is responsible for the layout, furnishing, and installation of all sleeving requirements under this agreement.
 17. The subcontractor is responsible for cleaning up all core drill slurry from walls and slabs and removing and patching all core drill machine anchors.
 18. Provide all required Owner training, maintenance manuals, spare heads and cabinet, etc. in unopened packages. All items shall be turned over no later than 30 days prior to the Project Completion date. All items shall be transmitted to Construction Manager in writing and delivered and unloaded in a location(s) on Campus as determined by Construction Manager.
 19. The subcontractor is responsible for avoiding trapped water in the sprinkler system during design and installation. All required auxiliary drains are included.
 20. The subcontractor is responsible for providing all required pipe identification, valve tagging, pipe color coding, flow direction identification, etc. Prime painting of all steel piping and accessories requiring finish painting is included herein.
 21. The subcontractor is responsible for limiting exposed piping conditions to public view and shall coordinate and obtain approval from the Architect of all such exposed conditions prior to installation. Shop drawing approval by the Architect does not constitute acceptance of exposed or uncoordinated piping locations if such conflicts are not highlighted on submittal approval for the Architect as a 'verification by others' notation.
 22. The subcontractor shall provide the Painting and Caulking Subcontractors with the necessary substrate materials for adhesion, cohesion, and compatibility test reports and prepare the surface accordingly for the application of finish products. **Removing of all piping oil, grease, etc. is included.**
 23. The subcontractor is responsible for all layout and coordination of layout for the installation of walls, openings, soffits, and the suspended ceiling systems within this work and work by other trades affected by this scope of work.
 24. The subcontractor shall protect all flooring conditions (including concrete slabs to received flooring) from staining under work under this agreement.
 25. Subcontractor will coordinate this work with the masonry and drywall subcontractors to minimize cutting of CMU and drywall, ensure adequate framing, required wall thickness, etc. Any blocking and backing required for rough-in at stud walls or soffits is provided by this Subcontractor.

26. The subcontractor shall install and test fire protection system during building rough-in stage to prevent any water damage to work by others. Subcontractor will also energize the complete system prior to Construction Manager beginning finish operations (i.e. flooring, finish painting, casework, etc.) to ensure system complete and no leaks are apparent.
27. The subcontractor is responsible for providing adequate freeze protection techniques in the design, layout, and installation of the fire protection system.
28. The subcontractor is responsible for the final placement of all sprinkler head locations to meet the design intent with the local authority(s) having jurisdiction and aesthetics' approval for the Architect, including all adjustments, etc., at no cost to the Construction Manager. All lines shall be installed true and straight with heads being center, square and equal in layout. Subcontractor shall not install the sprinkler heads until ceiling grid installations, final painting, etc. are completed by others to ensure correct placement and no damages occurs to sprinkler heads and/or escutcheons.
29. All warranties start at Project Completion or date approved by Owner, NOT at start-up.
30. The subcontractor shall allow the walls to be primed and finished painted prior to installing surface-mounted piping, heads, etc.
31. All rough-in work included in this Scope of Work is to be concealed within wall cavity unless approved otherwise by Owner and Architect.
32. All reference to 'by Construction Manager', 'by Contractor' and 'by General Contractor' on the Fire Protection Drawings and in Division 21 specification sections shall be inferable assumed as 'By this Subcontractor'.
33. Subcontractor is responsible for compliance to all requirements of local authority(s) having jurisdiction on all installations under this agreement.
34. Electrical subcontractor will only provide conduit and wiring as indicated on the electrical drawings. Any additional conduit or wiring required to complete this system above what is indicated on the electrical drawings shall be included herein.
35. Concrete saw cuts, removal, and concrete replacement as required to install Work within this Scope is included in this Scope of Work. No saw cutting or core drilling are to be performed without written approval from Construction Manager and Architect/Engineer.
36. Any grouting for piping or equipment is included.
37. Provide testing, cleaning, certification, start-up, etc. in whole or in part of the work included in this scope to meet project schedule on a per area basis.
38. The subcontractor is responsible for caps to protect all installed heads from damage, paint, drywall mud, etc. from the time of installation to the Owner's acceptance of the buildings. Installation of sprinkler heads will precede the finish painting of the walls.
39. The subcontractor shall provide a head cap/ring at all drywall installations for all drywall finishers to finish around the head and cut the drywall neatly to the correct size of escutcheon. This subcontractor is responsible for all drywall repair costs to refinish around sprinkler heads caused by piping movement or misalignment.
40. The subcontractor is responsible for identifying all potential conflicts with building structure systems. Subcontractor shall include all required piping modifications, fittings, etc. to comply

with final piping layouts with approved coordination drawings and/or to comply with field conditions for connections to existing utilities at no additional cost to Construction Manager.

41. The subcontractor has reviewed the Drawings and Specifications for this Project. Subcontractor has found no obvious omissions and further agrees that the Work of this Agreement and the Project can be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.
42. All Maintenance Manuals and Owner Training requirements shall be completed 45 days prior to schedule project completion date or earlier if noted elsewhere in Contract Documents.
43. The subcontractor is responsible for developing all floor and ceiling layout background files and shall not assume Architect files will be available for use in developing shop drawings or coordination drawings.
44. Layout of all work from Construction Manager's single horizontal (one north-south and one east-west) and vertical control (one benchmark) point provided on a one time basis.
45. The subcontractor is responsible for obtaining any necessary City/County permits and scheduling inspections for all temporary/and permanent installations and ensuring notification of the power company for installation of meters.
46. The subcontractor is responsible for the complete design of the wet-pipe sprinkler system, including complete submittal to the Architect and appropriate governmental inspection agencies for approval. Subcontractor is also responsible for obtaining all permits from local authority(s) having jurisdiction, etc.
47. All drawings and calculations shall be signed and sealed by a registered and licensed Engineer in the State of North Carolina
48. Provide Design and installation of Seismic restraints per plan directive and Appendix B in drawings. (verify the location of seismic restraints directive)
49. BIM coordination will occur for this project. See the section "**H. BIM COORDINATION SCOPE INCLUSIONS**" below.
50. The subcontractor is responsible for coordinating and providing a minimum of 48-hour notice prior to the shutdown of any system required to perform their work. All shutdowns and associated work must be conducted outside of normal working hours to minimize disruption to regular operations. Obtain necessary permissions and ensure all stakeholders are informed about the shutdown schedule. Clear and detailed communication must be maintained regarding the scope of work, the expected duration of the shutdown, and any potential impacts on other systems or operations. The subcontractor should prepare and share a contingency plan to handle any unexpected issues that may arise during the shutdown period. Ensure that backup systems or alternative arrangements are in place if required. Adhere to all safety regulations, guidelines, and protocols during the shutdown and subsequent work. Conduct a thorough inspection after the work is completed to ensure that the system is fully operational and there are no residual issues.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

H. BIM COORDINATION SCOPE INCLUSIONS:

Bim coordination scope inclusions outline the scope of work for Building Information Modeling (BIM) required for Mechanical, Electrical, Plumbing, and Fire Protection (MEPFP) trades. The objective is to ensure seamless coordination and integration of all MEPFP systems through the BIM process. All final approved drawings must be done in the same paper scale as the contract drawings.

1. Coordination Meetings
 - a. Weekly coordination meetings will be conducted. Each subcontractor must designate an MEPFP coordinator to attend these meetings.
2. Allowance
 - a. Each subcontractor is to provide an in-scope allowance of \$35,000. This allowance has been set aside to cover the costs associated with coordination activities and will facilitate collaboration between the MEPFP trades and the designated CM-supplied BIM Manager.
3. Collaboration with BIM Manager
 - a. Subcontractors are required to work directly with the CM-provided BIM manager. All routing and subcontractor preferences must be resolved outside of coordination meetings.
 - b. All drawings will be done by in 3D with Autodesk Revit or Navisworks Manager.
4. Clash Detection and Resolution
 - a. During weekly coordination meetings, clashes with all MEPFP contractors will be discussed and resolved.
5. Final As-Built Models
 - a. At the end of the BIM process, all final as-built models must accurately reflect all installed MEPFP systems. Any deviations from the BIM drawings requiring rework will be done at the expense of the subcontractor, not covered by the MEPFP allowance.
6. Preparation and Coordination Timeline
 - a. After the issuance of the "Letter of Intent," the subcontractor has 30 days to prepare for the BIM process and coordinate with the CM-supplied BIM coordinator.
 - b. The first BIM coordination meeting will begin 30 days after the "Letter of Intent" is issued.
7. Review and Approval of Coordination Drawings
 - a. 90 days after the issuance of the "Letter of Intent," the CM-supplied BIM Manager will issue coordination drawings for approval and review.
 - b. The subcontractor's BIM coordinator will review and approve all BIM model drawings within 15 days. After 15 days, the issued drawings will be considered

binding and used on-site. Any errors or changes required after this period will be made at the subcontractor's expense.

8. Completion of BIM Process

- a. The BIM process will be completed 105 days after the "Letter of Intent" is issued.
- b. Any delays caused by the subcontractor will result in a deductive change order for any additional costs incurred.
- c. At the end of the BIM Process this Subcontractor will have access to all MEFP Coordinated. Models and drawings will comply with project standards and guidelines, ensuring they meet the required level of detail and accuracy for construction.

**BID PACKAGE #2200
PLUMBING
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **PLUMBING**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 08 31 13 -ACCESS DOORS AND FRAMES
- 2. Division 22 – PLUMBING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or

comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. The subcontractor shall utilize gas or diesel-operated welding machines. It is understood that welding will not be done using on-site temporary electrical power.
2. Section 08 31 13 - access doors and frames in association with this scope of work
3. The subcontractor shall submit to the Construction Manager all welder's certificates and crane inspection certifications ten (10) days prior to starting work. All certifications and inspections shall be current in accordance with OSHA and the Contract Documents.
4. The subcontractor shall lay all work under this agreement.
5. All testing, certification tests, etc. under direction of Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction.
6. **This subcontractor shall be responsible for disconnecting, rerouting, and capping, if necessary, all existing plumbing connections to the building designated for demolition, in accordance with project specifications and applicable building codes. This subcontractor shall coordinate with the demolition subcontractor and site work subcontractor to coordinate this work. (Addendum 2)**
7. All tie-ins, excavation of pipe, terminations, transitions, flanges, gaskets, etc. into new and existing site utility systems is included herein. This includes connections to site systems that are not installed at the time of installation of piping under this agreement (i.e., all final connections are by this Subcontractor - first installed does not constitute final connections by others).
8. This scope of work includes the final cleaning of all exposed equipment, fixtures, piping, and piping insulation just prior to the Building Occupancy Inspection, including the removal of shipping stickers, etc.
9. Verify site utility piping inverts prior to preparing for installation work under this agreement. The inverts and piping lengths indicated on the document are for information purposes only. All information shall be field verified for lengths; all invert elevations shall be coordinated with other trades, etc.
10. The subcontractor is responsible for final setting and adjusting of all drains, cleanouts, etc., to receive specified floor finishes or final site grades.
11. The subcontractor is responsible for the total coordination of all plumbing installations and for providing a complete plumbing system. There will be no cost or time considerations given for adjustments of equipment or pipe runs due to conflicts arising from lack of coordination with adjacent MEP installations, new structures, or other Subcontractors. First installed does not constitute grounds for a change order for re-installation of uncoordinated work.
12. The subcontractor shall layout and install all required sleeves within elements of the structure for the installation of the Subcontractor's work. The subcontractor shall seal, pack, fire safe, water seal, weather caulk, aesthetic caulk, etc., all sleeves/penetrations as required by the Contract Documents and maintain required ratings. Formed openings in masonry, concrete walls, and penetrations through hollow core planks are included herein.

13. The subcontractor shall be responsible for providing safe access for the testing agency and the Engineer of Record to the work being fabricated, stored, or installed so that required inspection and testing may be accomplished. It is understood and agreed that any Work under this Scope found to be in non-compliance shall be corrected and re-tested at no cost to the Construction Manager and/or Owner.
14. Subcontractor shall furnish and install all required supports and seismic requirements for this work, including, but not limited to, anchor bolts, hangers, isolators, channels, and angles, embeds. All items shall be hot dipped galvanized finish, unless noted otherwise in the Contract Documents.
15. The subcontractor is responsible for verifying with the Structural Engineer that existing structures will support new pipe loads to determine if ceiling or floor-mounted supports are required at no additional cost to the Construction Manager.
 - a. Should additional supports be required to distribute loads over more than one structural element per industry standards, shall be included. All items hanging from steel joists shall be hung within design requirements. No point loading or overloading of truss system is permitted. Floor stands are included if existing structural elements will not support loads.
16. This subcontractor is to furnish and install all keyed access panels and covers specified, shown, or required by the work. This Subcontractor is responsible for coordinating the locations and sizes of required framed openings with respective trades during the construction of walls, ceilings, and floors. All-access panels shall be of a "keyed type" per the Owner's standards.
17. The subcontractor shall furnish all required VFDs, starters, fuses, heaters (thermal overloads), and combination starter/disconnects as indicated to be provided for specific equipment under this scope of work. The electrical subcontractor will install the above. It is the responsibility of this subcontractor to clearly mark the corresponding equipment on the packages.
18. All wall and floor slab penetrations must be properly core drilled and/or sleeved, collared, escutcheoned when exposed, grouted. Provide a neat, clean, tightly sealed product. The subcontractor is responsible for the layout, furnishing, and installation of all sleeving requirements under this agreement. Including Hollow core.
19. The subcontractor is responsible for cleaning up all core drill slurry from walls and slabs and removing and patching all core drill machine anchors.
20. The subcontractor is responsible for coordinating all mechanical installations that can not be core drilled and providing a complete mechanical system. There will be no cost or time considerations given for adjustments of equipment or pipe runs due to conflicts arising from lack of coordination with adjacent other existing MEP installations, building structure or other Subcontractors. First installed does not constitute grounds for a change order for re-installations due to uncoordinated work.
21. Subcontractors shall layout and install all required sleeves within elements of the structure to install the Subcontractor's work. Subcontractor shall seal, pack, fire safe, water seal, weather caulk, aesthetic caulk, etc. all its sleeves/penetrations as required by the Contract Documents and as to maintain required ratings. Formed openings in masonry, concrete walls, and penetrations through hollow core planks are included herein.
22. The subcontractor shall furnish and install valve charts, labels, tags, pipe identification, access panel ID, equipment ID, etc., per specifications and drawings and as required.

23. Provide all 'Extra Materials for Owner' to Construction Manager in unopened containers/packages thirty (30) days after notice to proceed prior to beginning work. All attic stock shall be palletized and handed to Construction Manager with a transmittal form for each item type. All attic stock items shall be delivered in one delivery. Subcontractor shall place materials in a location (or locations) determined by Owner/Contractor.
24. All warranties start at the Project Building Occupancy date, NOT at start-up. The subcontractor is responsible for all warranty costs.
25. Subcontractor shall allow walls to be primed and finish painted prior to installation of surface mounted piping and setting of equipment. The subcontractor will be responsible for repaint costs if damages occur while installing work under this agreement.
26. The subcontractor shall provide all rough-in and final hook-up of all items requiring plumbing service that are specified in any other section of the specifications, Owner furnished, and/or shown on the drawings. All equipment or materials provided under other specification sections that are to be installed by this Subcontractor will be identified and delivered to this Subcontractor's project office.
27. The subcontractor shall provide all required pressure-reducing valves to equipment furnished under this agreement, whether indicated on documents or not, as required for the proper function of the equipment.
28. Subcontractor understands all building finishes are protected by this Subcontractor to perform work under this agreement. Subcontractor is responsible for protecting surrounding substrates and finishes from Work of this Scope, especially windows, flooring, doors, frames, paint, MEP installations proceeding completion of work under this agreement, etc.
29. All piping, bedding, and backfill material as required by the Contract Documents, Local, City, County, State, and Federal Codes/Regulations are included.
30. Taping of all floor drains, clean-out covers, etc., is included to protect the finish. The protection of drains and covers shall be removed upon the conclusion of all work by all trades and prior to the Architect's punch list. Final cleaning and polishing of drains and clean-out covers are included at the conclusion of the project.
31. The subcontractor shall furnish and install all material required for plumbing rough-in, hookups, and final hook-ups to equipment furnished by others as indicated by the Contract Documents. The subcontractor is also responsible for ensuring all equipment shipped corresponds with approved submittals prior to hook-ups, including rough-in locations, mounting heights, grounding, power requirements, etc. The subcontractor is further responsible for ensuring all equipment indicated on Architectural and Plumbing Drawings have sanitary and water sources.
32. This Subcontractor is responsible for coordinating work under this agreement with Mechanical, Electrical, Fire Protection, and Site Utility Subcontractors.
33. The subcontractor is responsible for identifying all potential conflicts with existing building structure systems and MEP installations. The subcontractor shall include all required piping modifications, fittings, etc. to comply with final piping layouts with approved coordination drawings and/or to comply with field conditions for connections to existing utilities at no additional cost to the Construction Manager.

- 34. This Subcontractor shall obtain and pay for any additional permits, bonds, or fees as required to complete the Scope of Work under this agreement; any required re-inspection fees/costs are the responsibility of the Subcontractor.
- 35. Subcontractor to provide a copy of all completed and approved submittals to the Test and Balance Subcontractor.
- 36. The subcontractor is responsible for dewatering. Dewatering is considered all-natural grade water as well as "surface or rain water" for all excavations under this agreement. The dewatering duration is until all areas are backfilled under this agreement or backfilled by others. Dewatering includes all required pumps, sumps, stone, etc., for properly executing work under this agreement and for continually maintaining exposed soil conditions to access the work under this agreement.
- 37. All flushing, pressure testing, disinfection/bacteriological (chlorination) chemical flushing, certification tests, etc., under the direction of the Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction is included. The subcontractor shall dilute and properly dispose of heavily chlorinated water with the Owner's permission.
- 38. Subcontractor shall flush the building system upon completion of a new installation.
- 39. The Subcontractor is responsible for all chemical/flushing materials to flush the entire plumbing system.
- 40. The subcontractor is responsible for the chemical cost to treating water for flushing and the initial start-up of systems.
- 41. Provide Test & Balance Reports.
- 42. Subcontractor responsible for all gas lines and solenoids.
- 43. Subcontractor is responsible for obtaining any necessary City/County permits and scheduling inspections for all temporary/and permanent installations.
- 44. BIM coordination will occur for this project. See the section "**H. BIM COORDINATION SCOPE INCLUSIONS**" below.
- 45. The subcontractor is responsible for coordinating and providing a minimum of 48-hour notice prior to the shutdown of any system required to perform their work. All shutdowns and associated work must be conducted outside of normal working hours to minimize disruption to regular operations. Obtain necessary permissions and ensure all stakeholders are informed about the shutdown schedule. Clear and detailed communication must be maintained regarding the scope of work, the expected duration of the shutdown, and any potential impacts on other systems or operations. The subcontractor should prepare and share a contingency plan to handle any unexpected issues that may arise during the shutdown period. Ensure that backup systems or alternative arrangements are in place if required. Adhere to all safety regulations, guidelines, and protocols during the shutdown and subsequent work. Conduct a thorough inspection after the work is completed to ensure that the system is fully operational and there are no residual issues.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

H. BIM COORDINATION SCOPE INCLUSIONS:

Bim coordination scope inclusions outline the scope of work for Building Information Modeling (BIM) required for Mechanical, Electrical, Plumbing, and Fire Protection (MEPFP) trades. The objective is to ensure seamless coordination and integration of all MEPFP systems through the BIM process. All final approved drawings must be done on the same paper scale as the contract drawings.

1. Coordination Meetings
 - a. Weekly coordination meetings will be conducted. Each subcontractor must designate an MEPFP coordinator to attend these meetings.
2. Allowance
 - a. Each subcontractor is to provide an in-scope allowance of \$35,000. This allowance has been set aside to cover the costs associated with coordination activities and will facilitate collaboration between the MEPFP trades and the designated CM-supplied BIM Manager.
3. Collaboration with BIM Manager
 - a. Subcontractors are required to work directly with the CM-provided BIM manager. All routing and subcontractor preferences must be resolved outside of coordination meetings.
 - b. All drawings will be done by in 3D with Autodesk Revit or Navisworks Manager.
4. Clash Detection and Resolution
 - a. During weekly coordination meetings, clashes with all MEPFP contractors will be discussed and resolved.
5. Final As-Built Models
 - a. At the end of the BIM process, all final as-built models must accurately reflect all installed MEPFP systems. Any deviations from the BIM drawings requiring rework will be done at the expense of the subcontractor, not covered by the MEPFP allowance.
6. Preparation and Coordination Timeline
 - a. After the issuance of the "Letter of Intent," the subcontractor has 30 days to prepare for the BIM process and coordinate with the CM-supplied BIM coordinator.
 - b. The first BIM coordination meeting will begin 30 days after the "Letter of Intent" is issued.
7. Review and Approval of Coordination Drawings
 - a. 90 days after the issuance of the "Letter of Intent," the CM-supplied BIM Manager will issue coordination drawings for approval and review.
 - b. The subcontractor's BIM coordinator will review and approve all BIM model drawings within 15 days. After 15 days, the issued drawings will be considered

binding and used on-site. Any errors or changes required after this period will be made at the subcontractor's expense.

8. Completion of BIM Process

- a. The BIM process will be completed 105 days after the "Letter of Intent" is issued.
- b. Any delays caused by the subcontractor will result in a deductive change order for any additional costs incurred.
- c. At the end of the BIM Process this Subcontractor will have access to all MEFP Coordinated. Models and drawings will comply with project standards and guidelines, ensuring they meet the required level of detail and accuracy for construction.

BID PACKAGE #2300
HVAC
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **HVAC**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIREMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

Bid Package #: 2300

HVAC

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Initial Here _____

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 08 31 13 - ACCESS DOORS AND FRAMES
2. SECTION 08 91 00 – LOUVERS
3. SECTION 11 53 13 - LABORATORY FUME HOODS
4. DIVISION 23 - HVAC

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor shall be responsible for disconnecting, capping, and capturing refrigerant from all existing HVAC connections to the building designated for demolition, in compliance with environmental regulations and project specifications. Subcontractor will coordinate with demolition subcontractor to complete this work. (Addendum 2)
2. Unit Wiring
 - a. Subcontractor shall be responsible for all electrical and fire alarm wiring inside of HVAC units
 - b. The subcontractor shall bring electrical feeders factory installed wiring to the disconnect/junction box provided by the electrical subcontractor.
 - c. The electrical subcontractor will “make up” the wiring inside of the disconnect.
3. Provide and install all Louvers per the contract documents
 - a. This includes all Louvers including architectural Louvers with no ventilation purposes.
4. The subcontractor is responsible for the setting and grouting of all supply duct and cleanouts per contract documents.
5. The subcontractor shall provide Heating Water Supply and Return Piping throughout the building to specified units as called for in the contract drawings.
6. The subcontractor is responsible for obtaining all required City/County permits and scheduling inspections for all temporary/and permanent installations.
7. The subcontractor shall utilize gas or diesel operated welding machines. It is understood that welding will not be done using on-site temporary electrical power.
8. The subcontractor shall submit to the Construction Manager all welders’ certificates and crane inspection certifications ten (10) days prior to starting work. All certifications and inspections shall be current in accordance with OSHA and the Contract Documents.
9. The subcontractor shall furnish and install valve charts, labels, tags, pipe and duct identification, access panel ID, equipment ID, etc., per specifications as required.
10. Provide all ‘Extra Materials for Owner’ to the Construction Manager in unopened containers/packages forty-five (45) days after notice to proceed prior to beginning work. All attic stock shall be palletized and handed to the Construction Manager with a transmittal form for each item type. All attic stock items shall be delivered in one delivery. The subcontractor shall place materials in a location (or locations) determined by the Owner/Contractor.
11. All warranties start at the project's Beneficial Occupancy date. The subcontractor is responsible for all warranty costs.
12. Furnish and install temporary filter media on the return air grilles and exterior intake louvers during construction until Owner acceptance. These filters will be replaced bi-weekly or as directed by the Construction Manager.

13. The subcontractor shall flush and clean all building mechanical piping systems. Provide and maintain construction strainers in all pumps until Owner's acceptance of buildings.
14. The subcontractor is responsible for notifying the Construction Manager and governing agencies of all inspection requests.
15. The subcontractor is responsible for notifying the Construction Manager of all existing utility locations. The subcontractor shall verify the locations of all existing utilities within the construction areas prior to commencing work. Any damage to existing utilities during construction will be repaired at the expense of the Subcontractor that caused the damage.
16. The subcontractor shall layout all work under this agreement from the Construction Manager's provided horizontal and vertical control site monument points.
17. This subcontractor is responsible for all testing, certification tests, etc., under the direction of the Construction Manager, Owner, Engineer, Inspectors, and governmental authority(s) having jurisdiction.
18. Final cleaning of all Mechanical equipment, fixtures, piping and piping insulation is included in this Scope of Work.
19. **Final cleaning of all Mechanical duct system is included in this Scope of Work. (Addendum 2)**
20. All wall and floor slab penetrations must be properly core drilled and/or sleeved, collared, escutcheoned when exposed, grouted. Provide a neat, clean, tightly sealed product. The subcontractor is responsible for the layout, furnishing, and installation of all sleeving requirements under this agreement. Including Hollow core.
21. The subcontractor is responsible for cleaning up all core drill slurry from walls and slabs and removing and patching all core drill machine anchors.
22. The subcontractor is responsible for coordinating all mechanical installations that can not be core drilled and providing a complete mechanical system. There will be no cost or time considerations given for adjustments of equipment or pipe runs due to conflicts arising from lack of coordination with adjacent other existing MEP installations, building structure or other Subcontractors. The first installed does not constitute grounds for a change order for re-installations due to uncoordinated work.
23. Subcontractors shall layout and install all required sleeves within elements of the structure to install the Subcontractor's work. The subcontractor shall seal, pack, fire-safe, water-safe, weather-caulk, aesthetic caulk, etc. all its sleeves/penetrations as required by the Contract Documents and to maintain the required ratings. Formed openings in masonry, concrete walls, and penetrations through hollow core planks are included herein.
24. The subcontractor shall furnish and install all required supports for this work, including, but not limited to, anchor bolts, hangers, isolators, channels, angles, and end embeds. All items shall be hot dipped galvanized finish, unless noted otherwise in the Contract Documents.
25. Should additional support be required to distribute loads over more than one structural element per industry standards, shall be included. All items hanging from steel trusses shall be hung within design requirements. No point loading or overloading of truss system is permitted. Floor stands are included if existing structural elements will not support loads.

26. This subcontractor is to furnish and install all keyed access panels and covers specified or shown on the Contract Documents or required by the work. This Subcontractor is responsible for coordinating the locations and sizes of required framed openings with respective trades during the construction of walls, ceilings, and floors. All access panels shall be "keyed type."
27. The subcontractor shall allow walls to be primed and finish painted prior to installation of surface mounted piping and setting of equipment. Subcontractor understands that existing wall and ceiling paints are to remain, and this Subcontractor will be responsible for repaint costs if damages occur installing work under this agreement.
28. The subcontractor understands that the ceiling grid is to be protected by this Subcontractor, and this Subcontractor shall be responsible for the costs to make any repairs or portion thereof of unidentifiable damage caused jointly with other MEP trades.
29. Subcontractor understands all building finishes are to be protected by this Subcontractor to perform work under this agreement. The subcontractor is responsible for protecting surrounding substrates and finishes from the work of this scope, especially windows, window blinds, existing MEP installations, flooring, doors, frames, paint, new MEP installations proceeding completion of work under this agreement, etc.
30. This subcontractor has reviewed the drawings and specifications for this project. Subcontractor has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestone and completion dates without claims for delay or impact costs, unless substantial Owner directed Scope changes occur.
31. All maintenance manuals and owner training requirements shall be completed forty-five (45) days prior to schedule project completion date or earlier if noted elsewhere in Contract Documents.
32. Provide all **extra materials** and **maintenance tools** for the Owner to the Construction Manager in unopened containers/packages prior to beginning work. All items shall be handed to the Construction Manager along with a transmittal form for each item type. Materials will be delivered and distributed to a location on campus as determined by the Owner.
33. The subcontractor agrees to work with all trades to coordinate all rough-ins.
34. Provide new filters at date of project substantial completion (other than attic stock requirement).
35. Subcontractor agrees to coordinate work with Electrician for equipment requiring disconnects boxes, starters, VFD's, etc. and energizing of equipment.
36. The subcontractor is responsible for protecting all duct installed and on-site stock. Cover all materials with plastic and applying plastic to protect open ends of duct. All duct shall have plastic wrap on the ends upon arrival to the site.
37. Supply and installation of chemical storage cabinets and other accessories, as shown and specified, are included.
38. The subcontractor is responsible for obtaining any necessary City or county permits and scheduling inspections for all temporary and permanent installations.
39. The subcontractor is responsible for dewatering. Dewatering is considered all-natural grade water as well as "surface or rain water" for all excavations under this agreement. Dewatering duration is for such a period until all areas are backfilled under this agreement, or backfilled by

others. Dewatering includes all required pumps, sumps, stone, etc. for proper execution of work under this agreement and for the continual maintenance of exposed soil conditions to access the work under this agreement.

- 40. BIM coordination will occur for this project. See the section “**H. BIM COORDINATION SCOPE INCLUSIONS**” below.
- 41. The subcontractor is responsible for coordinating and providing a minimum of 48-hour notice prior to the shutdown of any system required to perform their work. All shutdowns and associated work must be conducted outside of normal working hours to minimize disruption to regular operations. Obtain necessary permissions and ensure all stakeholders are informed about the shutdown schedule. Clear and detailed communication must be maintained regarding the scope of work, the expected duration of the shutdown, and any potential impacts on other systems or operations. The subcontractor should prepare and share a contingency plan to handle any unexpected issues that may arise during the shutdown period. Ensure that backup systems or alternative arrangements are in place if required. Adhere to all safety regulations, guidelines, and protocols during the shutdown and subsequent work. Conduct a thorough inspection after the work is completed to ensure that the system is fully operational and there are no residual issues.
- 42. The subcontractor shall furnish and install the kitchen hood, exhaust fans, make-up air units, and all other necessary equipment to provide a fully functioning “hood system,” including final testing & balancing and acceptance of the hood system. Coordinate with Electrical and Fire Suppression Contractors throughout the process. (Addendum 2)
- 43. This subcontractor is responsible for All Mechanical systems within the perimeter of the building required to complete a functional Geothermal system. Coordination between these trades is required. (Addendum 2)
- 44. This subcontractor will complete the final connections. (Addendum 2)

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

H. BIM COORDINATION SCOPE INCLUSIONS:

Bim coordination scope inclusions outline the scope of work for Building Information Modeling (BIM) required for Mechanical, Electrical, Plumbing, and Fire Protection (MEPFP) trades. The objective is to ensure seamless coordination and integration of all MEPFP systems through the BIM process. All final approved drawings must be done on the same paper scale as the contract drawings.

- 1. Coordination Meetings
 - a. Weekly coordination meetings will be conducted. Each subcontractor must designate an MEPFP coordinator to attend these meetings.
- 2. Allowance

- a. Each subcontractor is to provide an in-scope allowance of \$35,000. This allowance has been set aside to cover the costs associated with coordination activities and will facilitate collaboration between the MEPFP trades and the designated CM-supplied BIM Manager.
- 3. Collaboration with BIM Manager
 - a. Subcontractors are required to work directly with the CM-provided BIM manager. All routing and subcontractor preferences must be resolved outside of coordination meetings.
 - b. All drawings will be done by in 3D with Autodesk Revit or Navisworks Manager.
- 4. Clash Detection and Resolution
 - a. During weekly coordination meetings, clashes with all MEPFP contractors will be discussed and resolved.
- 5. Final As-Built Models
 - a. At the end of the BIM process, all final as-built models must accurately reflect all installed MEPFP systems. Any deviations from the BIM drawings requiring rework will be done at the expense of the subcontractor, not covered by the MEPFP allowance.
- 6. Preparation and Coordination Timeline
 - a. After the issuance of the "Letter of Intent," the subcontractor has 30 days to prepare for the BIM process and coordinate with the CM-supplied BIM coordinator.
 - b. The first BIM coordination meeting will begin 30 days after the "Letter of Intent" is issued.
- 7. Review and Approval of Coordination Drawings
 - a. 90 days after the issuance of the "Letter of Intent," the CM-supplied BIM Manager will issue coordination drawings for approval and review.
 - b. The subcontractor's BIM coordinator will review and approve all BIM model drawings within 15 days. After 15 days, the issued drawings will be considered binding and used on-site. Any errors or changes required after this period will be made at the subcontractor's expense.
- 8. Completion of BIM Process
 - a. The BIM process will be completed 105 days after the "Letter of Intent" is issued.
 - b. Any delays caused by the subcontractor will result in a deductive change order for any additional costs incurred.
 - c. At the end of the BIM Process this Subcontractor will have access to all MEFP Coordinated. Models and drawings will comply with project standards and guidelines, ensuring they meet the required level of detail and accuracy for construction.

**BID PACKAGE #2351
GEOTHERMAL
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **GEOTHERMAL**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

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Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

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schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

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27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.

37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.
38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
- a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)

- 41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.
 - a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

- 42. Please see the table below for all required meetings.
 - a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 23 21 13 - HYDRONIC PIPING
2. SECTION 23 21 13.33 - GROUND-LOOP HEAT-PUMP PIPING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

Bid Package #: 2351

GEOHERMAL

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1. Geothermal wells
2. Vertical drilling, vertical piping and grouting. No rock is expected to be encountered during the installation.
3. Temporary casings to support unstable soils.
4. Geothermal vault with service access, sump pump/pit, etc. per details in construction documents
5. No piping in the design exceeds 4”.
6. Pressure testing of pipe before backfilling to a minimum of 80 PSI for 24hrs and to be signed off on by the Construction Manager prior to backfilling.
7. Iron surveyor’s rod at each borehole. Provide the Construction Manager & Project manager with a to-scale drawing with the location of each well as well as GS/GR piping for each circuit.
8. Sand bedding and warning tape at all underground piping. Backfill with suitable soils to 95% compaction.
9. Erosion control for this project's scope, including protection of new catch basins affected by this work. The subcontractor monitors and tests run-off water before reaching the adjacent stream. The subcontractor is solely responsible for any damages to the site resulting from his operation. Subcontractor places spoils in a central location.
10. NC Well Driller Certification, including appropriate “H” License for pipe installation and observation personnel required by agencies, to be obtained and included with submittals and reports.
11. Obtain DENR and any other governing authority regulating operations approval prior to the start of work
12. The system's scope terminates inside the new addition at a point 1’ above the finished floor with a flange connection. The subcontractor is responsible for scheduling and coordinating his scope with the contractor and the contractor’s foundation subcontractor.
13. Subcontractor to provide at least 2 drill rigs; additional rigs to expedite schedule if/when allowed by DENR or as schedule requires.
14. Provide water trucks as a source of water for drilling if the well is not available.
15. Antifreeze solution per spec.
16. Layout of this scope of work. Provide an as-built survey at completion.
17. Tracer wire for horizontal piping
18. Average borehole depth of 300’ with layout as shown in the construction documents.
19. All excavation and backfill for this scope of work.
20. Shop drawing submittal, including product data, loop pressure tests, certificates, etc.
21. Protection of existing utility structures

- 22. Clean and disinfect water distribution piping following procedures of the manufacturer and authority having jurisdiction.
- 23. Lifting and hoisting required for the performance of this Subcontractor's work is the responsibility of this Subcontractor.
- 24. Site clean-up shall be done daily by the Subcontractor's own field forces.
- 25. Coordinate material deliveries with the Construction Manager.
- 26. Perform all work in accordance with the job progress schedule. The subcontractor will average one hole per day per drilling rig at a minimum.
- 27. This subcontractor is responsible for All Mechanical systems outside the perimeter of the building required to complete a functional Geothermal system. Coordination between these trades is required. (Addendum 2)

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

- 1. NONE

BID PACKAGE #2600
ELECTRICAL, COMMUNICATION, FIRE & SMOKE PROTECTION
(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **ELECTRICAL, COMMUNICATION, FIRE & SMOKE PROTECTION**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor’s responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction’s Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor’s responsibility to the Contract Documents is not relieved by the Architect or Construction Manager’s review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

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ELECTRICAL, COMMUNICATION, FIRE & SMOKE PROTECTION

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progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. **Division 26 – Electrical**
2. **Division 27 – Communications**
3. **Division 28 – Electronic Safety and Security**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor shall be responsible for disconnecting and terminating all existing electrical connections to the building slated for demolition, ensuring safe and complete isolation of power sources as per project specifications and safety regulations. This subcontractor shall coordinate with the demolition subcontractor and site subcontractor to complete this work. (Addendum 2)
2. Furnish, install, maintain, and remove the following *temporary utilities*:
 - a. Subcontractor shall furnish, install, maintain, and remove (upon project completion) all Electrical / Telecom / Cable Internet service (including connections) to the Construction Manager's office trailer complex and 2 temporary site camera systems, including 2 telephone poles. Power will need to be provided for the site camera system.
 - b. Subcontractor shall furnish, install, maintain, and remove (upon project completion) all required conduit, conductors, meter cans, disconnects, breakers, panels, subpanels, etc., for temporary power service. Temporary electrical service shall be capable of supplying adequate power for all construction activities with the main panel to be in the front of the building and five (5) sub-panels in the building to be located as directed by the Construction Manager. Additionally, provide two (2) 220v, 50-amp circuits with circuit breakers in locations outside the building as directed by the Construction Manager for masonry equipment.
 - c. Subcontractor shall furnish, install, maintain, and remove (upon project completion) a temporary lighting system. Temporary lighting shall be LED only equal to or greater than 5 ft/candles at any position on the floor and at any elevation above the finish floor to the underside of the structure without consideration for natural lighting through door/window openings. All rooms, corridors, closets, attic areas, etc., which have work to be performed shall be included as requiring temporary lighting. Maintenance and replacement of all bulbs are included.
 - d. Subcontractor agrees to utilize a permanent lighting system for temporary construction lighting at each area upon activation of the permanent system and prior to the beginning of finish trades to allow finishes to be performed under permanent light conditions. Light fixtures shall be plastic-covered to prevent soiling of lenses, etc. The subcontractor is responsible for re-lamping permanent fixtures in accordance with Contract Documents for the Construction Manager's utilization of permanent lighting during finishing operations.
3. All conduits, raceways and pull strings for work by others as shown on the drawings is include in this scope of work.
4. All Exterior Lighting and all Exterior Athletic Lighting is include in this scope of work.
5. The subcontractor is responsible for obtaining any necessary City/County permits and scheduling inspections for all temporary/and permanent installations and ensuring notification of the power company for installation of meters. Obtaining the abovementioned should be done in a timely manner without causing delays to the schedule.

4. The subcontractor is to furnish and install all HVAC, Theatrical lighting, Plumbing, Fire suppression, etc., disconnects, and service conductors/conduits.
5. The subcontractor is responsible for all seismic supports for this scope of work.
6. The subcontractor shall furnish, install, maintain, and remove (upon project completion) a temporary Mesh Wi-fi network for the entire site. Wi-fi network speed should be of a minimum of 1GBps. Access to the password-protected Wi-Fi network will be granted only to superintendents and project managers in all trades.
7. If there are any price differences associated with the lead time of this equipment, this vendor shall disclose this information.
8. All electrical equipment shall include a coordination study.
9. All required Load Bank Testing, certifications, or any other specified test listed on the drawings and specs shall be covered in pricing.
10. All wall and floor slab penetrations must be properly core drilled and/or sleeved, collared, escutcheoned when exposed, grouted. Provide a neat, clean, tightly sealed product. The subcontractor is responsible for the layout, furnishing, and installation of all sleeving requirements under this agreement. Including Hollow core.
11. The subcontractor is responsible for cleaning up all core drill slurry from walls and slabs and removing and patching all core drill machine anchors.
12. The subcontractor is responsible for coordinating all mechanical installations that can not be core drilled and providing a complete mechanical system. There will be no cost or time considerations given for adjustments of equipment or pipe runs due to conflicts arising from a lack of coordination with adjacent other existing MEP installations, building structure, or other Subcontractors. The first installation does not constitute grounds for a change order for re-installations due to uncoordinated work.
13. Recessed floor boxes must be coordinated with the substrate contractor.
14. Subcontractors shall layout and install all required sleeves within elements of the structure to install the Subcontractor's work. Subcontractor shall seal, pack, fire safe, water seal, weather caulk, aesthetic caulk, etc. all its sleeves/penetrations as required by the Contract Documents and as to maintain required ratings. Formed openings in masonry, concrete walls, and penetrations through hollow core planks are included herein
15. BIM coordination will occur for this project. See the section "**H. BIM COORDINATION SCOPE INCLUSIONS**" below.
16. The subcontractor is responsible for coordinating and providing a minimum of 48-hour notice prior to the shutdown of any system required to perform their work. All shutdowns and associated work must be conducted outside of normal working hours to minimize disruption to regular operations. Obtain necessary permissions and ensure all stakeholders are informed about the shutdown schedule. Clear and detailed communication must be maintained regarding the scope of work, the expected duration of the shutdown, and any potential impacts on other systems or operations. The subcontractor should prepare and share a contingency plan to handle any unexpected issues that may arise during the shutdown period. Ensure that backup systems or

alternative arrangements are in place if required. Adhere to all safety regulations, guidelines, and protocols during the shutdown and subsequent work. Conduct a thorough inspection after the work is completed to ensure that the system is fully operational and there are no residual issues.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

H. BIM COORDINATION SCOPE INCLUSIONS:

Bim coordination scope inclusions outline the scope of work for Building Information Modeling (BIM) required for Mechanical, Electrical, Plumbing, and Fire Protection (MEPFP) trades. The objective is to ensure seamless coordination and integration of all MEPFP systems through the BIM process. All final approved drawings must be done on the same paper scale as the contract drawings.

1. Coordination Meetings
 - a. Weekly coordination meetings will be conducted. Each subcontractor must designate an MEPFP coordinator to attend these meetings.
2. Allowance
 - a. Each subcontractor is to provide an in-scope allowance of \$35,000. This allowance has been set aside to cover the costs associated with coordination activities and will facilitate collaboration between the MEPFP trades and the designated CM-supplied BIM Manager.
3. Collaboration with BIM Manager
 - a. Subcontractors are required to work directly with the CM-provided BIM manager. All routing and subcontractor preferences must be resolved outside of coordination meetings.
 - b. All drawings will be done by in 3D with Autodesk Revit or Navisworks Manager.
4. Clash Detection and Resolution
 - a. During weekly coordination meetings, clashes with all MEPFP contractors will be discussed and resolved.
5. Final As-Built Models
 - a. At the end of the BIM process, all final as-built models must accurately reflect all installed MEPFP systems. Any deviations from the BIM drawings requiring rework will be done at the expense of the subcontractor, not covered by the MEPFP allowance.
6. Preparation and Coordination Timeline
 - a. After the issuance of the "Letter of Intent," the subcontractor has 30 days to prepare for the BIM process and coordinate with the CM-supplied BIM coordinator.
 - b. The first BIM coordination meeting will begin 30 days after the "Letter of Intent" is issued.

7. Review and Approval of Coordination Drawings
 - a. 90 days after the issuance of the "Letter of Intent," the CM-supplied BIM Manager will issue coordination drawings for approval and review.
 - b. The subcontractor's BIM coordinator will review and approve all BIM model drawings within 15 days. After 15 days, the issued drawings will be considered binding and used on-site. Any errors or changes required after this period will be made at the subcontractor's expense.

8. Completion of BIM Process
 - a. The BIM process will be completed 105 days after the "Letter of Intent" is issued.
 - b. Any delays caused by the subcontractor will result in a deductive change order for any additional costs incurred.
 - c. At the end of the BIM Process this Subcontractor will have access to all MEFP Coordinated. Models and drawings will comply with project standards and guidelines, ensuring they meet the required level of detail and accuracy for construction.

**BID PACKAGE #3165
DEEP FOUNDATIONS
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **DEEP FOUNDATIONS**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
 - b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
 - c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.
42. Please see the table below for all required meetings.
- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
 - b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
 - c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 31 66 13 - GROUND IMPROVEMENT BY RAMMED AGGREGATE PIERS OR STONE COLUMNS

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. This subcontractor shall provide labor, materials and equipment to furnish and install all Aggregate Piers.

2. Protect all existing facilities/or structures during installation, removals and clean-up.
3. If penetration of dense soil is encountered, predrilling may be required at no additional cost to the Construction Manager or Owner.
4. In situations where bad soils are excavated (i.e. gumbo), this subcontractor shall be responsible for removing the unsuitable soils from the site. All additional undercut and unsuitable soil replacements must be approved by the owner or the Owner, Architect and CM. This is an “UNCLASSIFIED” site.
5. This subcontractor is responsible for ensuring all quality control inspection requirements outlined in the Contract Documents are adhered to through the Project. Subcontractor shall notify Construction Manager, Architect and all inspection agencies with 48 hours written notice for all quality control inspections.
6. This subcontractor is to provide **\$30,000** for additional deep foundations that may be needed for the fire tank. All savings will be deducted as a change order back to the Construction Manager at the end of the project.
7. Daily reports shall provide actual daily pile installation quantities and a listing of the total quantity of pier installations to provide a percent complete on a per-area basis.
8. This subcontractor has reviewed the Drawings and Specifications for this Project, found no obvious omissions, and further agrees that the Work of this Agreement and Project can be constructed within the milestone and completion dates without claims for delay or impact cost unless substantial owner-directed Scope changes occur.
9. This subcontractor shall be responsible for all design, engineering calculations and submittals based on contract documents in their entirety.
10. This subcontractor shall be responsible for dewatering and protecting open areas, piers, etc.
11. This subcontractor is responsible for coordinating with all surrounding trades.
12. This subcontractor is responsible for surveying and layout of all aggregate piers.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None.

BID PACKAGE #3231

FENCE & GATES

(SCOPE OF WORK)

The Scope of Work shall include the furnishing of a complete **FENCE & GATES**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

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2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
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6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
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15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
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22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
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30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
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 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Forman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. SECTION 32 31 13 CHAIN LINK FENCES AND GATES- Temporary

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Furnishing, installing, and maintaining fencing and gates per the site logistics plan. This subcontractor is responsible for field verifying the location and the linear feet of the site fencing.
2. This subcontractor shall be responsible for installing and maintaining windscreens (provided by the General Contractor) on the entire fence for the duration of the project.
3. All posts shall be post-driven.
4. Subcontractor shall furnish three (3) gates with wheels: two (2) gate panels per entry with a total span of twenty four feet (24'). This Subcontractor will also furnish and install personnel gates: two (2) four feet (4'), and two (2) ten feet (10'). Locations of gates can be found in the Logistics Plan.
5. This subcontractor shall locate all existing utilities prior to starting work. If any utilities conflict with the path/rout of the site fencing, this subcontractor shall notify the Construction Manager within 24hrs.
6. This subcontractor will be responsible for all hoisting, hauling, loading, unloading, transporting/handling all material in and around the site, etc.
7. This subcontractor shall coordinate all delivery with the Construction Manager along with adhering and complying with the "Construction Traffic Restrictions" within the contract documents.
8. All fencing and windscreen shall be removed at the Construction Manager's request and shall be the responsibility of this subcontractor.
9. This subcontractor shall be responsible for multiple mobilizations at no additional cost to the Construction Manager nor the Owner.
10. The construction fence and gates shall be 8ft tall.
11. All fencing components i.e., post, gates, wheels, chain link fence, etc. shall be new.
12. The construction fence shall have top and bottom rails.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. Windscreen provided by Construction Manager.

**BID PACKAGE #3290
LANDSCAPING
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **LANDSCAPING**. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. SECTION 32 90 00 - LANDSCAPING
- 2. SECTION 32 91 19 - LANDSCAPE GRADING

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. Furnishing, installing, and maintaining of all trees, shrubs, grasses/perennials, etc. per Plant list, specifications, etc. The subcontractor has included all planting types and quantities indicated on the Planting Schedule as well as confirming quantities required on contract documents.
2. Pruning of all trees, shrubs, etc. is included as allowed by specifications and Architect's approval.
3. Staking, guying, wrapping, etc. of trees and as specified are included. Removal of staking is included at Owner and Architect's direction as specified.
4. All plants and trees shall be free from disease and insects.
5. All required plant mix, sub-grade preparation, fertilizing, insecticides, herbicides, weed control barriers, etc., are included.
6. All planting shall be delivered to site in size and caliper specified.
7. The subcontractor shall layout and pre-stake all work under this agreement for the Architect's approval. The subcontractor shall contact the Construction Manager for a pre-installation conference with the Architect prior to installing planting to confirm layout, spacing, configurations, etc.
8. Cleaning of surrounding roads, sidewalks, storm inlets and structures, and parking areas are included if soiled by Subcontractor with work under this agreement.
9. All tree and plant labeling are included.
10. Furnishing, installing, and maintaining all ground cover, mulching, edging etc. per quantities and locations indicated on Contract Drawings.
11. Provide, install and remove any and all temporary irrigation systems required to establish Landscaping and maintain through the warranty period.
12. The subcontractor shall provide all specified maintenance, warranties, and replacement of noncompliance work under this agreement.
13. Protect trees listed on the plans throughout the project by providing, installing, and maintaining tree protection fencing.
14. Include a ten-thousand-dollar (\$10,000) allowance, separate from items included in this scope, to be used by the Construction Manager at his discretion for additional seeding, mulching, etc. All savings will be deducted as a change order back to the Construction Manager at the end of the project.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. NONE

**BID PACKAGE #4814
PHOTOVOLTAIC
(SCOPE OF WORK)**

The Scope of Work shall include the furnishing of a complete **PHOTOVOLTAIC** system. This shall include, but is not limited to all required: labor, fabrication, engineering, submittals, shop drawings, materials, equipment, tools, supervision, hoisting, scaffolding, and transportation as required for a complete scope of work.

DESCRIPTION OF SCOPE INCLUSIONS

The following is a non-exhaustive list of inclusions and is not intended to limit the work in any way.

A. CONTRACT DOCUMENTS:

All work shall be performed in accordance with Contract Documents.

- All plans and specifications
- All scope of work requirements
- All contract requirements

B. BONDING REQUIRMENTS:

Each bidder quoting a sum greater than **\$100,000** shall have a 10% Bid Bond accompanying their bid as well as a Payment and Performance Bond included in their price. Additionally, all Bonds required shall be furnished per the Subcontract Agreement provided in the Bid Manual. **(Addendum 2)**

C. SUBMITTAL REQUIREMENTS:

Collaborative File Sharing - Subcontractor shall be responsible for the uploading of all required submittals to a file sharing program (Procore). Notifications will be sent when submittals are reviewed. It is the subcontractor's responsibility to track the approval process and proceed as directed in the submittal by the due date stated in Procore.

Samples – Descriptions of samples shall be uploaded to the site for record purposes. “Hard” samples are still required per the plans/specifications.

At the time of submittals Subcontractor shall clearly identify to the Construction's Manager and Architect's attention, **any deviations from the Contract Documents**. This Subcontractor's responsibility to the Contract Documents is not relieved by the Architect or Construction Manager's review unless there is **written acceptance of the specific deviations**. Subcontractor is responsible for submitting and expediting approval of any submittal requirements through a jurisdictional agency, if applicable.

Subcontractor is to deliver all required Reports and bid documents to Construction Manager within 14 calendar days from date of Notice of Award. NO payment shall be made to subcontractor without all subcontractors' documents submitted. Provide signed and sealed engineered shop drawings as specified by a licensed and registered Engineer.

Any required re-submittals, record submittals, and/or field drawings shall be forwarded to Construction Manager within seven (7) days of initial submittal return to Subcontractor. **Failure of this Subcontractor to submit correct or timely submittals does not relieve said Subcontractor of material delivery obligations in accordance with the Project Schedule.** Subcontractor shall allow a minimum of twenty-eight (28) calendar days of Construction Manager -Architect review duration. No material substitutions will be approved by Construction Manager unless Subcontractor can obtain Owner-Architect approval for such substitutions at no additional cost to Construction Manager and without delaying project schedule.

D. STANDARD SCOPE INCLUSIONS:

The items listed below are specifically included and are for clarification purposes only. They shall not be construed as a complete list of all work. It is the intent of this to clarify subcontract issues. If conflicts are discovered between this and the Subcontract General Terms, then the Subcontract General Terms shall govern.

1. Provide a full-time, competent, and English-speaking Superintendent onsite at all times while this subcontractor's work is being performed to coordinate the work of this project. The competent person on site must be OSHA 30 certified. Failure to provide a competent person on site will result in the CM not allowing the subcontractor to work on site.
2. Metcon intends to use GCPay which is a third party pay application service that simplifies the application for payment processes between Metcon and our subcontractors by automating the payment application process. At no cost to our subcontractors, GCPay provides an automated information exchange for lien waivers and all compliance documents. This platform saves time and improves subcontractor communication by keeping them informed throughout the process of potential issues needing immediate attention.
3. The subcontractor has reviewed specification SECTION 01 22 00 – UNIT PRICES. All required unit pricing for this scope of work has been acknowledged and included in the bid form.
4. The subcontractor has reviewed specification SECTION 01 23 00 – ALTERNATES. All required pricing for alternates for this scope of work has been acknowledged and included in the bid form. If alternates are selected, they are selected in their entirety. All documents have been fully evaluated for alternative work.
5. As required, the subcontractor shall design, provide, and engineer crane subsurface/pads in accordance with project specifications and load requirements. The subcontractor shall ensure that all crane operations are structurally sound at no additional cost to the CM.

6. Verify all substrate conditions and notify the Construction Manager twenty-one (21) days prior to the start of work of any deficiencies in substrate prohibiting the start of work under this agreement.
7. All subcontractor employees must have access to a tablet with Procore access for use on this project. This tablet shall be an iPad Pro generation 3 or newer with cellular connectivity or comparable in specs and capabilities.
8. This subcontractor will not use or allow the building's drainage systems to clean debris or dispose of waste materials. If any drainage systems are clogged or obstructed by this subcontractor's materials, this subcontractor will reimburse the Contractor for the repair cost plus a mark-up.
9. This subcontractor is responsible for requesting any additional information, instructions and/or clarifications required to complete the work. The subcontractor will request such information from the Design team in writing as a Request for information (RFI) through the file-sharing program Procore. Requests for such information shall be made in advance to avoid any delay in the work.
10. This subcontractor is responsible for receiving, unloading, inventorying, storing, and coordinating this subcontractor's work. **All deliveries, hoisting, and storage of materials will be coordinated and scheduled with CM. Any deliveries not scheduled will not be allowed on site.** Material and equipment deliveries must be coordinated "just in time." Material and equipment storage on site must not exceed five (5) workdays. Once materials and/or equipment are moved inside the building, it must be installed within five (5) workdays. This subcontractor must utilize its own equipment to unload material.
11. This subcontractor is responsible for its own traffic control/flag man for any hauling operation in or out of the project site. All traffic control personnel shall be NCDOT certified. Reference the Logistics Plan indicating the crossing and use of active public roadways.
12. This subcontractor is responsible for erecting its own scaffolding, working platforms, material handling, storage, lifting & hoisting as required to perform the work under this scope.
13. This subcontractor is responsible for maintaining streets and parking lots in clean condition for their scope of work. Others will provide a wheel wash station near the site exit gate.
14. This subcontractor is responsible for all temporary safety measures to meet OSHA and Metcon's safety standards pertaining to your scope of work. See Exhibit J for more details.
15. The subcontractor has reviewed all drawings, documents, appendices, and specifications for this project and has found no obvious omissions and further agrees that the work of this agreement and the project can be constructed within the milestones and completion dates agreed upon without claims for delays or costs implications unless substantial Owner directed Scope changes occur.
16. Within **10** days of receipt of the contract, this subcontractor is required to issue a manpower count for each section/activity of their scope of work to meet the schedule requirements. Metcon will review and approve the proposed manpower counts before commencing this work. Metcon, Owner, Architect, & Consultants will constantly track the manpower for each activity to ensure compliance with the schedule and the forecasted status of the project, which will measure performance. If the subcontractor has low productivity/performance, resulting in

schedule delays, this subcontractor will increase its manpower at Metcon's, Owner's, and/or Architect's request. Pay applications may be delayed until compliance has been satisfied.

17. In the event of inclement weather, this subcontractor is responsible for securing and protecting all their materials and work in place.
18. This subcontractor shall conduct pursuant to N.C. Gen. Stat. § 115C-332.1, an annual check of each of its employees, and contractual employees, consultants, agents, and other representatives on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and the National Sex Offender Registry if such employee, subcontractor, agent, or other representative will be on the Project site or other school property as part of his or her job. The CM shall conduct this check on each of its employees, consultants, agents, and other representatives prior to permitting such employee, consultant, agent or other representative to enter the Project site or other school property to perform work under this agreement. For the Construction Manager's convenience only, all the required registry checks may be completed at no cost by accessing the United States Department of Justice Sex Offender Public Registry at <http://www.nsopw.gov>. No person shall be permitted to enter the Project site or other school property to perform work under this agreement if that person is listed on the State Sex Offender and Public Protection Registration Program, the State Sexually Violent Predator Registration Program, and/or the National Sex Offender Registry.
19. This subcontractor must thoroughly examine all drawings to recognize and include elements within their area of responsibility. This subcontractor is required to review all project drawings and specs. This subcontractor will have an opportunity to ask questions about design intent before bidding; after the bid and award of the package, the subcontractor will utilize the most stringent design. The design utilized shall be in the best interest of the Owner.
20. Parking at and around the site will be limited. Please see the Logistics plan for more information.
21. The subcontractor shall only remove temporary construction fences, safety control devices, or sediment control devices with advanced approval from the construction manager. In the event that removal is required, the subcontractor shall reinstall it in the same condition or better.
22. This subcontractor will abide by local noise ordinances as required.
23. A weekly job site cleanup will occur. Each subcontractor must contribute one laborer per five onsite workers for four (4) hours, to be used at the Construction Manager's discretion.
24. All non-compliance items or punch lists brought to the subcontractor's attention in Procore must be corrected and "ready for review" within 5 working days of initiation by the Construction Manager.
25. All subcontractors will adhere to a work week consisting of five (5) days per week, ten (10) hour days, fifty-two (52) weeks per year, with standardized starting and quitting timed 7 am to 5:30 pm regardless of external influences (such as driving distance, subcontractor's company policies, or personal preference.) No subcontractor will be allowed to work a four (4) day work week.
26. Under no circumstances is the subcontractor permitted to work without a construction manager's representative on site.

27. Protection of work in place: This subcontractor shall provide and maintain protection of all adjacent property and other subcontractor's work, materials, tools, and equipment from damage resulting from this subcontractor's activities. This subcontractor is responsible for the cost of repairing or replacing any items damaged by its employees, its lower-tier subcontractors, or its suppliers, including damage caused during stocking or hoisting.
28. In addition to any Owner site requirements, eating and drinking shall be prohibited within the building or as otherwise determined by the Construction Manager. Subcontractor violators will be removed from the project site. Smoking or other tobacco products will not be allowed on site. Anyone violating this policy will be removed from the site permanently.
29. No visitors shall be admitted to the job site by the subcontractor without first obtaining the approval of the Construction Manager and having completed the site-specific job site orientation. This subcontractor will confirm and/or provide all their visitors with the site-required personal protection equipment.
30. No photographs or videos (including drone videos) of the project may be taken without the construction manager's and owner's prior approval. All persons approved to take photographs/videos must attend training and will be provided with credentials.
31. All schedules of values shall be uploaded to GC Pay within ten (10) days of the letter of intent being awarded. All subcontractors' SOVs shall include the following standard items: mobilization, submittals, weekly composite cleanup, punch list, and project closeout. The schedule of values approval by the construction manager shall be followed before this subcontractor's first pay application. The construction manager requires a minimum of twenty (20) days to review the schedule of values.
32. Attached to the Bid manual is a sample of Metcon's standard contract. This subcontractor is required to review and accept it in its entirety.
33. Weekend work might be necessary to meet the project schedule, which must be coordinated with the Construction Manager if required. The construction manager will not allow weekend work if the subcontractors are not already working the full number of job site hours with full crews. This means that if you are working less than Monday through Friday, 7 am -5:30 pm, the site will not be open on the weekend unless excusable inclement weather determined by the CM occurs during the week. There will be no issue with opening the site as much as necessary to facilitate subcontractors who are trying to meet the scheduled responsibilities by working the total amount of open hours.
34. Include all necessary mobilizations required to complete this scope of work.
35. The construction manager reserves the right to add a fifteen (15) percent mark-up to all back charges that the construction manager facilitates. If back charges are resolved without the involvement of the Construction Manager, no mark-up will be applied.
36. Time and Material tickets must be approved by the Construction Manager's superintendent within 24 hours of work commencing. Invoices associated with time and material tickets must be submitted to the Construction Manager's Project Manager within thirty (30) days of work commencing. All invoices must reference a "CE number" assigned by the CM. Invoices not referencing a "CE number" will be returned and not processed.
37. Pull planning will be implemented on this project. The weekly "Plan Percent Complete Report" will be sent to the subcontractor's representative to provide tangible value to the subcontractor's

progress. The subcontractor is required to use the pull planning process to identify all constraints that may impede their progress. Constraints not identified and documented within a reasonable time for rectification will not be considered valid reasons for schedule adjustments. The subcontractor is expected to follow the Pull Plan Schedule, which should enhance and supersede the contract schedule.

38. All required site safety documentation must be submitted in Procore 30 days after issuing the letter of intent. This is to include the following:
 - a. Executed the partnership form for the subcontractor safety and health incident prevention program.
 - b. Subcontractors' specific site job hazard analysis (JHA), detailing your scope of work, the hazards associated with each task, and how they will be abated.
 - c. Trades whose work scope includes steel erection, pre-cast, demo, and roofing shall provide a written site safety plan.
 - d. Provide OSHA 300 & 300A logs for the last three years.
 - e. A written hazard communication program safety data sheet (SDS)
 - f. A written safety plan for the revised silica dust respiratory plan (if applicable) is needed.
 - g. A written ground fault protection program.
 - h. Exhibit J3 returned with pages initialed.
 - i. All site-specific personnel documentation will be required to be submitted two weeks before this scope of work begins.
 - j. Failure to comply with this documentation will result in a delayed start in this subcontractor's mobilization. This may include withholding mobilization costs in pay applications until this subcontractor complies. No additional cost or time will be considered due to any acceleration required. (Addendum 2)
39. Survey points will be provided for general locational purposes. These will not be given in every single room. To complete this work scope, each subcontractor must transfer the general area survey points accurately as needed. The location of these general survey points is at the discretion of the Construction Manager. (Addendum 2)
40. The construction manager has the authority to recommend withholding pay applications from any subcontractor due to poor work quality. If this situation arises, the subcontractor will be notified in writing (72 hours' notice) that their work quality is unsatisfactory and requires remediation. The subcontractor must then submit a written remediation plan detailing how they will improve the quality of their work. Once the plan has been implemented and the work quality has been improved, the subcontractor may resubmit their pay application for the owner's approval. Any active unresolved 72-hour notices may result in the CM withholding the pay application for this subcontractor. (Addendum 2)
41. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.

- a. The construction manager can provide equipment and a robotic total station operator for \$175/hr with at least 48hr notice. A competent layout representative from this subcontractor must accompany the layout crew.
- b. Failure to use the robotic total station will result in a stop work order with no added time to the schedule until the subcontractor complies. No added cost associated with acceleration will be accepted.
- c. This subcontractor shall be solely responsible for the correct layout, which cannot be delegated or assigned.

42. Please see the table below for all required meetings.

- a. Without exception, this Subcontractor's Project Manager and/or Superintendent must attend the weekly coordination/subcontractor meetings in person two weeks before starting work and while performing the scope of work.
- b. This subcontractor is required to participate in pull planning sessions actively. These sessions are in-person and onsite, with no exceptions. These will occur every 4-6 weeks at the CM discretion. Each day, the progress will be reviewed in the "Daily Foreman's Huddle".
- c. Failure to have the proper representative at any onsite meeting will constitute a safety violation of "competent person not on site.". Refer to Exhibit J for more information.

Meeting Titles	Frequency	Who is required to attend	Location
Pre-install	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Safe Start	Once Per Subcontractor	Superintendent, Project Manager, & Forman's	Onsite - CM Trailer
Daily Foreman Huddle	Daily	Superintendent & Forman's	Onsite - CM Trailer
Weekly Coordination	Weekly	Superintendent &/or Project Manager	Onsite - CM Trailer
Pull Plan Initial	As required	Superintendent &/or Project Manager	Remote/Teams
Pull Plan Session	Monthly	Superintendent &/or Project Manager	Onsite - CM Trailer
Jobsite Safety Standdown	Weekly	Everyone onsite	Onsite - CM Trailer
BIM Coordination	Weekly	MEP Trades BIM Managers	Remote/Teams

E. SCOPE OF WORK SPECIFICATIONS

The following outlines the scope of work specifications sections relevant to the work to be performed. This list represents the core specifications that will guide the tasks and responsibilities to be undertaken; however, it is not exhaustive or comprehensive. Additional specifications and related sections that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

- 1. **SECTION 01 23 00 – ALTERNATES, 3.1, C.**
 - a. **See drawing E-213 PV for more information.**

F. PROJECT SPECIFIC SCOPE REQUIREMENTS:

The following outlines the project-specific scope requirements of the work to be performed. This list represents the core tasks and responsibilities to be undertaken; however, it is not exhaustive

or comprehensive. Additional tasks and responsibilities that are necessary for the successful completion of the project but not explicitly mentioned here may also be required:

1. This subcontractor shall furnish and install a complete turn-key Solar PV system in accordance with the Drawings and Specifications. Note: Specifications for this scope are located on the drawings.
2. This subcontractor shall have a NABCEP certified installer on the installation crew at all times during construction.
3. This subcontractor acknowledges the compressed startup schedule and agrees to begin the shop drawing and submittal process immediately upon notification of intent to award. Upon Award of Contract and Notice to Proceed, the Subcontractor shall take all steps necessary to procure at least 5% of the system materials and expedite delivery to the site.
4. This subcontractor is responsible for notifying the Construction Manager of all inspection requests.
5. This subcontractor is responsible for compliance with all requirements of the local authority(s) having jurisdiction on all installations under this agreement.
6. This subcontractor shall adhere to all items as they are identified on sheets E-605 & E-606.
7. All required field measurements are included.
8. This subcontractor agrees to work with the Masonry, HVAC, Electrical, Hollow Core Planks, Roofer, and Concrete Subcontractors to coordinate all rough-ins.
9. This subcontractor shall coordinate with Masonry, HVAC, Electrical, Hollow Core Planks, Roofer, and Concrete Subcontractors for all penetrations and placement of equipment that is performed by this subcontractor. Any damage caused by this scope of work shall be the responsibility of this subcontractor.
10. All Maintenance Manuals and Owner Training requirements shall be completed forty-five (45) days prior to schedule project completion date or earlier if noted elsewhere in Contract Documents.
11. Provide all attic stock and maintenance tools for the Owner to the Construction Manager in unopened containers/packages prior to beginning work. All items shall be turned over no later than 30 days prior to work commencing. All items shall be transmitted to Construction Manager in writing and delivered and unloaded in a location(s) determined by Construction Manager.
12. All grounding and bonding, including cables, rods, ground well inspection covers, testing, certifications, etc. Provide test reports to the Construction Manager sixty (60) days prior to the final inspection date.
13. This subcontractor shall seal, pack, fire safe, etc., all fire-rated penetrations in walls, floors, and ceilings as required by the Contract Documents and as to maintain required ratings.
14. This subcontractor shall water seal, weather caulk, aesthetic caulk, etc., all of its sleeves/penetrations as required by the Contract Documents. Coordinate with the roof submittal to ensure compatibility between roofing materials and sealants.

15. This subcontractor shall furnish and install all required supports for the work, including, but not limited to, anchor bolts, hangers, isolators, channels, angles, embeds, etc. Unless noted otherwise on the contract documents, all system components are to be hot-dipped galvanized.
16. This subcontractor shall coordinate the Interconnection agreement between the Design Engineer and Utility Company to properly operate the power generation system for this project. This coordination shall take place immediately after the shop drawings are approved.
17. All materials and equipment shall be staged and installed in a manner that will not overload the building's structural elements. Should additional support be required to distribute loads over more than one structural element, this subcontractor shall include them. Deliveries and staging area(s) shall be coordinated with the Construction Manager prior to delivery.
18. All weatherproof enclosures, housing, shields, caulking, seal-tight, junction boxes, etc., are included in this Scope of Work.
19. This subcontractor shall coordinate and perform Commissioning and Owner Training for all equipment start-up and check-out as described in the Documents.
20. This subcontractor shall be responsible for providing and installing all the wiring to provide a complete system.

G. DESCRIPTION OF SCOPE EXCLUSIONS

The following is a complete and exhaustive list of exclusions from the Scope of Work:

1. None

Project: Pamlico County Schools
Pamlico 6-12 School
Bayboro, North Carolina

From: SfL+a Architects
333 Fayetteville Street, Suite 225
Raleigh, North Carolina 27601
(919) 573-6350 FAX (919) 573-6355

To: Prospective Bidders



This Addendum forms a part of the Contract Documents and modifies the original Construction Documents dated June 12, 2024, as noted below. Acknowledge receipt of this Addendum by writing its number and date on the Bid Form. Failure to do so may subject the bidder to disqualification.

This Addendum consists of 11 pages of responses, 38 pages of specifications and 52 pages of drawings.

CONTRACTOR BID QUESTIONS - From CM RFI Log

Item #1. Question: Scope of work states to include Commercial Laundry Equipment and Residential Equipment. Is there drawings and equipment schedules with indicating these items and the quantities?

Answer: There will be no schedule provided. See Spec Section 11 21 73.10 for Commercial Laundry Equipment. BOD is provided.

Item #2. Question: Spec 123553.19 calls for white oak and red oak in the spec. Which veneer is desired? Red oak is a standard veneer while white oak will be much more costly.

Answer: Red Oak, Specification Revised.

Item #3. Spec 123553.19 calls for the back of doors and interiors of the cabinets to be stained. Please confirm this is required and the added cost should be included.

Answer: This is required.

Item #4. Section 101400 Signage - 2.3 Room Identification Signs 15. C. "Refer to Signage Schedule". Please provide a "Signage Schedule" correlating with the signage elevations detailed on 1/A-520.

Answer: Specifications will be revised. Sign Schaudel is not provided. Refer to drawings for all sign locations. We will issue revisions to the documents to include additional general notes for signage. Note will include but not be limited to " Provide Signage at all interior door locations. Rooms with more than one access point shall require signage at each location."

Item #5. Section 101400 Signage - 2.6 Dimensional Letter Signs C. 6. Copy List does NOT include Copy: "Pamlico County Middle School" (5/A-423) Please confirm the copy "Pamlico County Middle School" detailed on drawing A-423 is required.

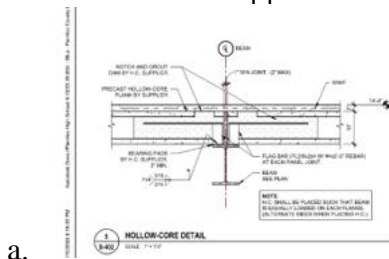
Answer: This is required. Specifications to be revised.

Item #6. General Note #2 on the Enlarged Plans and Elevations pages A-408 through A-413 states that only rooms "Chemistry 1718, Prep 1708B, Prep 2230B, and MS Science 2230" receive wood lab casework, however the elevations are showing wood lab casework in additional rooms not called out on this list. Also, room #1718 is actually shown as a Biology

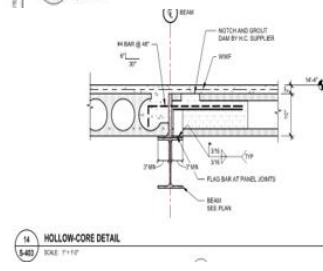
Lab and not Chemistry. There are also multiple other Lab rooms that receive lab equipment (drying racks, safety stations, goggle cabinets, etc.) that aren't on this list of rooms that receive lab casework. Can you please clarify which rooms are to receive wood lab casework?

Answer: General Note Should Read: "Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230" receive wood lab casework. Wood casework is indicated correctly on elevations. There is an error on sheet A-413. The sheet is referencing incorrect room numbers in the view titles. (MS Science 2225 to be MS Science 2230; PREP 2225B to be PRE 2232B) There are only 2 classrooms and 2 prep rooms with wood lab casework and phenolic countertops.

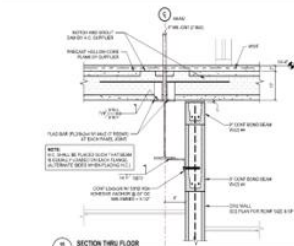
Item #7. Will the EOR approve Coreslab's standard detail for the 4 pics below that show flag bars. I can price as shown but it will cost more due to the number of weld days / weld fee per day. I can provide standard details that will eliminate the use of flag bars for the 4 pics below. The EOR must approve before the price is finalized.



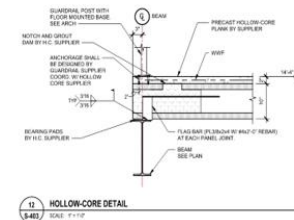
a.



b.



c.



d.

Answer: Please submit a substitution request.

Item #8. Finish Plan A711A doesn't note shades at 1111 (ext. window) nor at 1102 (ext. /int windows). Do these areas receive shades? Please confirm.

Answer: Provide Window shade in at Ext. Window 1111 only.

Item #9. Finish Plan A715E is noting WT1 shades at doors @ rooms 1502, 1504, 1506. Are shades required at doors?

Answer: No, they are not.

Item #10. Specifications give an allowance for brick, but the elevations call out a basis-of-design manufacturer and color. Should we just use the allowances as stated?

Answer: Use allowance to provide brick that matches the basis of design. Substitution requests will be reviewed to match Basis of Design.

Item #11. A010 wall type 6B1S is hatched like CMU but this is definitely metal stud, correct?

Answer: Yes. That is a graphic error. This will be corrected in an addendum.

Item #12. Will the brick allowance cover the special shapes such as shown in 9/A511?

Answer: No. Bid as drawn.

Item #13. Detail 2/A503 shows foam insulation below finished floor. If we can install an equivalent thickness of rigid foam board at this location, we can install the outer and inner masonry wythes at the same time, thus eliminating any chance of debris or mud getting on the foundation. Please advise if this is acceptable.

Answer: No. Bid as drawn.

Item #14. Will a mockup be required on this project? If so, can we get details?

Answer: Yes, details will be provided in a subsequent Addendum.

Item #15. Lockers MFG substitution request.

Answer: Not Complete, Provide request per specifications.

Item #16. The Div. 9 Specifications call out “Pre-molded” outside rubber corner bases. Basis of design is Flexco and they do not make a pre-molded corner base. There is nothing in the scopes stating that the pre-molded is required. Can you please confirm if pre-molded can be excluded (otherwise, Flexco cannot be the basis of Design)?

Answer: Flexco will not be the BOD for the Vented Wall Base. Johnsonite will be the BOD for the Vented Wall Base. Flexco will remain the BOD for Non Vented Wall Base. - Specs and Drawings will be updated.

Item #17. I am wanting to know if we can do a switch from Sheet Applied Air Barrier to Fluid Applied Air Barrier for Spec 072700. Looking at using Henry Airbloc 17MR. I can submit a technical data sheet if needed

Answer: Please submit a substitution request.

Item #18. Architectural details do not show any fireproofing surrounding structural steel framing, however; on G-005, UL Design No. D925 shows fireproofing field applied to steel beams. Please clarify on plans, section's and details in the building framing of the need for this fireproofing.

Answer: Note on G-002 Building Code Summary in the Fire Protection Requirements Table states that: ! NOTE: FLOOR ASSEMBLY - D925 1/G-005 IS FOR RATED ALCOVE LIDS ONLY. This UL detail is for the solid concrete lid only. No steel structure is rated in any other locations.

Item #19. Please clarify the conflicting Rail Metal Types as shown for Stair #7. Sheet A-443 Details 9 and 2.

Answer: Revisions will be made. Stair 1, 2, 7 and 8 in mechanical and fire stair areas should have painted steel handrails and guardrails.

Item #20. I am going through the specs on this project and have found a discrepancy in section 27.00.00. The first sentence in the summary states to use “category 6A” and the

rest of the specifications / drawings refer to category 6. What direction would you like me to take?

Answer: CAT 6A shall be used as indicated on T-001 . The corrected spec shall be distributed in the bid addendum.

Item #21. Confirm which are lab fridges (by spec 115300) and which are residential fridges (by spec 113013) as the plans do not distinguish between the two.

Answer: Lab fridges are located in science prep rooms only.

Item #22. Ref to 1/A-111F.1. The structural plan 1/S-101F does not match. Structural plan is missing the Curtain Wall Openings as shown on the Arch. Floor Plan along grid G.

Answer: Along CL- G there are no Curtain Walls on Level 1. All glazing on L1 on CL-G are SF. Curtain Walls type 7 and 8 are shown on A-112F.1. They are shown only on Level 2.

Item #23. Will SFLA and the Engineer of Record provide a Structural Shear Wall plan, Elevations, Wall Sections and Details for this project.

Answer: We will provide plan views denoting shear wall locations and corresponding sections/details. Wall elevations will not be provided. Wall sections and details are currently in the drawings, but will be referenced on the new sheet as well. This will be incorporated in a future Addendum.

Item #24. Spec section 098400 2.3 B 7 d 1) states Factory applied paint. Just below it for 2) states Field Applied. Are the Cementitious panels to be factory or field painted?

Answer: Field Painted. Specification will be updated to reflect see Addendum 2.

Item #25. Please advise on missing specification 271513 – Communications Copper Horizontal Cabling.

Answer: Specification to be provided in Addendum 2.

Item #26. ADA Ambulatory stalls require (2) 42” Grab bars and (2) 18” Grab Bars to meet the guidelines however the plans only show (2) 42” Grab Bars, are those stalls intended to meet the ADA Ambulatory stall requirements?

Answer: Yes.

Item #27. The Athletic lockers are specified to be 12x15x72” however the finish legend states the measurements to be 15x15x72” and the page showing the lockers A-415 states 12x36” dimensions. What is the correct sizing intended to the athletic style lockers.

Answer: 12x36 is the correct size. This will be corrected in a forthcoming Addendum.

Item #28. Metal Storage Shelving is shown however is not listed as a scope of work within BP1050 Storage Specialty, please confirm which owns this scope of work.

Answer: Yes. It is in the scope of work.

Item #29. The mirrors shown in the Weight Room on page A-415 are marked as MIR2, please confirm these are intended to be stainless framed, tempered glass mirrors such as in the bathrooms.

Answer: No. We will revised the mirror and issued an update in a forthcoming Addendum.

Item #30. Based on the location and design criteria, this project appears to be in and require glass and glazing systems that are rated for hurricane impact resistance to wind borne debris.

However the specified Exterior Storefront Framing in spec. sec. (084113), Curtain Wall Framing in (084413) basis of design(s), and the insulated glass make ups listed in spec. section 088000 are not rated for hurricane impact resistance. Can we get confirmation that hurricane impact

resistant to wind borne debris is or is not required for this project? If it is required we will need insulated glass makeups Basis of designs specified that meet this impact requirement.

Answer: Based on the building location and Risk Category, we are not in a wind-borne debris region.

Item #31. The Enlarged Science Lab Plans & Elevations Schedule on sheets A-408 through A-413 indicates Goggle Cabinet, Drying Rack, and Teacher's Display are OFOI items. Please confirm

Answer: Based on the building location and Risk Category, we are not in a wind-borne debris region.

Item #32. The Enlarged Science Lab Plans & Elevations Schedule on sheets A-408 through A-413 indicates Goggle Cabinet, Drying Rack, and Teacher's Display are OFOI items. Please confirm

Answer: This is to be Contractor Provided Contractor Installed.

Item #33. A-111E.1 there appears to be 4 locations where interior walls abut into storefront framing (SF29). Will a wall end cap be required at these locations? If so will it be brake metal or a special assembly such as a mullion mate? (if an assembly we will need a spec. & basis of design for this product) Who will be responsible for furnishing and installing these wall end caps?

Answer: See detail 7/A-512 for gyp wall cap information. Note that Acoustic partition closers are included in the detail.

Item #34. Door #'s: S-S1-B, 2-S4-B, 2-S5-B, C1800, & E1301-B Call for fire rated aluminum frames. Please provide a spec. and basis of design for the aluminum fire rated frames.

Answer: All rated doors are to have Hollow Metal Frames. Schedule to be updated.

Item #35. Door #'s: C1500C, C1600, C1600A, and C1800 calls for fire rated doors lites, please provide a spec. and basis of design for the fire rated glass.

Answer: Specification will be provided in a forthcoming addendum.

Item #36. Note 14 on the feeders from Panel PVM to PV Disconnect and PV Disconnect to MSB call for CTs. What is the purpose of these CTs? E701

Answer: Energy monitoring through the BAS system.

Item #37. Sheet A-601: Doors 1502A-1504A-1506A-1510A-1512A-1514A-1516A-1602B are all indicated as door material "GLASS" but door type is indicated as "FG-Full Glass". Also, hardware types for these doors would indicate a Stile and Rail door is to be used. Please review and clarify the correct Door Material & Door Type for these (8) entrances.

Answer: Door Material will be updated to ALUM (Aluminum), Refer to Door Legend for Associated Door Type. FG is shown correctly with stiles and rails as shown. Please note glass type for interior vs. exterior locations. We will provide additional notes for clarification on the drawings in Addendum 3

Item #38. Sheet A-601: Virtually all interior door frames (F1-F2-F3) are indicated to be material type "ALUM" with "Wood" doors. However, the door schedule does not delineate which of the interior aluminum framing systems (Trifab 450 - 2" x 4-1/2" - Surface Mount or In Frame - 2" x 6" - Wrapped) is to be used for each door frame opening. - Please provide desired framing sizes, Head/Jamb/Sill details, and wall thickness for each (F1-F2-F3) interior aluminum entrance?

Answer: A full review will be completed. Our intention for the In Frame system (IF) vs. Trifab system (TF) is indicated in the notes of the glazing schedule and in the storefront specifications. Masonry walls are to have TF system and Gypsum walls are to have IF systems

unless noted otherwise. In a forthcoming addendum, we will provide a column in the door schedule that will indicate if an SF door is an In Frame system (IF) or a Trifab system (TF).

Item #39. Sheet A-601: Door 1718A is listed as material type "H.M." door in an "ALUM" frame. Please review and clarify if this is correct.

Answer: HM door in a HM Frame is correct. We will correct in the drawings in a forthcoming Addendum.

Item #40. Sheet A-601: Doors 2-S1-B / 2-S4-B / 2-S5-B / C1800 / E1301-B are all indicated to be fire-rated entrances with wood doors but the framing material is indicated as "ALUM". No aluminum manufacturer produces a fire-rated framing system, all systems are Hollow Metal, Steel, or a Steel-clad system. - Please review and advise on fire-rated entrance makeups and if necessary, provide a fire-rated entrance specification and basis of design? Please clarify what scope of work is to provide Fire-Rated entrance framing?

Answer: All rated doors are to have Hollow Metal Frames. Schedule to be updated.

Item #41. Specification 084113-084413 – Part 2.6 – Section A. – Finishes: indicates a Color Anodized Finish "As selected by the Architect from the manufacturer full range of options." - Please provide the desired Anodized Finish Color for the aluminum storefront and curtainwall as these options all vary significantly in Cost and Material Availability.

Answer: Specification will be updated to select Clear Anodized in the forthcoming Addendum.

Item #42. Sheet A-621: Please confirm that the "SF" framing on this sheet is to be interior aluminum storefront type: In Frame - 2" x 6" – Wrapped?

Answer: Per frame legend on A-621. SF - 6" Nominal Aluminum Interior Frame System is intended to be our BOD: In Frame Wrapped System.

Item #43. Sheet A-621: Please confirm that the "SF.1" type interior aluminum storefront is to be: Trifab 450 - 2" x 4-1/2" Front- Set – Surface Mount?

Answer: Per frame legend on A-621. SF - 4 1/2" storefront non - thermally broken (Indicated with "x.1" indicator) are intended to be our BOD Trifab 450 2" x 4 1/2" front set system. Note that all 4 1/2" systems are noted on sheet A-621 with notes below for additional information in a forthcoming Addendum.

Item #44. Given the projects physical location, Kawneer (Basis of Design: Aluminum manufacturer) has requested written clarification and confirmation on whether or not the architect has determined if NCBC / IBC requires that this projects exterior aluminum curtainwall, storefront, and entrances be WIND-BORNE DEBRIS (Large & Small missile) Hurricane-Impact Resistant compliant for exterior framing and glazing.

Answer: Based on the building location and Risk Category, we are not in a wind-borne debris region.

Item #45. Glazing type "ILG" does not appear to be tagged anywhere on the framing elevations. Please confirm its usage?

Answer: This glazing type has been removed from the project. Unused symbol removed in Addendum 3.

Item #46. Sheet A-621: "SF11 & SF19.1" indicate a door type with a Cross Rail which is not found on the door schedule.

Answer: This is a graphic error. This will be corrected in a forthcoming Addendum.

Item #47. Sheet A-601: Multiple SF/CW tags do not align with the correct frame to door location. (Ex. 1100-E indicates "SF06"/ C1800A indicates "SF13" / Doors 1401 indicates "CW07" which are all windows without entrances.)

Answer: A full review of the SF and CW locations will be reviewed and revised in a forthcoming Addendum.

Item #48. Some rooms show name tag with different hatches, for e.g.: Room No's 1106,1111 etc....show tag for LVT-2 and shows Hatch as LVT-1, room No's like 1114,1108 etc.... show tag as CPT-2 and hatch as CPT-1. Please clarify, what shall Superseed, Finish plan tag or Finish hatches.

Answer: This is a graphical error. This will be corrected in a forthcoming addendum.

Item #49. Are there as-builts of the existing school? Specifically underground foundations?

Answer: A floor plan will be released that indicates roof construction and wall construction diagrams. We have no drawing for underground foundations.

Item #50. Please confirm that aluminum 5" x 5" pocket boxes with closure plates are required in lieu of a standard front snap-on fascia.

Answer: Please provide product data on related content for clarification on the question.

Item #51. The basis of design on the finish legend is Mermet. Mermet is a fabric company not a roller shade manufacturer. Please confirm that Mermet is the only fabric that can be utilized. If other shade fabrics can be utilized please indicate what fabrics are acceptable.

Answer: Any approved per-specs roller shade manufacturer with their fabric can be used.

Item #52. Finish legend/specs do not indicate what openness % factor or Mermet fabric product line to utilize for WT-1 and WT2. Please advise.

Answer: Architect to select from full line during submittals.

Item #53. Please confirm that this project does not have motorized window treatments, manual only.

CHANGES TO SPECIFICATIONS

SECTION 09 65 00 Resilient Flooring

Item #1. Revise 2.4 Resilient Wall Base - Vented Type - in section A Manufacturers: - To exclude Flexco and make Johnsonite, A Tarkett Company the Basis of Design.

Item #2. Revise 2.4. Resilient Wall Base - Vented Type - in section B Basis of Design: To Johnsonite, A Tarkett Company.

SECTION 09 84 00 Acoustic Room Components

Item #1. Revise 2.3.B.7.d.1 To have Filed Applied Paint only.

SECTION 12 35 53.19 Laboratory Casework

Item #1. Revise all wood stains/type to be Red Oak.

SECTION 10 14 00 Signage

Item #1. Revise 2.3 Room Identification Signs A.15.C, to state Refer to Elevations and Details on Drawings.

Item #2. Revise 2.6 Dimensional Letter Signs B.6.C. to include PAMLICO COUNTY MIDDLE SCHOOL (1 signs required).

SECTION 27 15 13 Communications Copper Horizontal Cabling

Item #1. Revised to reflect the drawing, Category 6A.

CHANGES TO DRAWINGS

General

- Item #1. G-002:
- Revise plumbing count to include additional urinal and account for ECS in-room toilets.

Civil

- Item #2. C-402:
- Revise the note for the water tank to read “NIC - Tank Provided by Owner Refer to Fire Protection Drawings for Tank and Pump Information.”

Structural

- Item #3. S-100C:
- Updated walls in MS Girls Locker Room (Room 1303) to align with architectural walls
- Item #4. S-102E :
- Provided clarification on edge of slab dimensions in learning commons
- Item #5. S-102F:
- Updated slab edge dimension at Stair 06 landing
 - Updated beam size along CMU wall at Stair 06
- Item #6. S-406 :
- Detail 6 - Updated gym roof edge to match architectural detail
 - Detail 9 - Updated gym roof edge to match architectural detail
- Item #7. S-407:
- Detail 1 - Updated gym roof edge to match architectural detail
 - Detail 2 - Updated gym roof edge to match architectural detail
 - Detail 3 - Updated gym roof edge to match architectural detail
- Item #8. S-411 :
- Detail 6 - Updated gym roof edge to match architectural detail

Architectural

- Item #9. A-010:
- Revised wall time 6B1S Graphic to match wall type.
- Item #10. A-101.1:
- Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #11. A-101.2:

- Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #12. A-103.1
 - Additional of Jamb Details at clerestory window.
- Item #13. A-111E.1:
 - Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #14. A-111E.2:
 - Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #15. A-112F.2:
 - Additional detail reference 10/A-441.
- Item #16. A- 120.1
 - Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #17. A-121E:
 - Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #18. A-121F:
 - Additional detail reference 10/A-441.
- Item #19. A-130
 - Revise roof plan for revised scupper locations.
- Item #20. A-312
 - Revise detail 1.
 - Add detail 2.
- Item #21. A-313:
 - Revise TOM Elevation in Detail 3.
- Item #22. A-314:
 - Revise TOM Elevation in Detail 3.
 - Revise Detail 1.
- Item #23. A-315:
 - Revise Details 1, 2, and 3.
- Item #24. A-316:
 - Revise Detail 1, 2, and 3.
- Item #25. A-317:
 - Revise Detail 1 and 2.
- Item #26. A-318:
 - Revise Detail 3.
- Item #27. A-319.
 - Revise Detail 2, and 3.
- Item #28. A-403:
 - Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #29. A-408:
 - Revise View Names to coordinate with the correct room.
 - Revise General Note 2. Correct to: Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230 receive wood lab casework.
- Item #30. A-409:
 - Revise View Names to coordinate with the correct room.

- Item #31. A-410:

 - Revise General Note 2. Correct to: Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230 receive wood lab casework.
 - Revise View Names to coordinate with the correct room.
 - Revise General Note 2. Correct to: Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230 receive wood lab casework.
- Item #32. A-411:

 - Revise General Note 2. Correct to: Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230" receive wood lab casework.
- Item #33. A-412:

 - Revise General Note 2. Correct to: Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230" receive wood lab casework.
- Item #34. A-413:

 - Revise View Names to coordinate with the correct room.
 - Revise General Note 2. Correct to: Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230 receive wood lab casework.
- Item #35. A-440

 - Revise detail 4 and 8 to have Wall Mounted Painted Steel Handrails.
- Item #36. A-443

 - Revise detail 2 and 11 to have Painted Steel Handrails.
- Item #37. A-501

 - Revise Detail 9.
- Item #38. A-502

 - Revise Details 9, 12, and 13.
- Item #39. A-503

 - Revise Detail 6.
- Item #40. A-504

 - Revise Detail 4 and 5.
- Item #41. A-505

 - Revise Detail 3.
- Item #42. A-511

 - Detail removed on sheet.
- Item #43. A-520.

 - Add detail 9. Signage Detail at Wal
 - Relocate Detail 8.
- Item #44. A-701:

 - Revise Finish Schedule - for 09 30 00 Tiling section.
 - Revise Finish Schedule - for 09 65 00 Resilient Flooring - RB3.
 - Revise sheet to include Signage General Notes.
- Item #45. A-702.1:

 - Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.
- Item #46. A-711A:

 - Revise room number 1111 to have a WT1.
- Item #47. A-715E:

- Revise room number 1502, 1504, AND 1506 to have one WT1 at exterior windows.
- Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.

Item #48.

A-720.1:

- Revise plans due to plan change and addition of a single urinal to coordinate with MEP drawings.

Electrical

Item #50.

E-111B:

- There was a print error with the gym light fixtures. This has been corrected.

Item #51.

E-111E:

- Revised lighting for restrooms per architectural changes.

Item #52.

E-211E:

- Revised power for restrooms per architectural changes.

END OF ADDENDUM

PARTITION TYPE SCHEDULE												
TYPE	GRAPHIC	CONSTRUCTION				TOTAL THICKNESS	HEIGHT CONSTRAINTS	HEAD DETAIL	BASE DETAIL	FIRE PROTECTION RATING / UL #	ACOUSTIC INSULATION & SEALANT	COMMENTS
		SURFACE 1	ASSEMBLY CORE	SURFACE 2								
1ANC		5/8" GB	1 5/8" STEEL STUD + 1" AIR SPACE		3 1/4"	6" ABV CLNG				NO	Sealed	
1ANS		5/8" GB	1 5/8" STEEL STUD + 1" AIR SPACE		3 1/4"	TO DECK				NO	Sealed	
3ANC		5/8" GB	3 5/8" STEEL STUD		4 1/4"	6" ABV CLNG				NO		
3ANP		5/8" GB	3 5/8" STEEL STUD		4 1/4"	AS INDICATED ON PLAN				NO		
3ANS		5/8" GB	3 5/8" STEEL STUD		4 1/4"	TO DECK	5/A011	5/A011		YES	STC 46	
3BNC		5/8" GB	3 5/8" STEEL STUD		4 7/8"	6" ABV CLNG	5/A011	5/A011		YES	STC 46	
3BNP		5/8" GB	3 5/8" STEEL STUD	5/8" GB	4 7/8"	AS INDICATED ON PLAN		5/A011		NO		
3BNS		5/8" GB	3 5/8" STEEL STUD	5/8" GB	4 7/8"	TO DECK	5/A011	5/A011		YES	STC 46	
3CNP		(2) 5/8" GB	3 5/8" STEEL STUD	5/8" GB	5 1/2"	AS INDICATED ON PLAN		5/A011		NO		
3CNS		(2) 5/8" GB	6" STEEL STUD	5/8" GB	5 1/2"	TO DECK	5/A011	5/A011		YES	STC 46	
6ANC		5/8" GB	6" STEEL STUD		6 5/8"	6" ABV CLNG	5/A011	5/A011		YES	STC 46	
6ANS		5/8" GB	6" STEEL STUD		6 5/8"	TO DECK	5/A011	5/A011		YES	STC 46	
6B1S		(2) 5/8" GB	6" STEEL STUD	(2) 5/8" GB	7 1/4"	TO DECK			1 HR - UL DESIGN NO. U419	NO		
6BNC		5/8" GB	6" STEEL STUD	5/8" GB	7 1/4"	6" ABV CLNG	5/A011	5/A011		YES	STC 46	
6BND		5/8" GB	6" STEEL STUD	5/8" GB	7 1/4"	TO DECK	5/A011	5/A011		NO		
6BNP		5/8" GB	6" STEEL STUD	5/8" GB	7 1/4"	TO DECK	5/A011	5/A011		NO		
6BNS		5/8" GB	6" STEEL STUD	5/8" GB	7 1/4"	TO DECK	5/A011	5/A011		YES	STC 46	
8M1S			8" CMU		7 5/8"	TO DECK	4/A011	4/A011	1 HR - UL DESIGN NO. U905	NO		
8M2S			8" CMU		7 5/8"	TO DECK	4/A011	4/A011	2 HR - UL DESIGN NO. U905	NO		
8MND			8" CMU		7 5/8"	TO DECK	4/A011	4/A011		YES	Sealed, >STC 52	
8MNP			8" CMU		7 5/8"	AS INDICATED ON PLAN		4/A011		NO		
8MNS			8" CMU		7 5/8"	TO DECK	4/A011	4/A011		YES	Sealed, >STC 52	
9CNS		(2) 5/8" GB	(2) 6" STEEL STUD + 1" AIR SPACE	5/8" GB	10 1/8"	TO DECK				NO		
12M2S			12" CMU		11 5/8"	TO DECK	4/A011		2 HR - UL DESIGN NO. U905	NO		
12MNS			12" CMU		11 5/8"	TO DECK	4/A011	4/A011		YES	Sealed, >STC 52	

Partition Notes

- A. Refer to plans for location of partition types.
- B. All interior roof drains and overflow drains to be wrapped continuously with R13 thermal insulation for minimum of 10 linear feet.
- C. Where gypsum wall board extends to the underside of structure, stop gypsum wall board 1/2" below face of structure and seal as required.
- D. Refer to specifications for types and applications of gypsum-based board materials.
- E. Provide mold-resistant gypsum board in all restrooms, showers, janitorial closets, and where indicated in room finish schedule.
- F. Provide identification markings for smoke rated and fire-resistance-rated partitions as specified in Section 07 0553.

THICKNESS

3BND

- 0: 7/8"
- 1: 1 5/8"
- 2: 2 1/2"
- 3: 3 5/8"
- 4: 4"
- 6: 6" or 5 5/8"
- 8: 8" or 7 5/8"
- 9: 3 5/8" + 1" + 3 5/8"

CONSTRUCTION

3BND

- A: Single layer of Gypsum Board on one side
- B: Single layer of Gypsum Board on both sides
- C: Single layer of Gypsum Board on one side, double layer on other side
- D: Double layer of Gypsum Board on both sides
- E: Double layer of Gypsum Board on single side
- F: Triple layer of Gypsum Board on single side
- S: Shaft Wall assembly
- M: Masonry (CMU)
- K: Concrete

FIRE RATING

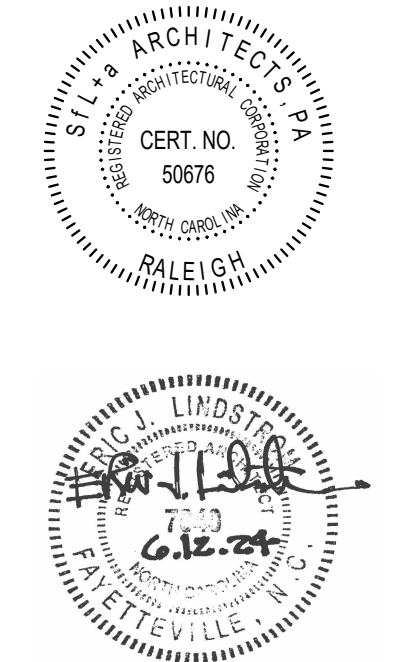
3BND

- N: Not Rated
- 1: 1 HR Rated
- 2: 2 HR Rated
- 3: 3 HR Rated
- P: Smoke Partition
- Y: 1 HR Smoke Barrier
- Z: 2 HR Smoke Barrier

HEIGHT & STC

3BND

- P: Partial height partition, reference elevations
- C: 0 inches above ceiling
- D: To deck or structure above
- G: To deck or structure above with grout filled cells & acoustically sealed at the entire perimeter on both sides of the wall.
- R: To deck or structure above with resilient channels, acoustic insulation & sealant
- S: To deck or structure above with acoustic sealant at the entire perimeter on both sides of the wall.
- T: To deck or structure above with resilient sound isolation clips, acoustic insulation & sealant



CONSTRUCTION DOCUMENTS

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WALL PARTITION TYPES

A-010



CONSTRUCTION
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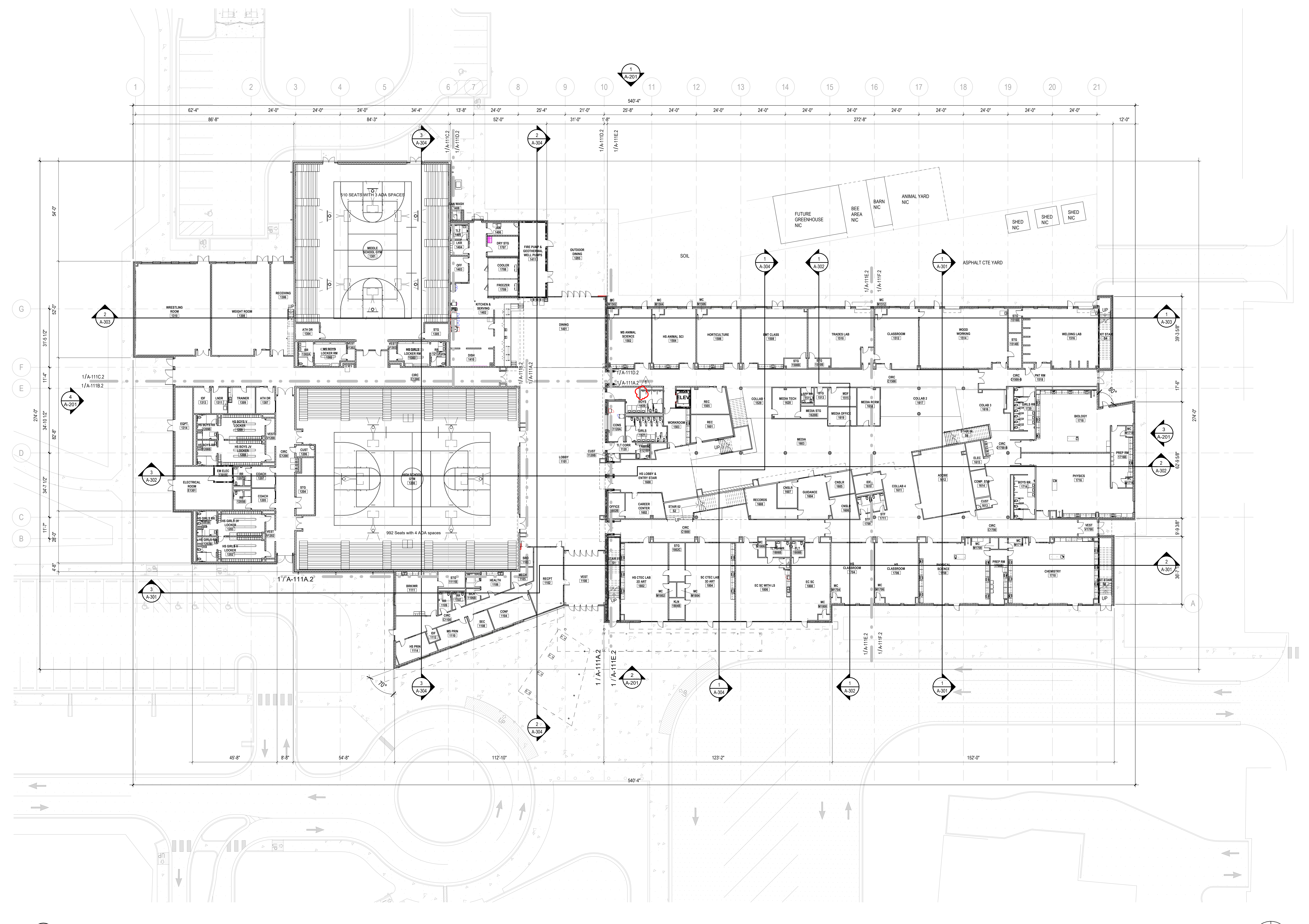
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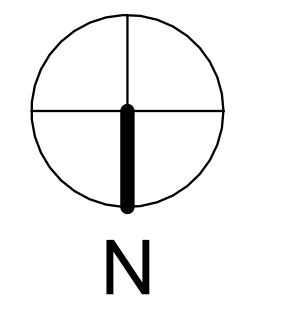
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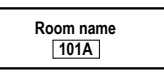

OVERALL PLAN -
FIRST FLOOR

A-101.1



1 OVERALL FIRST FLOOR PLAN
A-101.1 SCALE: 1" = 20'-0"



ROOM & DOOR TAG PLAN LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ROOM TAG

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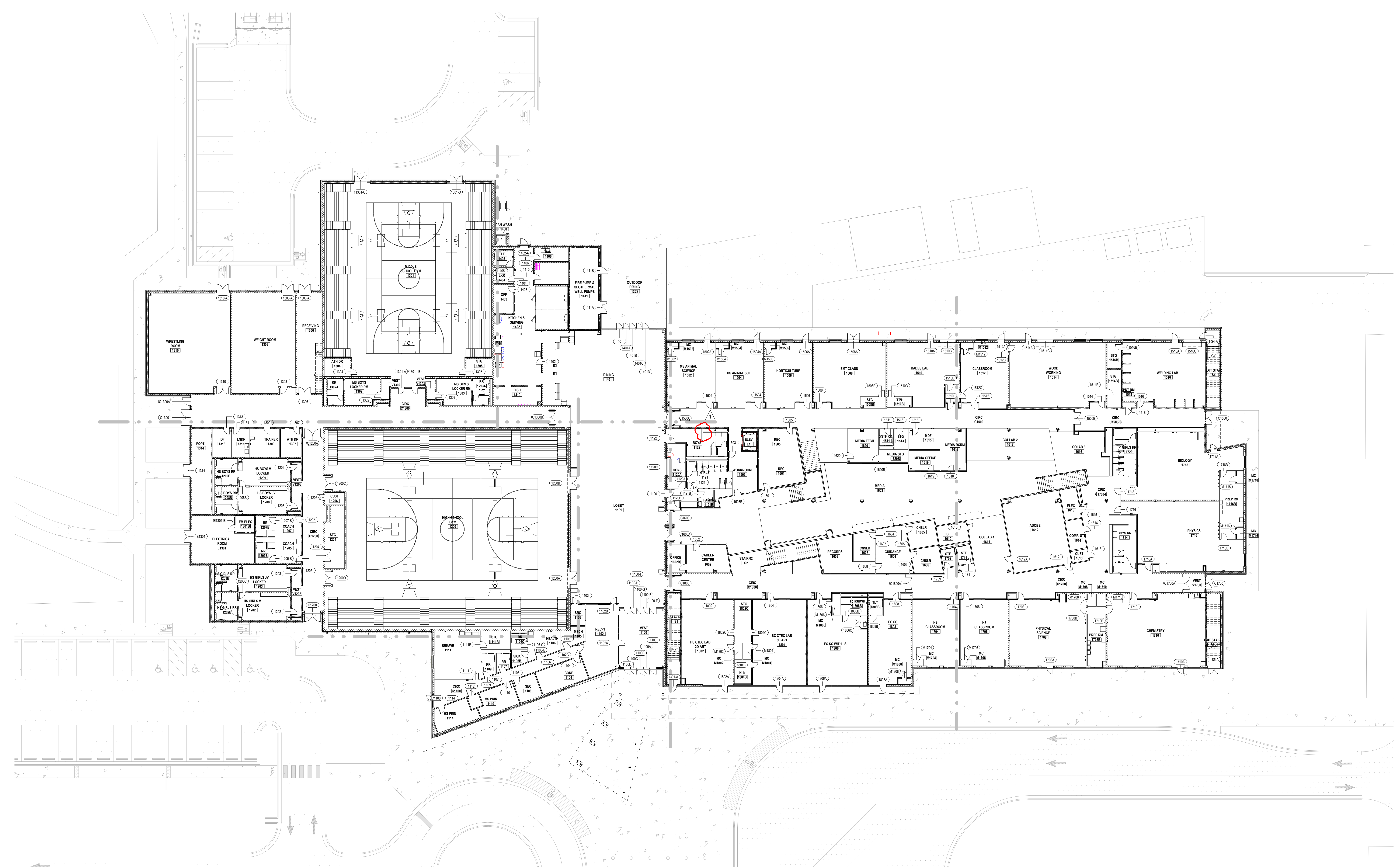
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CONSTRUCTION DOCUMENTS



1 OVERALL FIRST FLOOR PLAN - ROOM & DOOR TAG
SCALE: 1" = 20'-0"

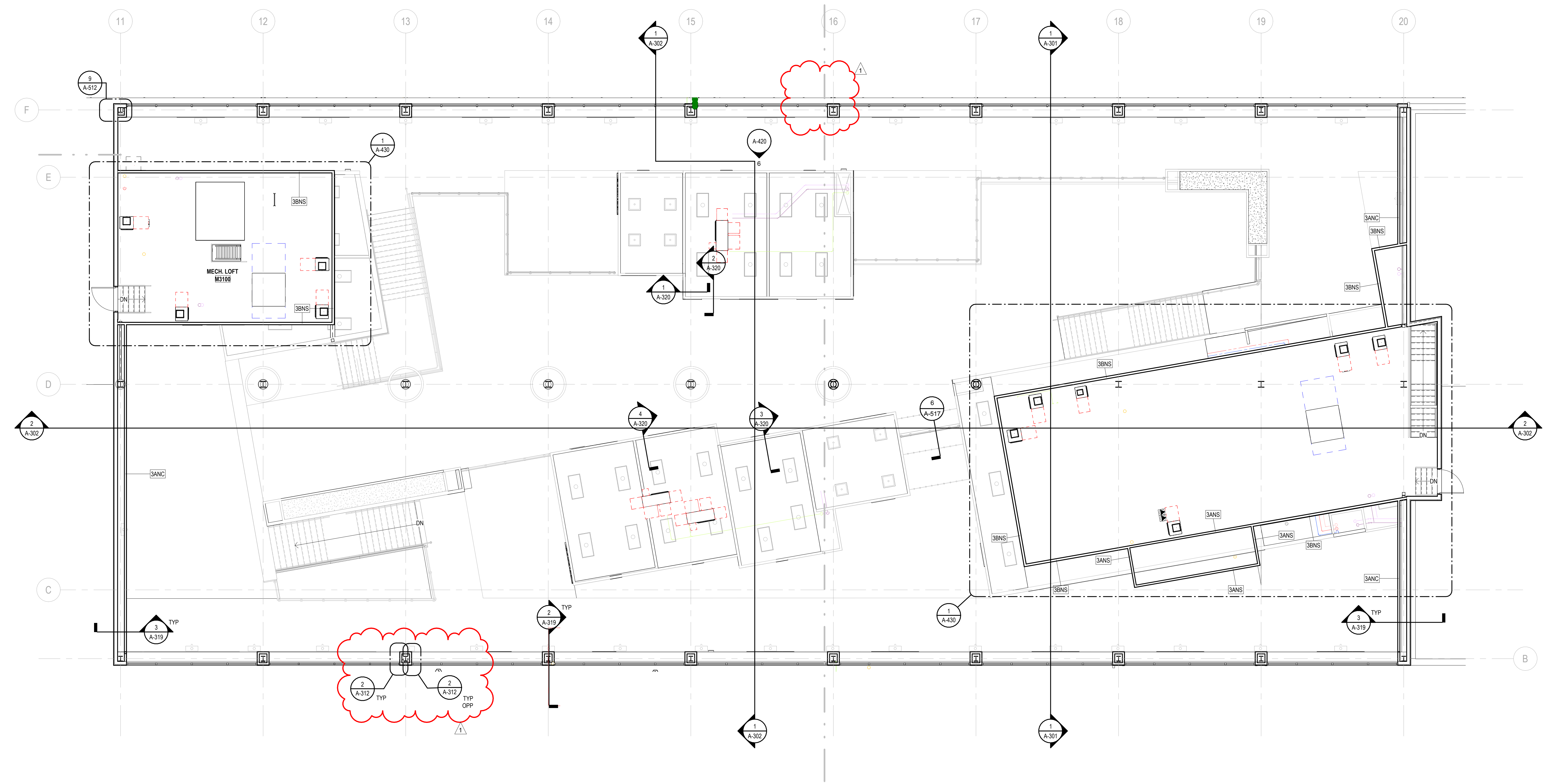
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OVERALL PLAN -
FIRST FLOOR
(ROOM & DOOR
TAG)

A-101.2



1 SECOND FLOOR PLAN - CLERESTORY
A-103.1 SCALE: 1/8" = 1'-0"

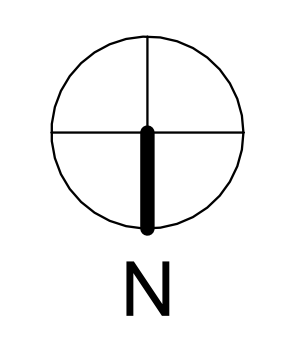
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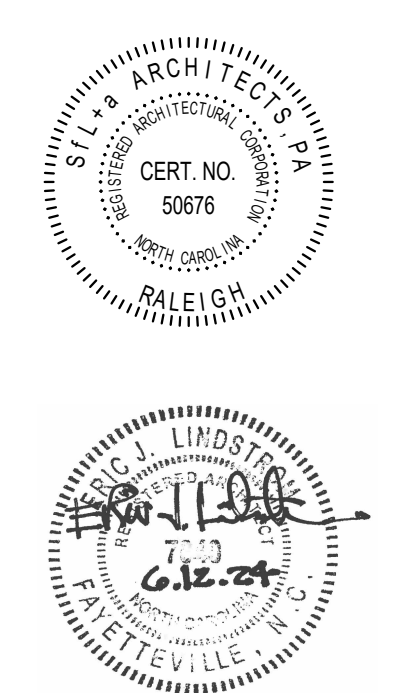
SECOND FLOOR
PLAN - CLERESTORY

A-103.1





1 FIRST FLOOR PARTIAL DIM PLAN - AREA E
 A-111E.1 SCALE: 1/8" = 1'-0"



CONSTRUCTION DOCUMENTS

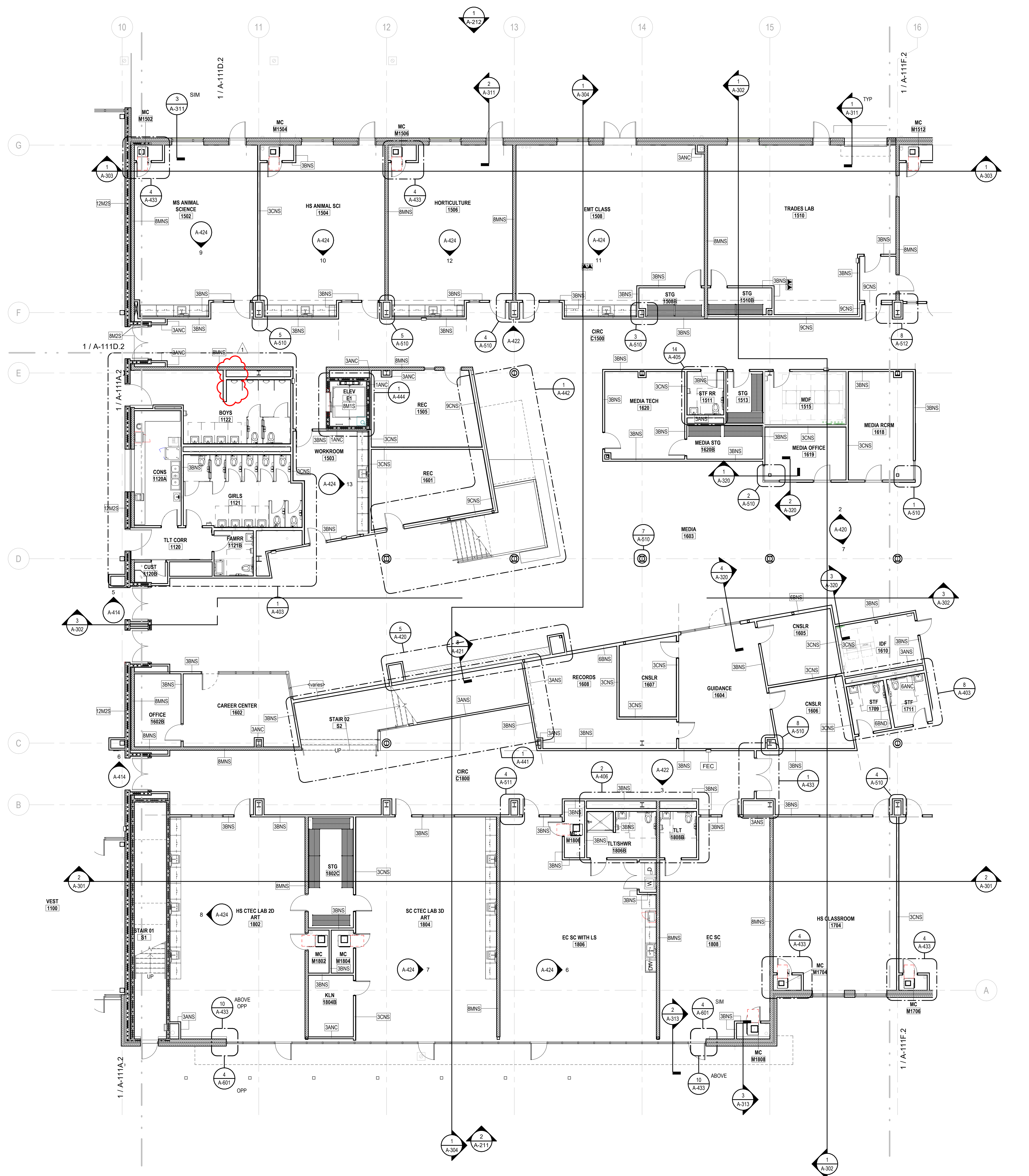
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FIRST FLOOR
 PARTIAL PLAN -
 AREA E - DIM. PLAN

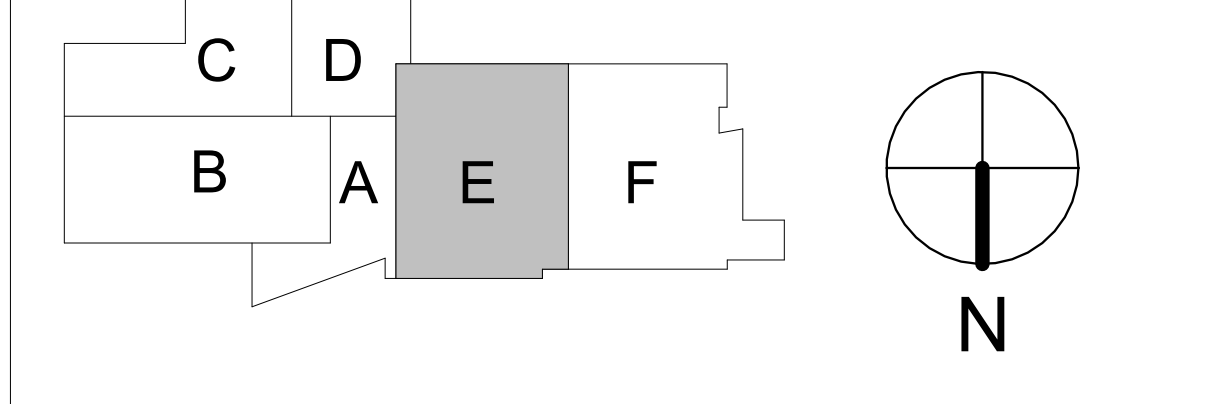
A-111E.1



1
A-111E.2
FIRST FLOOR PARTIAL PLAN - AREA E
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
	CONTROL JOINT
	FLOOR DRAIN - SEE PLUMBING DRAWINGS
	STOREFRONT (CURTAIN WALL) TAG - SEE PLANS AND ENLARGED ELEVATIONS
	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ROOM TAG

- GENERAL NOTES:**
- SEE SHEET A-010 FOR PARTITION TYPES AND DETAILS.
 - CONTRACTOR RESPONSIBLE FOR PROCUREMENT AND INSTALLATION OF LOCKERS
 - ALL INTERIOR WALLS SHALL HAVE SOUND ATTENUATION BATTS - U.N.O.



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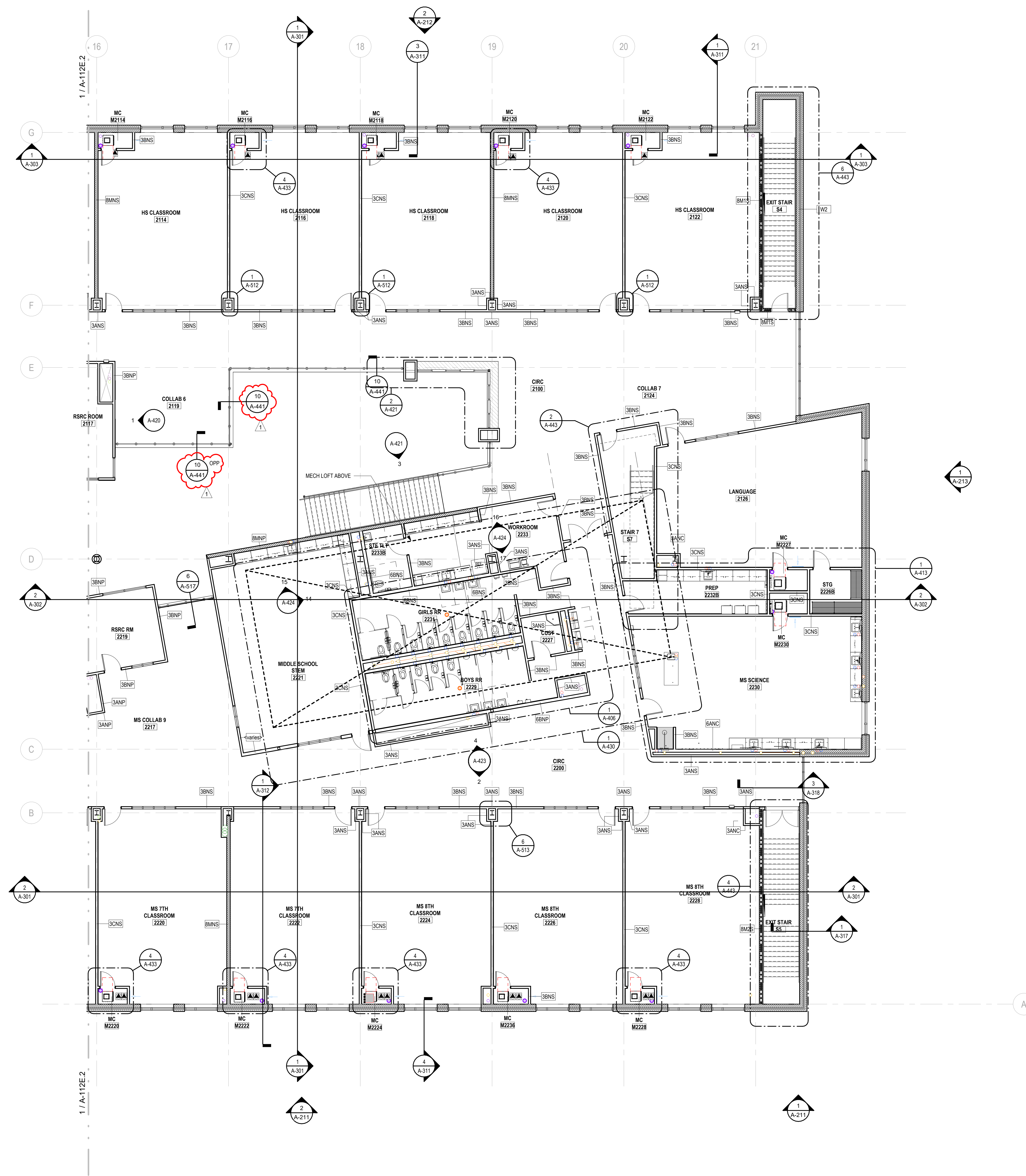
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FIRST FLOOR
PARTIAL PLAN -
AREA E

A-111E.2



1 SECOND FLOOR PARTIAL PLAN - AREA F
A-112F.2 SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND	
SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	2 HOUR RATED WALL
	CONTROL JOINT
	FLOOR DRAIN - SEE PLUMBING DRAWINGS
	STOREFRONT (CURTAIN WALL) TAG - SEE PLANS AND ENLARGED ELEVATIONS
	DOOR TAG - SEE SHEET A-601 AND FLOOR PLANS
	ROOM TAG

- GENERAL NOTES:**
- SEE SHEET A-010 FOR PARTITION TYPES AND DETAILS.
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ARCHITECT
CERT. NO.
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STATE OF N.C.

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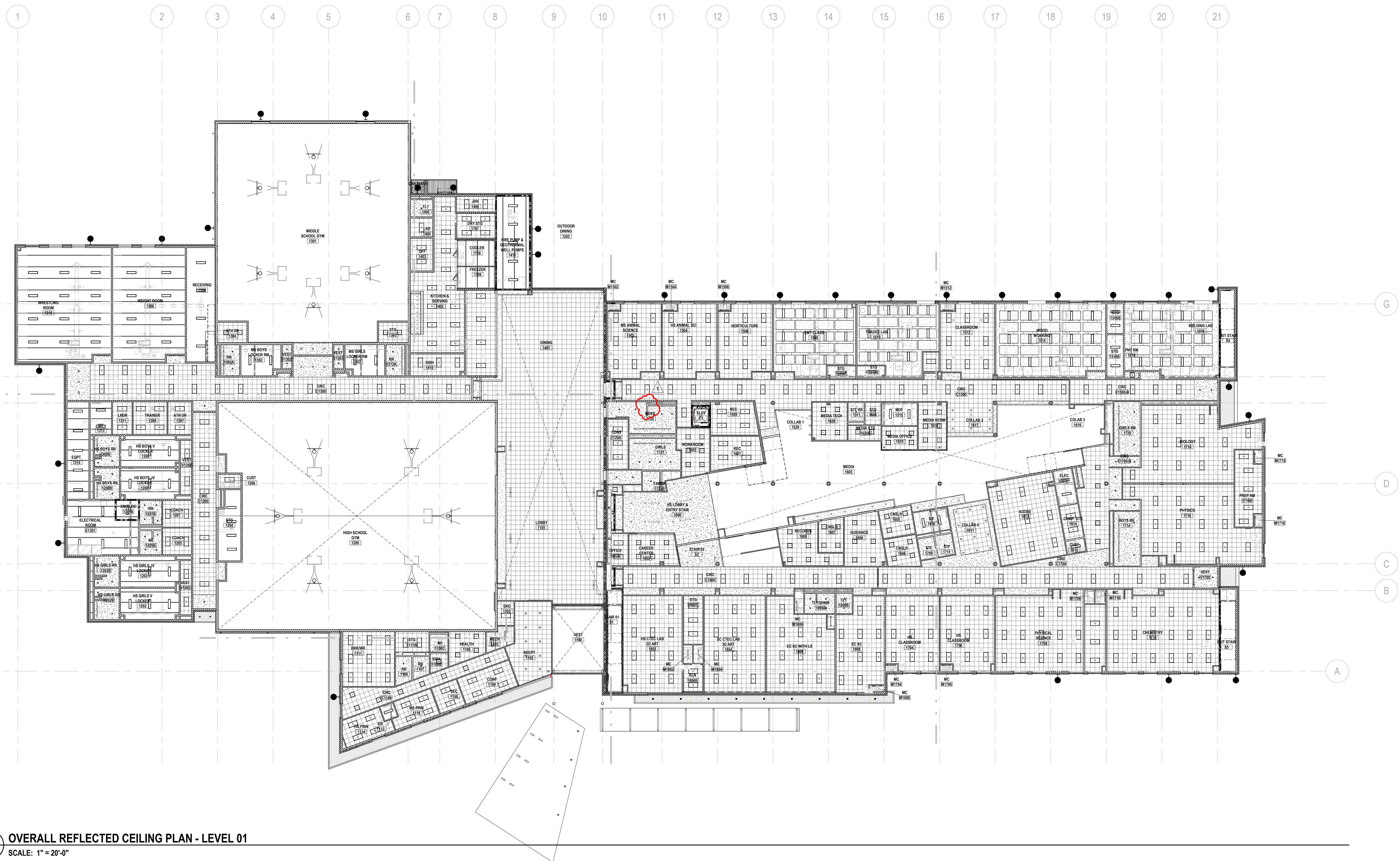


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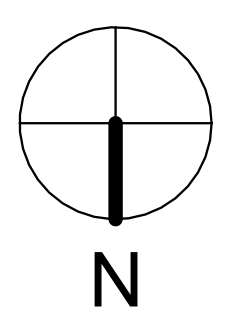
SECOND FLOOR
PARTIAL PLAN -
AREA F

A-112F.2

No.	Date	Description
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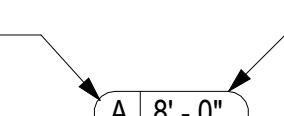
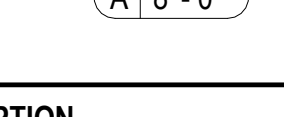
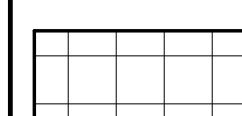
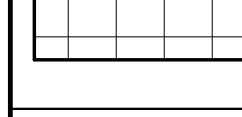
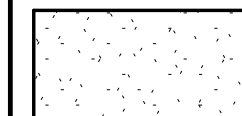

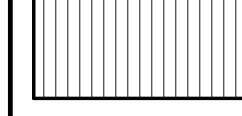
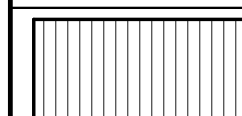
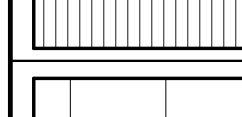
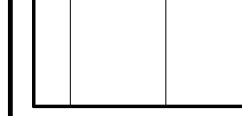
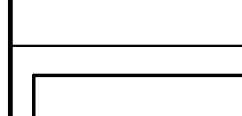
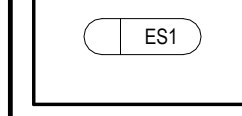

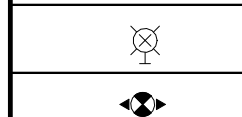
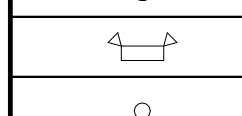
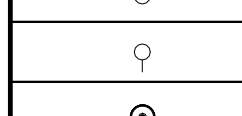
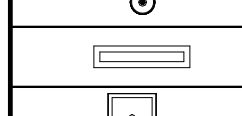
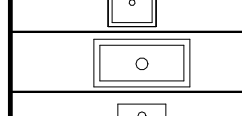
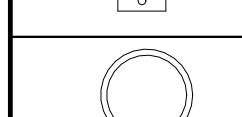
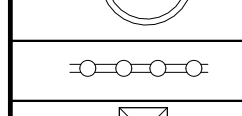
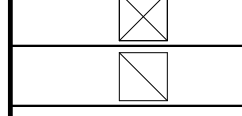
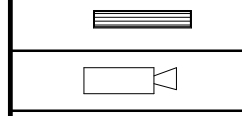

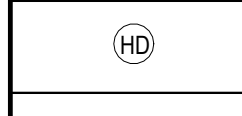
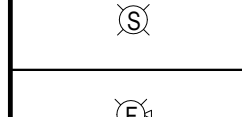
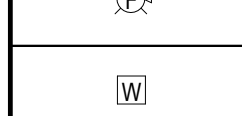
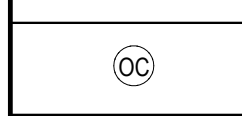
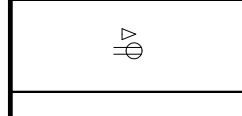


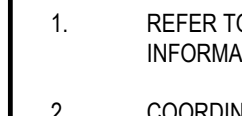
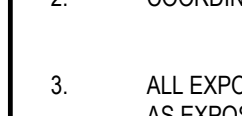
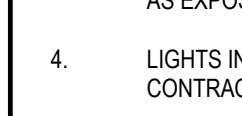
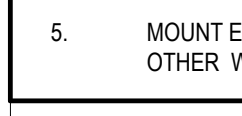







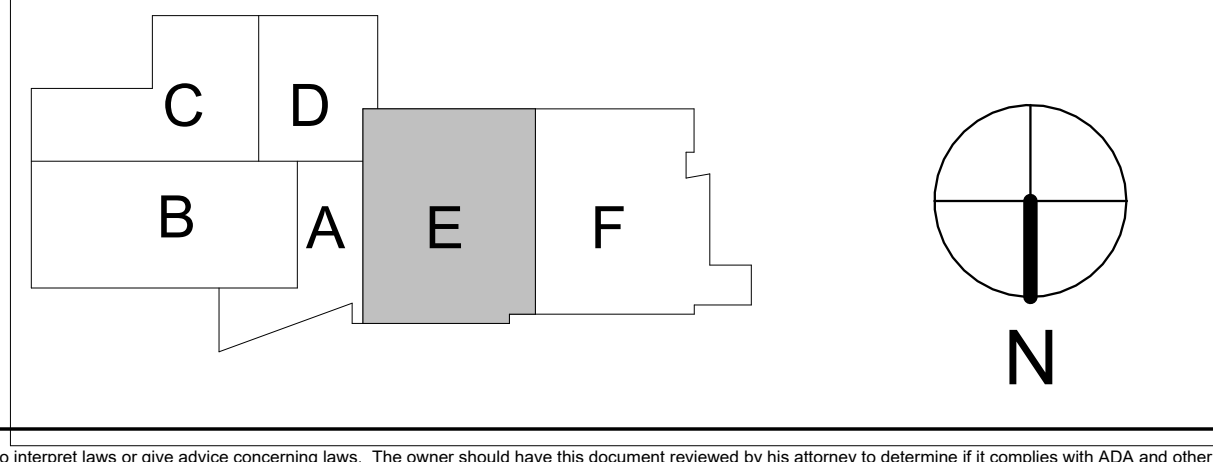
1 OVERALL REFLECTED CEILING PLAN - LEVEL 01
SCALE: 1" = 20'-0"





1 FIRST FLOOR RCP AREA E
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
CEILING TYPE  CEILING HEIGHT 	
SYMBOL	DESCRIPTION
	2 x 2 ACOUSTICAL CEILING PANELS
	TYPE "APC1": TYPICAL PANELS - HIGH NRC
	TYPE "APC2": TYPICAL PANELS - IMPERVIOUS
	TYPE "APC3": TYPICAL PANELS - LOW NRC
	GYPSUM WALL BOARD CEILING
	TYPE "F": TYPICAL CEILING SYSTEM, PAINTED
	TYPE "G": TYPICAL CEILING SYSTEM, EPOXY PAINTED
	ACOUSTICAL DECKING
	TYPE "H": TYPICAL CEILING SYSTEM, PAINTED
	EXTERIOR VENTED METAL SOFFIT PANEL
	TYPE "J": TYPICAL SYSTEM
	EXPOSED INSULATION - ON UNDERSIDE OF STRUCTURE WHERE INSULATION IS EXPOSED - FOR ADDITIONAL DATA SEE SECTION DETAILS (OPEN CEILING CTE ROOMS, LOCKER ROOMS, WEIGHT ROOM, WRESTLING ROOM) IF A COLOR IS SELECTABLE - COLOR TO BE SELECTED FROM STANDARD LINE
	EXPOSED STRUCTURE TYPE "ES1": PAINTED WITH DRYFOG, REFER TO INTERIOR FINISH SCHEDULE FOR COLOR TYPE "ES2": PAINTED WITH DRYFOG, REFER TO INTERIOR FINISH SCHEDULE FOR COLOR TYPE "ES3": UNPAINTED
	EXTERIOR EMERGENCY LIGHT
	LED EXIT SIGN
	EMERGENCY LIGHT
	DOWNLIGHT - SEE ELECTRICAL
	WALL SCONCE - SEE ELECTRICAL
	GYM LIGHTING - SEE ELECTRICAL
	4' LED SUSPENDED LIGHT - SEE ELECTRICAL
	2x2 LAY-IN LED - SEE ELECTRICAL
	2x4 LAY-IN LED - SEE ELECTRICAL
	LARGE WALL SCONCE - UP/DOWN - SEE ELECTRICAL
	RING LIGHT - UP/DOWN - COORDINATE WITH COLUMNS SEE ELECTRICAL
	STRING LIGHT FIXTURE - SEE ELECTRICAL
	DIFFUSER - SEE ELECTRICAL
	RETURN - SEE ELECTRICAL
	DIFFUSER - SEE ELECTRICAL
	CAMERA LOCATION - SEE TECHNOLOGY
	SMOKE DETECTOR (SHALL BE 3' - 0" MIN FROM ANY AIR SUPPLY/RETURN) - SEE ELECTRICAL
	HEAT DETECTOR (SHALL BE 3' - 0" MIN FROM ANY AIR SUPPLY/RETURN) - SEE ELECTRICAL
	ADA COMPLIANT FIRE ALARM STROBE LIGHT - SEE ELECTRICAL
	ADA COMPLIANT FIRE ALARM STROBE LIGHT - SEE ELECTRICAL
	DATA OUTLET (WIRELESS ROUTER LOCATION IS ABOVE CEILING) - SEE ELECTRICAL
	OCCUPANCY SENSOR - SEE ELECTRICAL
	POWER AND DATA - SEE ELECTRICAL
	ES EXPOSED STRUCTURE - REFER TO FINISH LEGEND FOR MORE INFORMATION
RCP GENERAL NOTES:	
1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION	
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR	
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE OR TYPE "H" TO BE PAINTED - SEE FINISH PLANS	
4. LIGHTS IN MECHANICAL CLOSETS TO BE INSTALLED IN COORDINATION WITH MECHANICAL CONTRACTOR. VERIFY ALL LOCATIONS AND MOUNTING HEIGHTS.	
5. MOUNT EXTERIOR WALL-MOUNTED FIXTURES AT 9'-0" AFF. UNO. REFER TO A-400 SERIES FOR ALL OTHER WALL-MOUNTED LIGHT FIXTURE PLACEMENT INFORMATION.	



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RALEIGH

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REGISTERED
6.12.24
P.L.L.C.

CONSTRUCTION DOCUMENTS

PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



No.	Date	Description
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ISSUE DATE: 06/12/24		
PROJECT #:	2205	
DRAWN BY:	MK	
CHECKED BY:	MK	

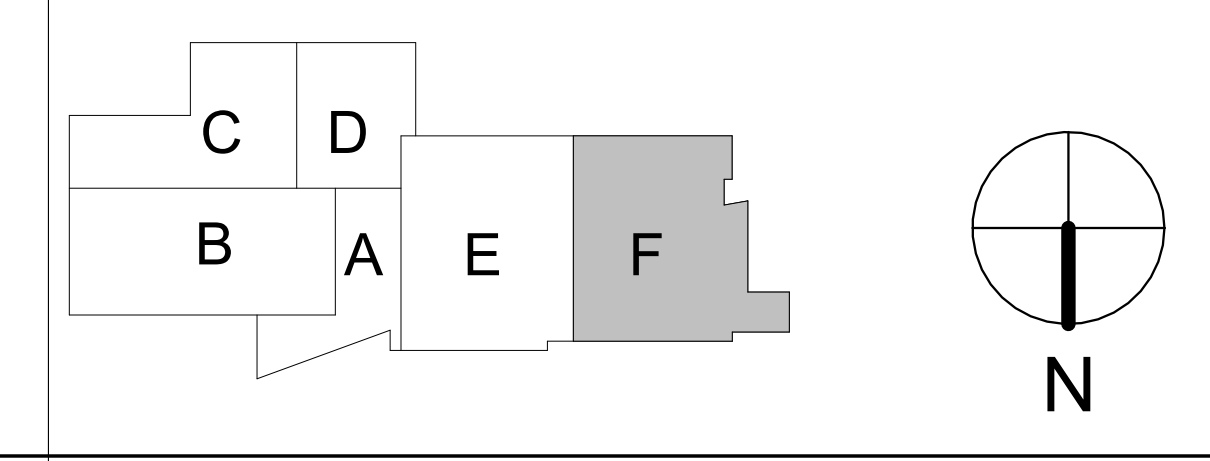
REFLECTED CEILING
PLAN - LEVEL 01
-AREA E

A-121E



REFLECTED CEILING PLAN LEGEND	
CEILING TYPE CEILING HEIGHT	
SYMBOL	DESCRIPTION
	2 x 2 ACOUSTICAL CEILING PANELS
	TYPE "APC1": TYPICAL PANELS - HIGH NRC
	TYPE "APC2": TYPICAL PANELS - IMPERVIOUS
	TYPE "APC3": TYPICAL PANELS - LOW NRC
	GYPSUM WALL BOARD CEILING
	TYPE "F": TYPICAL CEILING SYSTEM, PAINTED
	TYPE "G": TYPICAL CEILING SYSTEM, EPOXY PAINTED
	ACOUSTICAL DECKING
	TYPE "H": TYPICAL CEILING SYSTEM, PAINTED
	EXTERIOR VENTED METAL SOFFIT PANEL
	TYPE "J": TYPICAL SYSTEM
	EXPOSED INSULATION - ON UNDERSIDE OF STRUCTURE WHERE INSULATION IS EXPOSED - FOR ADDITIONAL DATA SEE SECTION DETAILS (OPEN CEILING CTE ROOMS, LOCKER ROOMS, WEIGHT ROOM, WRESTLING ROOM) IF A COLOR IS SELECTABLE - COLOR TO BE SELECTED FROM STANDARD LINE
	EXPOSED STRUCTURE
	TYPE "ES1": PAINTED WITH DRYFOG, REFER TO INTERIOR FINISH SCHEDULE FOR COLOR
	TYPE "ES2": PAINTED WITH DRYFOG, REFER TO INTERIOR FINISH SCHEDULE FOR COLOR
	TYPE "ES3": UNPAINTED
	EXTERIOR EMERGENCY LIGHT
	LED EXIT SIGN
	EMERGENCY LIGHT
	DOWNLIGHT - SEE ELECTRICAL
	WALL SCONCE - SEE ELECTRICAL
	GYM LIGHTING - SEE ELECTRICAL
	4' LED SUSPENDED LIGHT - SEE ELECTRICAL
	2X2 LAY-IN LED - SEE ELECTRICAL
	2X4 LAY-IN LED - SEE ELECTRICAL
	LARGE WALL SCONCE - UP/DOWN - SEE ELECTRICAL
	RING LIGHT - UP/DOWN - COORDINATE WITH COLUMNS SEE ELECTRICAL
	STRING LIGHT FIXTURE - SEE ELECTRICAL
	DIFFUSER - SEE ELECTRICAL
	RETURN - SEE ELECTRICAL
	DIFFUSER - SEE ELECTRICAL
	CAMERA LOCATION - SEE TECHNOLOGY
	SMOKE DETECTOR (SHALL BE 3' - 0" MIN FROM ANY AIR SUPPLY/RETURN) - SEE ELECTRICAL
	HEAT DETECTOR (SHALL BE 3' - 0" MIN FROM ANY AIR SUPPLY/RETURN) - SEE ELECTRICAL
	ADA COMPLIANT FIRE ALARM STROBE LIGHT - SEE ELECTRICAL
	ADA COMPLIANT FIRE ALARM STROBE LIGHT - SEE ELECTRICAL
	DATA OUTLET (WIRELESS ROUTER LOCATION IS ABOVE CEILING) - SEE ELECTRICAL
	OCCUPANCY SENSOR - SEE ELECTRICAL
	POWER AND DATA - SEE ELECTRICAL
	ES EXPOSED STRUCTURE - REFER TO FINISH LEGEND FOR MORE INFORMATION
RCP GENERAL NOTES:	
1. REFER TO ELECTRICAL SHEETS FOR LIGHT FIXTURE LOCATIONS, TYPES AND ADDITIONAL INFORMATION	
2. COORDINATE LOCATION OF ACCESS PANELS WITH PLUMBING CONTRACTOR	
3. ALL EXPOSED STRUCTURE, PIPING, DUCT WORK, ELECTRICAL DEVICES, ETC. IN AREAS INDICATED AS EXPOSED STRUCTURE OR TYPE "H" TO BE PAINTED - SEE FINISH PLANS	
4. LIGHTS IN MECHANICAL CLOSETS TO BE INSTALLED IN COORDINATION WITH MECHANICAL CONTRACTOR. VERIFY ALL LOCATIONS AND MOUNTING HEIGHTS.	
5. MOUNT EXTERIOR WALL-MOUNTED FIXTURES AT 9'-0" AFF. UNO. REFER TO A-400 SERIES FOR ALL OTHER WALL-MOUNTED LIGHT FIXTURE PLACEMENT INFORMATION.	

1 FIRST FLOOR RCP AREA F
SCALE: 1/8" = 1'-0"



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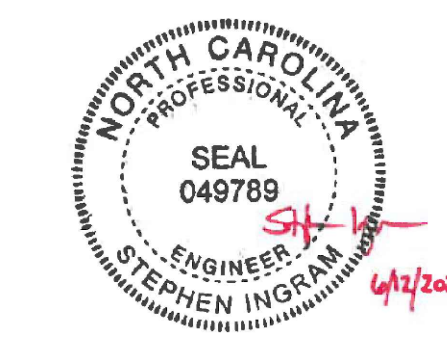
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PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



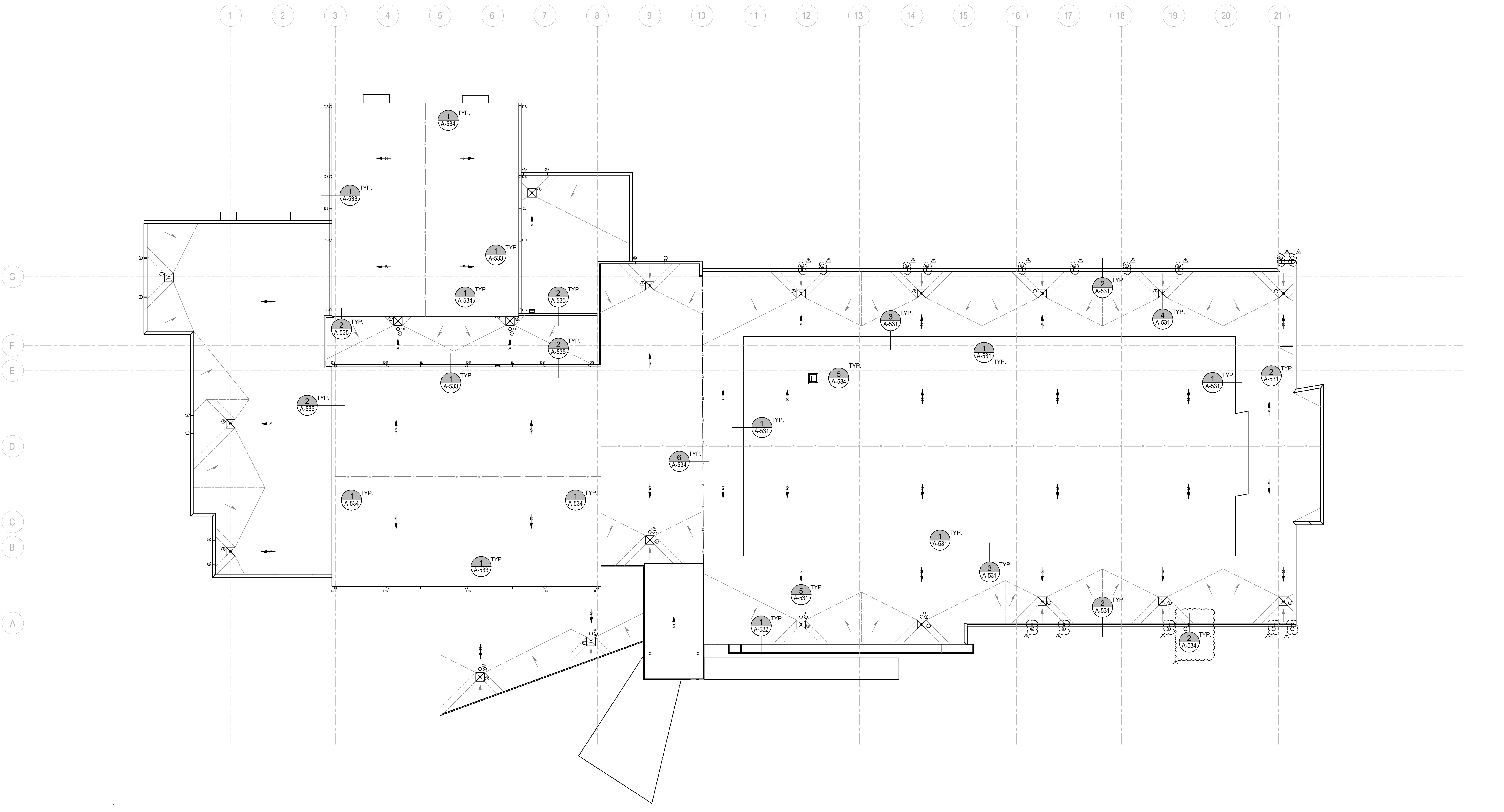
No.	Date	Description
1	07/10/2024	Bid Addendum 2
ISSUE DATE: 06/12/24		
PROJECT #:	2205	
DRAWN BY:	MK	
CHECKED BY:	MK	

REFLECTED CEILING
PLAN - LEVEL 01
-AREA F

A-121F



CONSTRUCTION
DOCUMENTS



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- DIMENSIONS, DETAIL COMPONENTS AND EQUIPMENT PENETRATION LOCATIONS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION PROVIDED.
- ONLY ONE DETAIL INDICATOR MAY BE SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE TYPICAL DETAIL INDICATOR, UNLESS OTHERWISE NOTED.
- NOTES ARE INTENDED TO PROVIDE TYPICAL LOCATIONS OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO QUANTIFY ALL LOCATIONS.

SHEET NOTES:

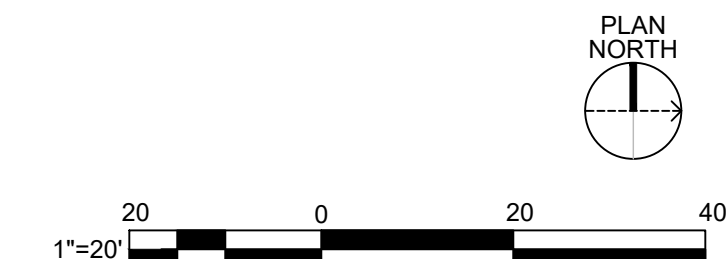
- BASED ON 2018 NCSBC: PLUMBING CODE, AND USING A 4.0 INCHES-HOUR 100-YEAR, 1-HOUR RAINFALL RATE PER SECTION 1106.1, SIZE INDICATED PRIMARY DRAINS AS 4" DIAMETER STANDARD ROOF DRAINS.
- BASED ON 2018 NCSBC: PLUMBING CODE, AND USING A 7.2 INCHES-HOUR 100-YEAR, 1-HOUR RAINFALL RATE PER SECTION 1106.1, SIZE INDICATED SECONDARY DRAINAGE AS 5" DIAMETER OVERFLOW ROOF DRAINS.
- BASED ON 2018 NCSBC: PLUMBING CODE, AND USING A 4.0 INCHES-HOUR 100-YEAR, 1-HOUR RAINFALL RATE PER SECTION 1106.1, SIZE INDICATED PRIMARY DRAINS AS 4" DIAMETER STANDARD ROOF DRAINS.
- BASED ON 2018 NCSBC: PLUMBING CODE, AND USING A 7.2 INCHES-HOUR 100-YEAR, 1-HOUR RAINFALL RATE PER SECTION 1106.1, SIZE INDICATED SECONDARY DRAINAGE AS 5" DIAMETER OVERFLOW ROOF DRAINS.
- BASED ON 2018 NCSBC: PLUMBING CODE, AND USING A 7.2 INCHES-HOUR 100-YEAR, 1-HOUR RAINFALL RATE PER SECTION 1106.1, SIZE INDICATED SECONDARY DRAINAGE AS 5" HIGH BY 16" WIDE OVERFLOW SCUPPERS. BOTTOM OF OVERFLOW SCUPPER SHALL BE 2" ABOVE FINISHED ROOF SURFACE.
- BASED ON 2018 NCSBC: PLUMBING CODE, AND USING A 7.2 INCHES-HOUR 100-YEAR, 1-HOUR RAINFALL RATE PER SECTION 1106.1, SIZE INDICATED SECONDARY DRAINAGE AS 5" HIGH BY 22" WIDE OVERFLOW SCUPPERS. BOTTOM OF OVERFLOW SCUPPER SHALL BE 2" ABOVE FINISHED ROOF SURFACE.

KEY

—	ROOF EDGE
- - -	EXPANSION JOINT
— — —	GUTTER EDGE
—	TAPERED INSULATION
—	STRUCTURAL SLOPE
—	TAPERED INSULATION SLOPE
—	CRICKET SLOPE
—	ROOF OVERHANG
⊗	ROOF DRAIN
⊗	OVERFLOW SCUPPER
⊗	SOIL PIPE
⊗	PIPE PENETRATION
⊗	ROOF HATCH
⊗	ROOF LADDER
⊗	DETAIL INDICATOR

1 ROOF PLAN
SCALE: 1" = 20'-0"

ROOF AREA : 92,397 SF



PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



2 | 7/10/24 | ADDENDUM #2

ISSUE DATE: 6/12/2024
PROJECT #: 2205
DRAWN BY: SEI
CHECKED BY: SEI

ROOF PLAN

A-130

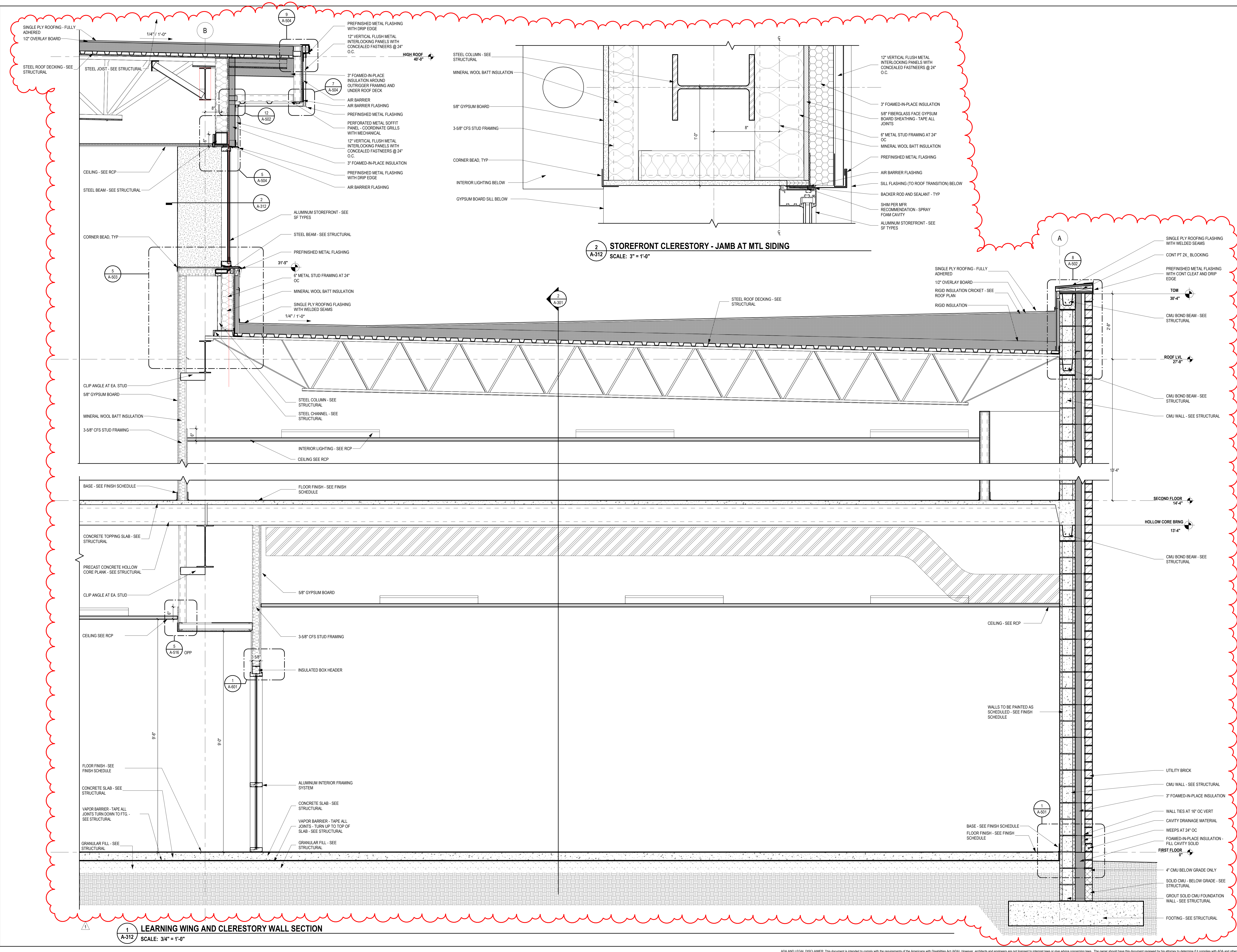
CONSTRUCTION DOCUMENTS

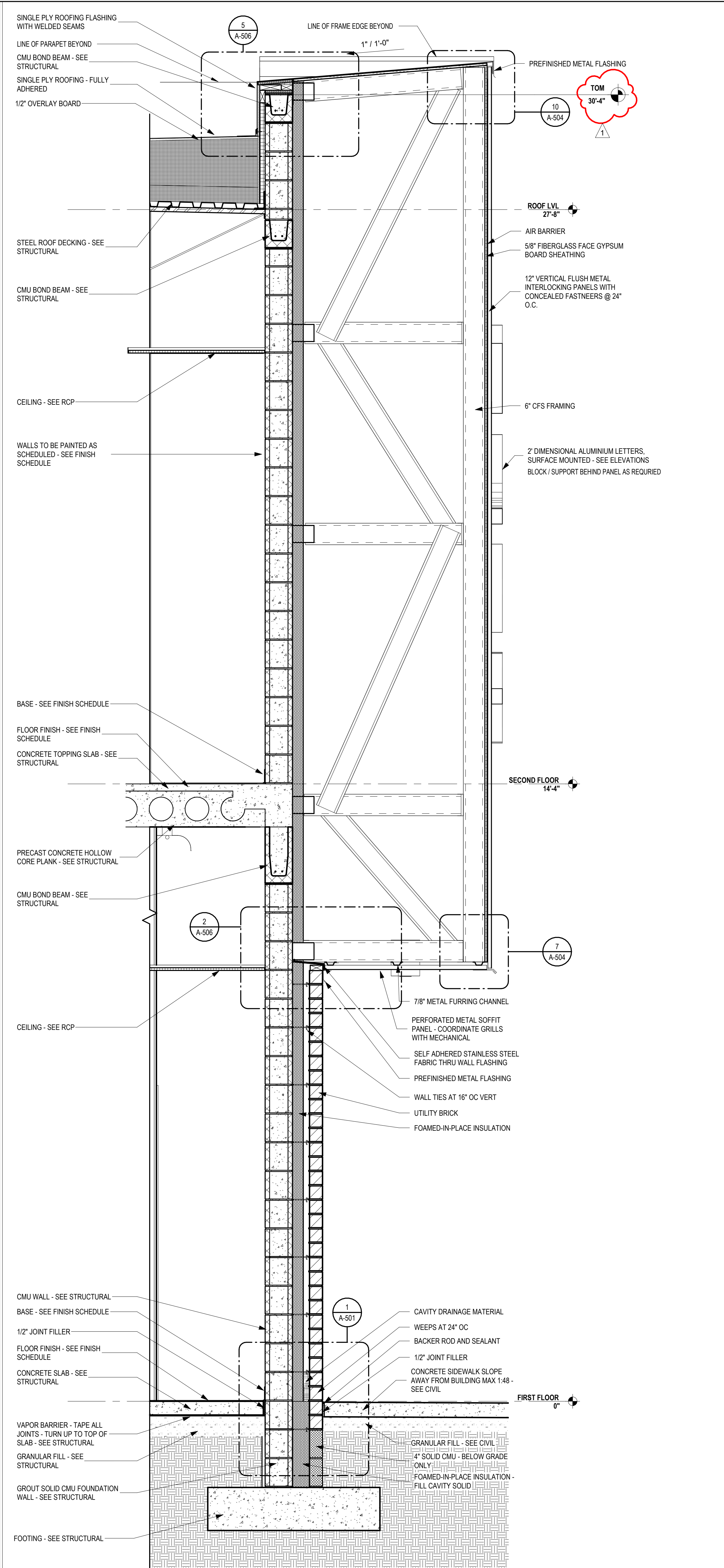
**PAMLICO COUNTY
PAMLICO 6-12 SCHOOL**
601 Main Street, Bayboro, NC, 28515



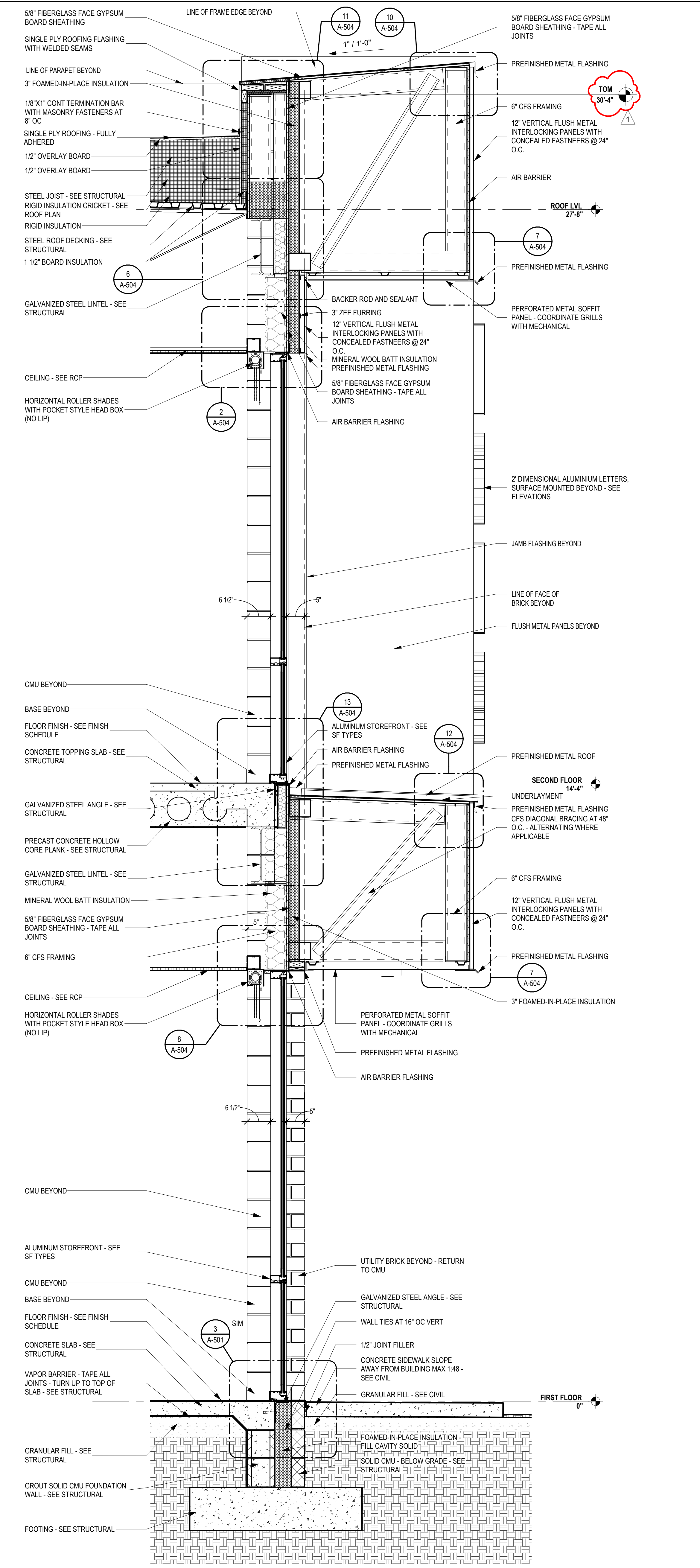
No.	Date	Description
1	07/10/2024	Bid Addendum 2
ISSUE DATE: 06/12/24		
PROJECT #: 2205		
DRAWN BY: MK		
CHECKED BY: MK		

WALL SECTIONS

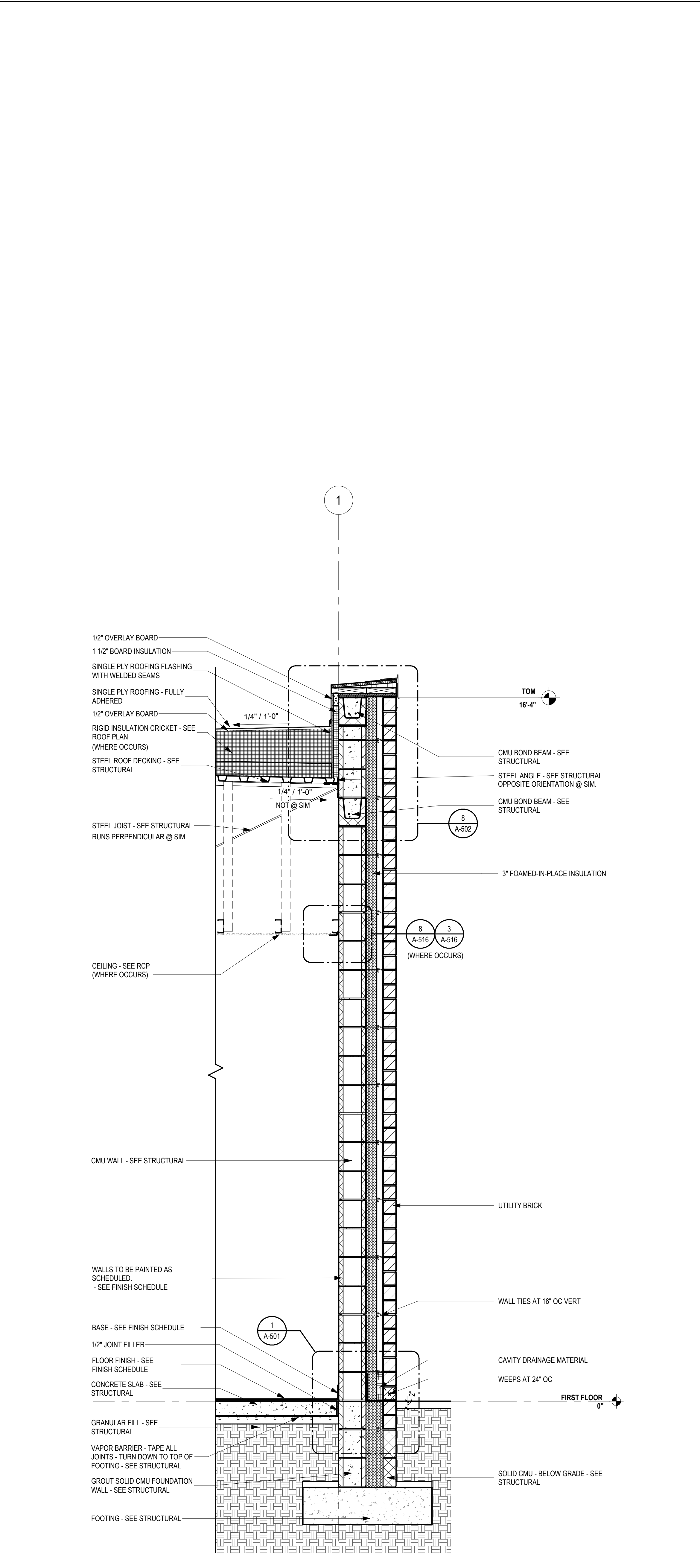




3
A-313 **GLAZING "FRAME" AT MASONRY WALL**
SCALE: 3/4" = 1'-0"



2
A-313 **GLAZING "FRAME" AT CLASSROOM STOREFRONT**
SCALE: 3/4" = 1'-0"



1
A-313 **TYPICAL SINGLE STORY MASONRY**
SCALE: 3/4" = 1'-0"

7/11/2024 1:08:34 PM Autodesk Docs:\Pamlico High School 6-122205 - Pamlico HS - ARCH.rvt

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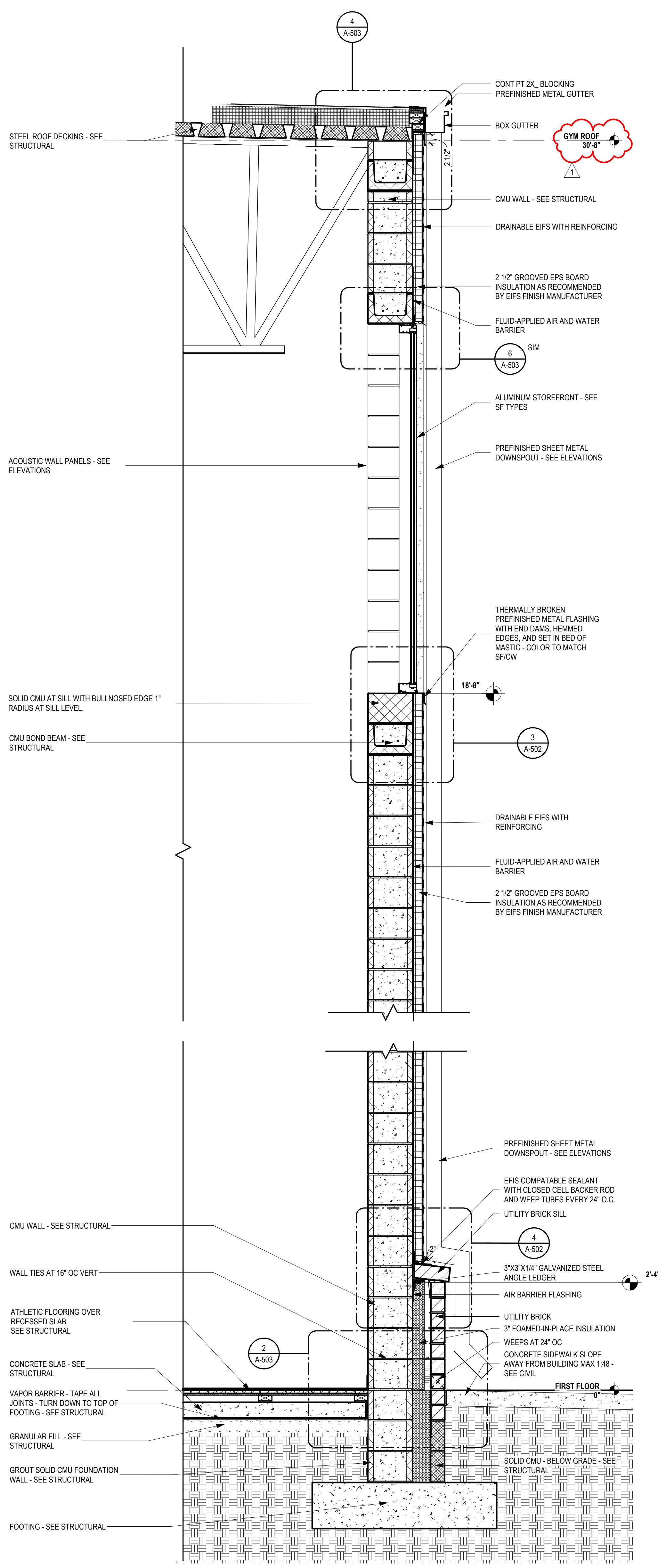


1	07/10/2024	Rev Addendum 2
No.	Date	Description
ISSUE DATE:	06/12/24	
PROJECT #:	2205	
DRAWN BY:	MK	
CHECKED BY:	MK	

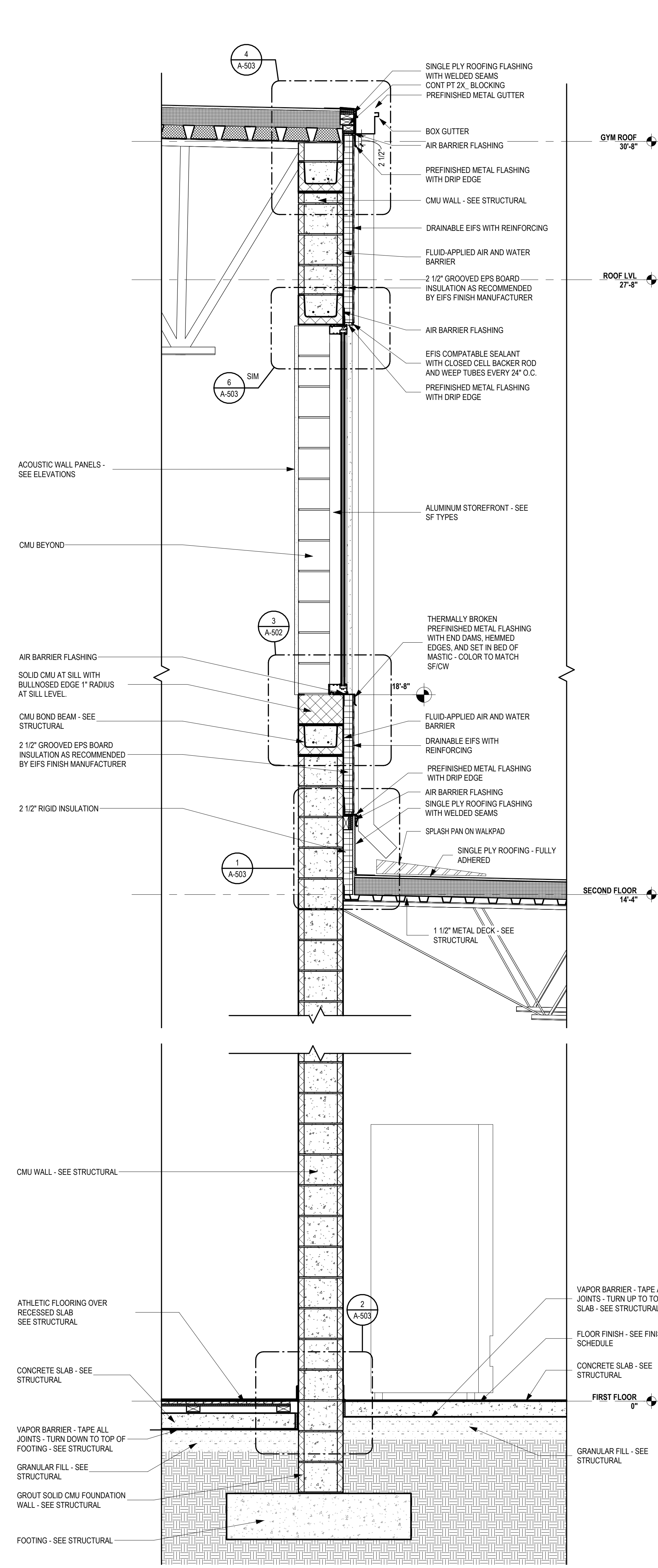
WALL SECTIONS

A-313

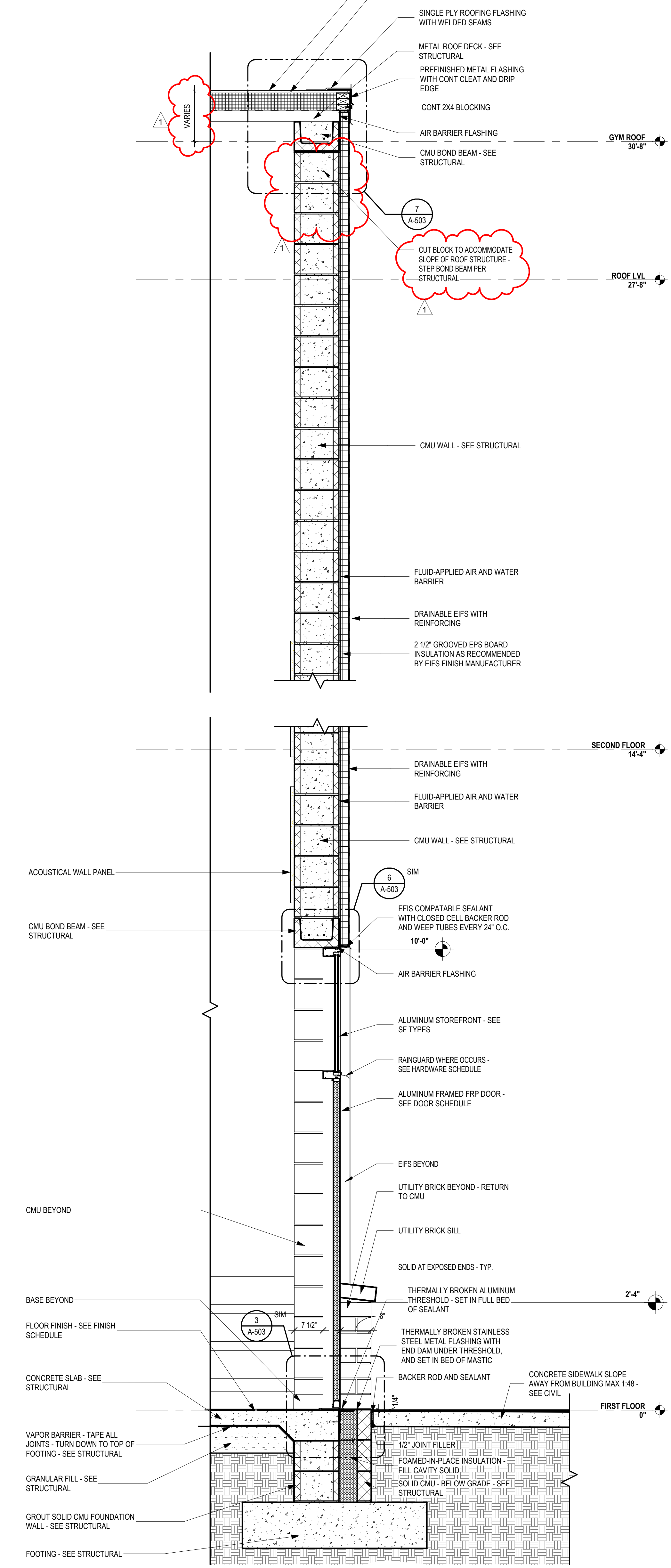
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3 TYP. GYM WALL WITH STOREFRONT
SCALE: 3/4" = 1'-0"

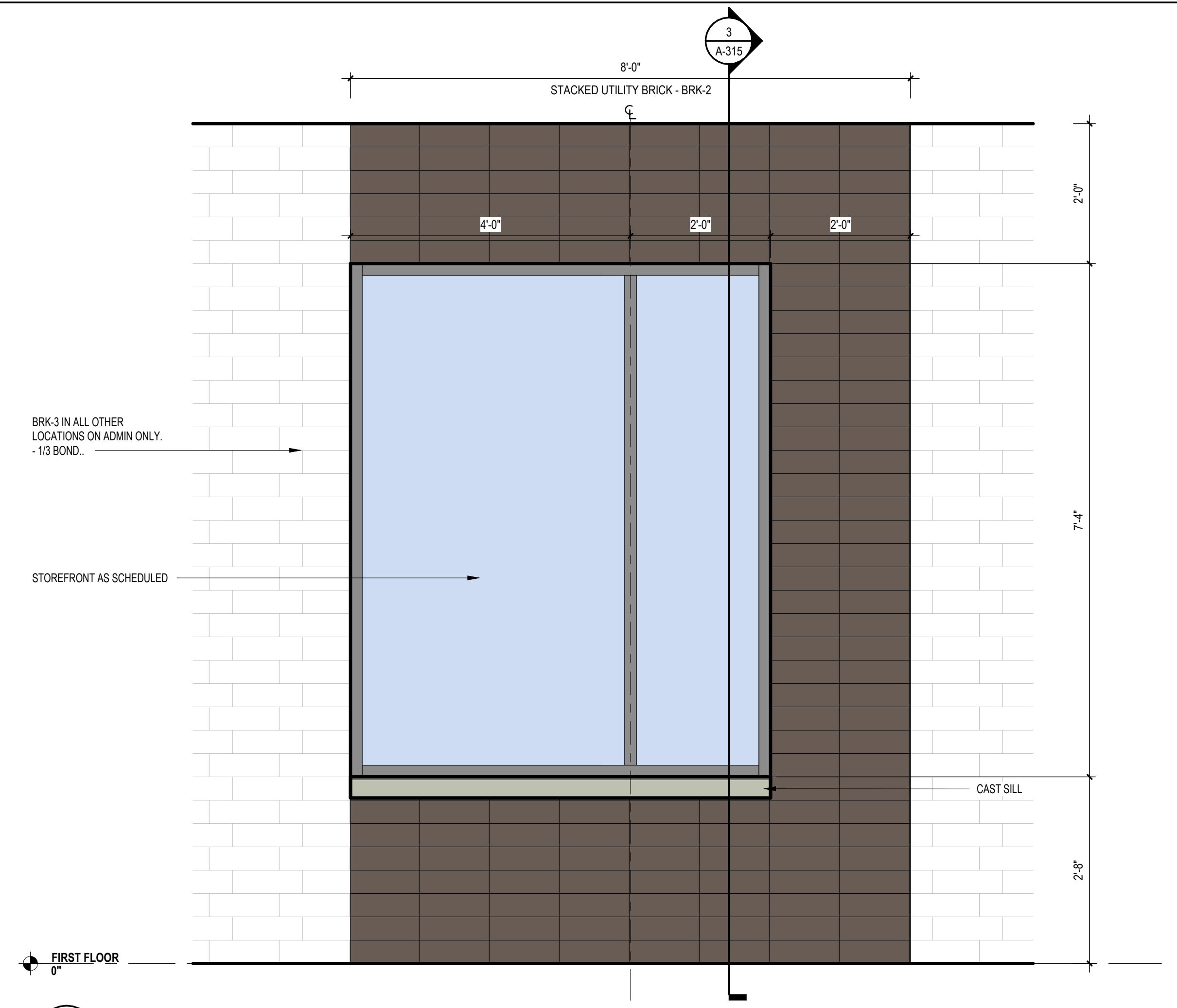


2 TYPICAL GYM @ LOW ROOF
SCALE: 3/4" = 1'-0"

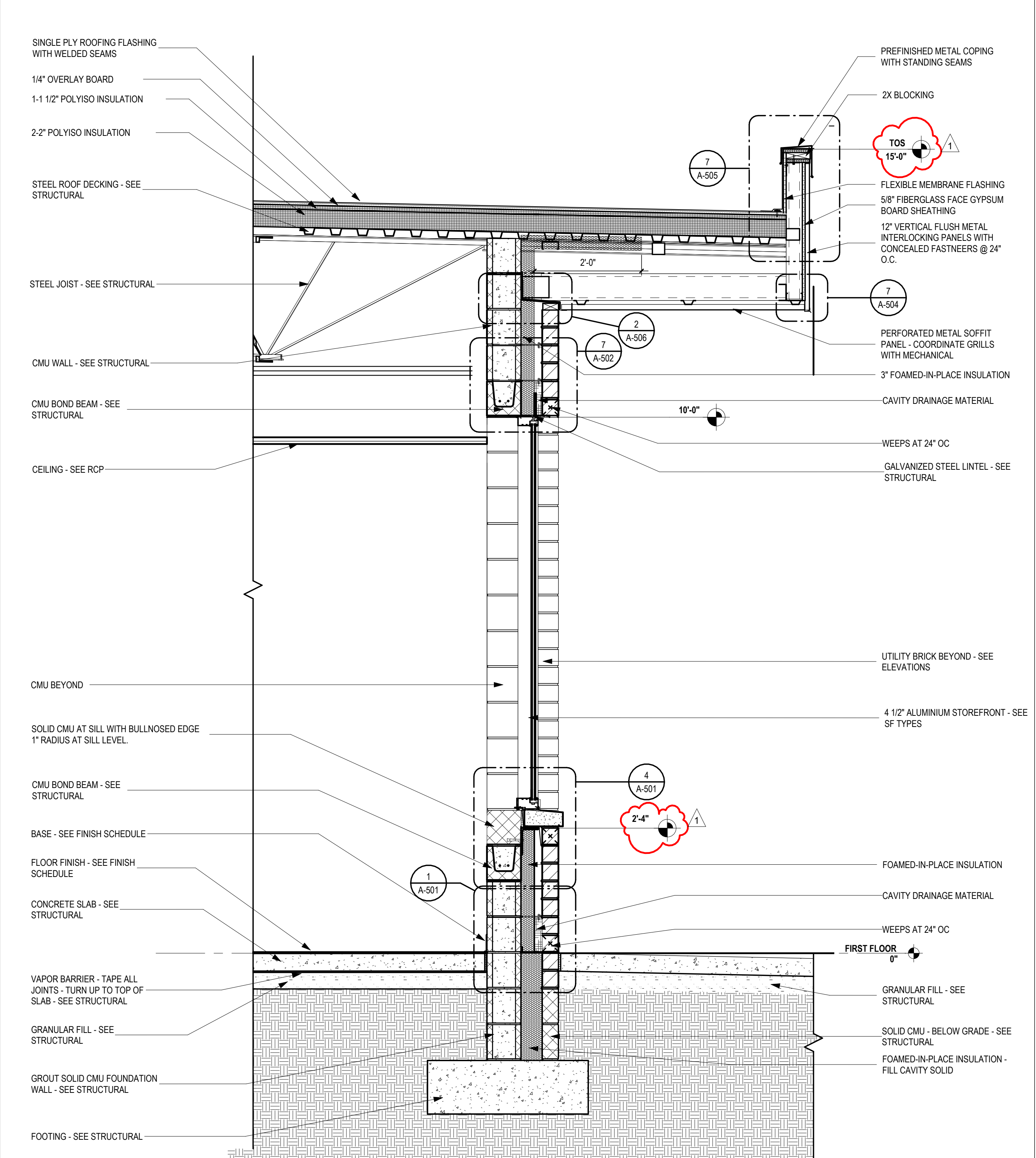


1 MIDDLE SCHOOL GYM EXIT DOOR
SCALE: 3/4" = 1'-0"

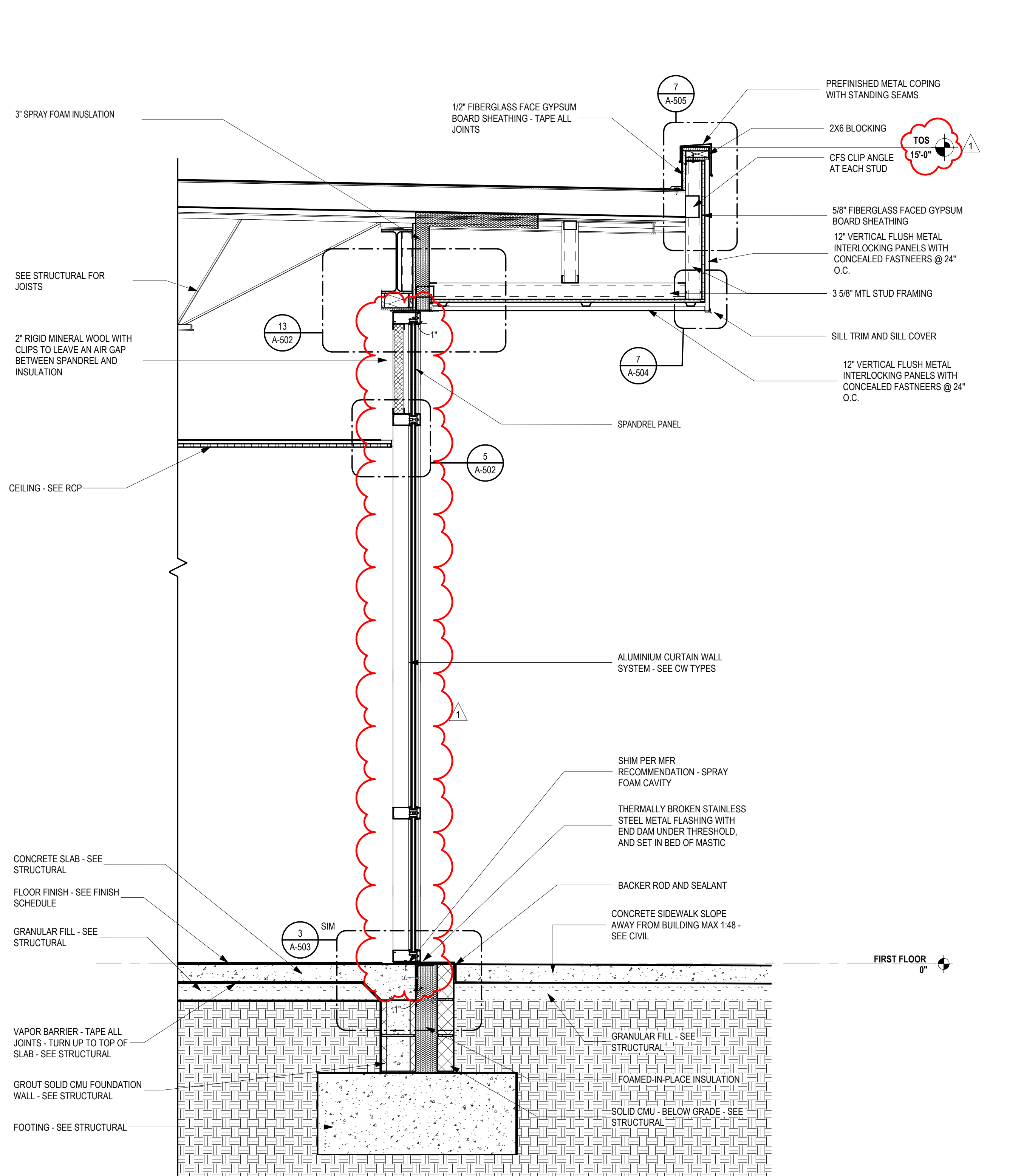
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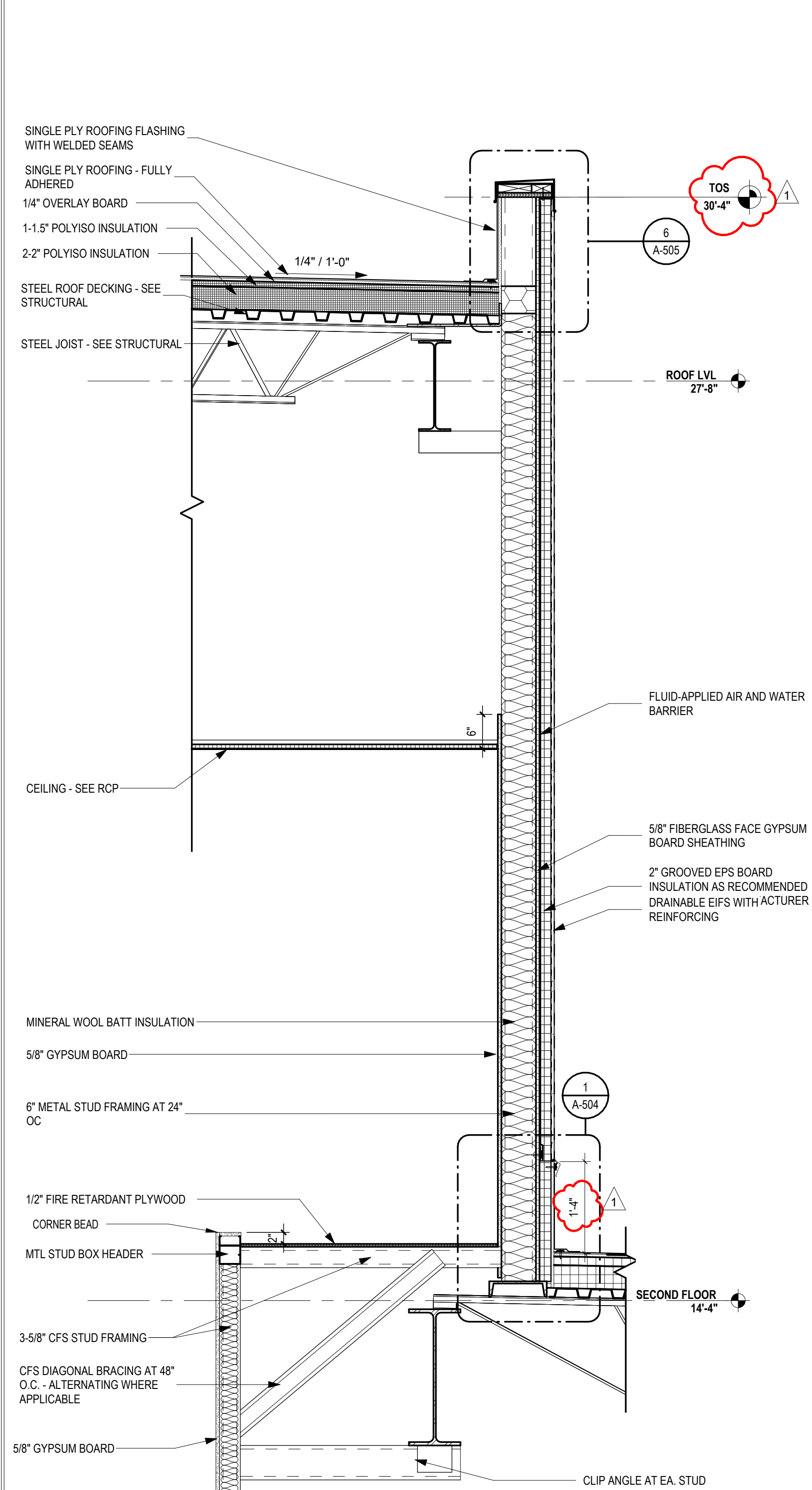
4 **TYPICAL ADMIN MASONRY DETAIL**
A-315 SCALE: 3/4" = 1'-0"



3 **ADMIN MASONRY WALL WITH OVERHANG**
A-315 SCALE: 3/4" = 1'-0"

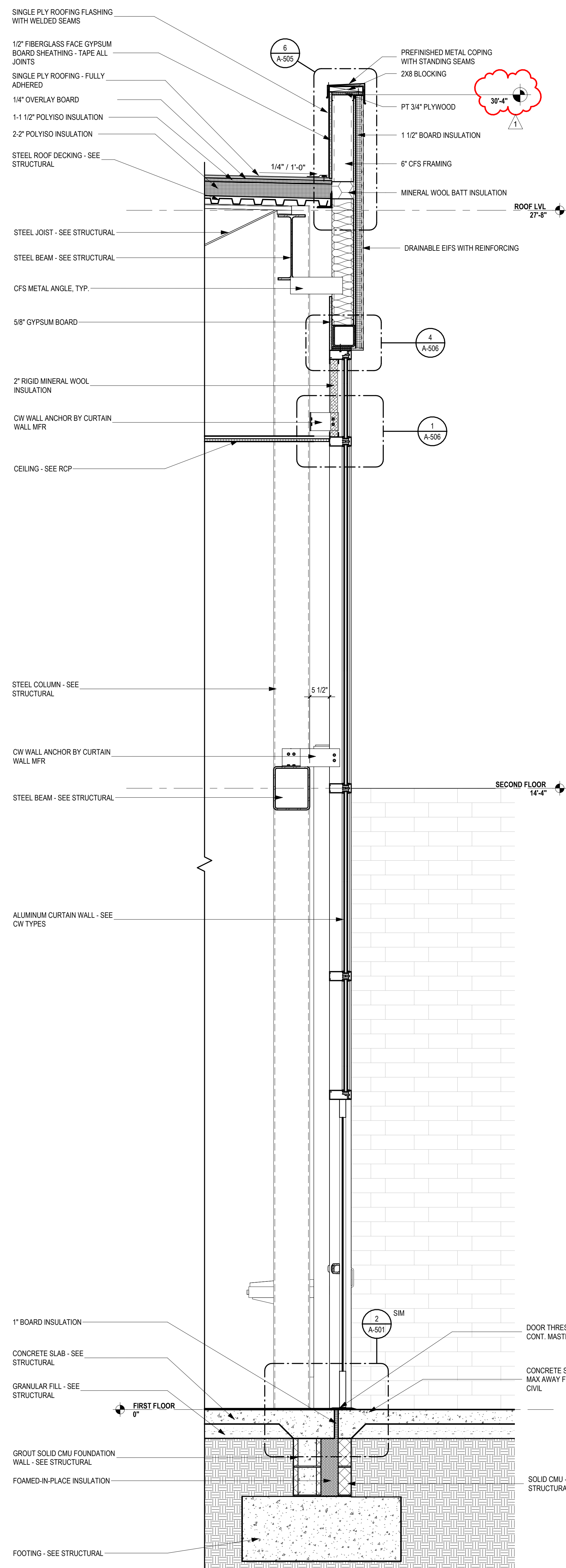


2 **ADMIN RECEPTION GLAZING WITH OVERHANG**
A-315 SCALE: 3/4" = 1'-0"

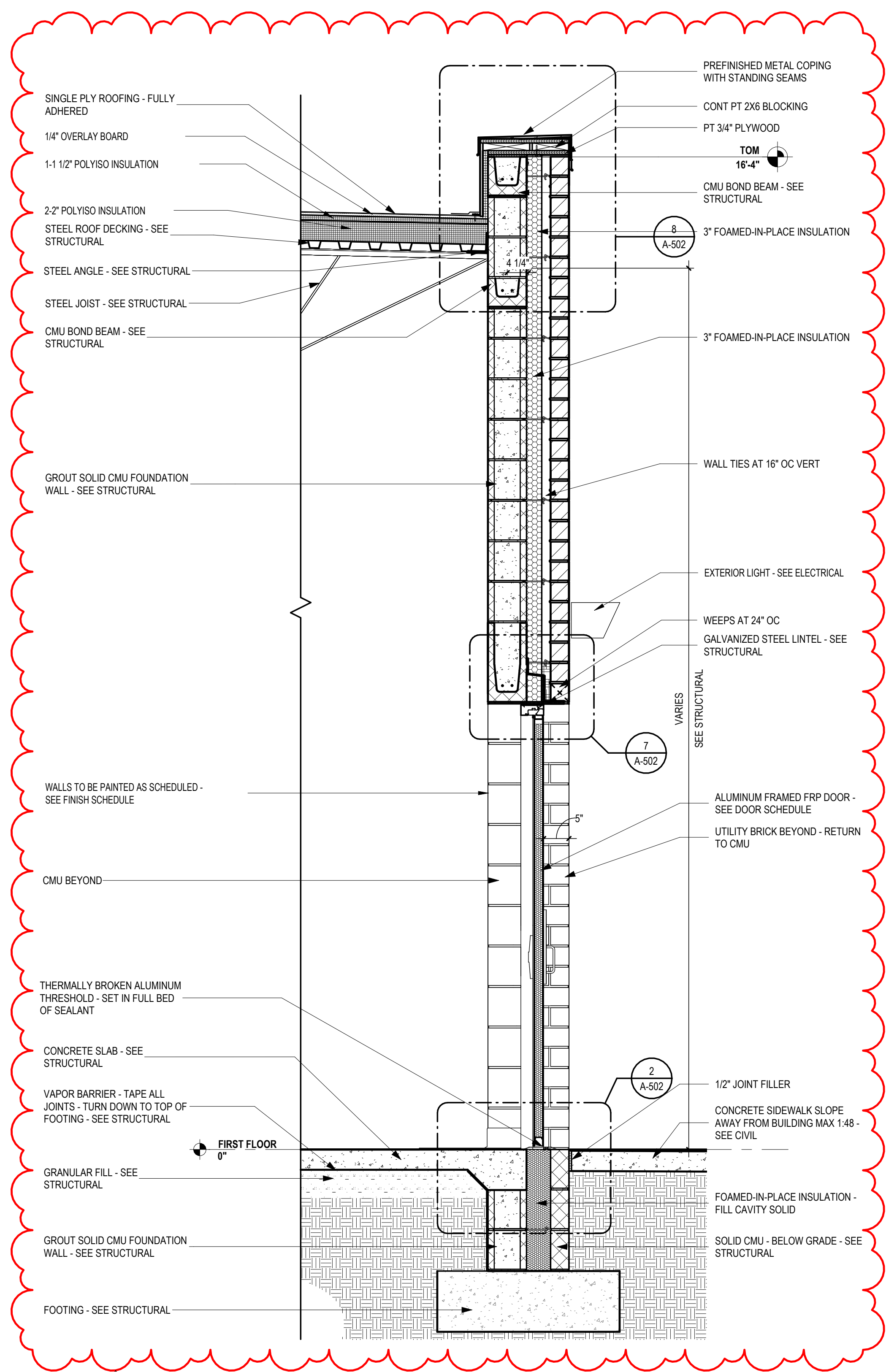


1 **LOBBY WALL OVER ADMIN ENTRY**
A-315 SCALE: 3/4" = 1'-0"

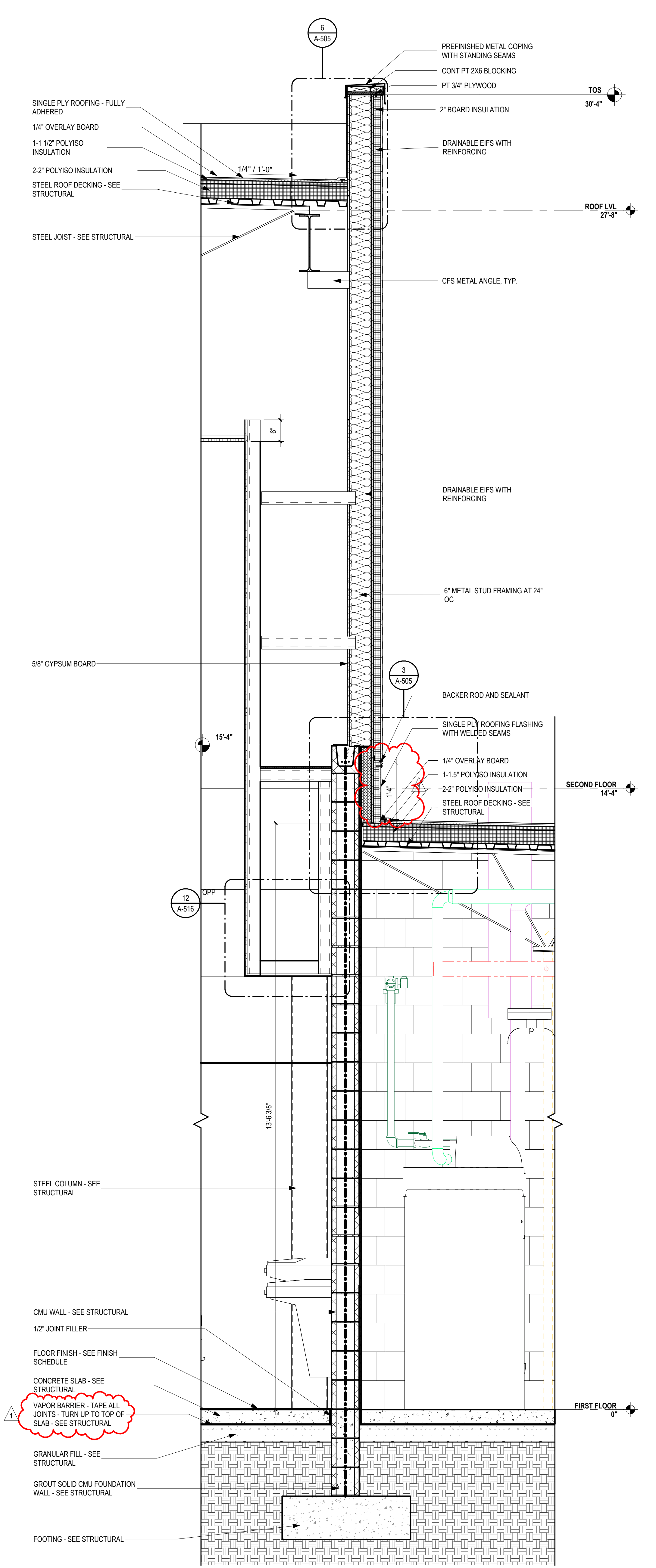
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3 DINING CURTAIN WALL AND OUTDOOR DINING CANOPY
A-316 SCALE: 3/4" = 1'-0"



2 TYP. SINGLE STORY MASONRY WALL @ DOOR
A-316 SCALE: 3/4" = 1'-0"



1 DINING / PUMP ROOM WALL SECTION
A-316 SCALE: 3/4" = 1'-0"

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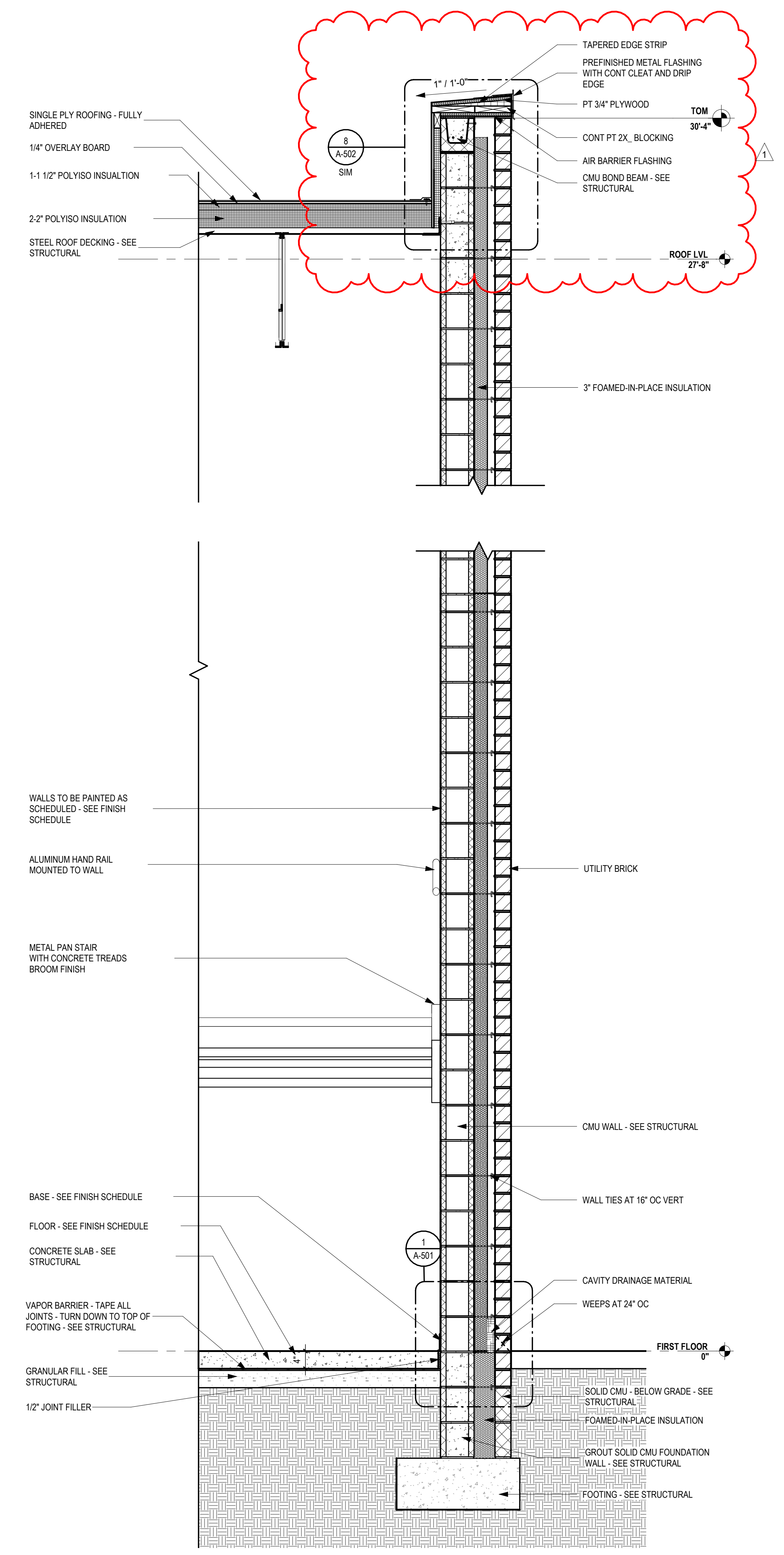
1	07/10/2024	Rev Addendum 2
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WALL SECTIONS

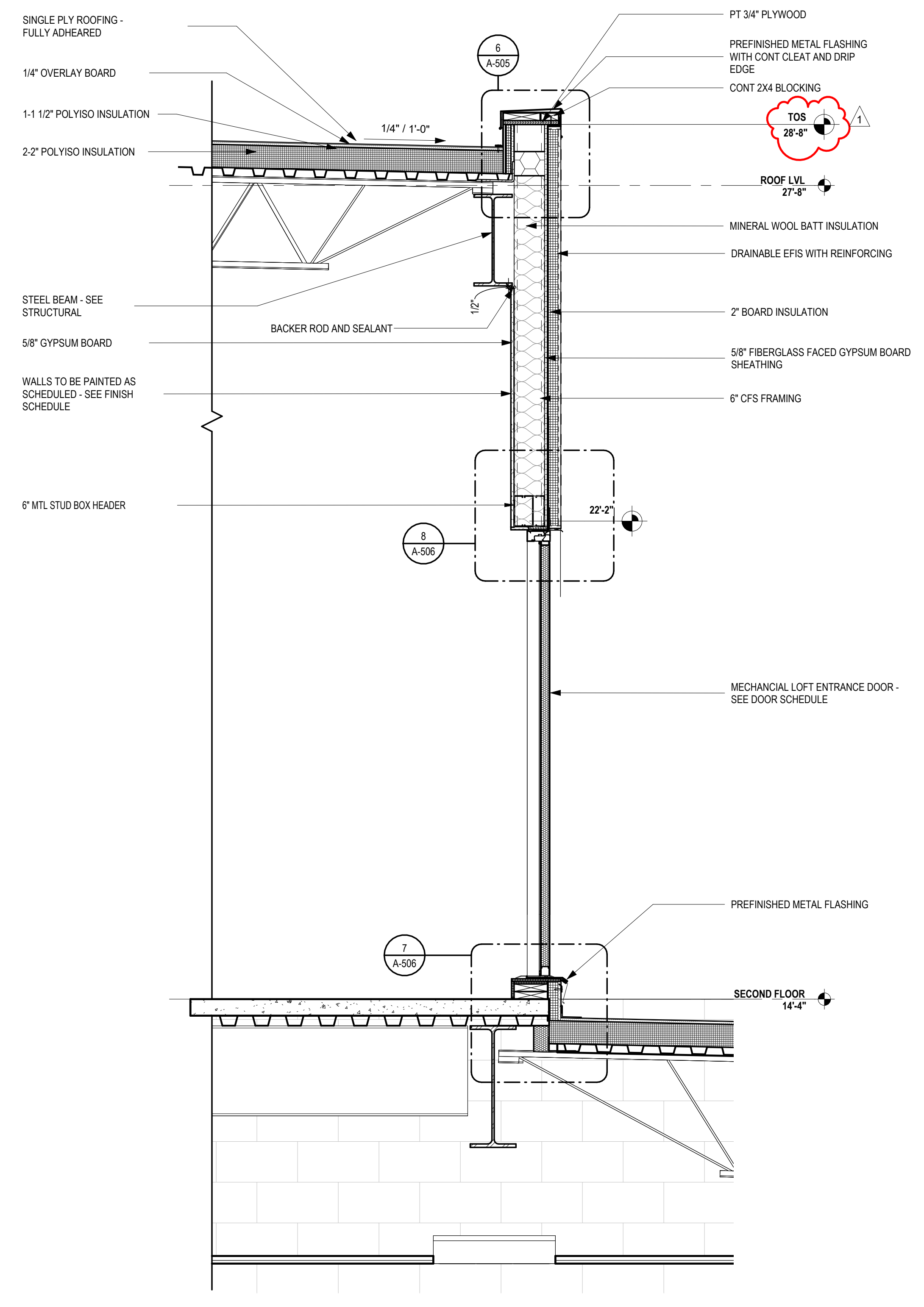
A-316

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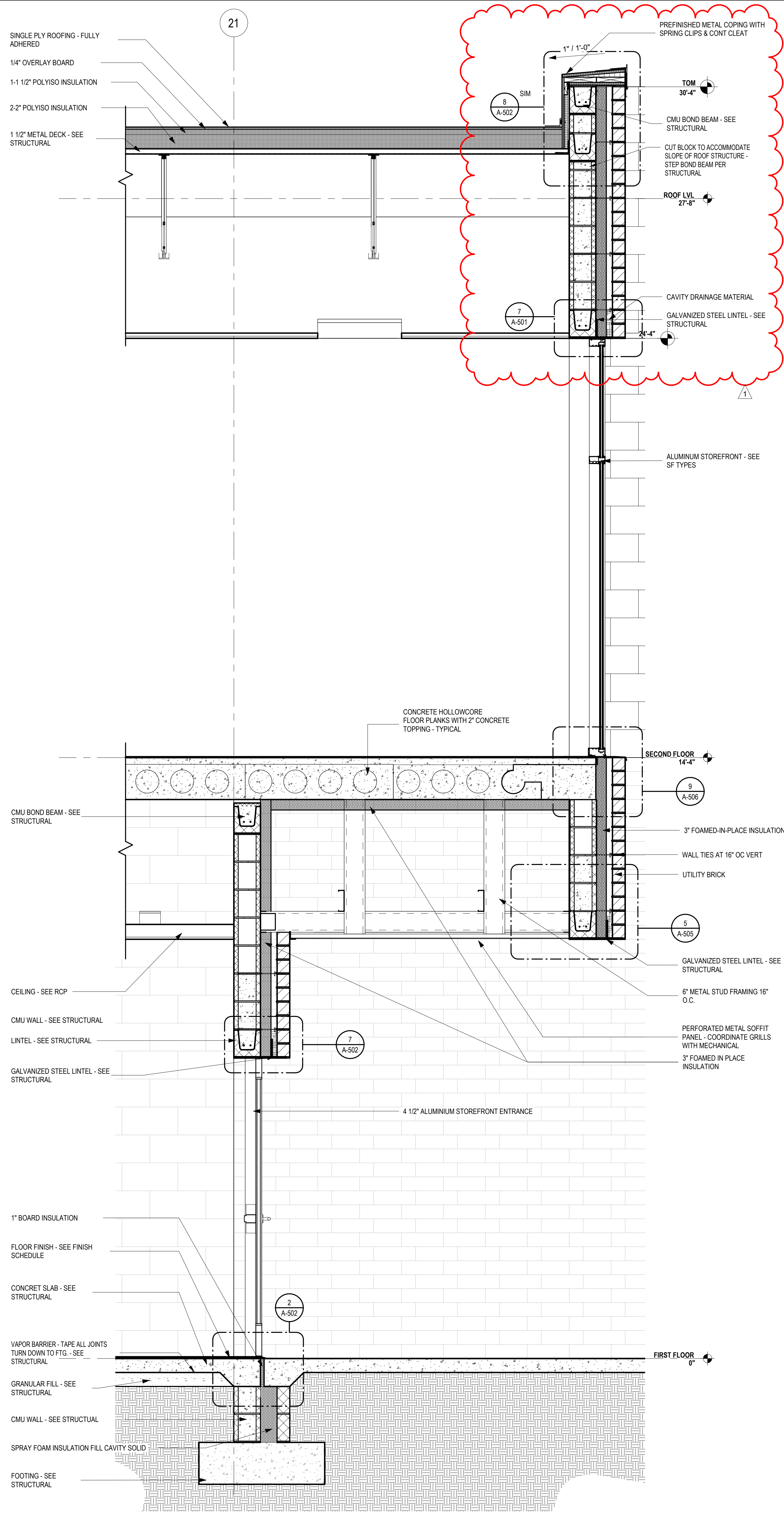
No.	Date	Description
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ISSUE DATE: 06/12/24		
PROJECT #:		2205
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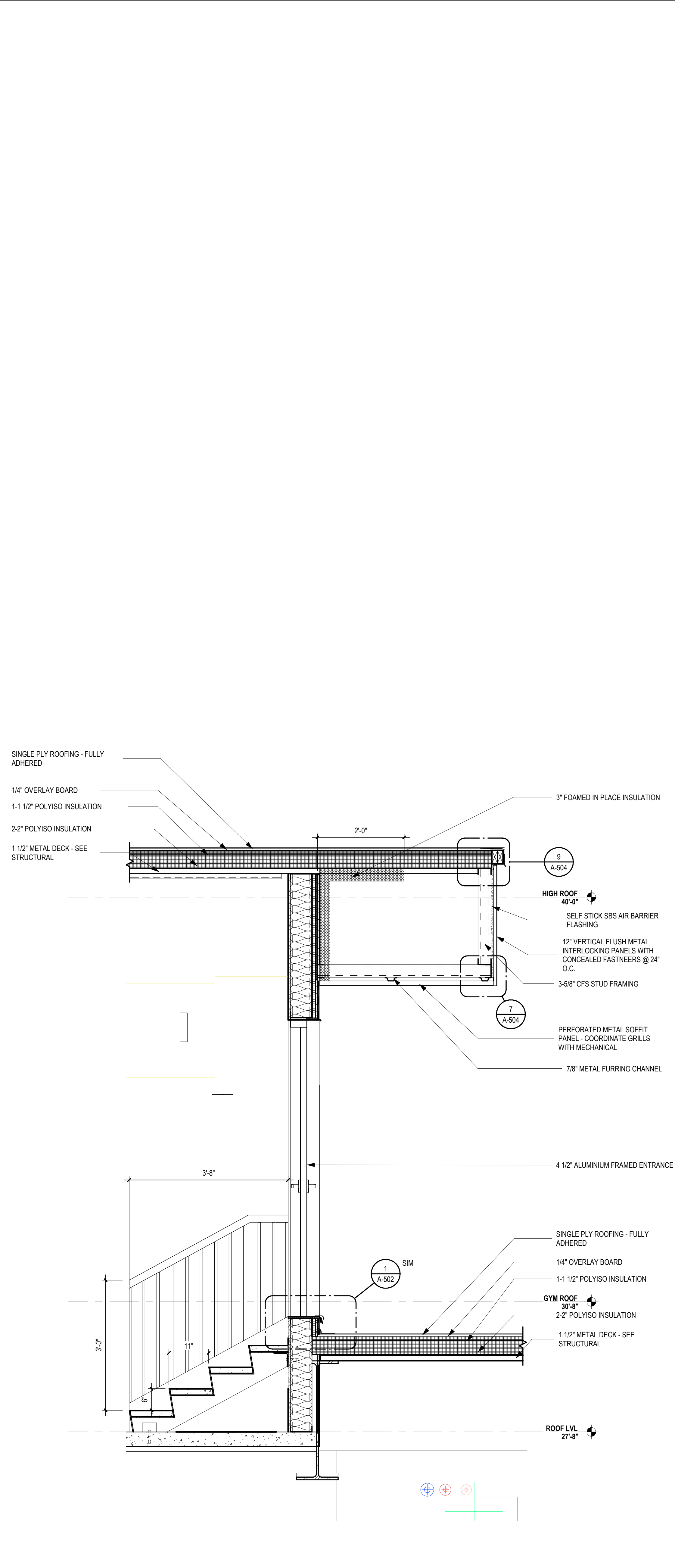
1 TYP. EGRESS STAIR WALL
SCALE: 3/4" = 1'-0"



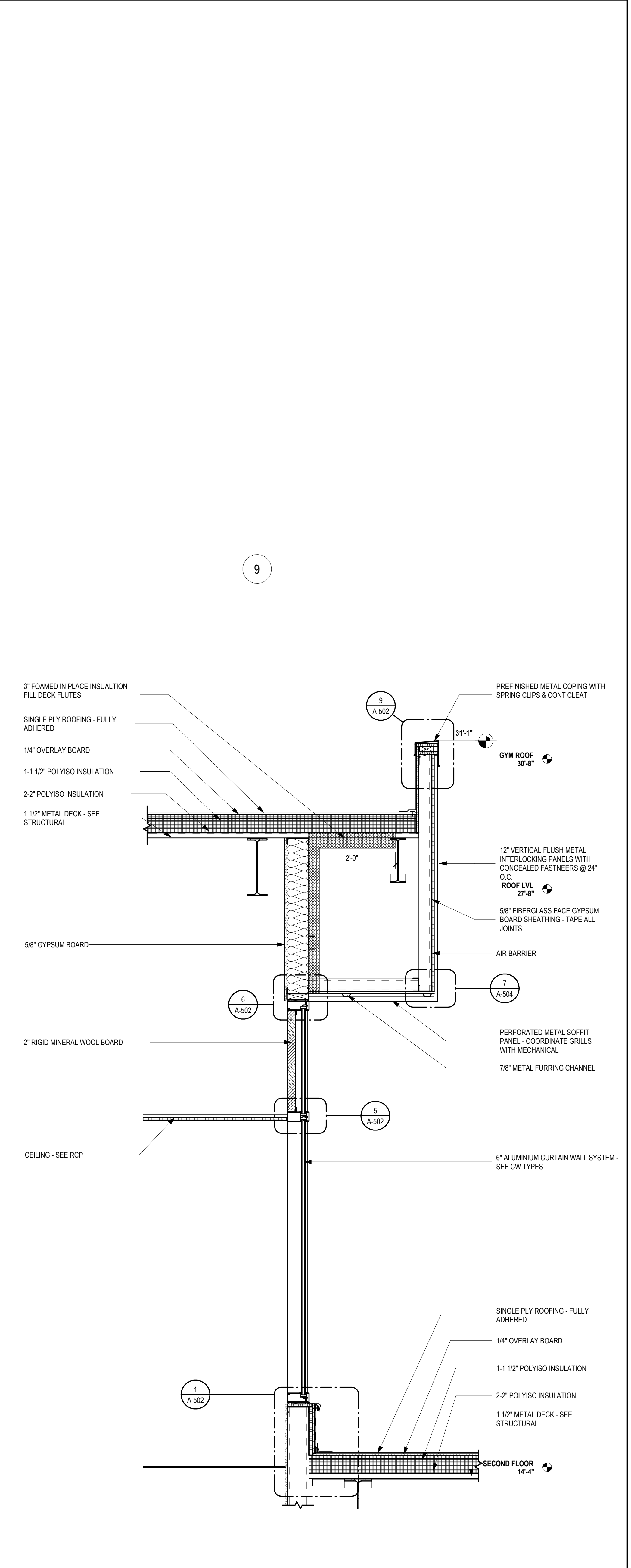
2 MECHANICAL LOFT @ DOOR
SCALE: 3/4" = 1'-0"



3 EAST SIDE ENTRY
 A-318 SCALE: 3/4" = 1'-0"



2 TYP MECH. LOFT ROOF ACCESS DOOR
 A-318 SCALE: 3/4" = 1'-0"



1 ENTRY VESTIBULE GLAZING @ ADMIN ROOF
 A-318 SCALE: 3/4" = 1'-0"

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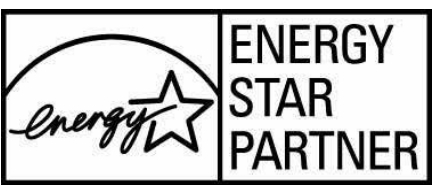
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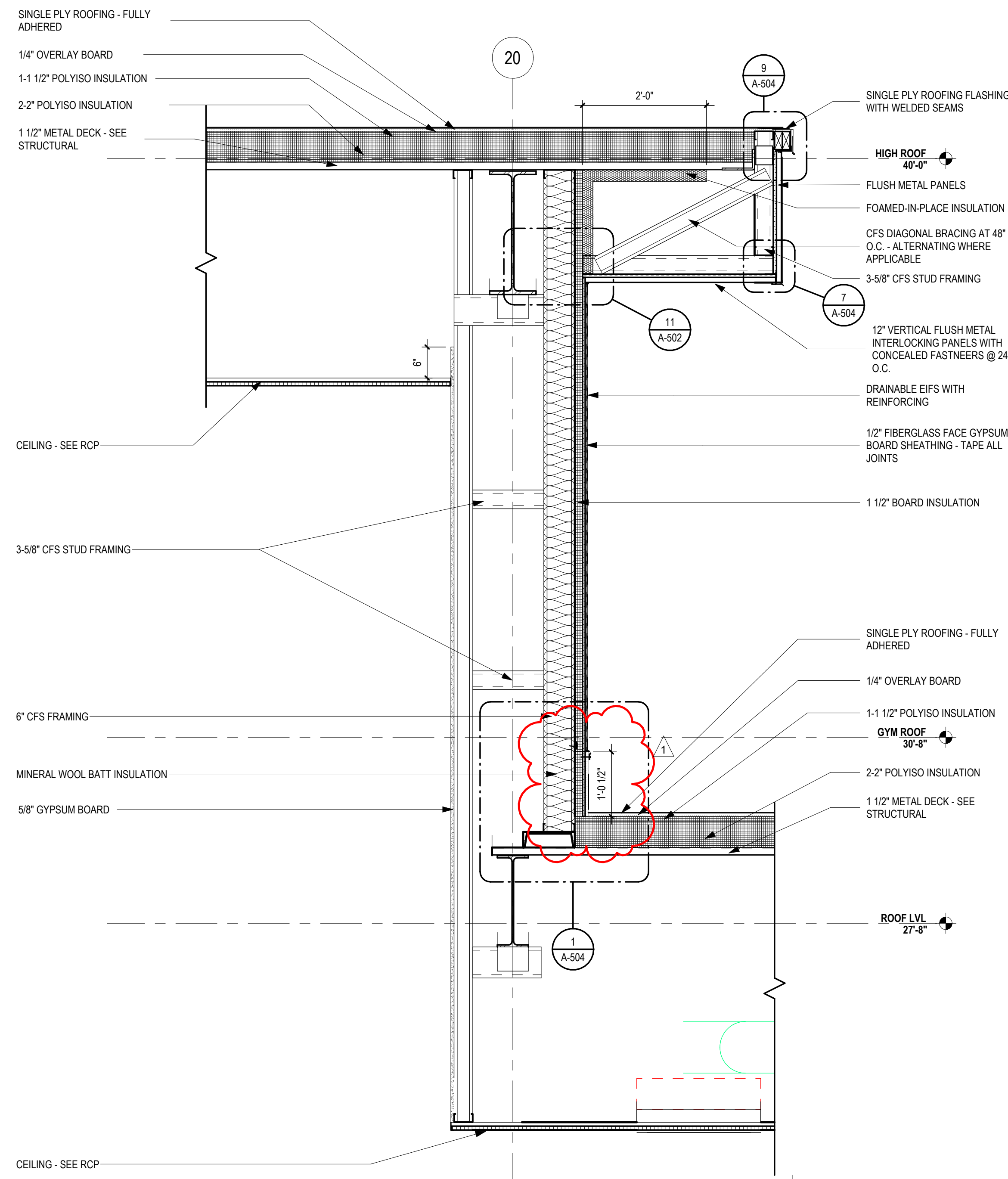


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No.	Date	Description
ISSUE DATE: 06/12/24		
PROJECT #: 2205		
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CHECKED BY: MK		

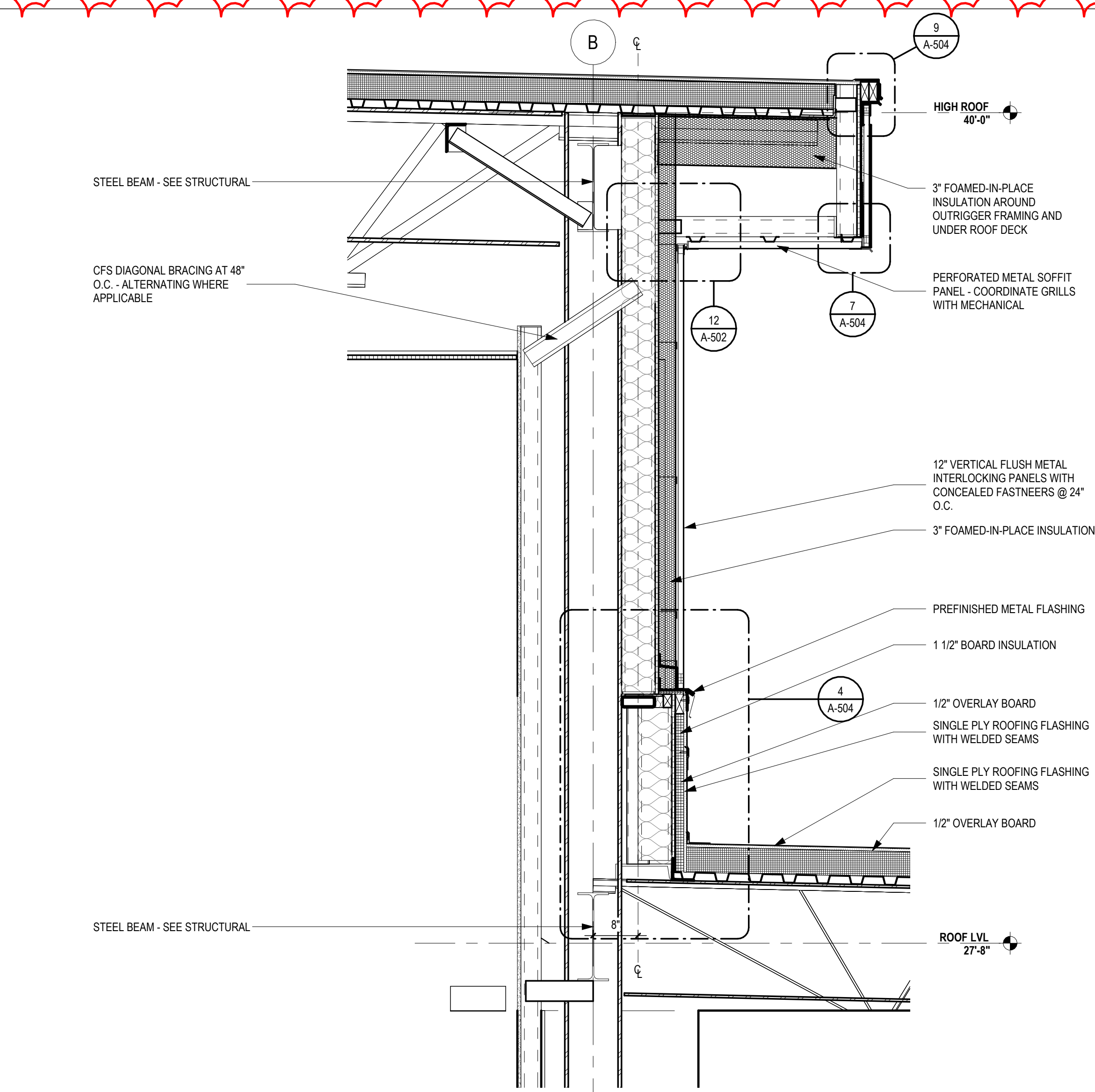
WALL SECTIONS

A-318

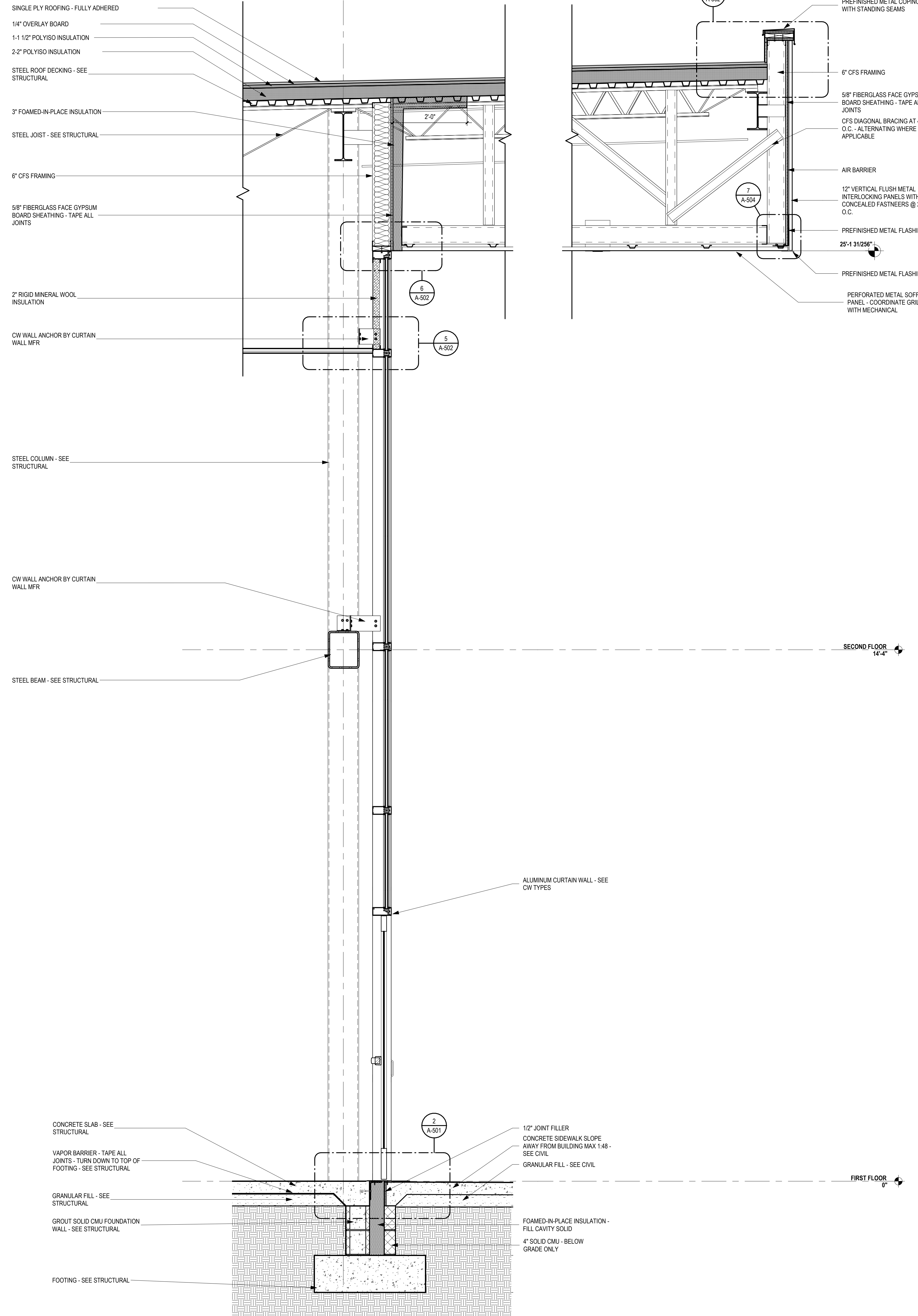
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3 CLERESTORY - EAST - WALL SECTION @ EFIS END WALL
 SCALE: 3/4" = 1'-0"



2 CLERESTORY - @COL. BTW GLAZING
 SCALE: 3/4" = 1'-0"



1 ENTRY CURTAIN WALL AND CANOPY WALL SECTION
 SCALE: 3/4" = 1'-0"

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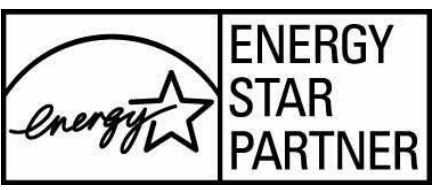
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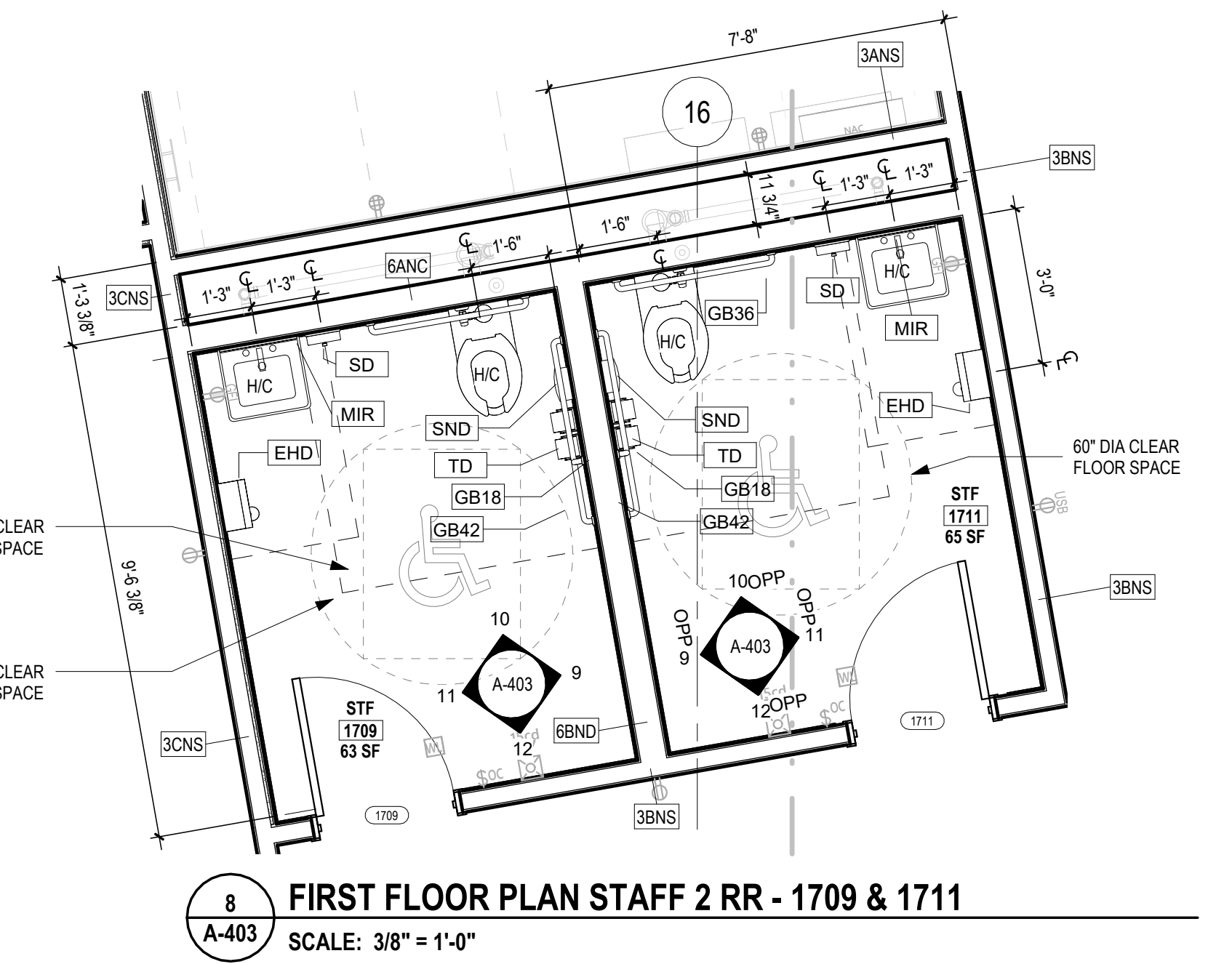
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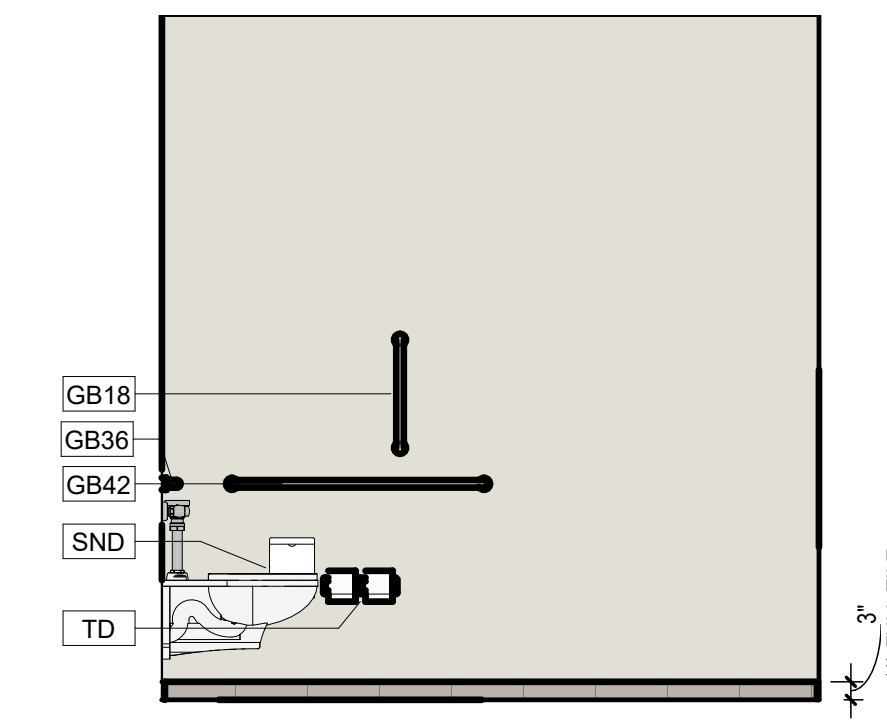
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PROJECT #: 2205		
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WALL SECTIONS

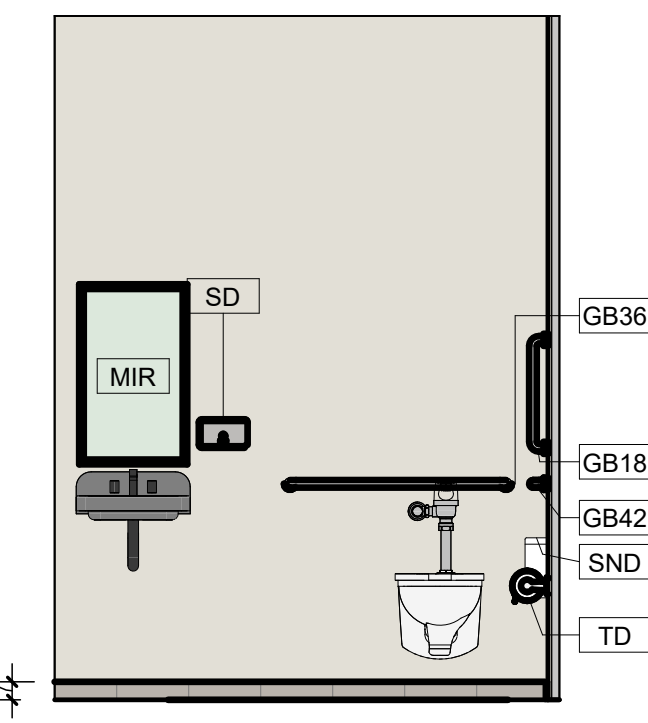
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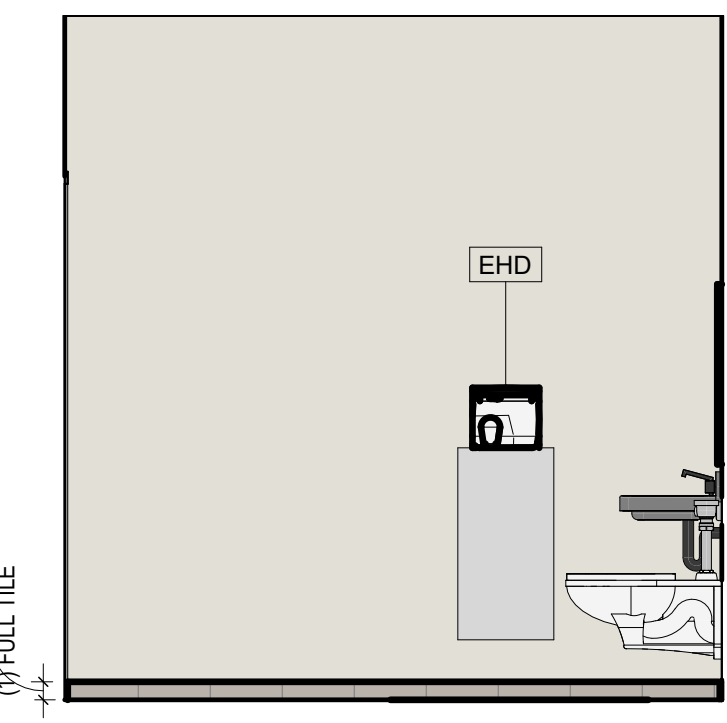
8 **FIRST FLOOR PLAN STAFF 2 RR - 1709 & 1711**
A-403 SCALE: 3/8" = 1'-0"



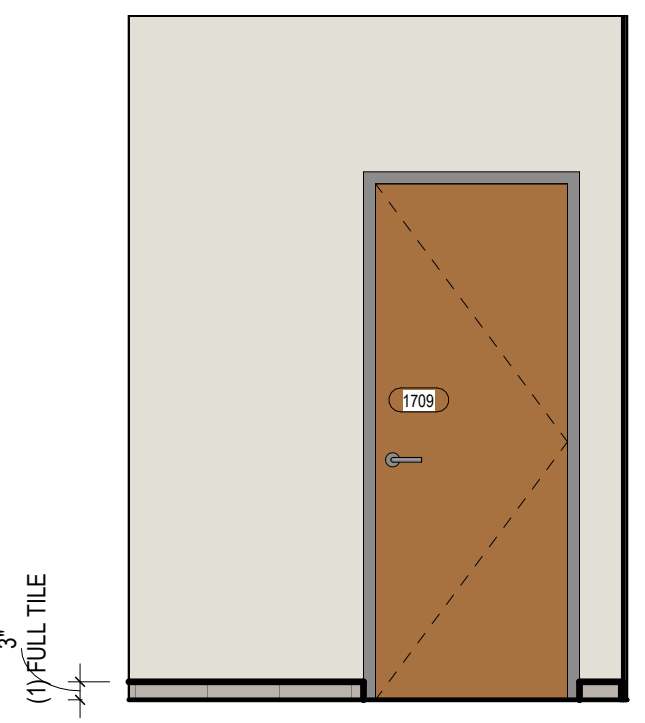
9 **STF 1709 - EAST**
A-403 SCALE: 3/8" = 1'-0"



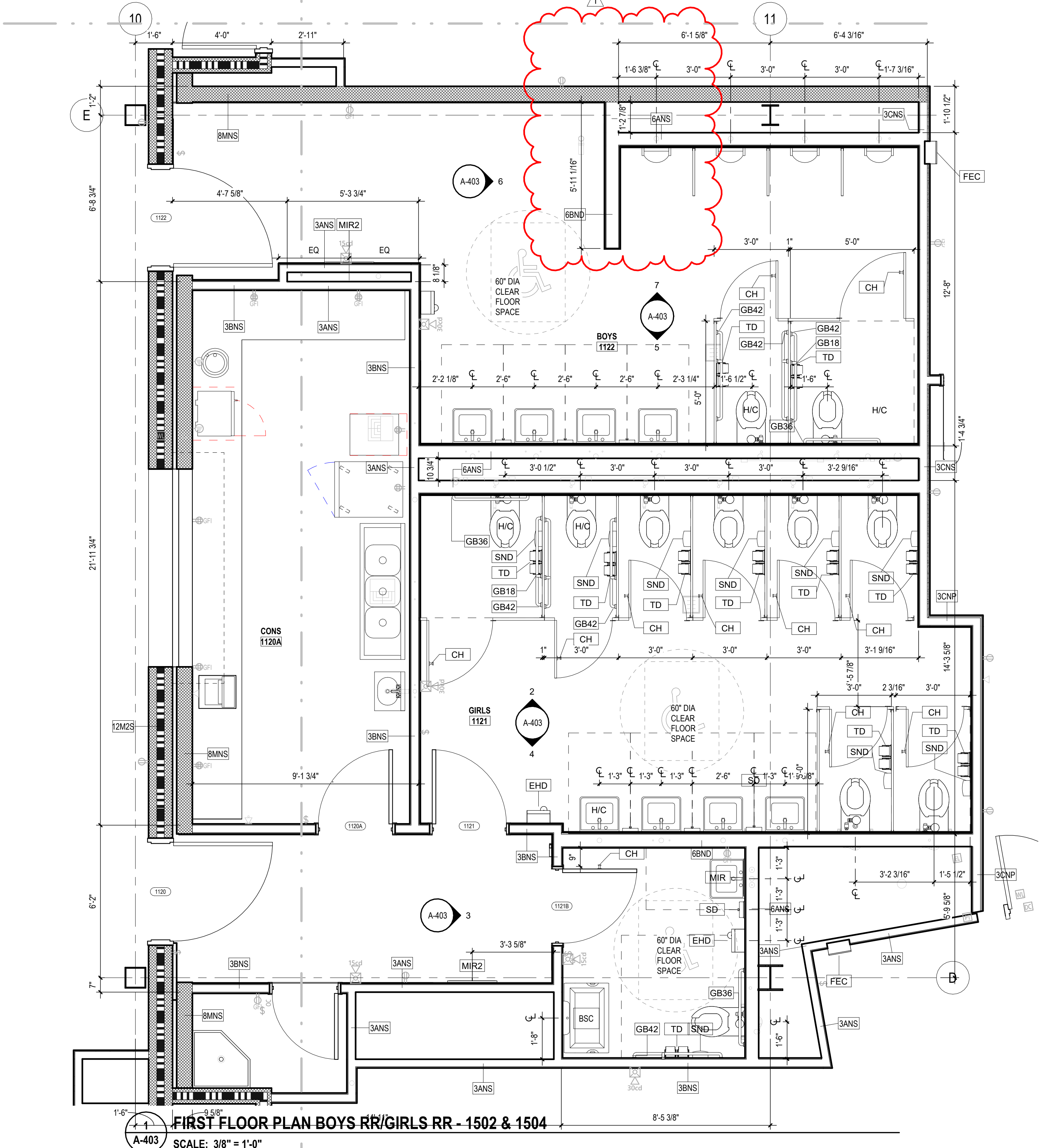
10 **STF 1709 - NORTH**
A-403 SCALE: 3/8" = 1'-0"



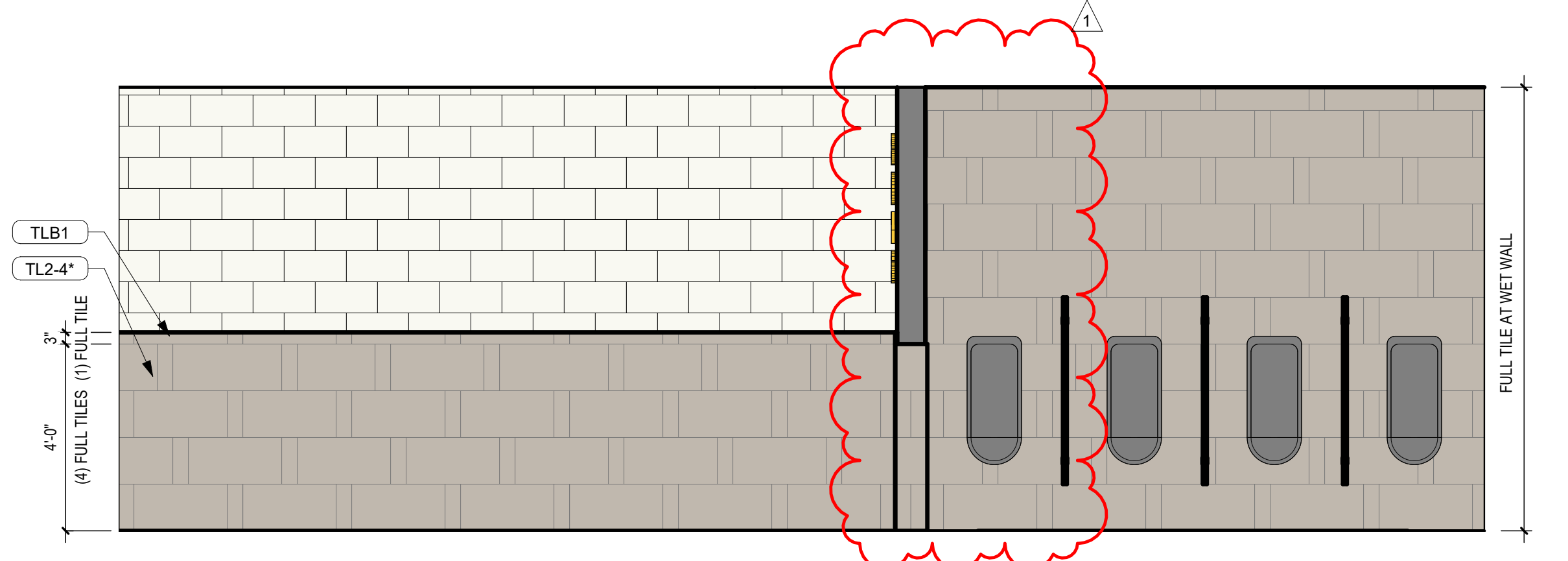
11 **STF 1709 - WEST**
A-403 SCALE: 3/8" = 1'-0"



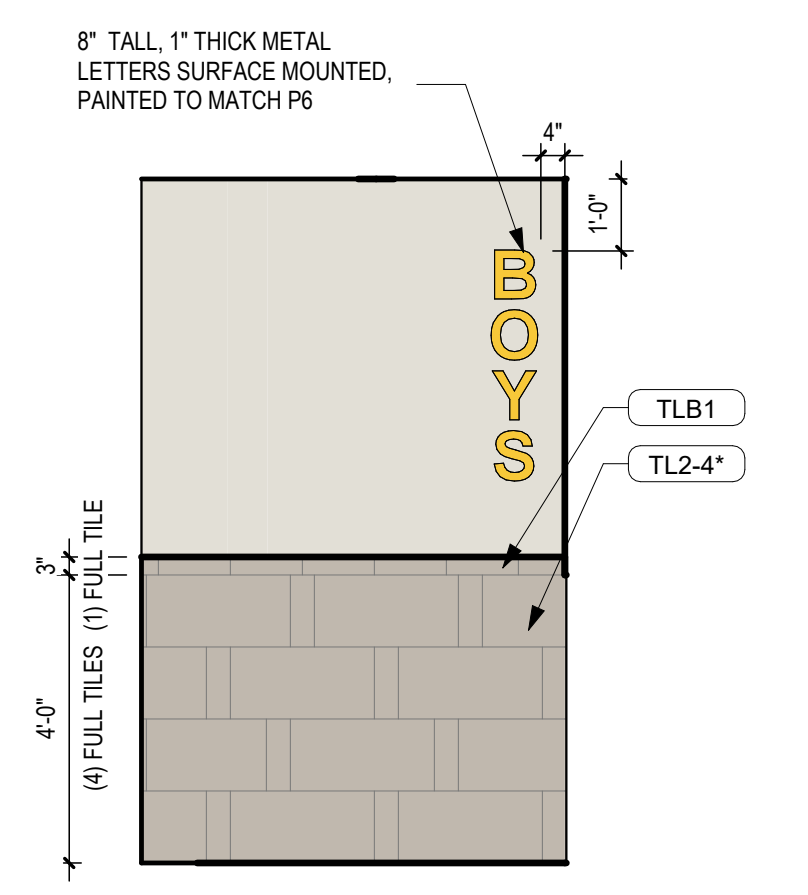
12 **STF 1709 - SOUTH**
A-403 SCALE: 3/8" = 1'-0"



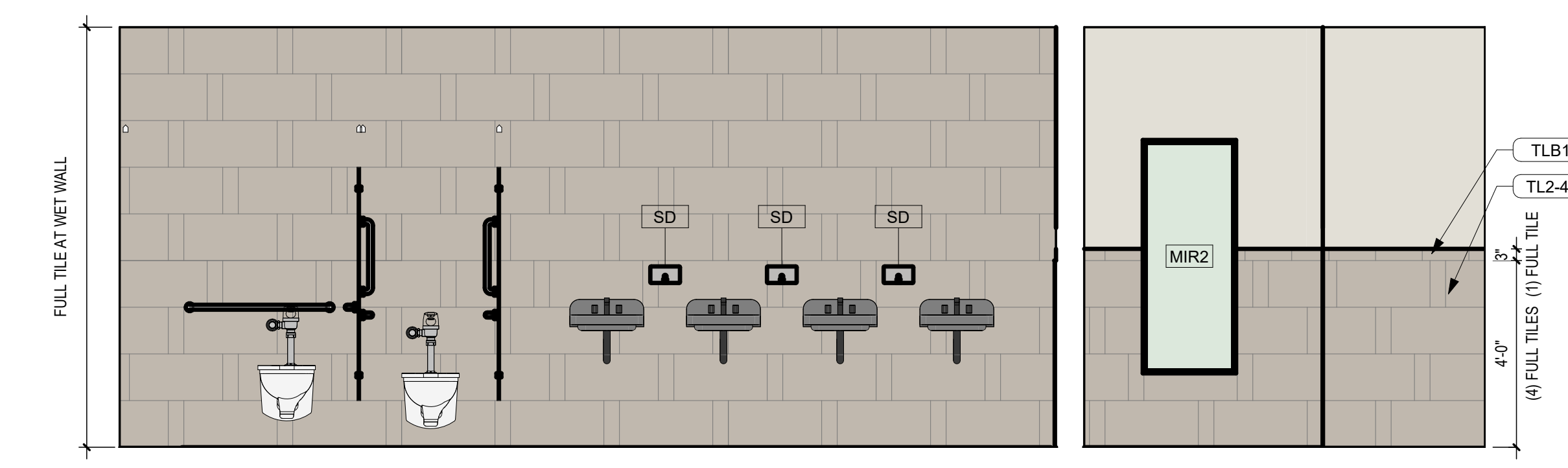
1 **FIRST FLOOR PLAN BOYS RR/GIRLS RR - 1502 & 1504**
A-403 SCALE: 3/8" = 1'-0"



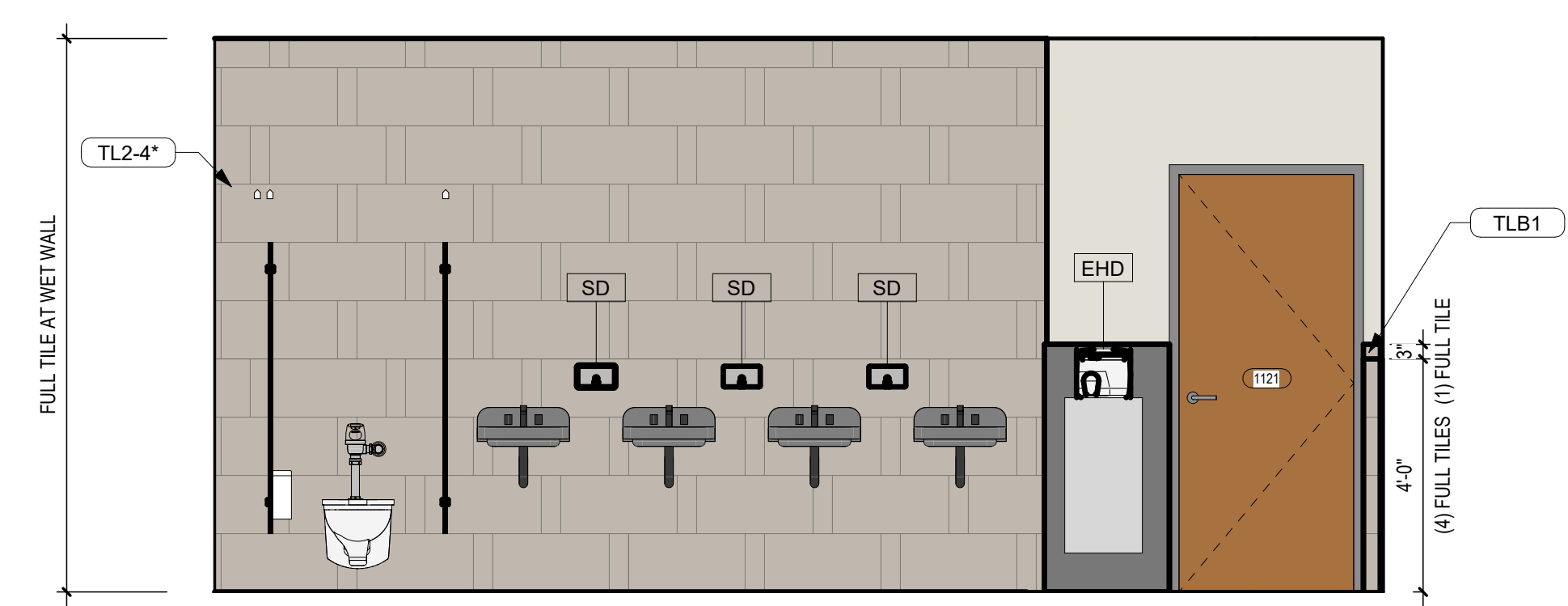
7 **BOYS RR 1122 - NORTH**
A-403 SCALE: 3/8" = 1'-0"



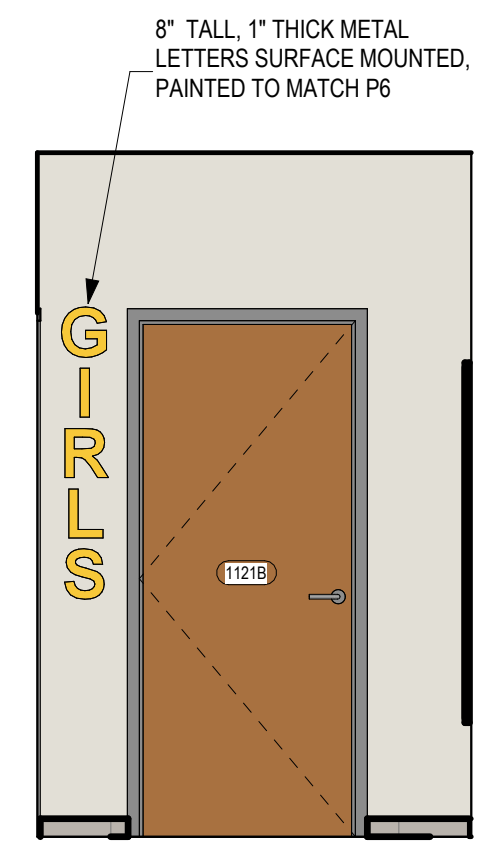
6 **BOYS 1122 - ENTRY**
A-403 SCALE: 3/8" = 1'-0"



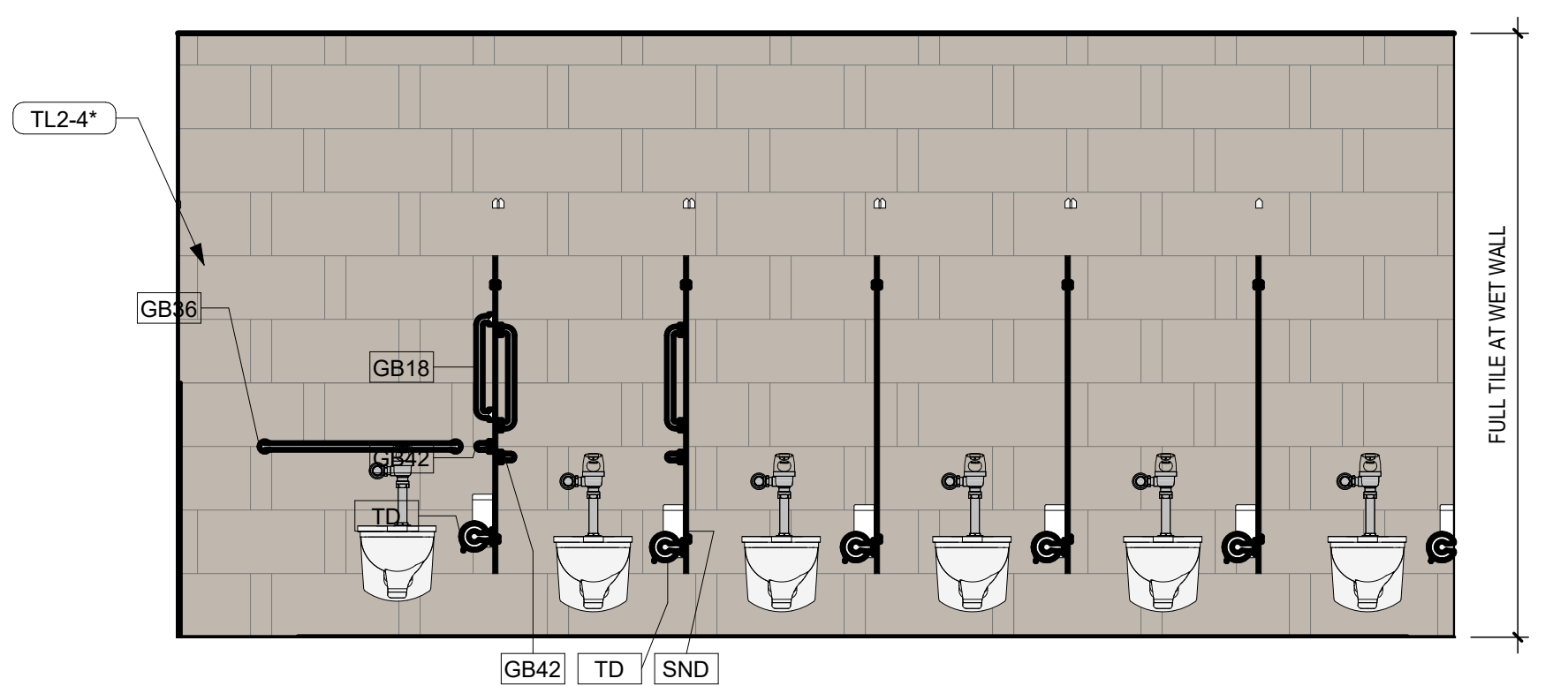
5 **BOYS RR 1122 - SOUTH**
A-403 SCALE: 3/8" = 1'-0"



4 **GIRLS RR 1121 - SOUTH**
A-403 SCALE: 3/8" = 1'-0"



3 **GIRLS 1121 - ENTRY**
A-403 SCALE: 3/8" = 1'-0"



2 **GIRLS RR 1121 - NORTH**
A-403 SCALE: 3/8" = 1'-0"

**ENLARGED SCIENCE LAB PLANS & ELEVATIONS
LEGEND**

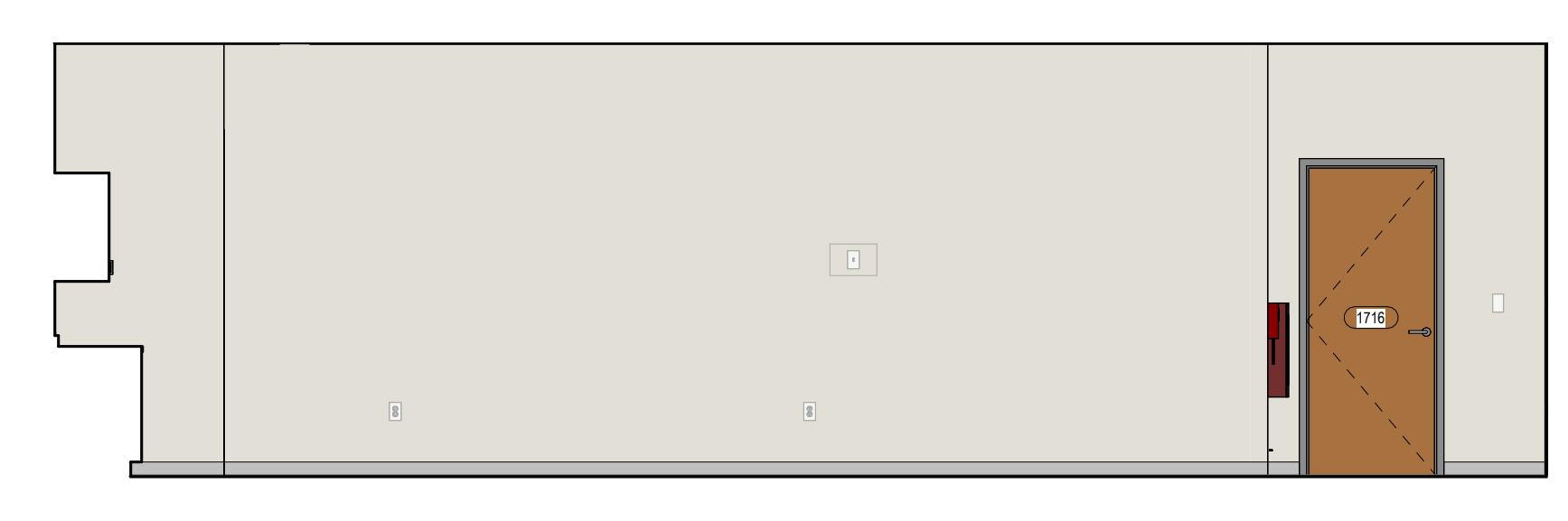
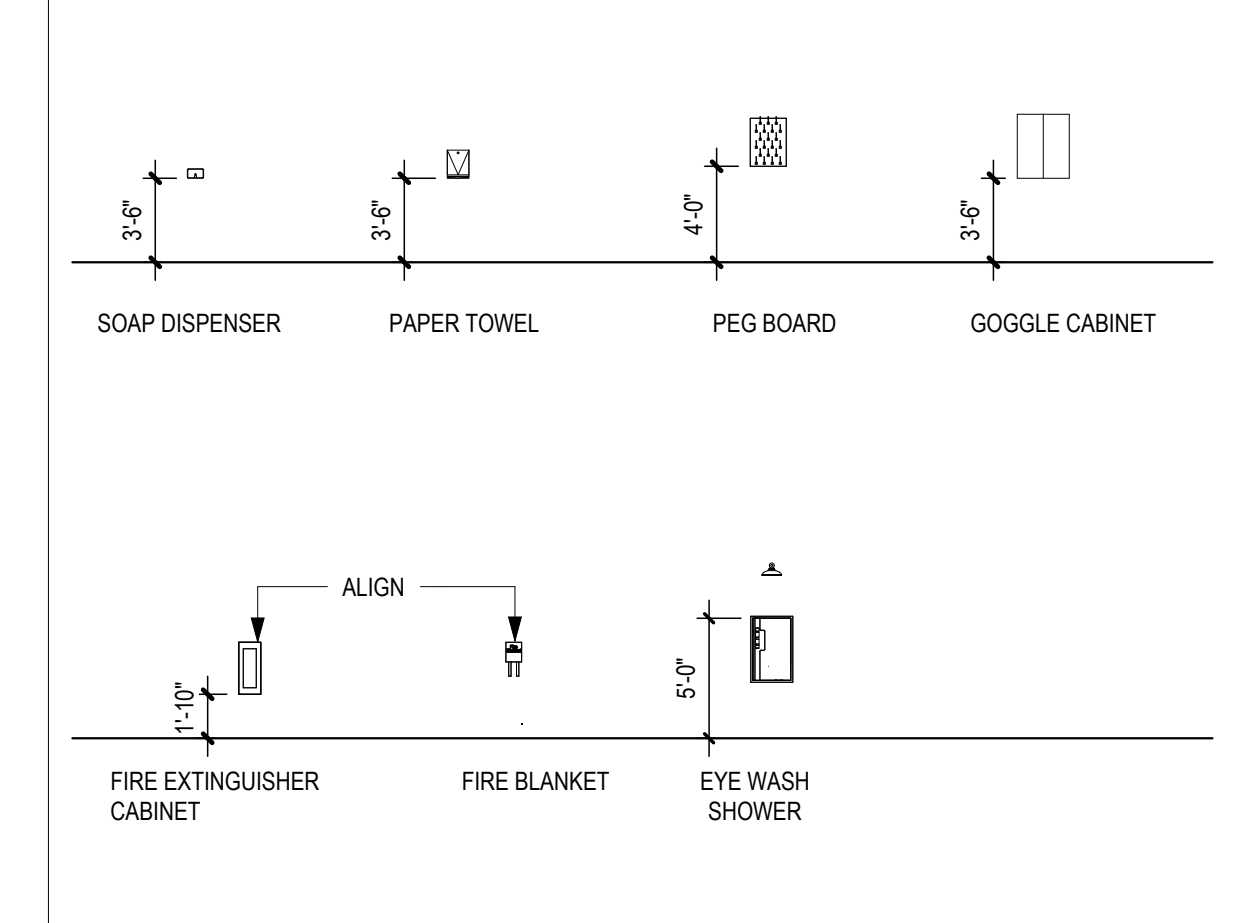
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[Symbol]	1/2 HR RATED TENANT OR CORRIDOR SEPARATION (FIRE PARTITION)
[Symbol]	1/2 HOUR RATED SMOKE PARTITION (INCIDENTAL USE SEPARATION)
[Symbol]	2 HOUR RATED WALL
[Symbol]	3 HOUR RATED WALL
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
Room Name 101A 0000 SF	ROOM TAG

- GENERAL NOTES:**
- ALL SCIENCE EQUIPMENT TO BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE.
 - WOOD CASEWORK UPPER AND LOWER CABINETS AND PHENOLIC RESINOUS COUNTERTOPS TO BE PROVIDED IN CHEMISTRY LAB 1710, PREP RM 1708B, PREP RM 2232B AND MS SCIENCE 2230 ONLY. ALL OTHER SCIENCE LABS TO BE PLASTIC LAMINATE MILLWORK.

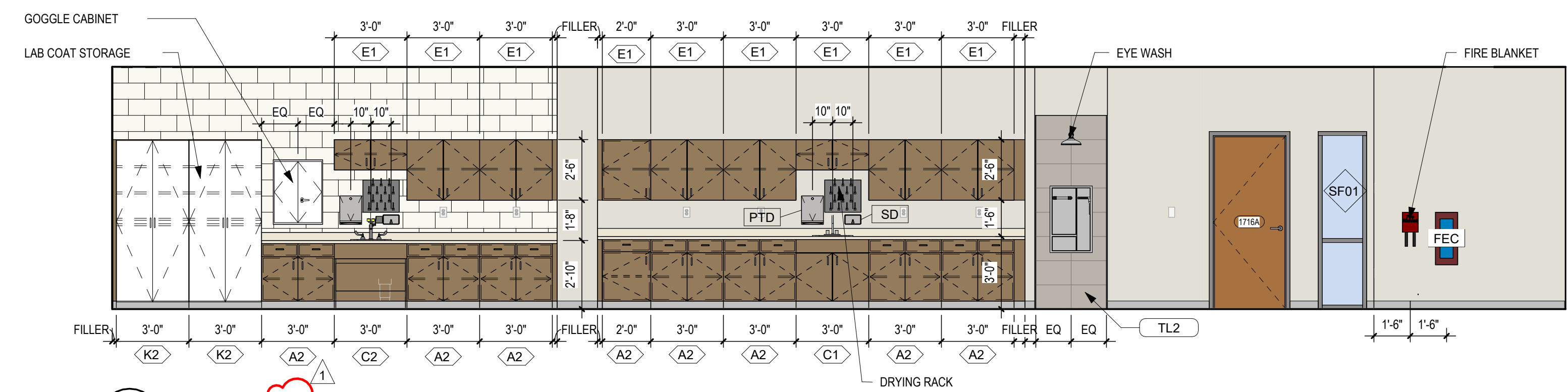
**ENLARGED SCIENCE LAB PLANS & ELEVATIONS
SCHEDULE**

- WALL HOOKS
- FIRE EXTINGUISHER CABINET
- FIRE BLANKET CABINET - BOD: NYSTROM BC-601
- EYE WASH
- FUME HOOD
- FLAMMABLES STORAGE CABINET
- ACID CORROSIVE STORAGE CABINET
- REFRIGERATOR
- DISHWASHER (REF. INTERIOR SIGNAGE DETAILS FOR REOD SIGNAGE)
- GOGGLE CABINET (OFOI)
- DRYING RACK (OFOI)
- TEACHERS DISPLAY (OFOI) PLUMBING, ELECTRIC, AND ACCESSORIES (CFCI)
- LAB COAT STORAGE
- BASE CORROSIVE STORAGE CABINET

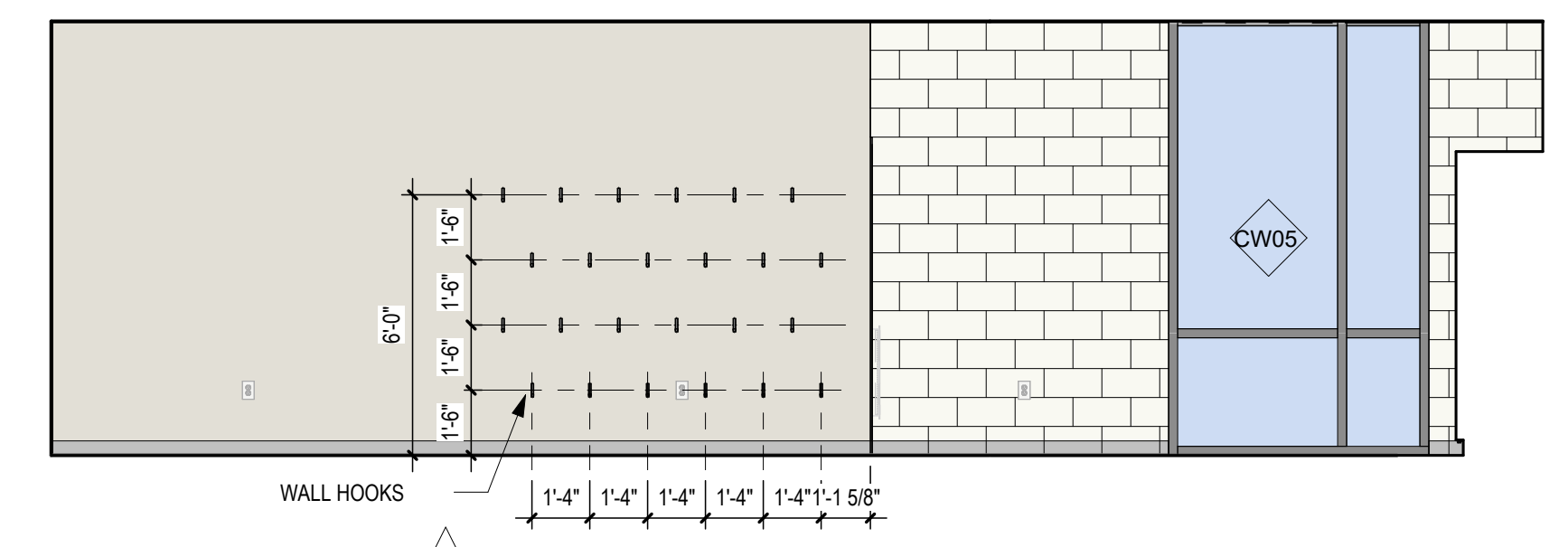
SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



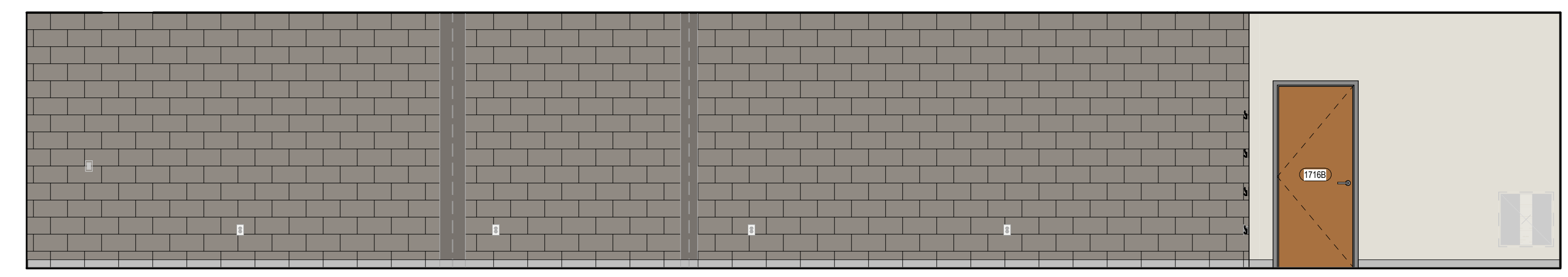
9 PHYSICS 1716 - WEST
SCALE: 1/4" = 1'-0"



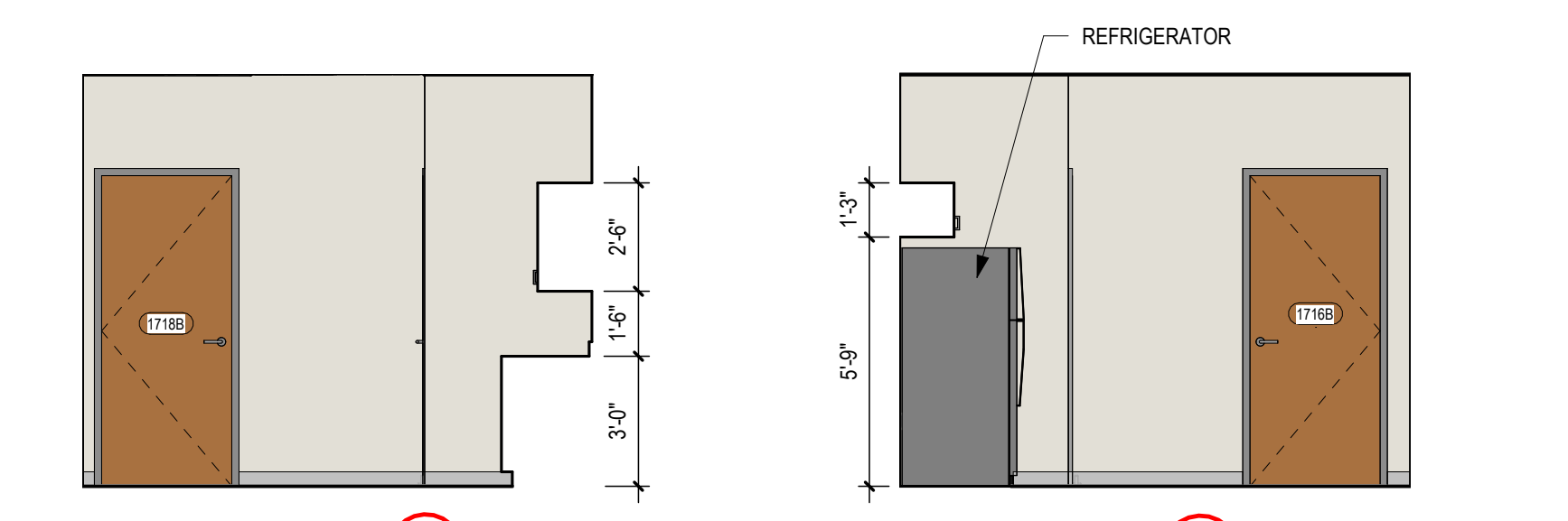
8 PHYSICS 1716 - SOUTH
SCALE: 1/4" = 1'-0"



7 PHYSICS 1716 - EAST
SCALE: 1/4" = 1'-0"

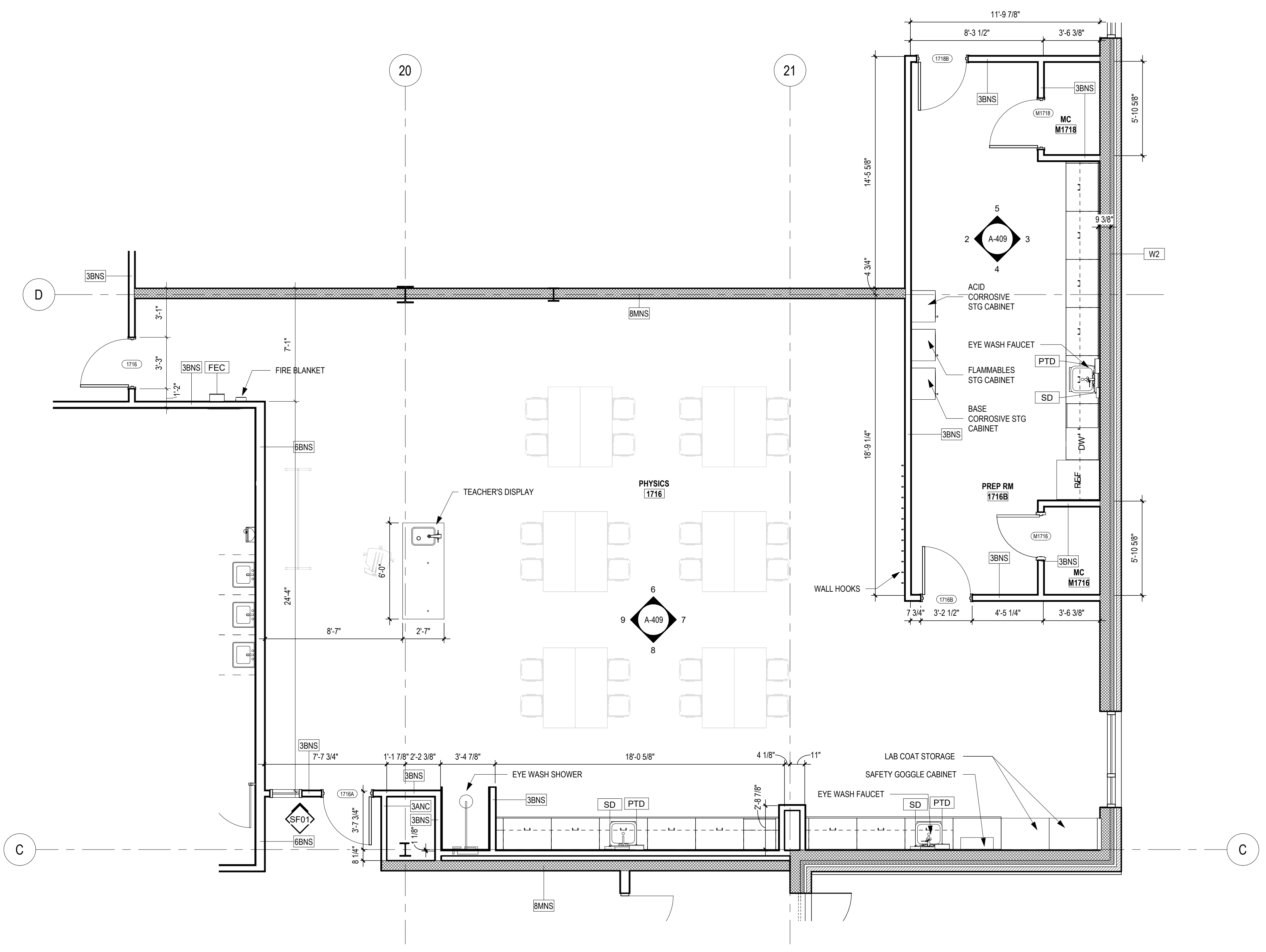


6 PHYSICS 1716 - NORTH
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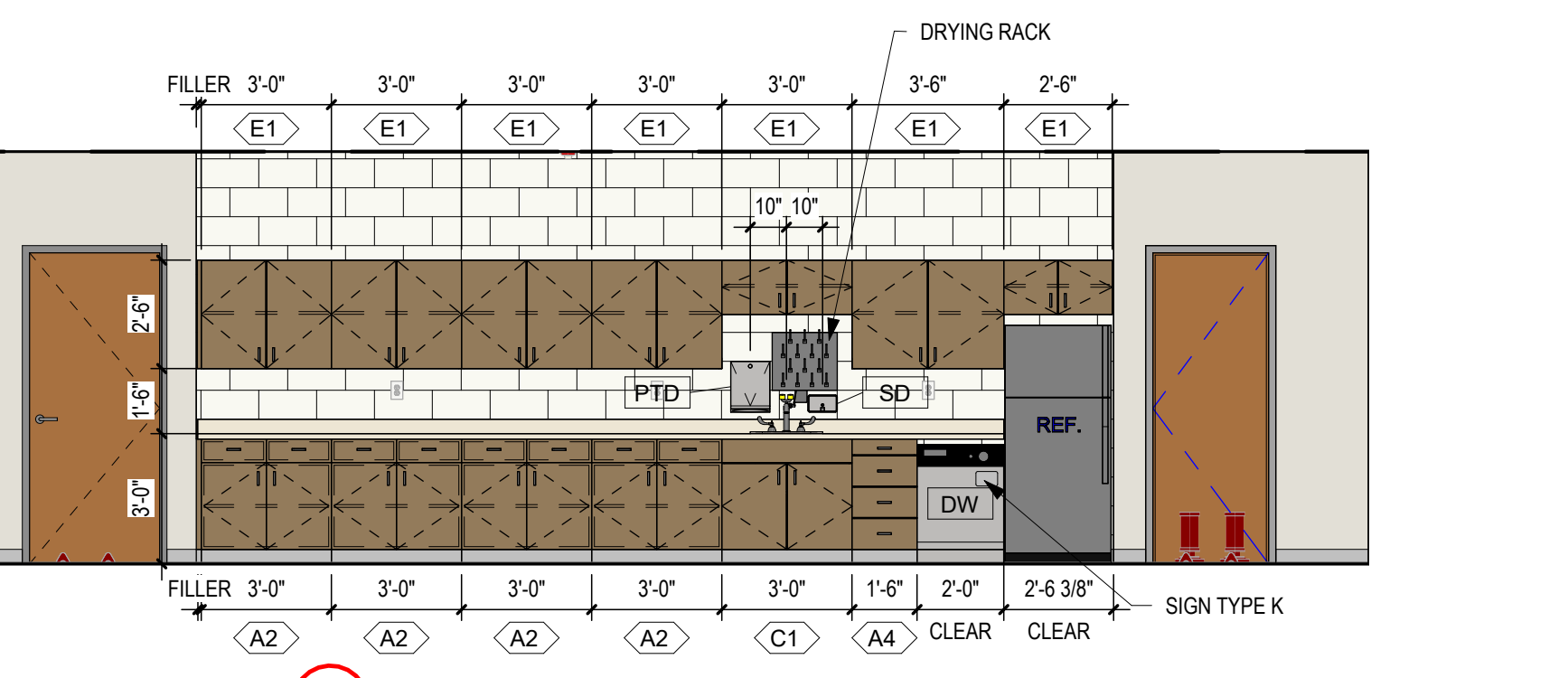


5 PREP RM 1716B - NORTH
SCALE: 1/4" = 1'-0"

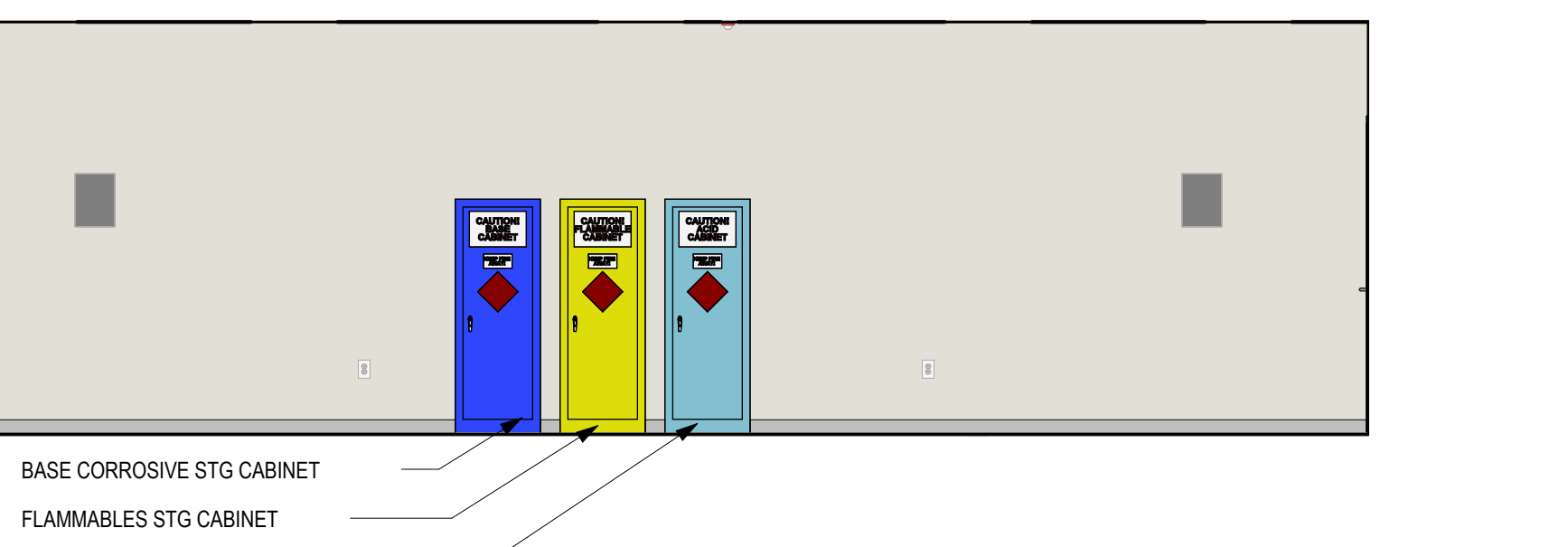
4 PREP RM 1716B - SOUTH
SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - PHYSICS 1716
SCALE: 1/4" = 1'-0"



3 PREP RM 1716B - EAST
SCALE: 1/4" = 1'-0"



2 PREP RM 1716 - WEST
SCALE: 1/4" = 1'-0"



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ENLARGED SCIENCE LAB PLANS & ELEVATIONS
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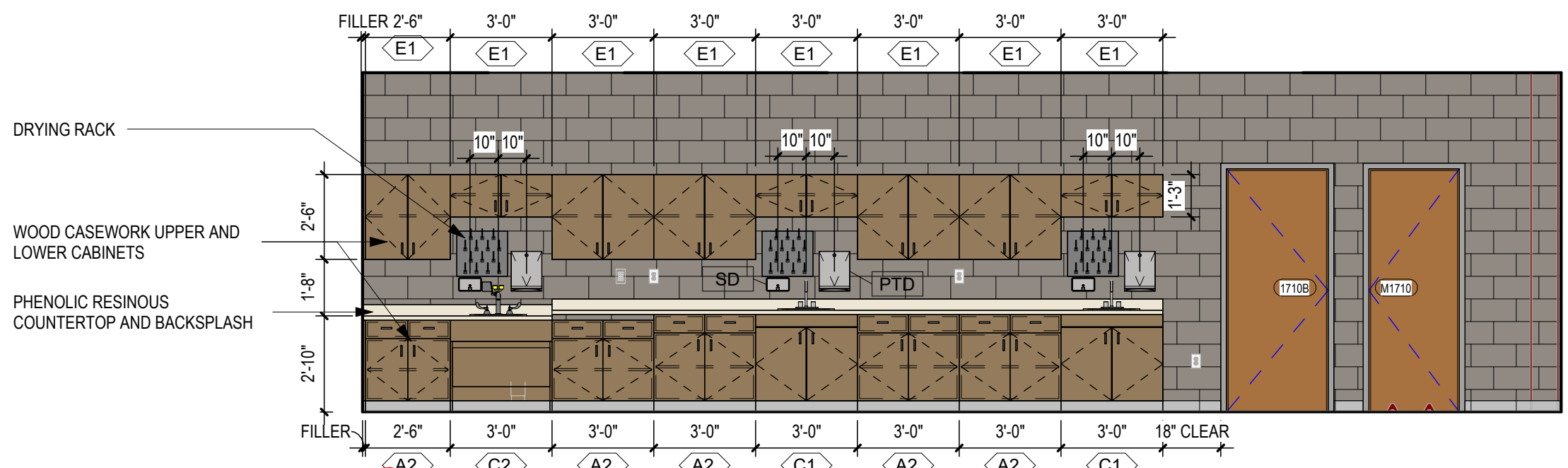
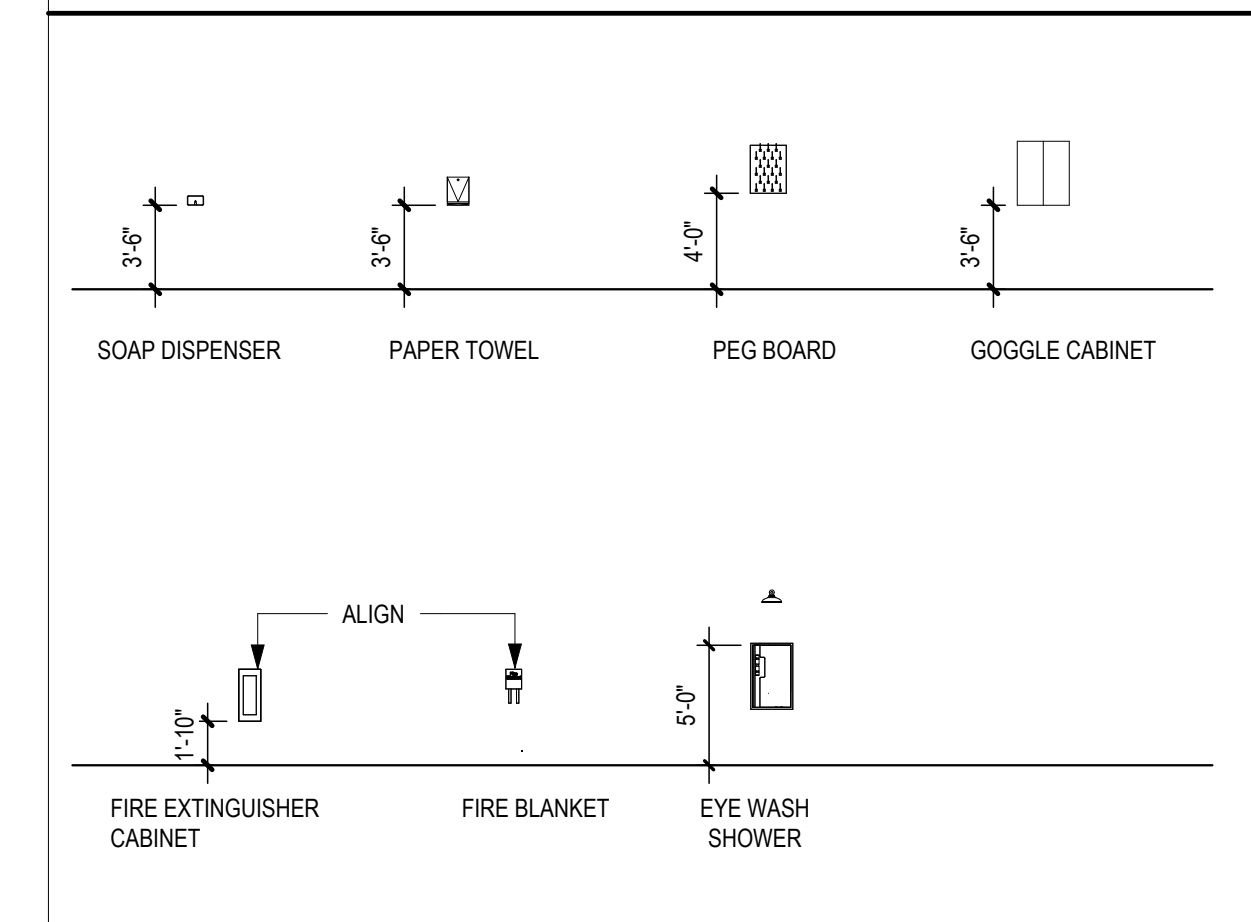
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[Symbol]	1/2 HR RATED TENANT OR CORRIDOR SEPARATION (FIRE PARTITION)
[Symbol]	1/2 HOUR RATED SMOKE PARTITION (INCIDENTAL USE SEPARATION)
[Symbol]	2 HOUR RATED WALL
[Symbol]	3 HOUR RATED WALL
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
Room Name 101A 0000 SF	ROOM TAG

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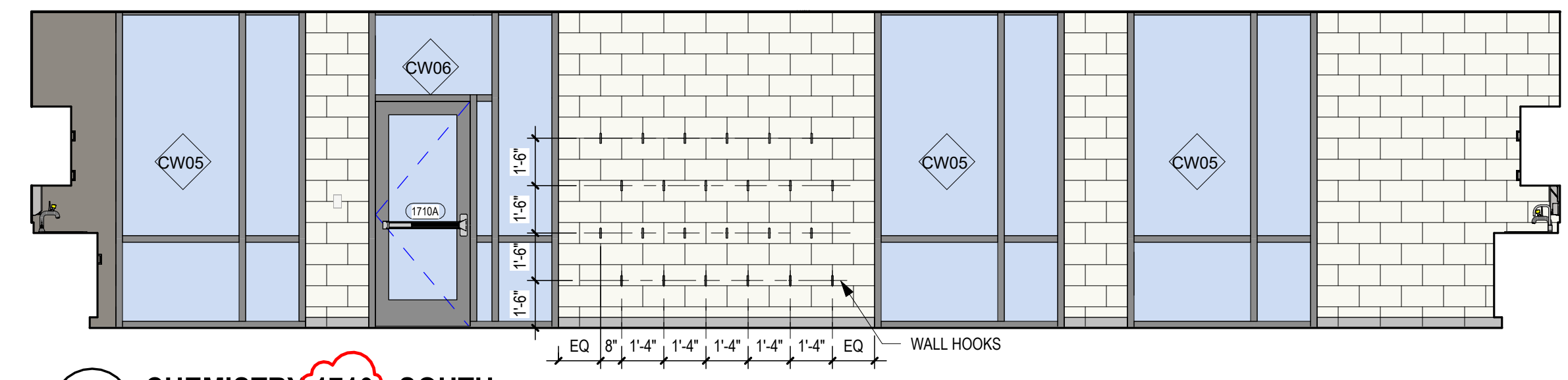
ENLARGED SCIENCE LAB PLANS & ELEVATIONS
SCHEDULE

- WALL HOOKS
- FIRE EXTINGUISHER CABINET
- FIRE BLANKET CABINET - BOD: NYSTROM BC-601
- EYE WASH
- FUME HOOD
- FLAMMABLES STORAGE CABINET
- ACID CORROSIVE STORAGE CABINET
- REFRIGERATOR
- DISHWASHER (REF. INTERIOR SIGNAGE DETAILS FOR REOD SIGNAGE)
- GOGGLE CABINET (OFOI)
- DRYING RACK (OFOI)
- TEACHER'S DISPLAY (OFOI) PLUMBING, ELECTRIC, AND ACCESSORIES (CFCI)
- LAB COAT STORAGE
- BASE CORROSIVE STORAGE CABINET

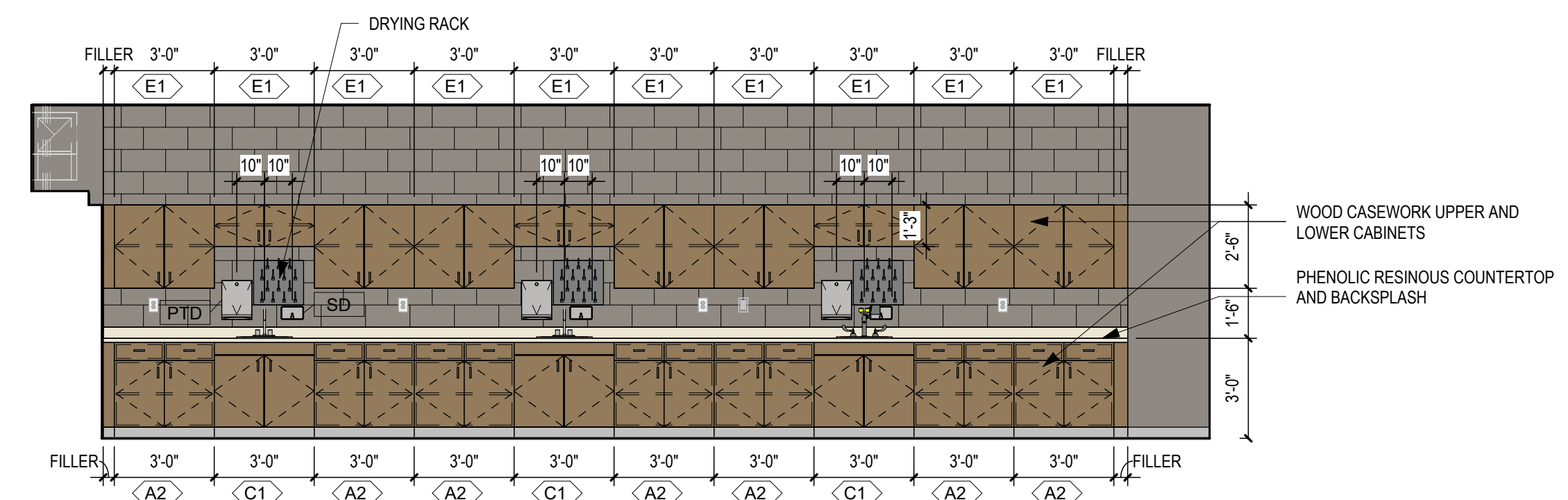
SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



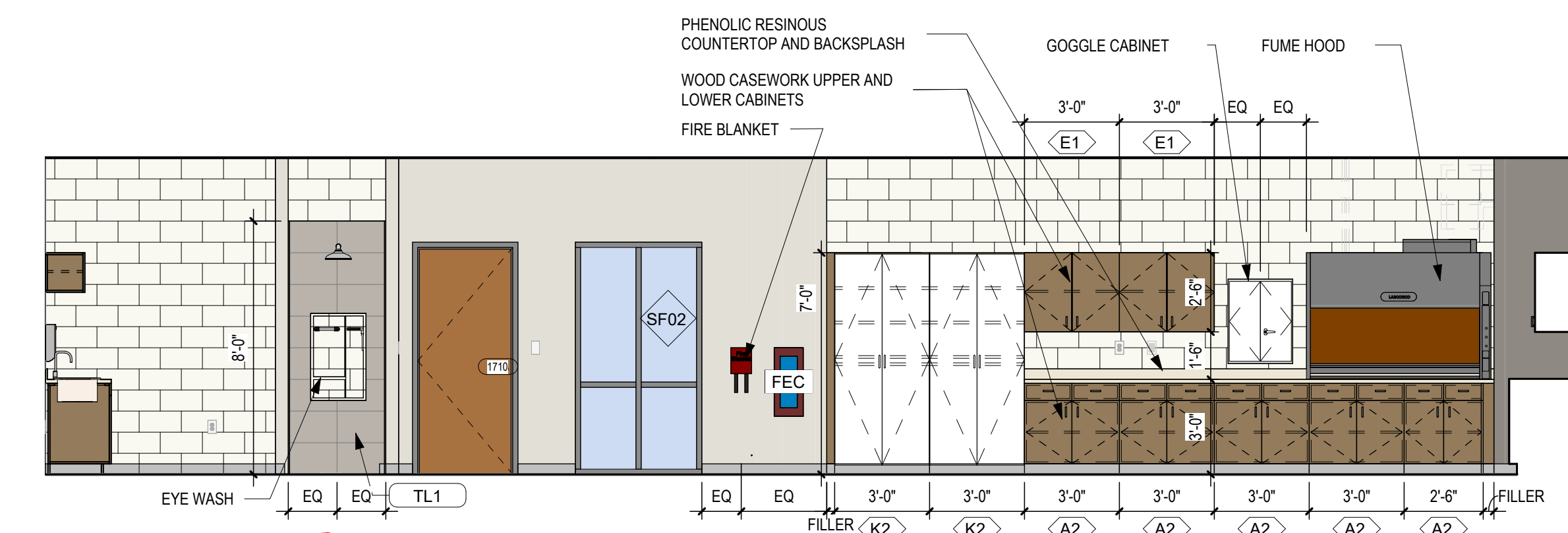
5 CHEMISTRY 1710 - WEST
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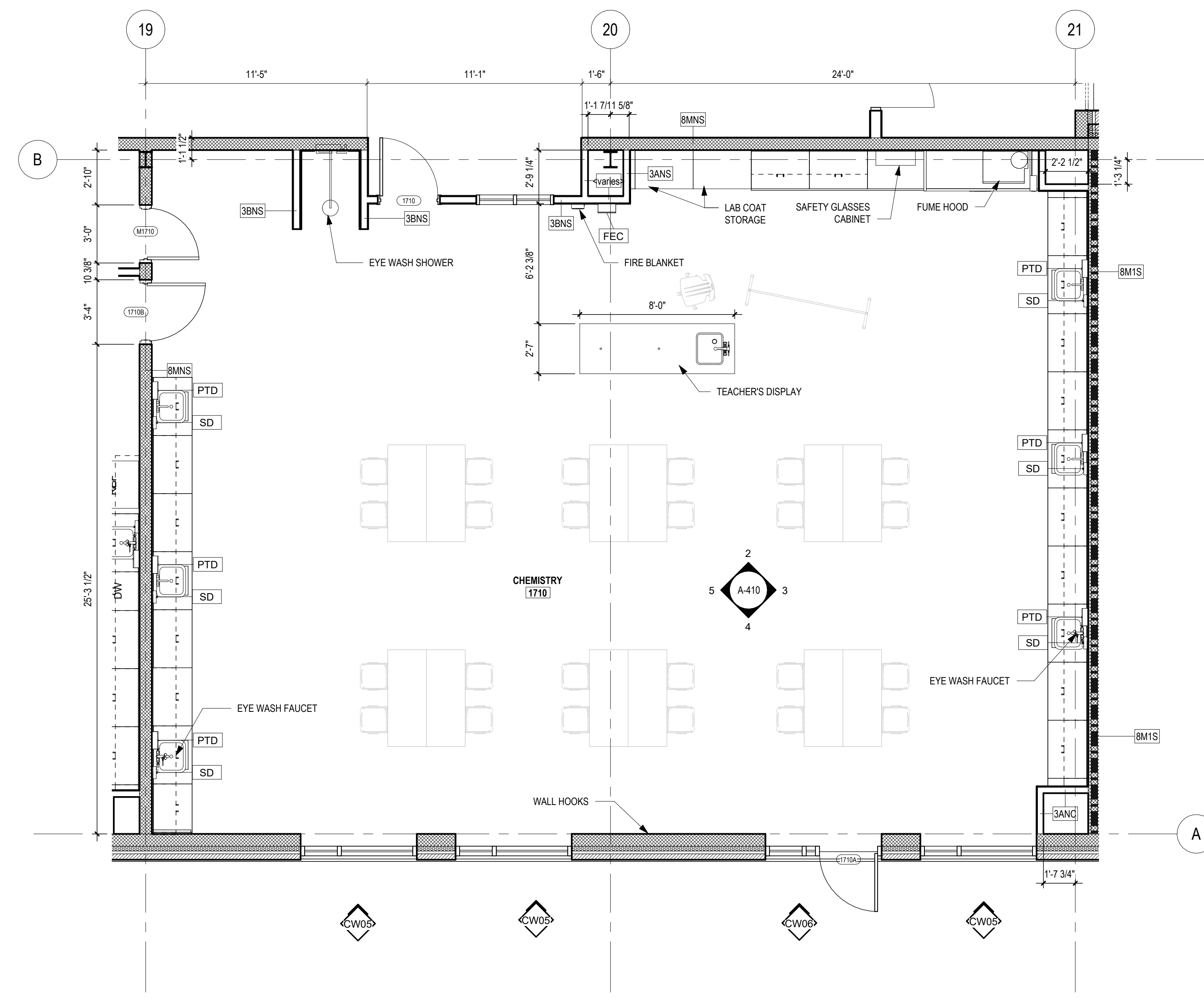
4 CHEMISTRY 1710 - SOUTH
SCALE: 1/4" = 1'-0"



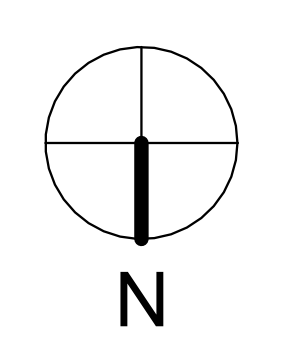
3 CHEMISTRY 1710 - EAST
SCALE: 1/4" = 1'-0"



2 CHEMISTRY 1710 - NORTH
SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - CHEMISTRY 1718
SCALE: 1/4" = 1'-0"



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PAMLICO 6-12 SCHOOL
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DRAWN BY:	MK	
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ENLARGED PLANS & ELEVATIONS - SCIENCE LAB

A-410

**ENLARGED SCIENCE LAB PLANS & ELEVATIONS
LEGEND**

SYMBOL	DESCRIPTION
	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
	1/2 HR RATED TENANT OR CORRIDOR SEPARATION (FIRE PARTITION)
	1/2 HOUR RATED SMOKE PARTITION (INCIDENTAL USE SEPARATION)
	2 HOUR RATED WALL
	3 HOUR RATED WALL
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
Room Name 101A 0000 SF	ROOM TAG

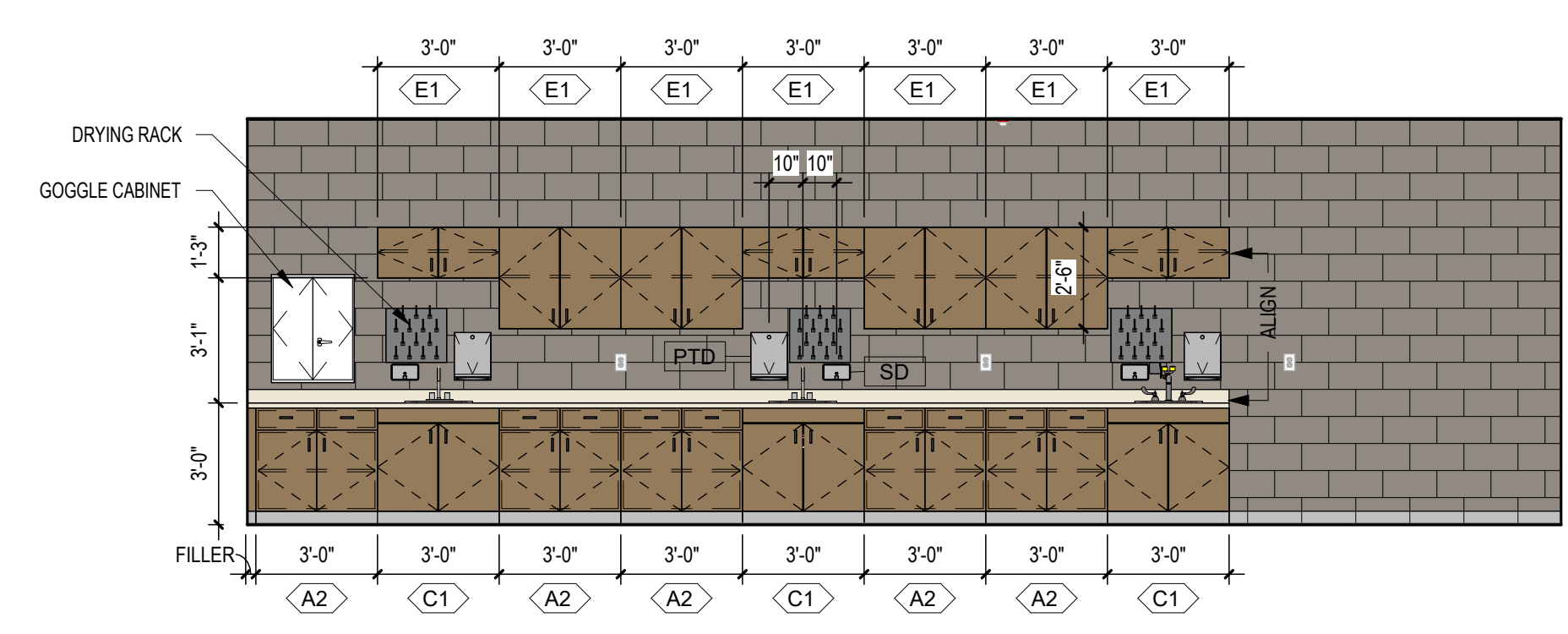
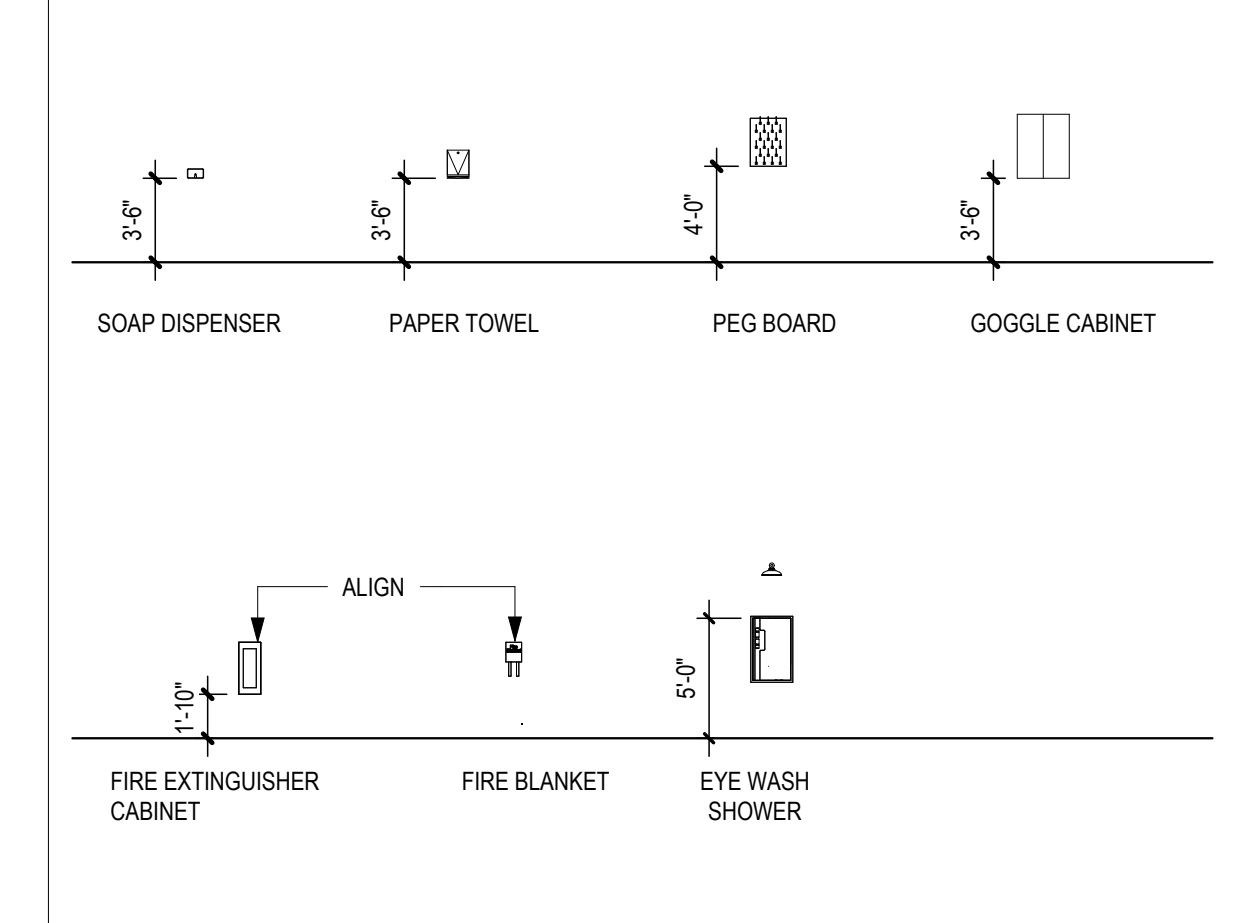
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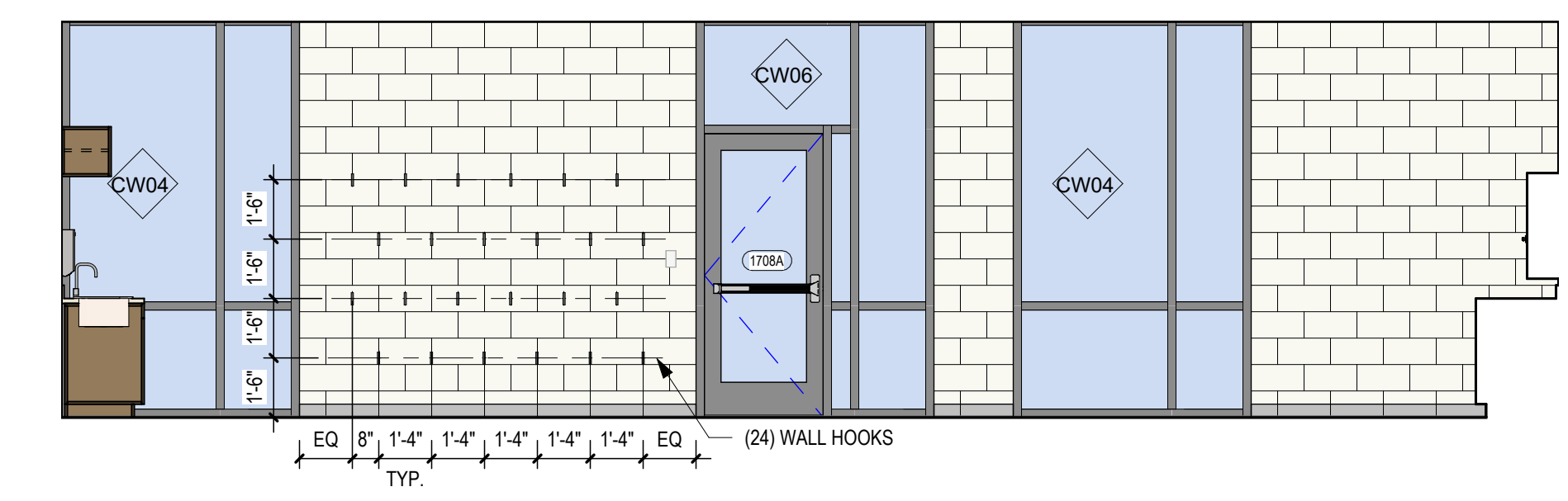
**ENLARGED SCIENCE LAB PLANS & ELEVATIONS
SCHEDULE**

- WALL HOOKS
- FIRE EXTINGUISHER CABINET
- FIRE BLANKET CABINET - BOD: NYSTROM BC-601
- EYE WASH
- FUME HOOD
- FLAMMABLES STORAGE CABINET
- ACID CORROSIVE STORAGE CABINET
- REFRIGERATOR
- DISHWASHER (REF. INTERIOR SIGNAGE DETAILS FOR REOD SIGNAGE)
- GOOGLE CABINET (OFOI)
- DRYING RACK (OFOI)
- TEACHERS DISPLAY (OFOI) PLUMBING, ELECTRIC, AND ACCESSORIES (CFCI)
- LAB COAT STORAGE
- BASE CORROSIVE STORAGE CABINET

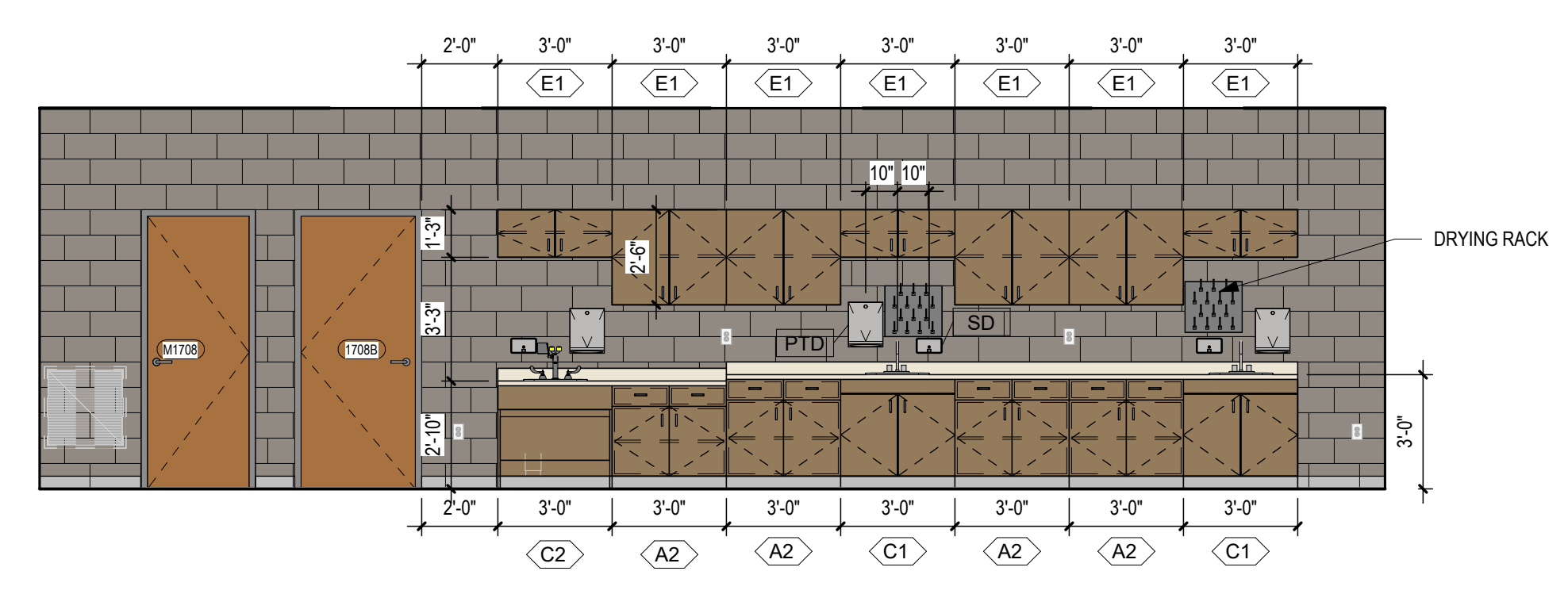
SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



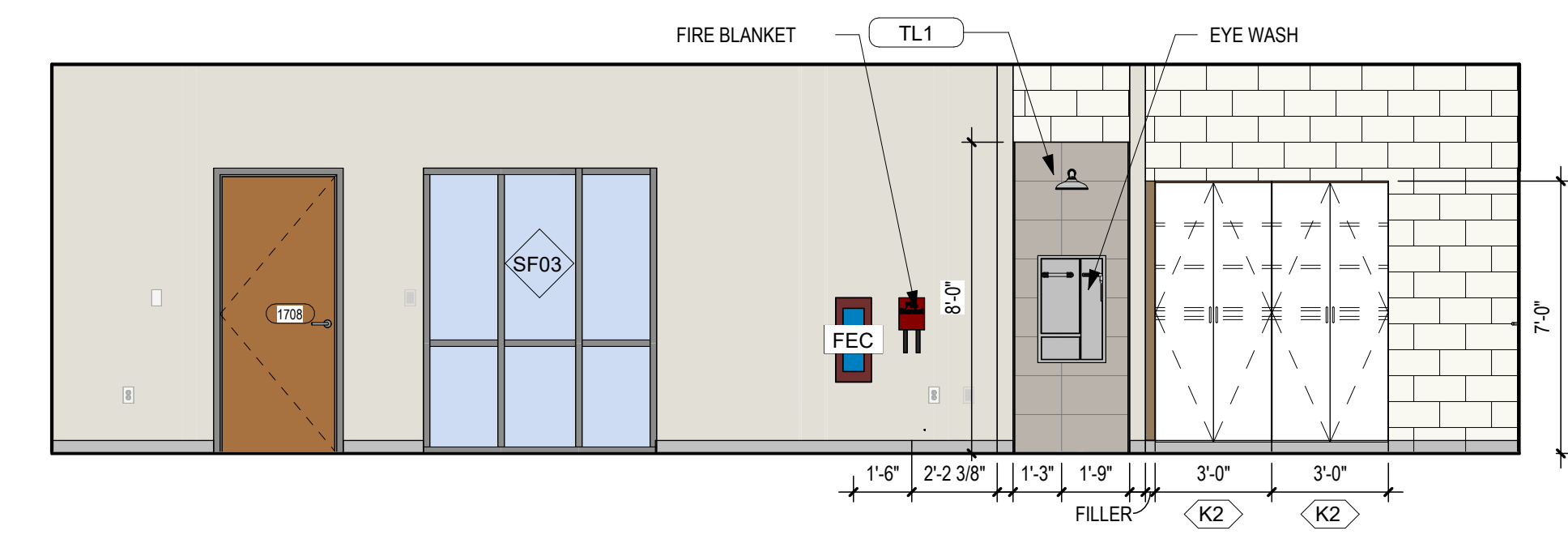
8 PHYSICAL SCIENCE 1708 - WEST
SCALE: 1/4" = 1'-0"



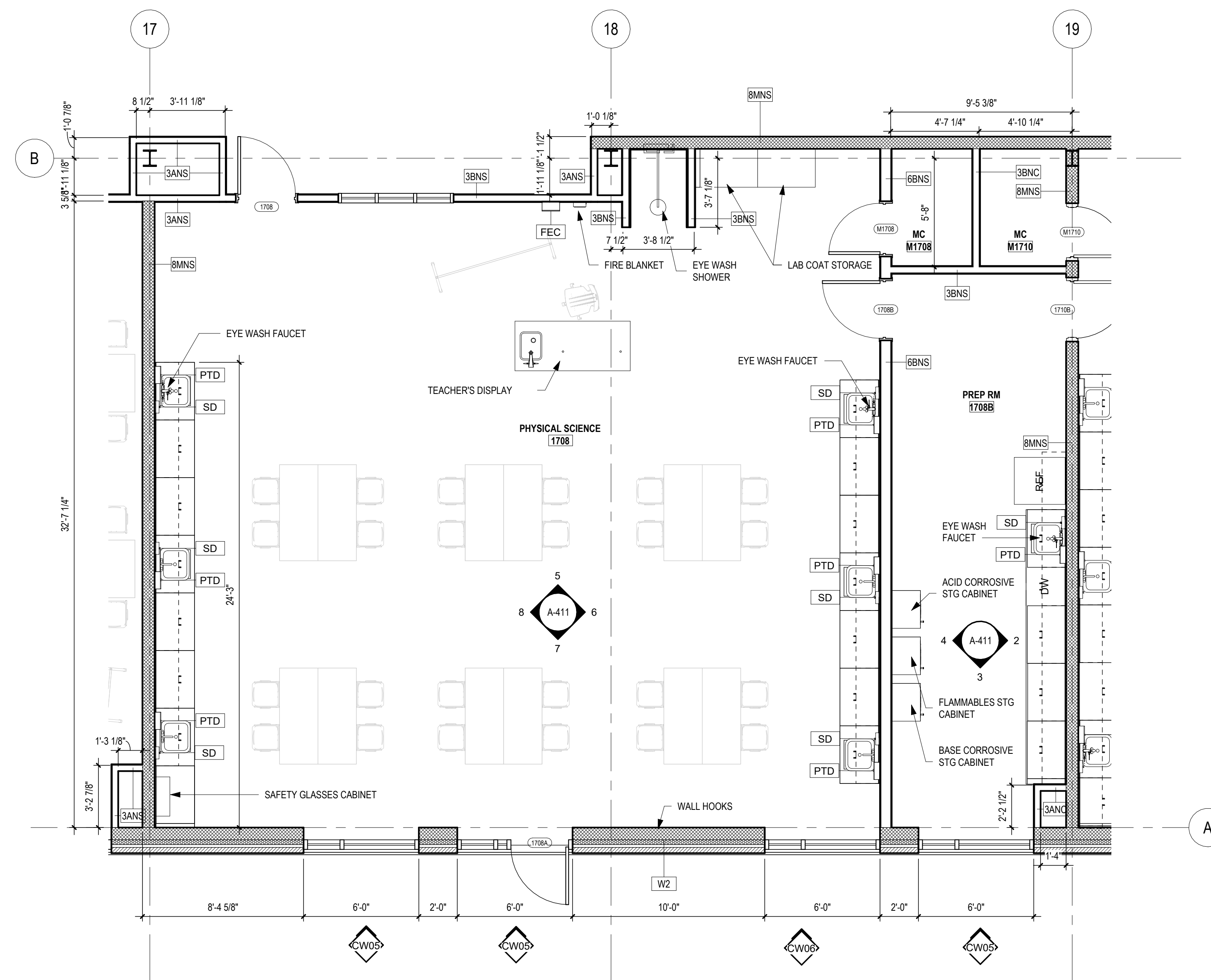
7 PHYSICAL SCIENCE 1708 - SOUTH
SCALE: 1/4" = 1'-0"



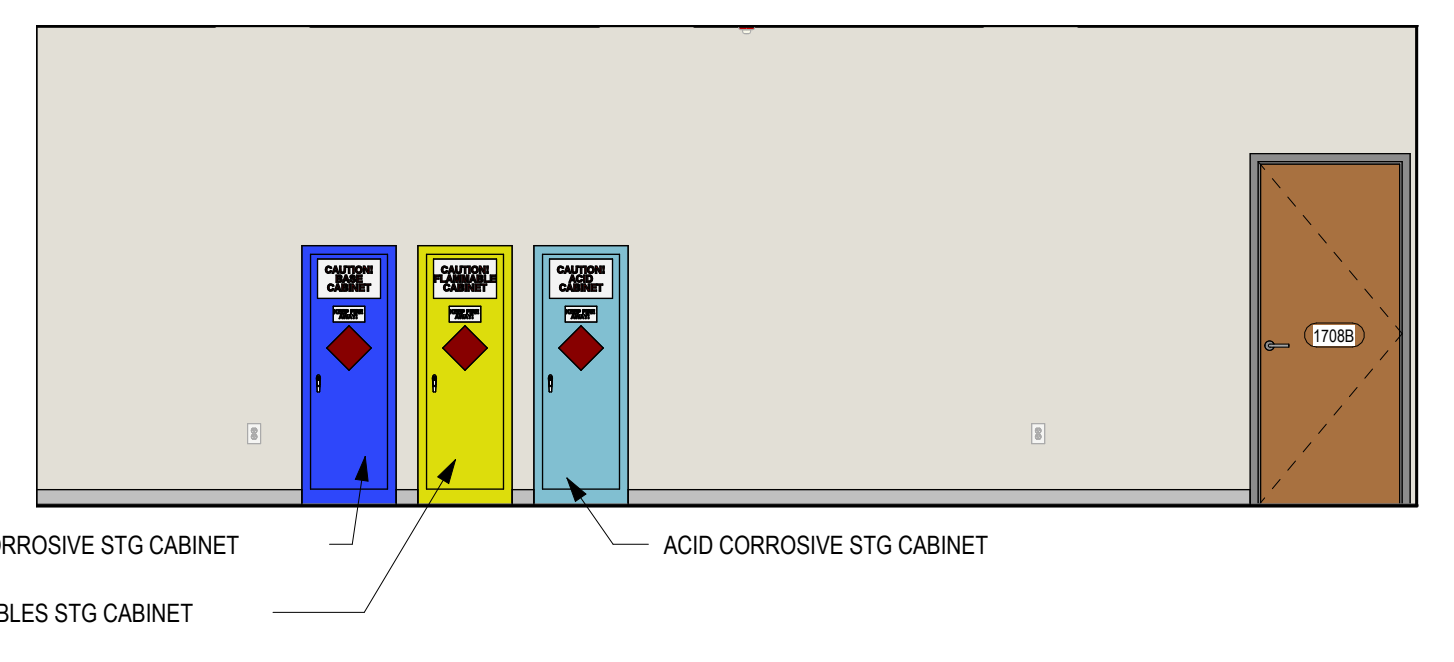
6 PHYSICAL SCIENCE 1708 - EAST
SCALE: 1/4" = 1'-0"



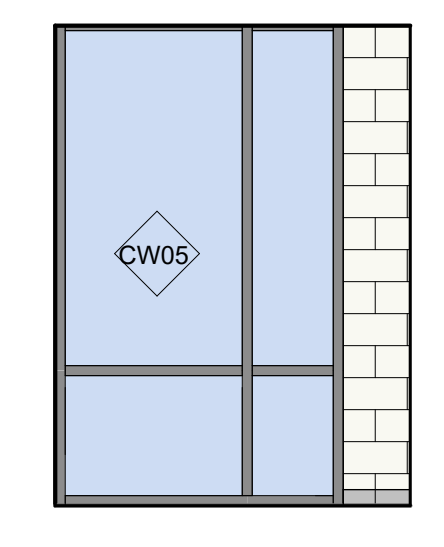
5 PHYSICAL SCIENCE 1708 - NORTH
SCALE: 1/4" = 1'-0"



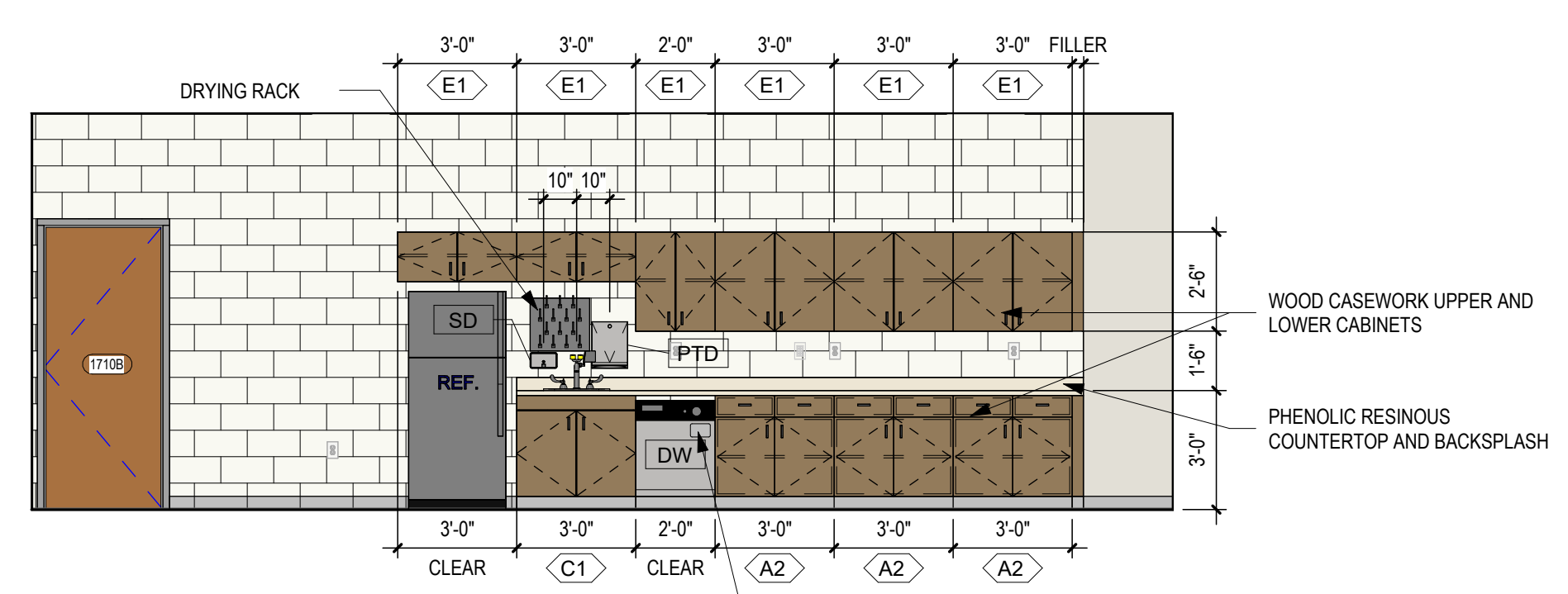
1 ENLARGED FLOOR PLAN - PHYSICAL SCIENCE
SCALE: 1/4" = 1'-0"



4 PREP RM 1708B - WEST
SCALE: 1/4" = 1'-0"



3 PREP RM 1708B - SOUTH
SCALE: 1/4" = 1'-0"



2 PREP RM 1708B - EAST
SCALE: 1/4" = 1'-0"

**CONSTRUCTION
DOCUMENTS**

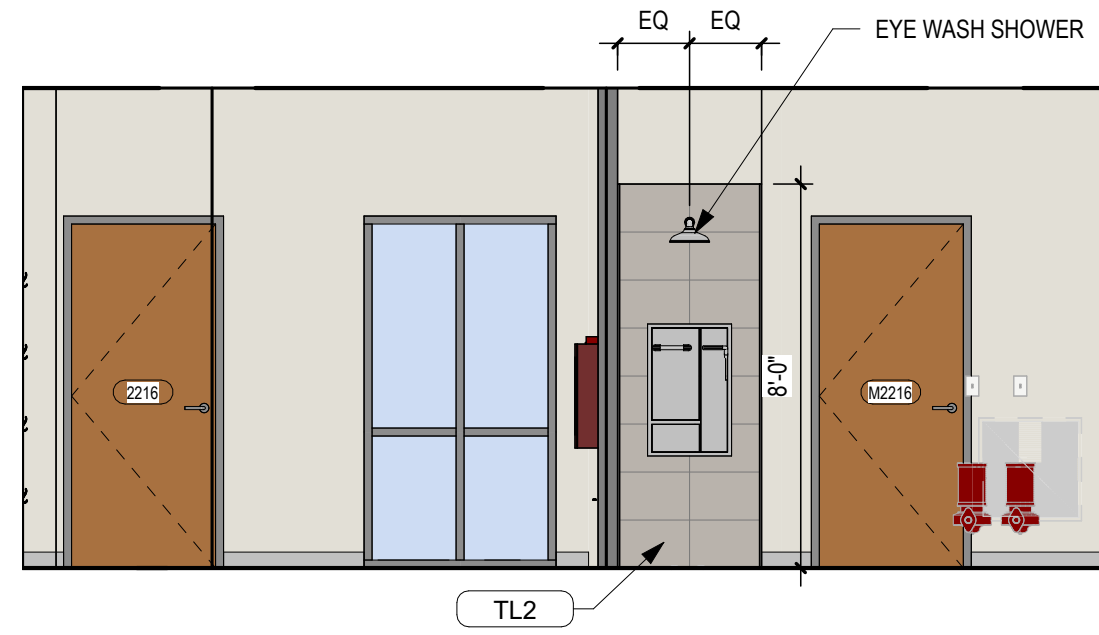
**PAMLICO COUNTY
PAMLICO 6-12 SCHOOL**
601 Main Street, Bayboro, NC, 28515



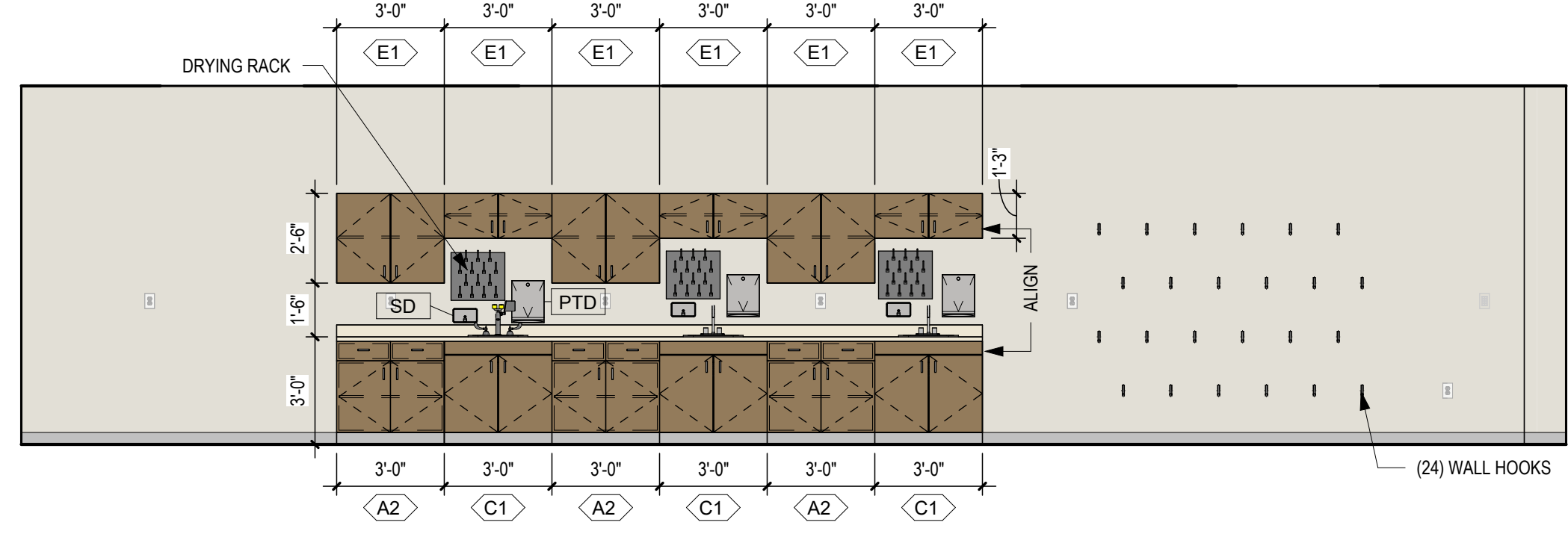
1	07/10/2024	Bid Addendum 2
No.	Date	Description
ISSUE DATE: 06/12/24		
PROJECT #:	2205	
DRAWN BY:	MK	
CHECKED BY:	MK	

**ENLARGED PLANS &
ELEVATIONS -
SCIENCE LAB**

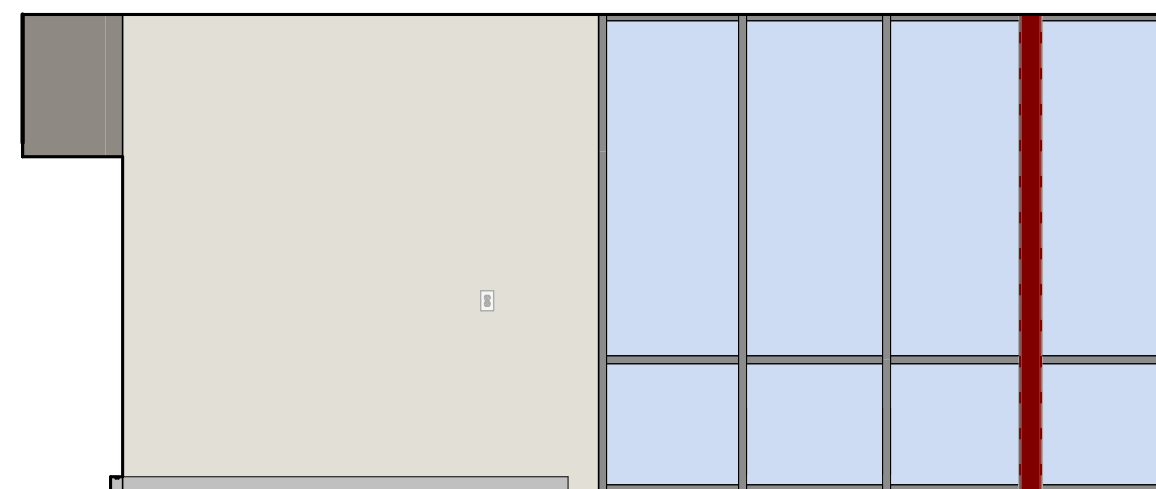
A-411



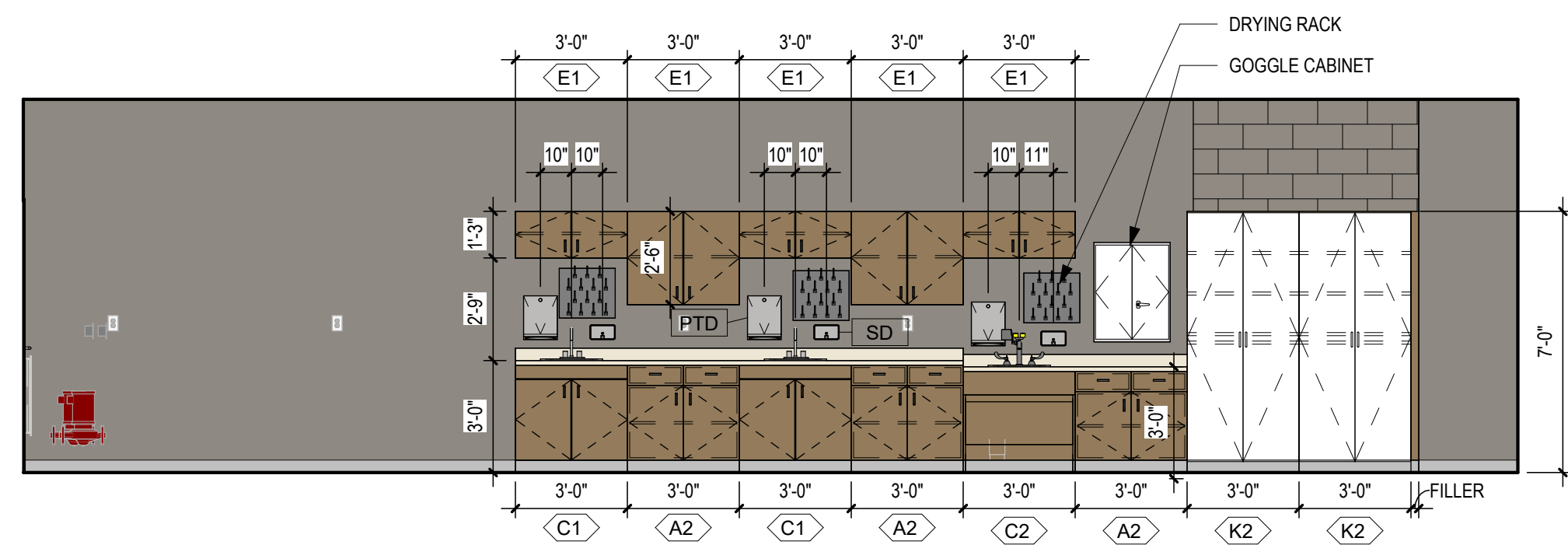
9 MS 7TH SCIENCE 2210 - NORTH
A-412 SCALE: 1/4" = 1'-0"



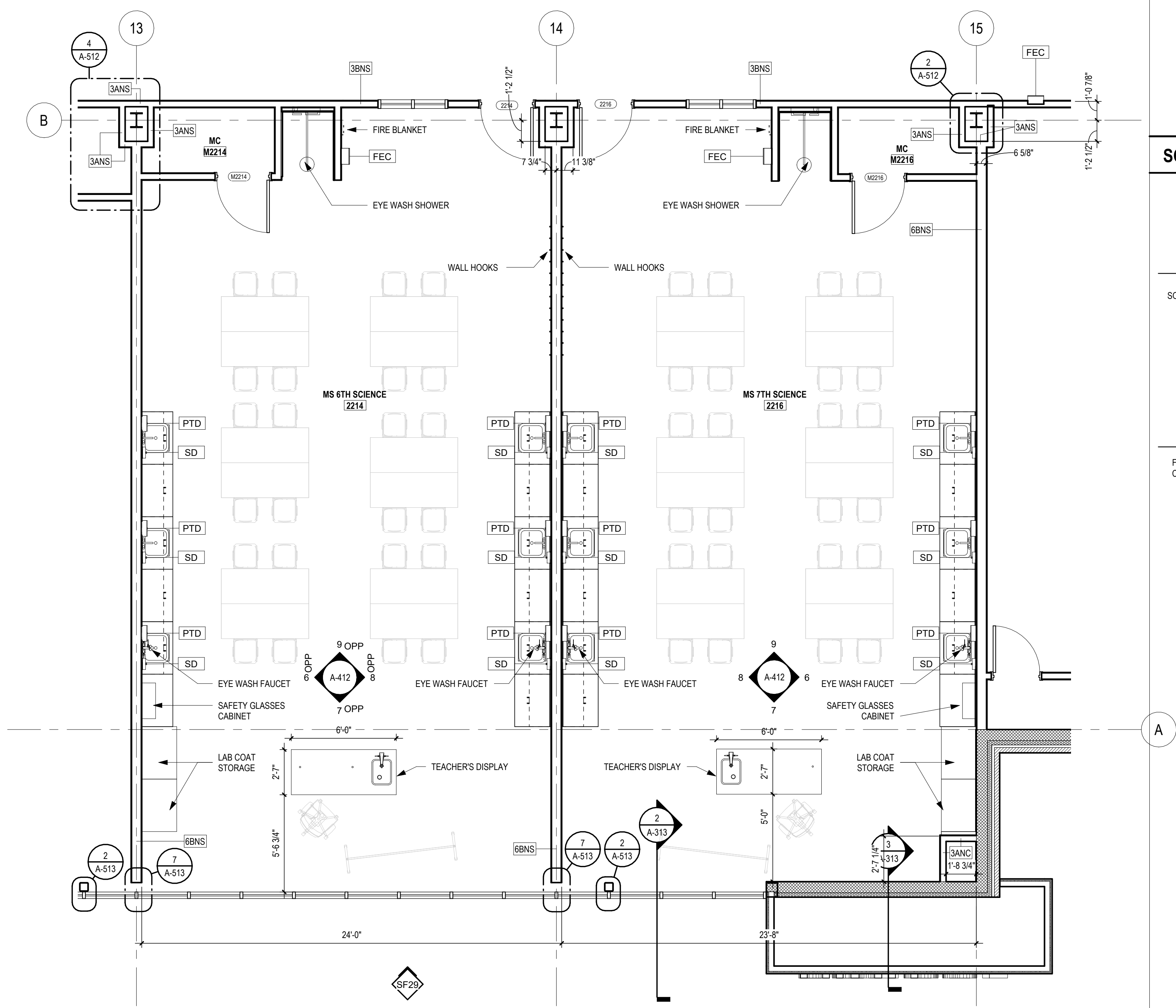
8 MS 7TH SCIENCE 2210 - WEST
A-412 SCALE: 1/4" = 1'-0"



7 MS 7TH SCIENCE 2210 - SOUTH
A-412 SCALE: 1/4" = 1'-0"



6 MS 7TH SCIENCE 2210 - EAST
A-412 SCALE: 1/4" = 1'-0"



1 ENLARGED FLOOR PLAN - MS SCIENCE 06 & 07
A-412 SCALE: 1/4" = 1'-0"

ENLARGED SCIENCE LAB PLANS & ELEVATIONS
LEGEND

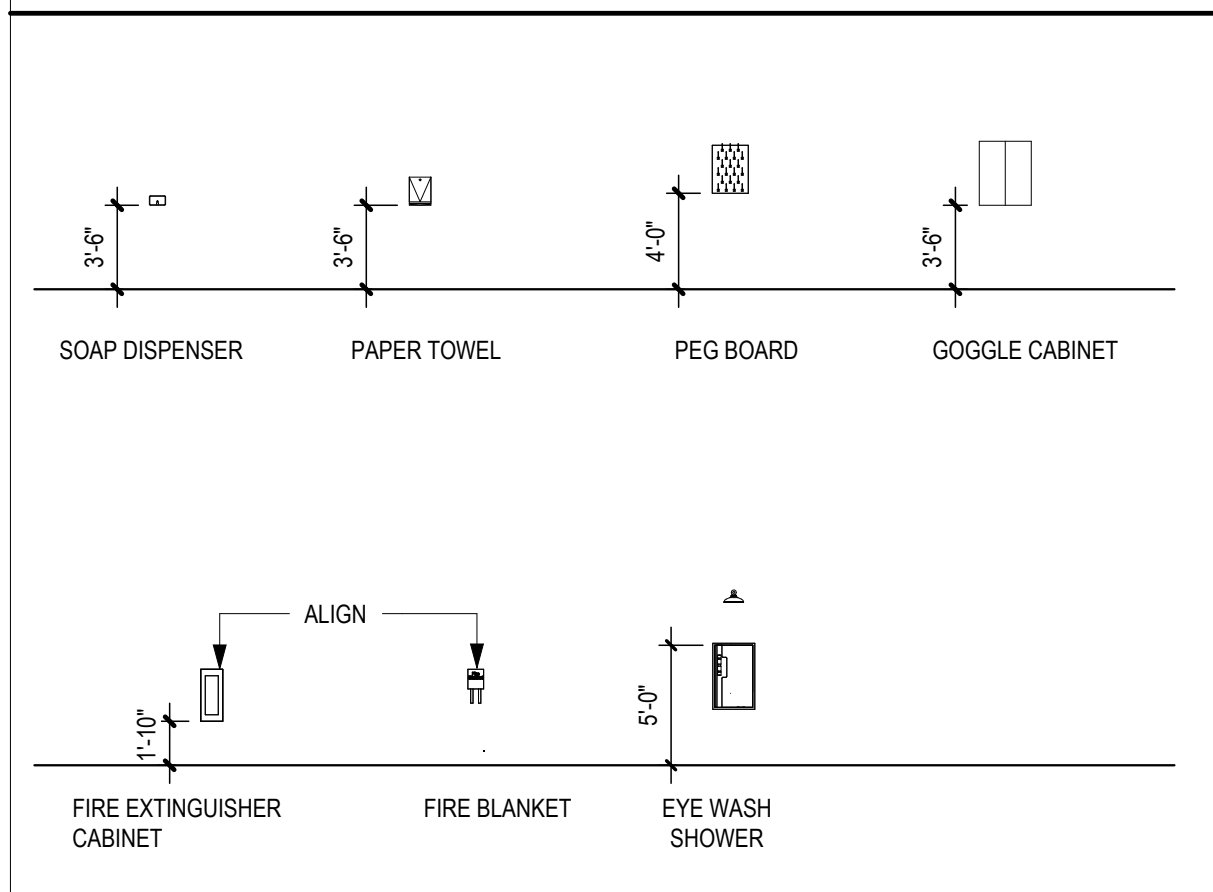
SYMBOL	DESCRIPTION
[Symbol]	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
[Symbol]	1/2 HR RATED TENANT OR CORRIDOR SEPARATION (FIRE PARTITION)
[Symbol]	1/2 HOUR RATED SMOKE PARTITION (INCIDENTAL USE SEPARATION)
[Symbol]	2 HOUR RATED WALL
[Symbol]	3 HOUR RATED WALL
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
Room Name	ROOM TAG
191A	0000 SF

- GENERAL NOTES:
- ALL SCIENCE EQUIPMENT TO BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE.
 - WOOD CASEWORK UPPER AND LOWER CABINETS AND PHENOLIC RESINOUS COUNTERTOPS TO BE PROVIDED IN CHEMISTRY LAB 1110, PREP RM 1708B, PREP RM 2232B AND MS SCIENCE 2230 ONLY. ALL OTHER SCIENCE LABS TO BE PLASTIC LAMINATE MILLWORK.

ENLARGED SCIENCE LAB PLANS & ELEVATIONS
SCHEDULE

- WALL HOOKS
- FIRE EXTINGUISHER CABINET
- FIRE BLANKET CABINET - BOD: NYSTROM BC-601
- EYE WASH
- FUME HOOD
- FLAMMABLES STORAGE CABINET
- ACID CORROSIVE STORAGE CABINET
- REFRIGERATOR
- DISHWASHER (REF. INTERIOR SIGNAGE DETAILS FOR REOD SIGNAGE)
- GOGGLE CABINET (OFOI)
- DRYING RACK (OFOI)
- TEACHERS DISPLAY (OFOI) PLUMBING, ELECTRIC, AND ACCESSORIES (CFCI)
- LAB COAT STORAGE
- BASE CORROSIVE STORAGE CABINET

SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



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CERT. NO.
59676
STATE OF N.C.
REGISTERED

PROJECT NO.
612-24
DATE

CONSTRUCTION
DOCUMENTS

PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



1	07/10/2024	Rev Addendum 2
No.	Date	Description
ISSUE DATE:	06/12/24	
PROJECT #:	2205	
DRAWN BY:	MK	
CHECKED BY:	MK	

ENLARGED PLANS &
ELEVATIONS -
SCIENCE LAB

A-412

ENLARGED SCIENCE LAB PLANS & ELEVATIONS LEGEND

SYMBOL	DESCRIPTION
[Symbol]	1 HR RATED EXIT ENCLOSURE (FIRE BARRIER)
[Symbol]	1/2 HR RATED TENANT OR CORRIDOR SEPARATION (FIRE PARTITION)
[Symbol]	1/2 HOUR RATED SMOKE PARTITION (INCIDENTAL USE SEPARATION)
[Symbol]	2 HOUR RATED WALL
[Symbol]	3 HOUR RATED WALL
FD	FLOOR DRAIN - SEE PLUMBING DRAWINGS
Room Name 101A 0000 SF	ROOM TAG

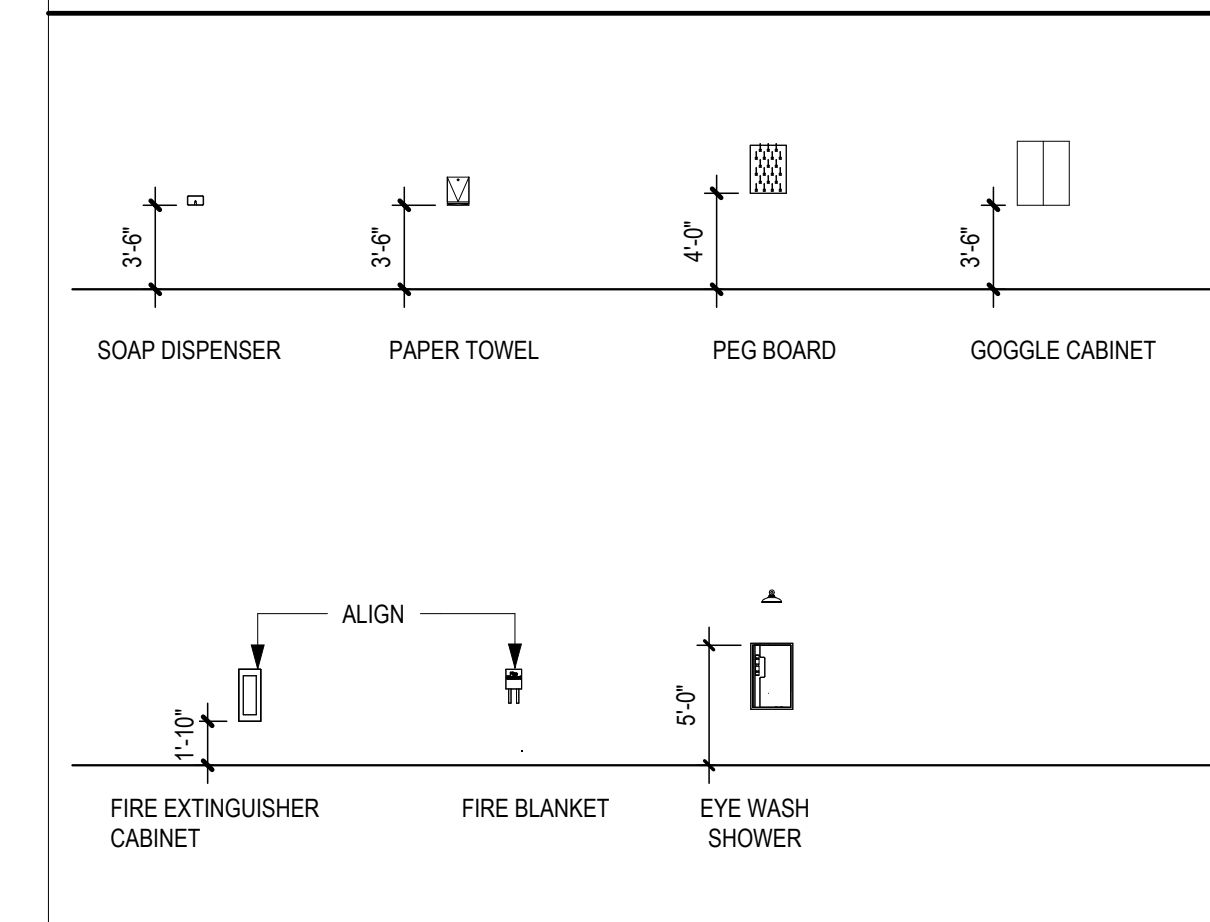
GENERAL NOTES:

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- WOOD CASEWORK UPPER AND LOWER CABINETS AND PHENOLIC RESINOUS COUNTERTOPS TO BE PROVIDED IN CHEMISTRY LAB 1110, PREP RM 1708B, PREP RM 2232B AND MS SCIENCE 2230 ONLY. ALL OTHER SCIENCE LABS TO BE PLASTIC LAMINATE MILLWORK.

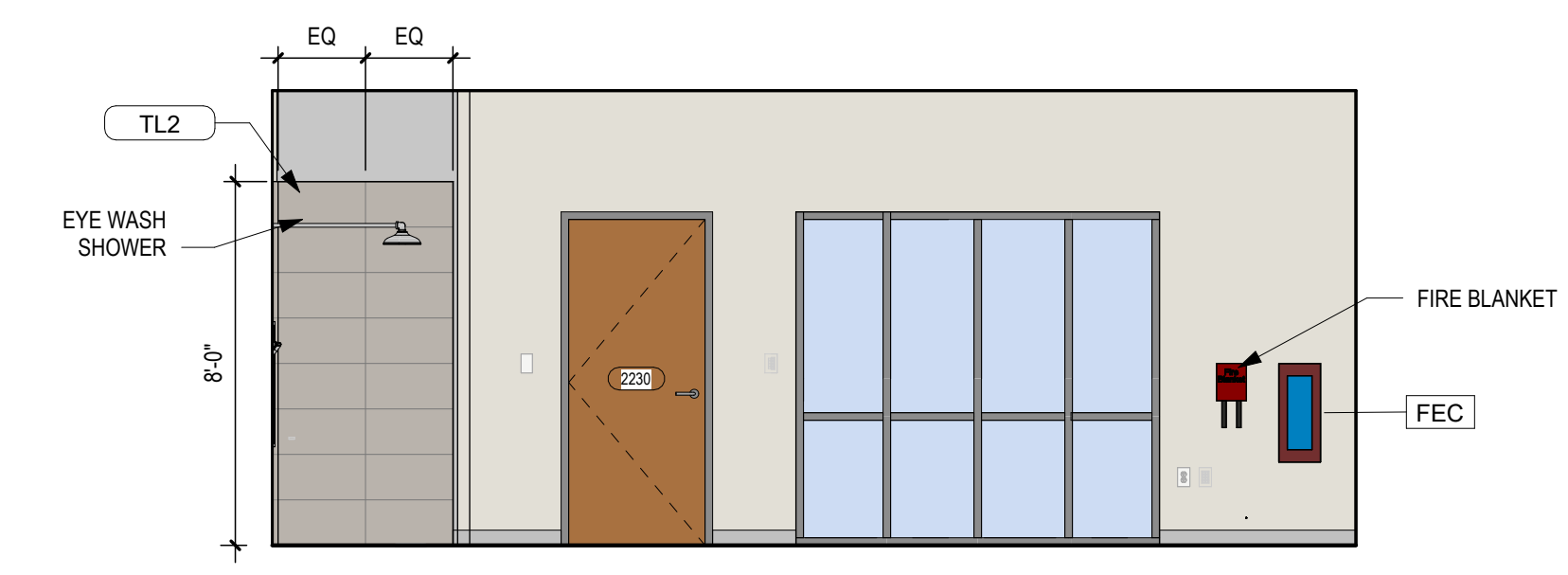
ENLARGED SCIENCE LAB PLANS & ELEVATIONS SCHEDULE

- WALL HOOKS
- FIRE EXTINGUISHER CABINET
- FIRE BLANKET CABINET - BOD: NYSTROM BC-601
- EYE WASH
- FUME HOOD
- FLAMMABLES STORAGE CABINET
- ACID CORROSIVE STORAGE CABINET
- REFRIGERATOR
- DISHWASHER (REF. INTERIOR SIGNAGE DETAILS FOR REOD SIGNAGE)
- GOGGLE CABINET (OFOI)
- DRYING RACK (OFOI)
- TEACHERS DISPLAY (OFOI) PLUMBING, ELECTRIC, AND ACCESSORIES (CFCI)
- LAB COAT STORAGE
- BASE CORROSIVE STORAGE CABINET

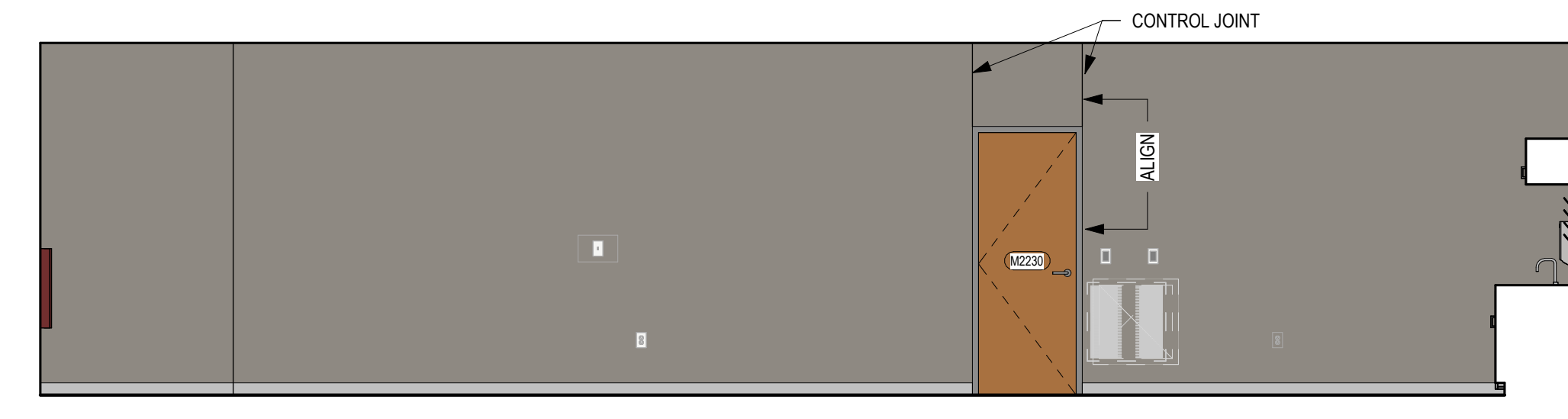
SCIENCE LAB EQUIPMENT MOUNTING HEIGHT LEGEND



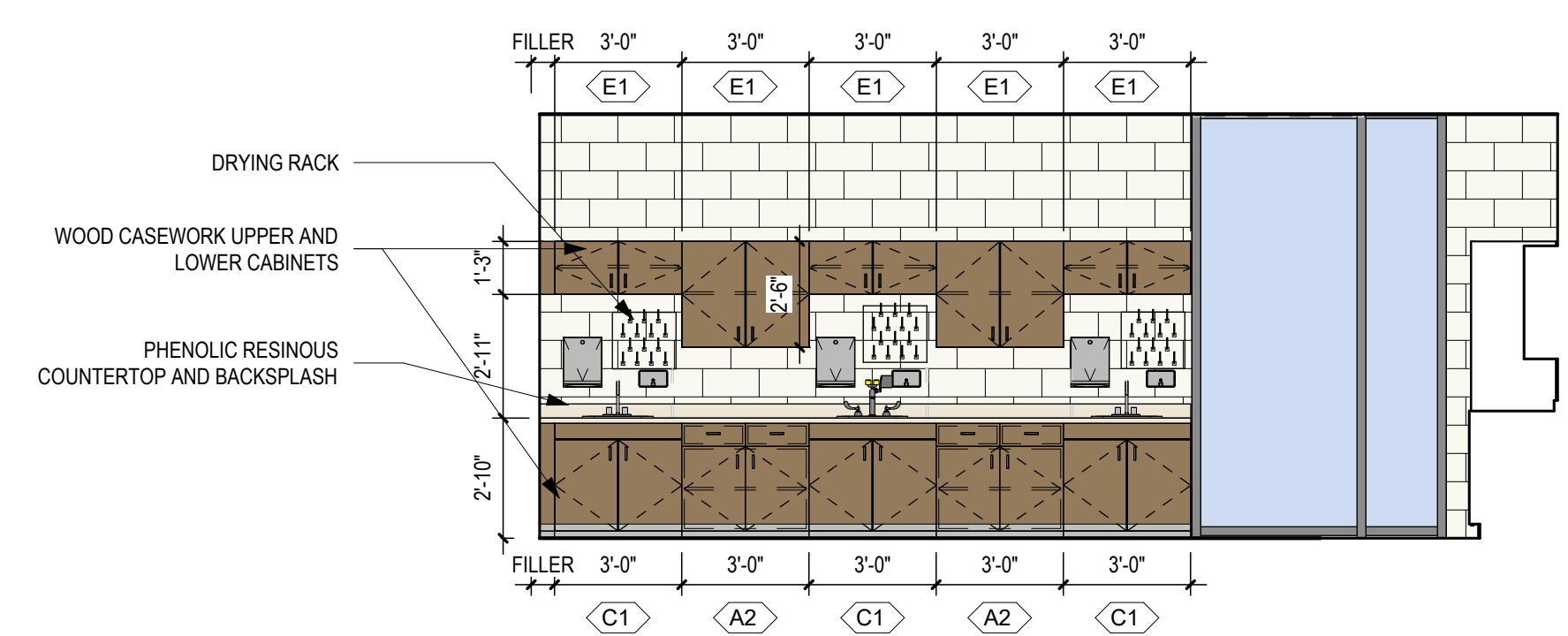
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No.	Date	Description
ISSUE DATE: 06/12/24		
PROJECT #: 2205		
DRAWN BY: MK		
CHECKED BY: MK		



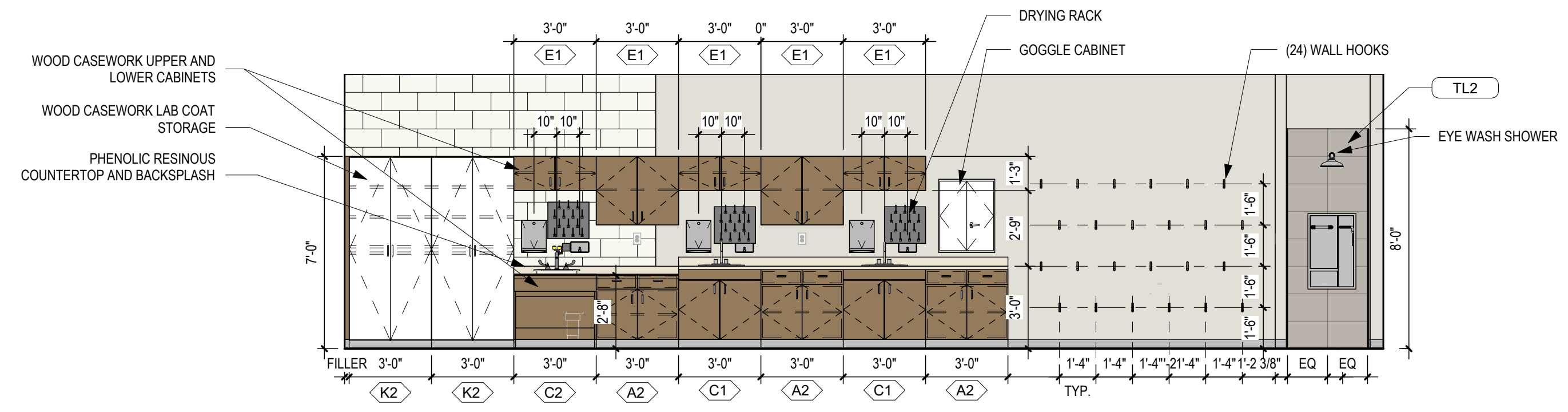
8 MS SCIENCE 2230 - WEST
A-413 SCALE: 1/4" = 1'-0"



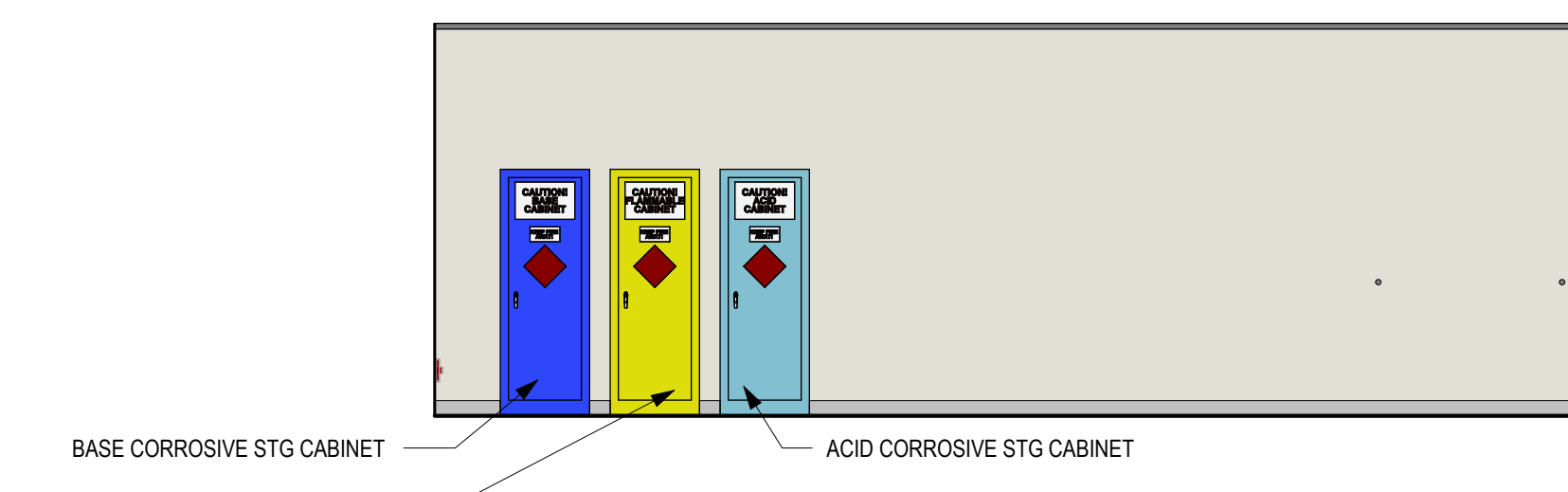
7 MS SCIENCE 2230 - NORTH
A-413 SCALE: 1/4" = 1'-0"



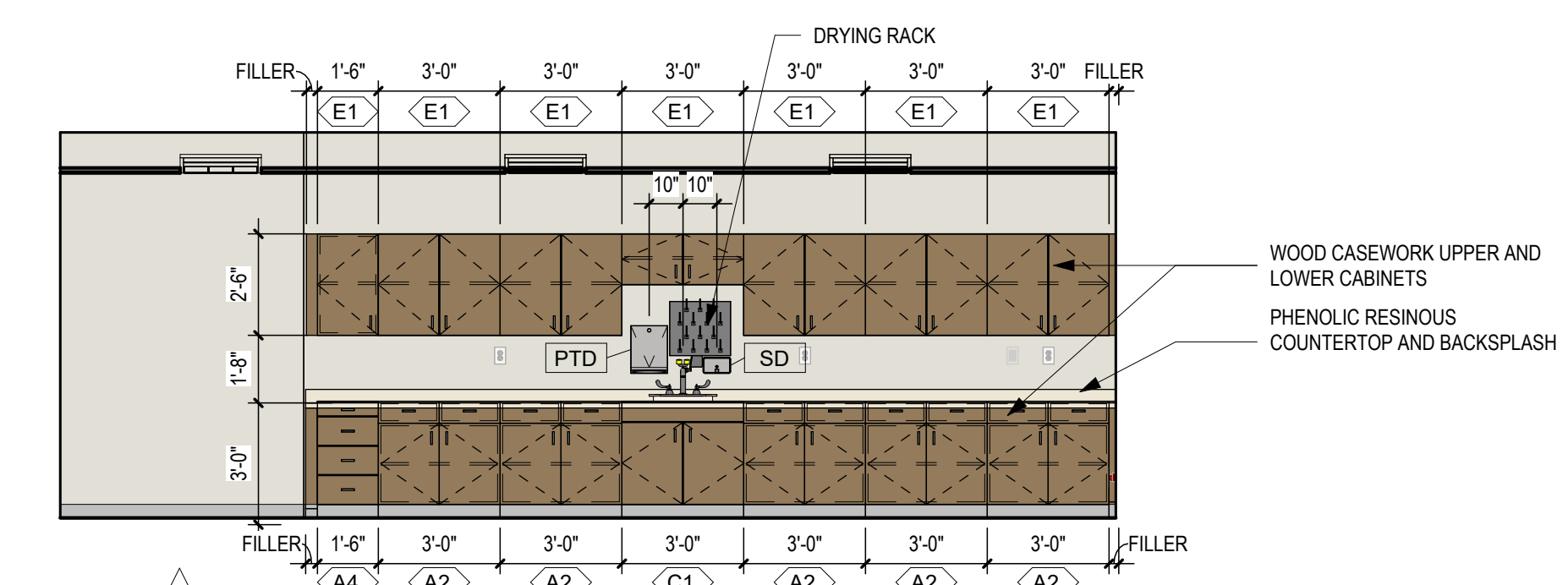
6 MS SCIENCE 2230 - EAST
A-413 SCALE: 1/4" = 1'-0"



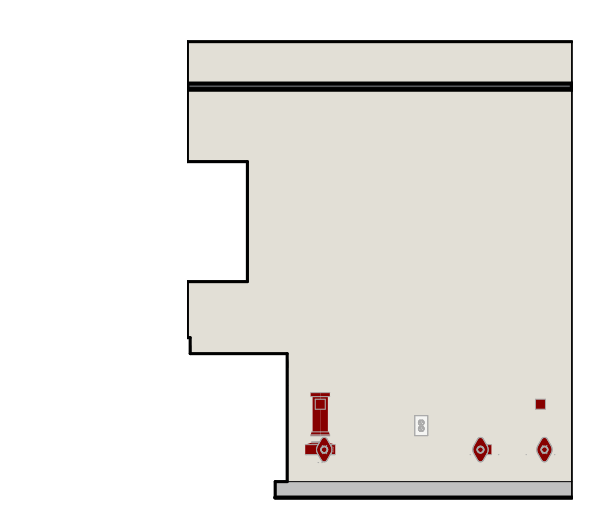
5 MS SCIENCE 2230 - SOUTH
A-413 SCALE: 1/4" = 1'-0"



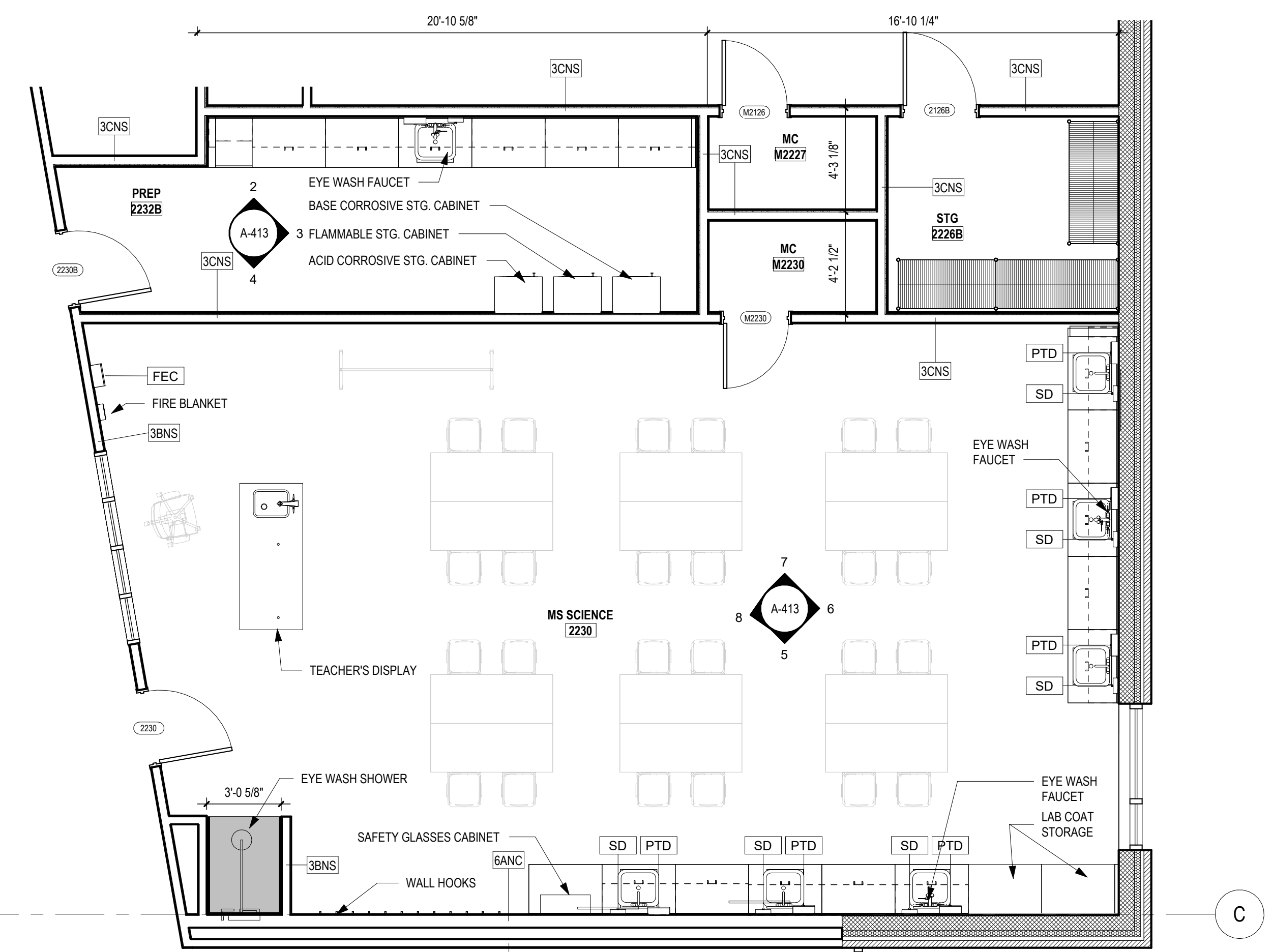
4 PREP 2232B - SOUTH
A-413 SCALE: 1/4" = 1'-0"



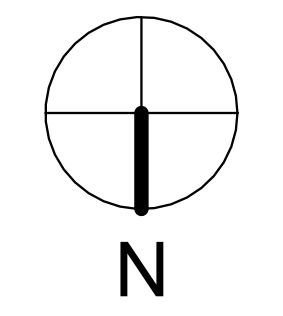
2 PREP 2232B - NORTH
A-413 SCALE: 1/4" = 1'-0"

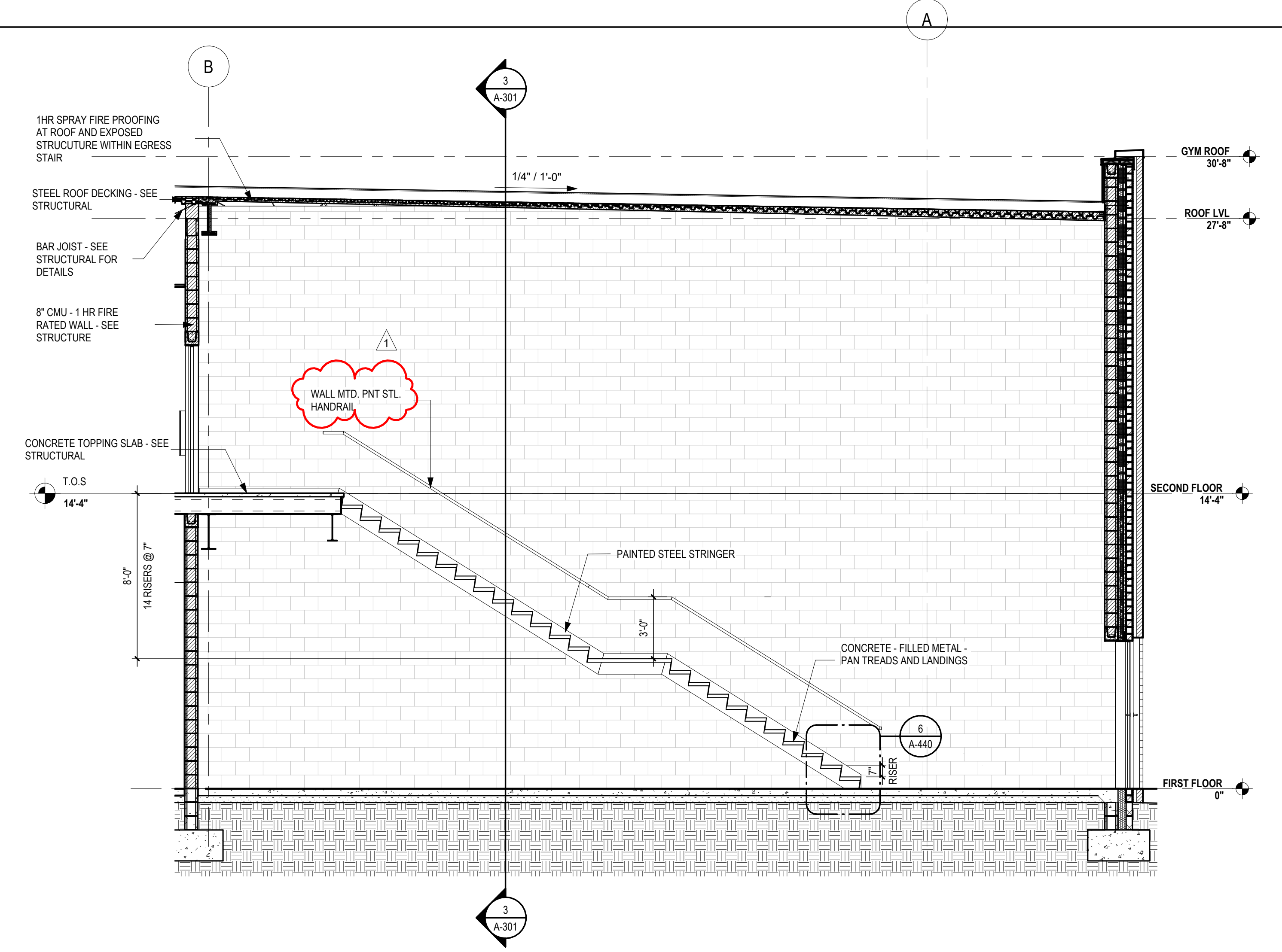


3 PREP 2232B - EAST
A-413 SCALE: 1/4" = 1'-0"

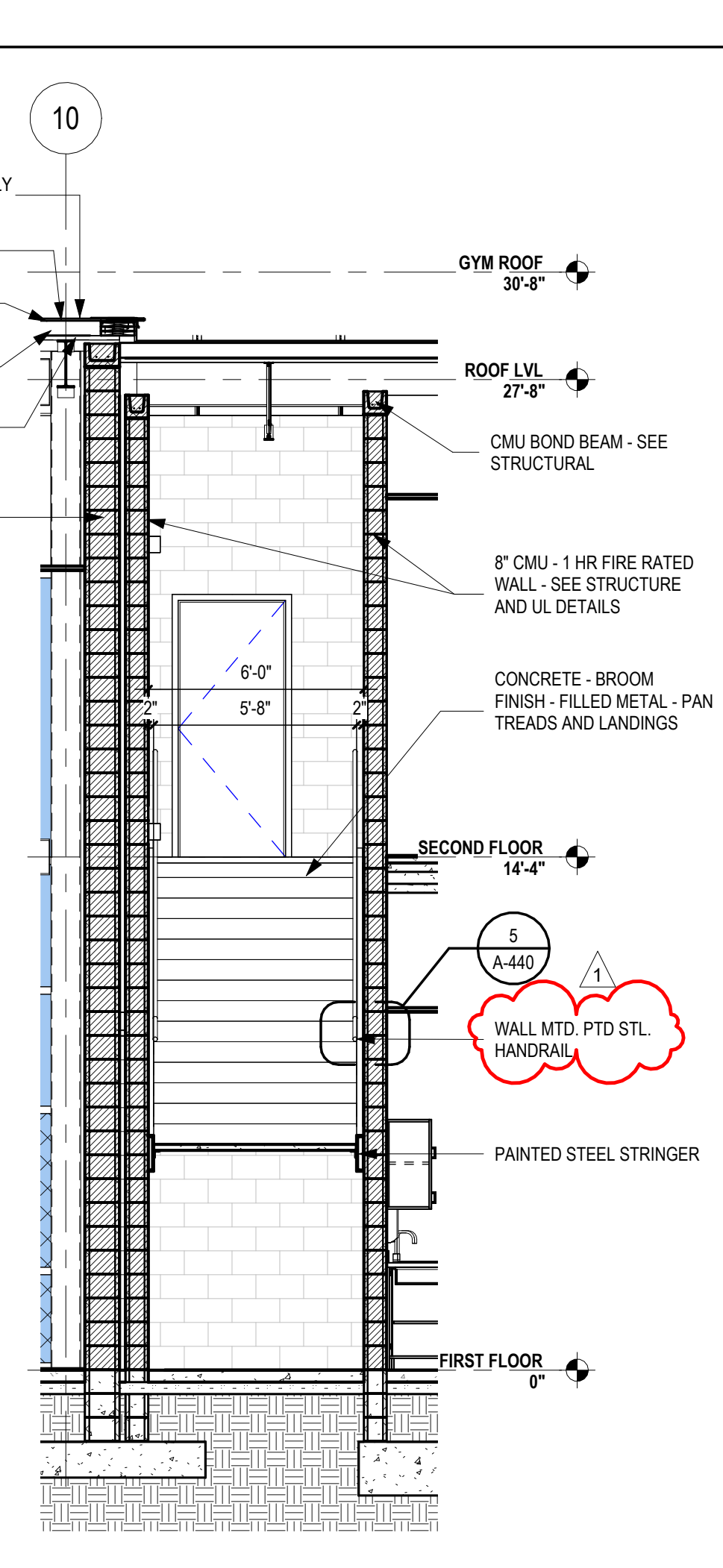


1 ENLARGED FLOOR PLAN - MS SCIENCE 2225
A-413 SCALE: 1/4" = 1'-0"

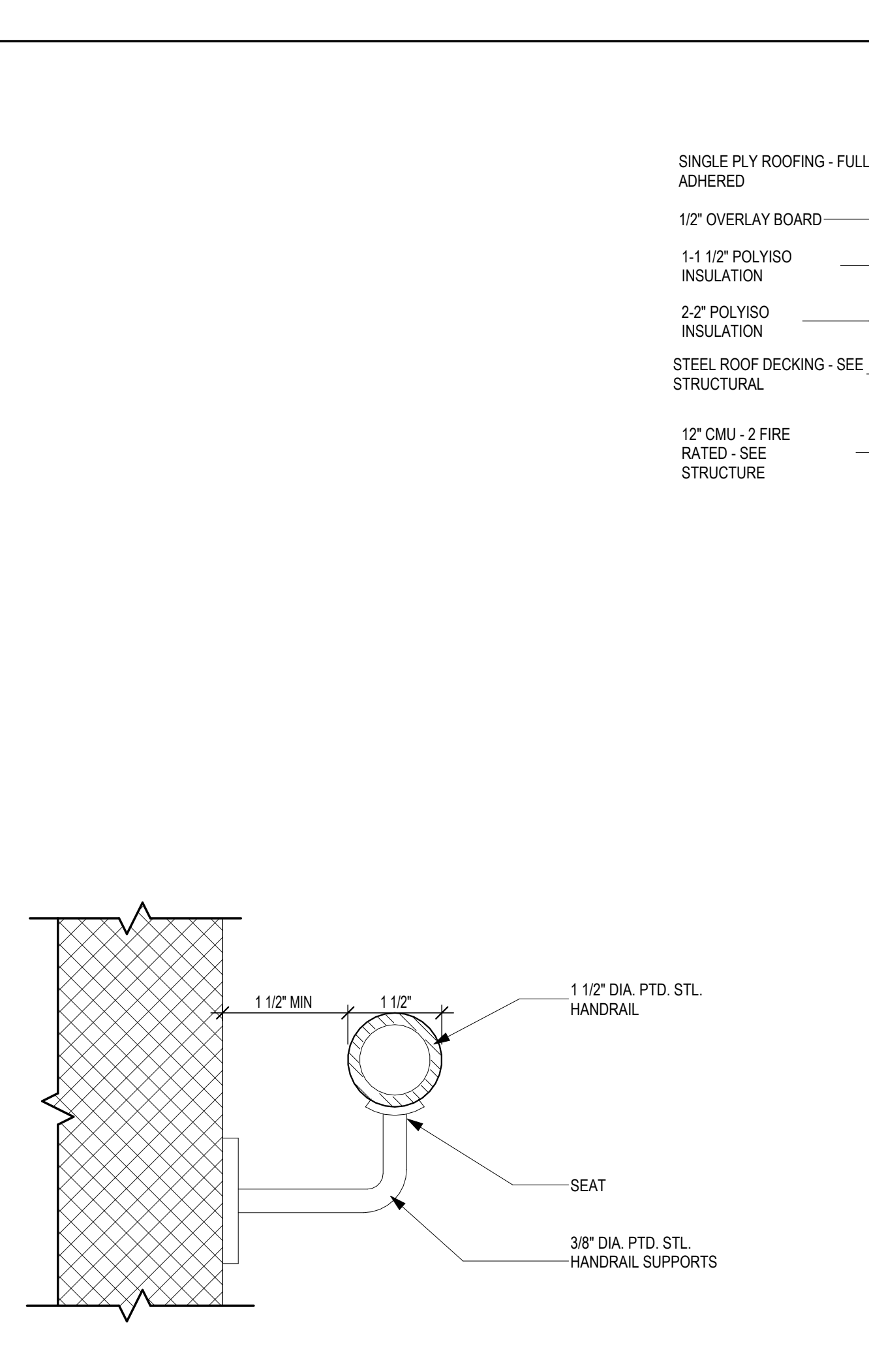




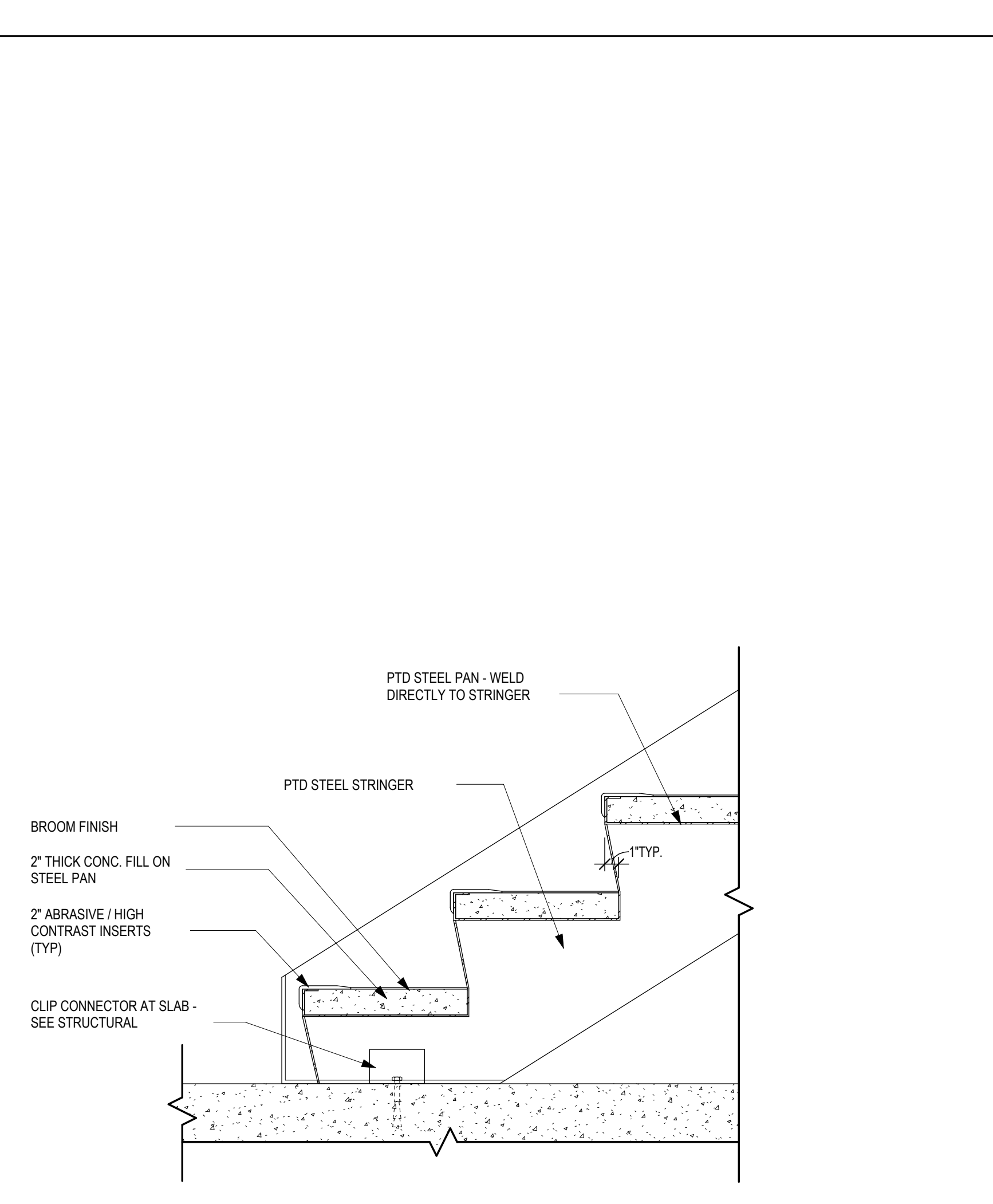
3 STAIR 01 SECTION - 01
SCALE: 1/4" = 1'-0"



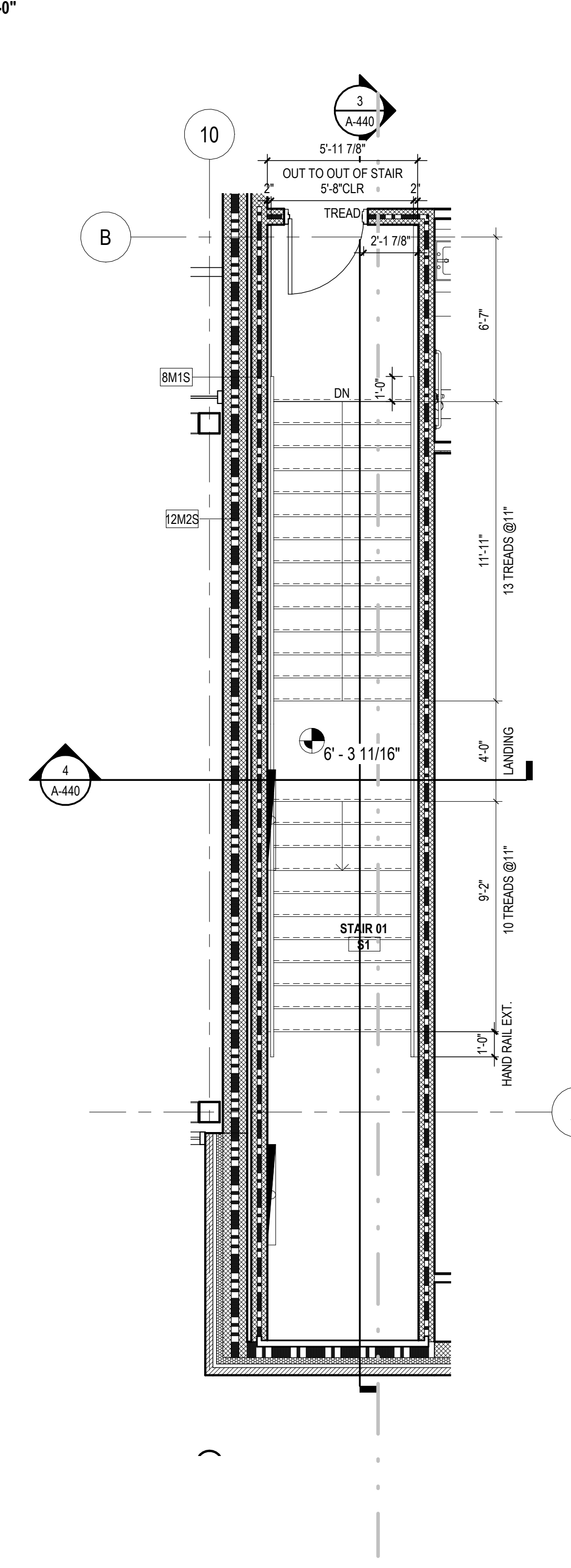
4 STAIR 01 SECTION - 02
SCALE: 1/4" = 1'-0"



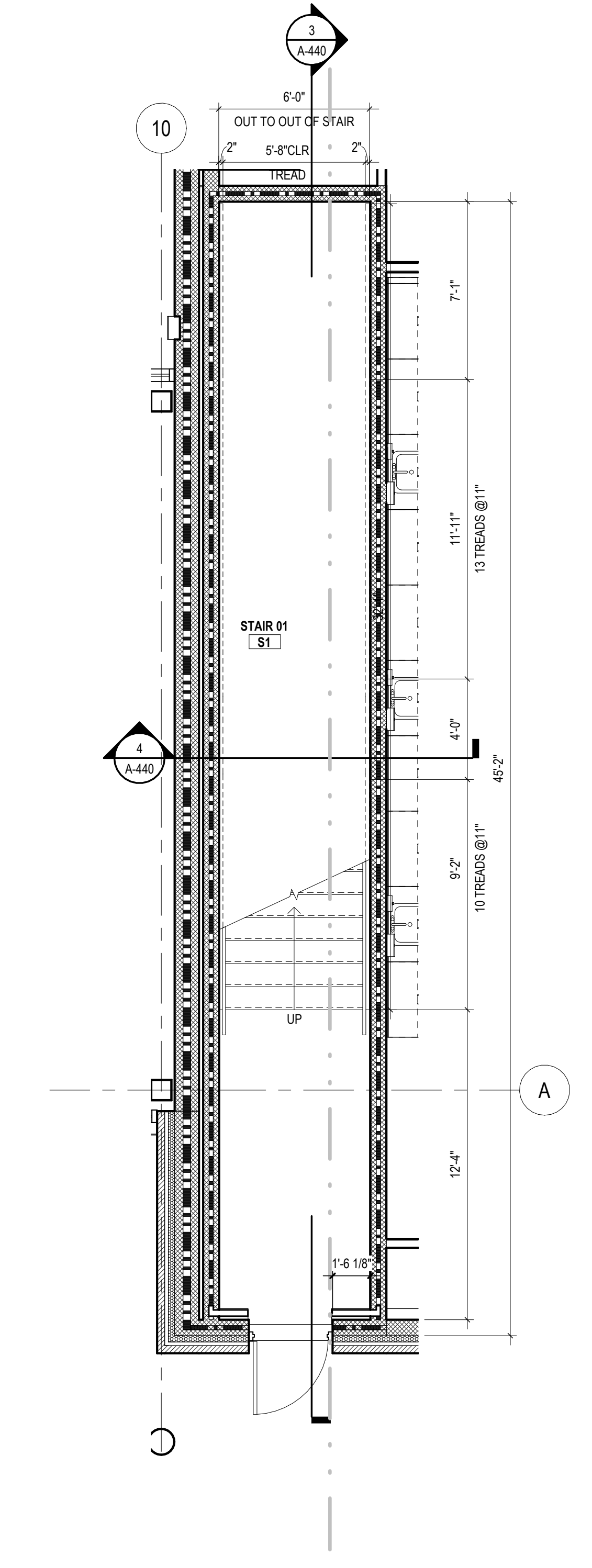
5 WALL MTD. HANDRAIL
SCALE: 6" = 1'-0"



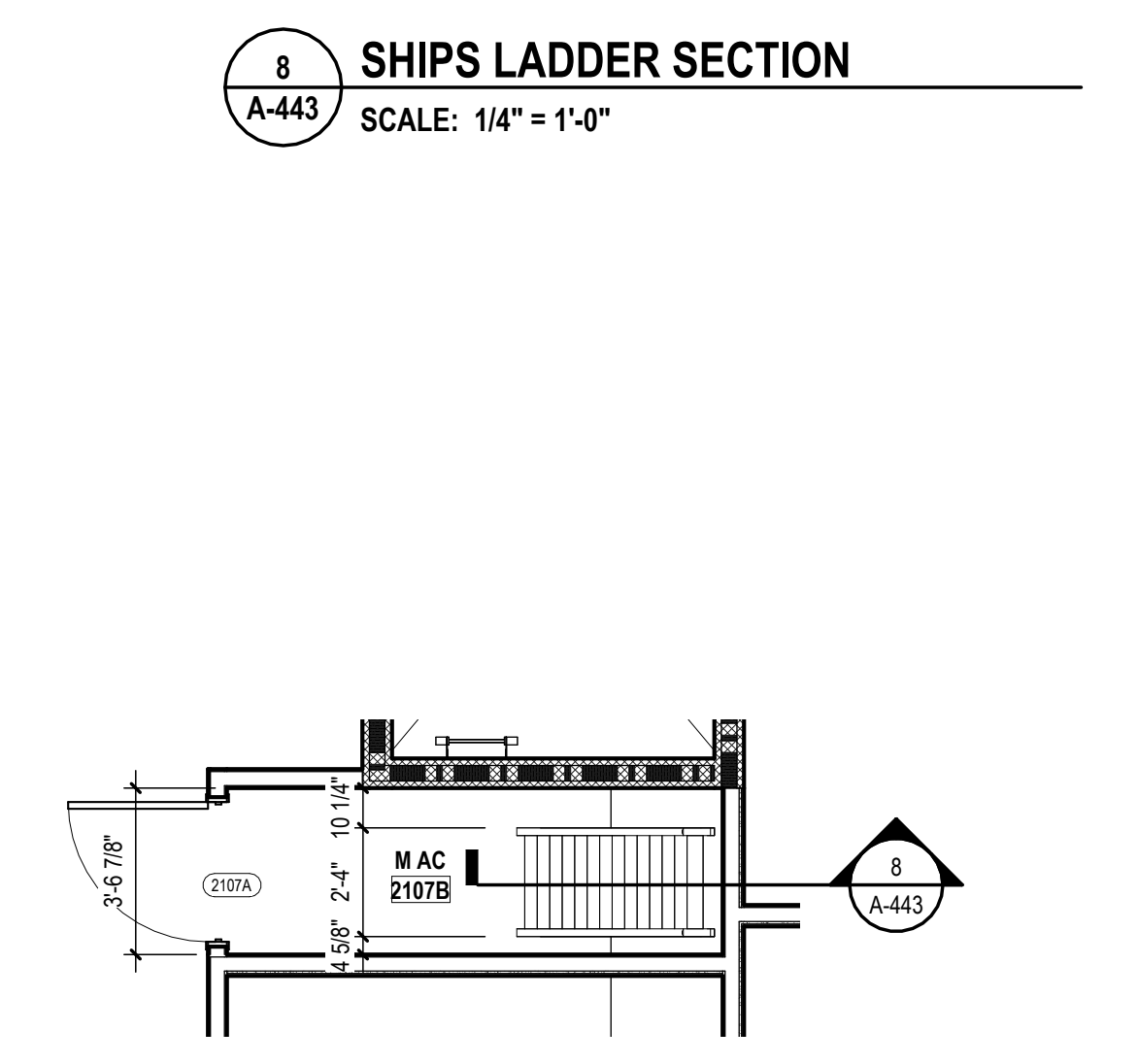
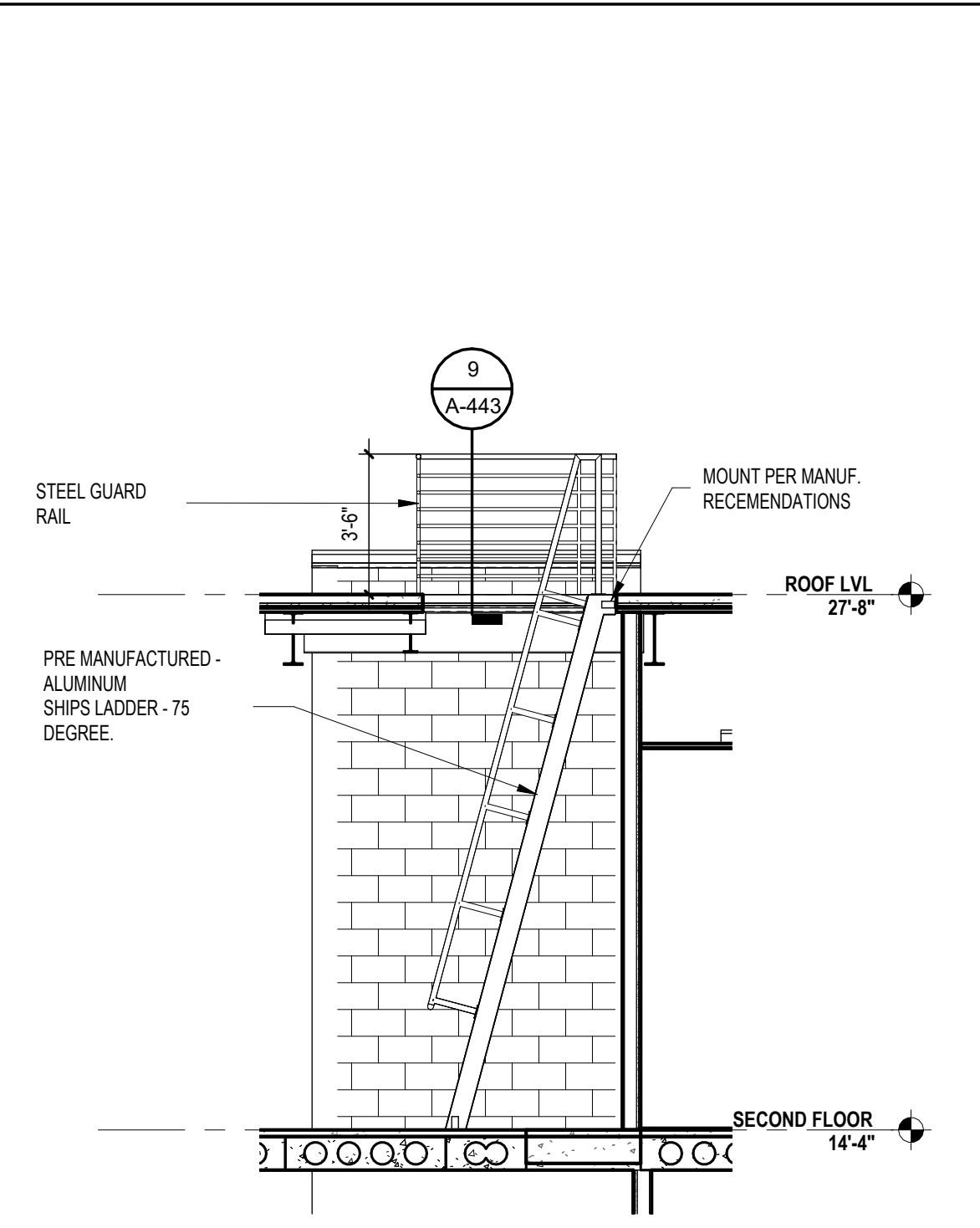
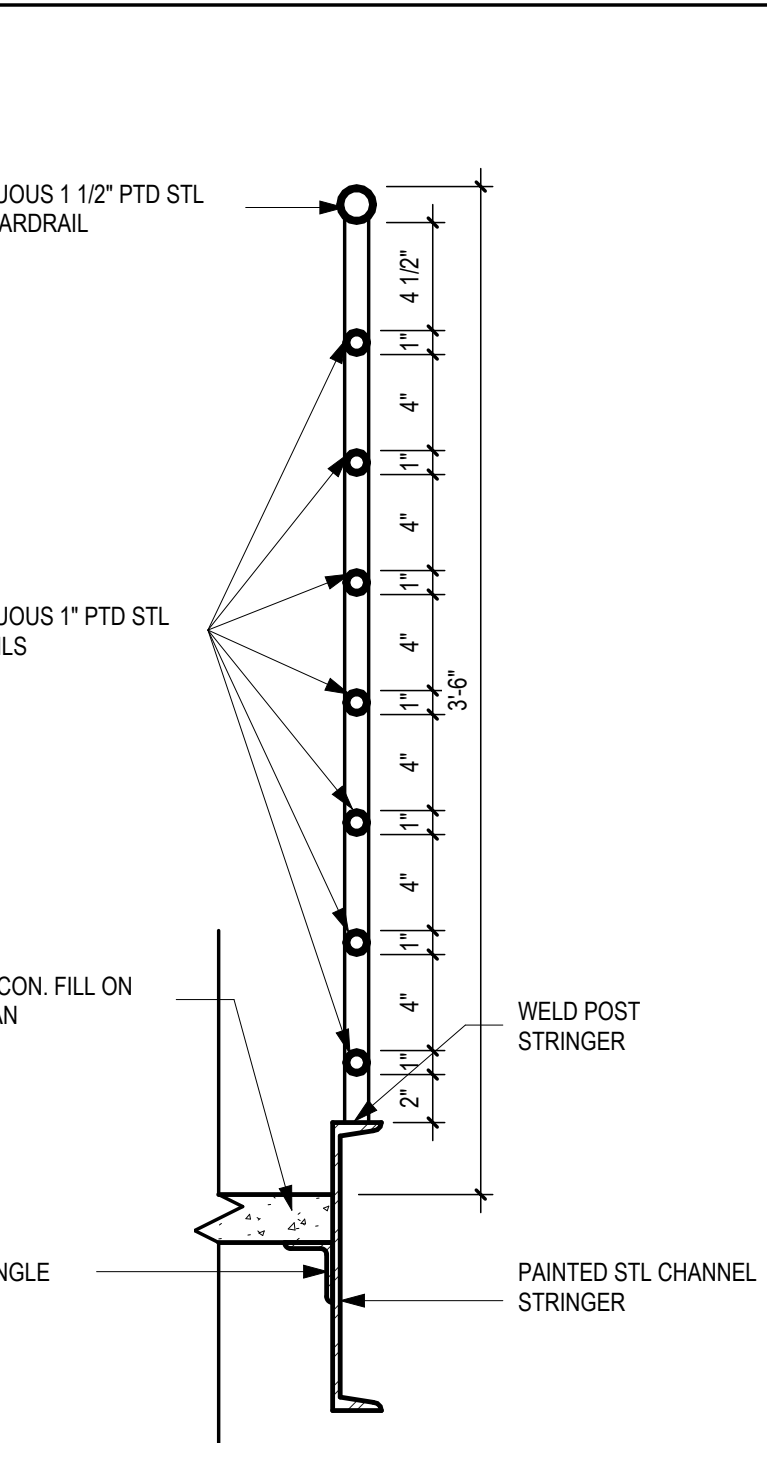
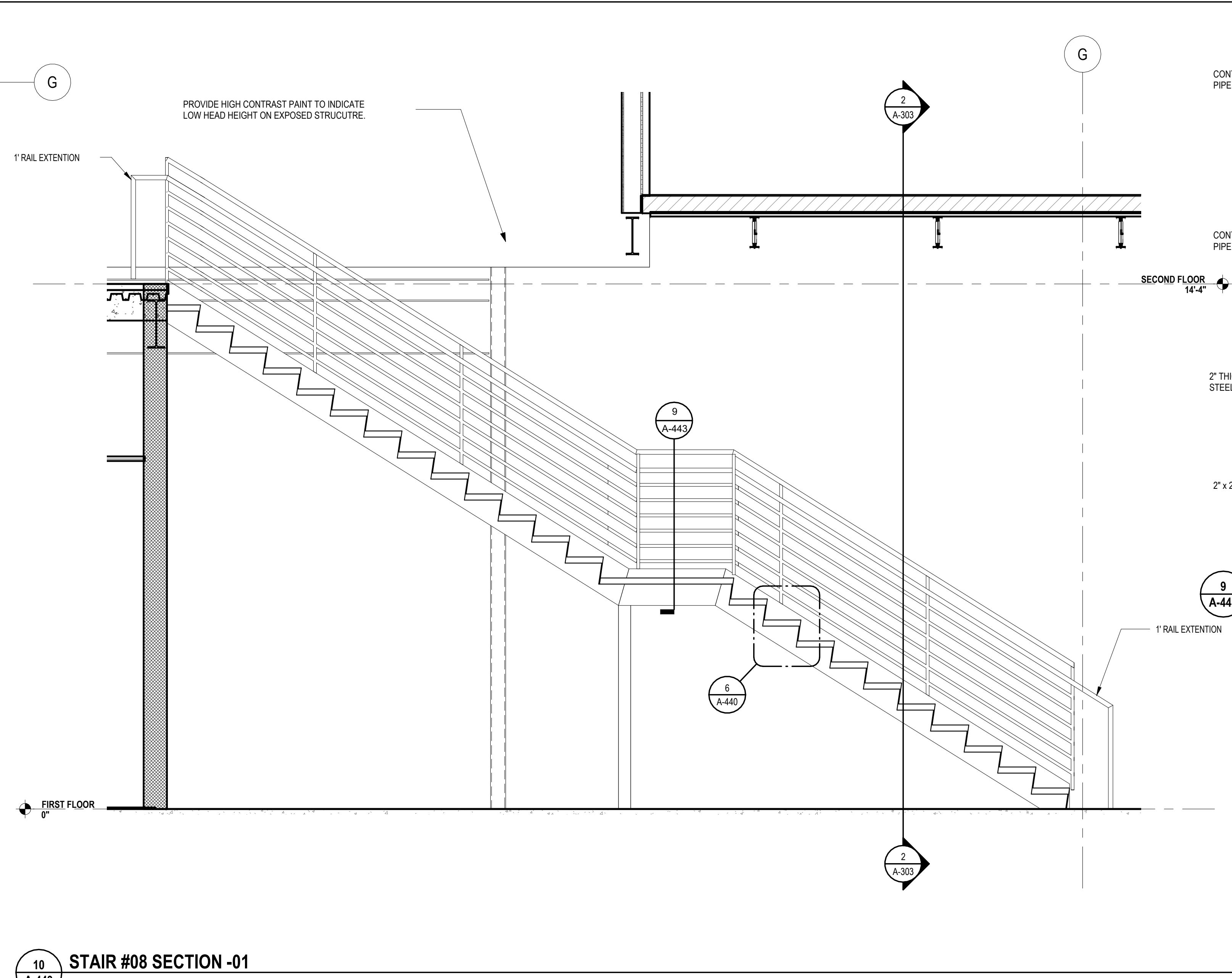
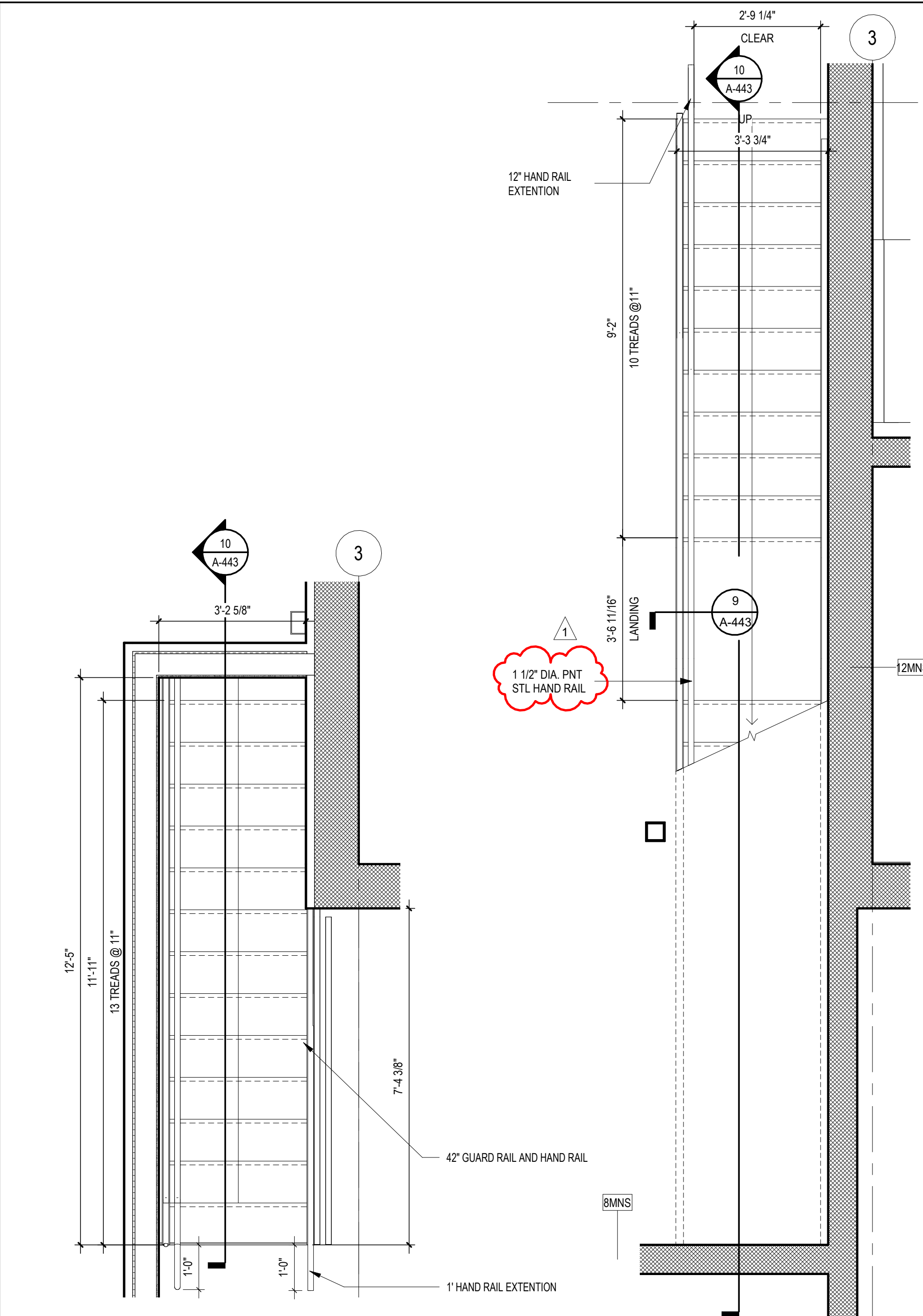
6 EGRESS STAIR TREAD TYPICAL - STEEL RISER
SCALE: 1 1/2" = 1'-0"



2 STAIR 01 FLOOR PLAN - LEVEL 02
SCALE: 1/4" = 1'-0"

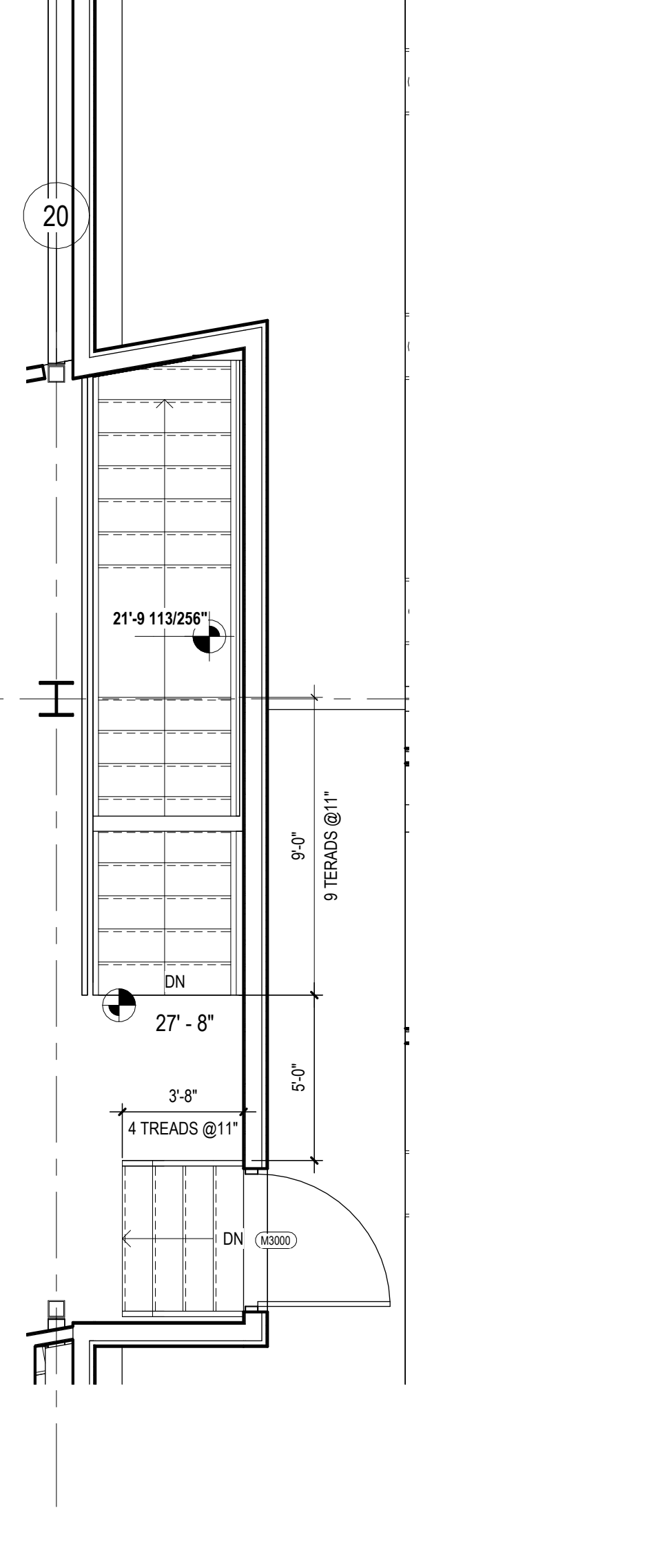
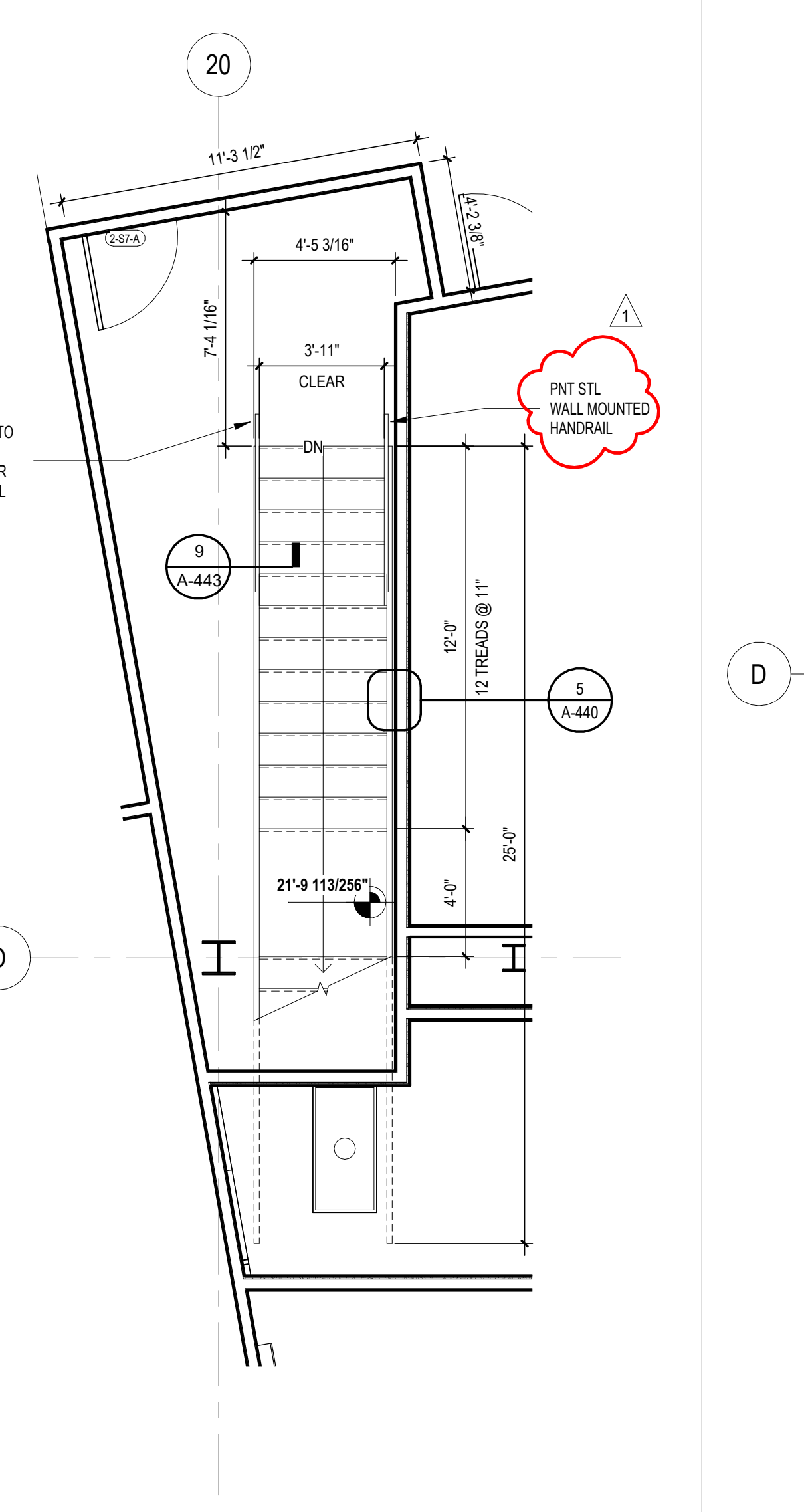
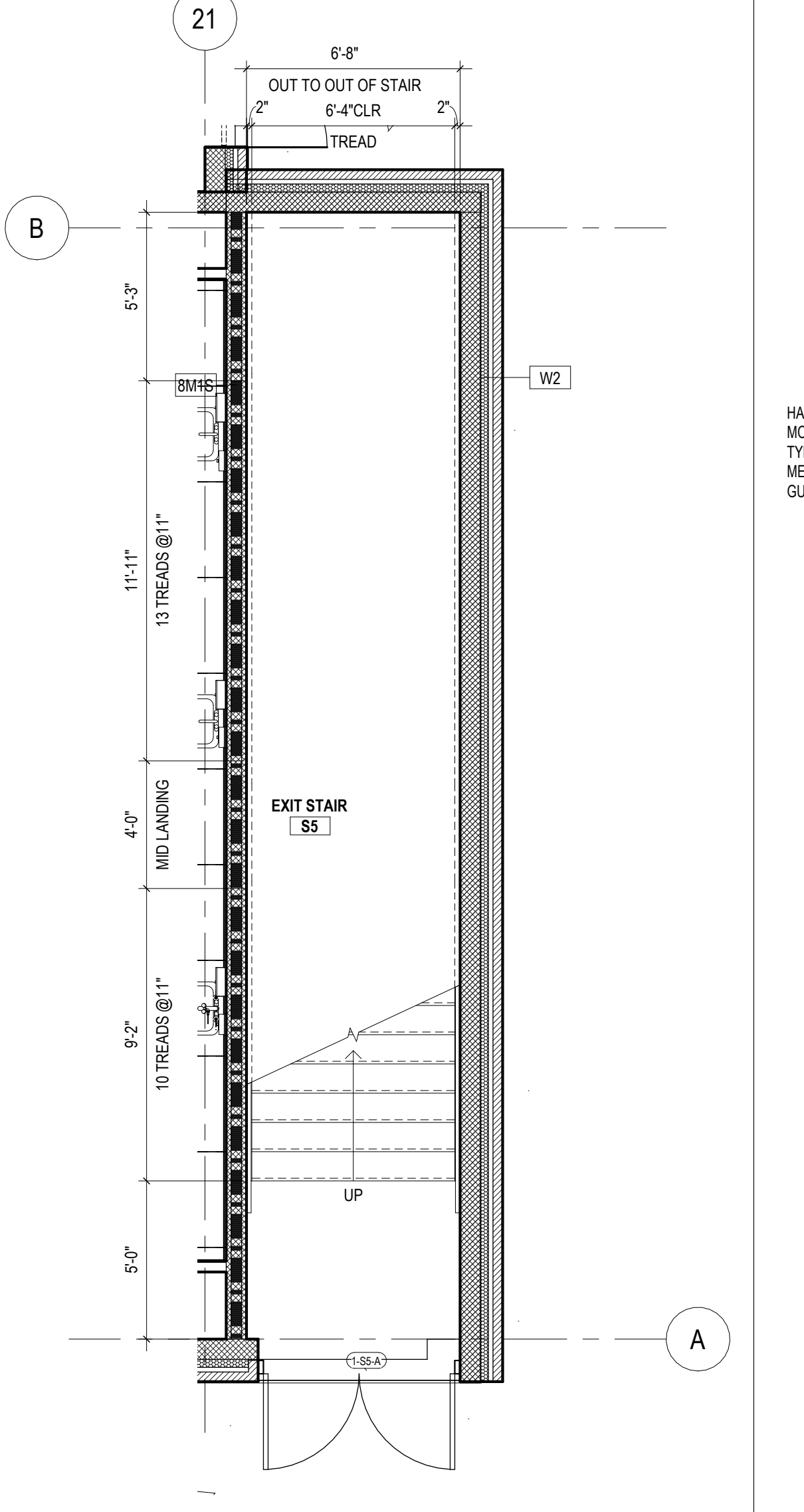
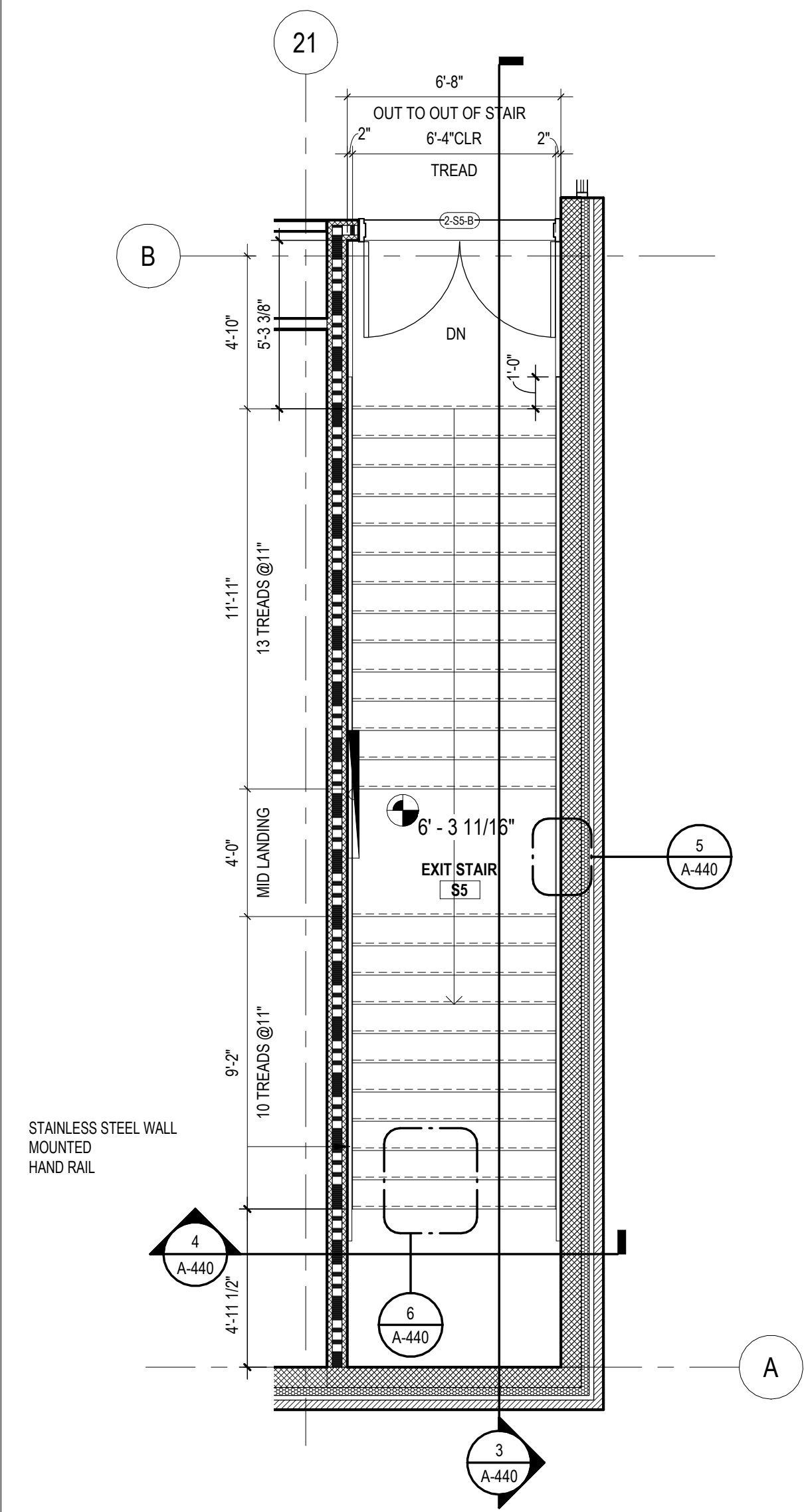
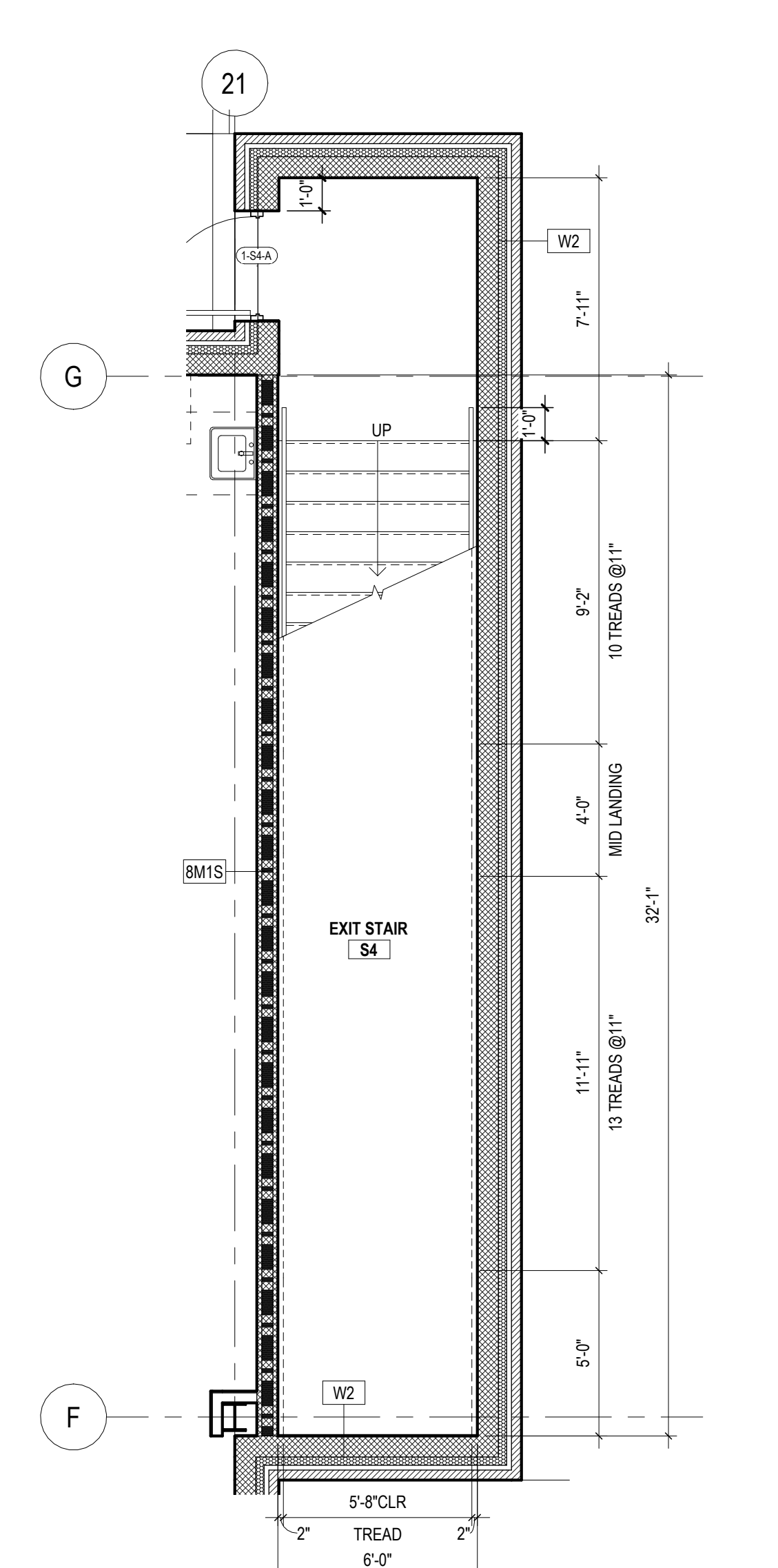
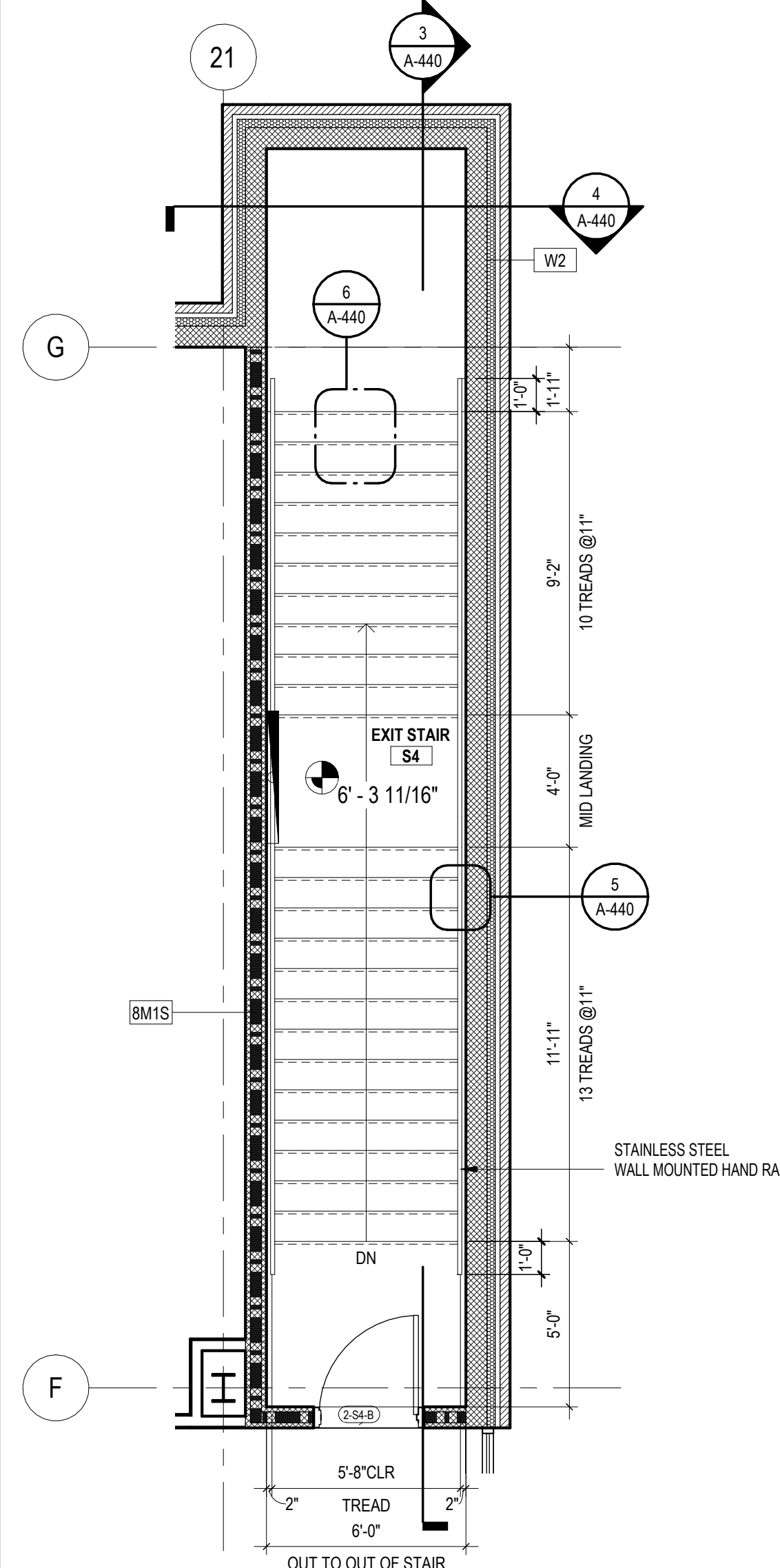


1 STAIR 01 FLOOR PLAN - LEVEL 01
SCALE: 1/4" = 1'-0"



12 STAIR #08 FLOOR PLAN - LEVEL 02
A-443 SCALE: 1/2" = 1'-0"

11 STAIR #08 FLOOR PLAN - LEVEL 01
A-443 SCALE: 1/2" = 1'-0"



6 STAIR 04 FLOOR PLAN - LEVEL 02
A-443 SCALE: 1/4" = 1'-0"
FOR TYPICAL NOTES REFERENCE STAIR #1 - SHEET A-440

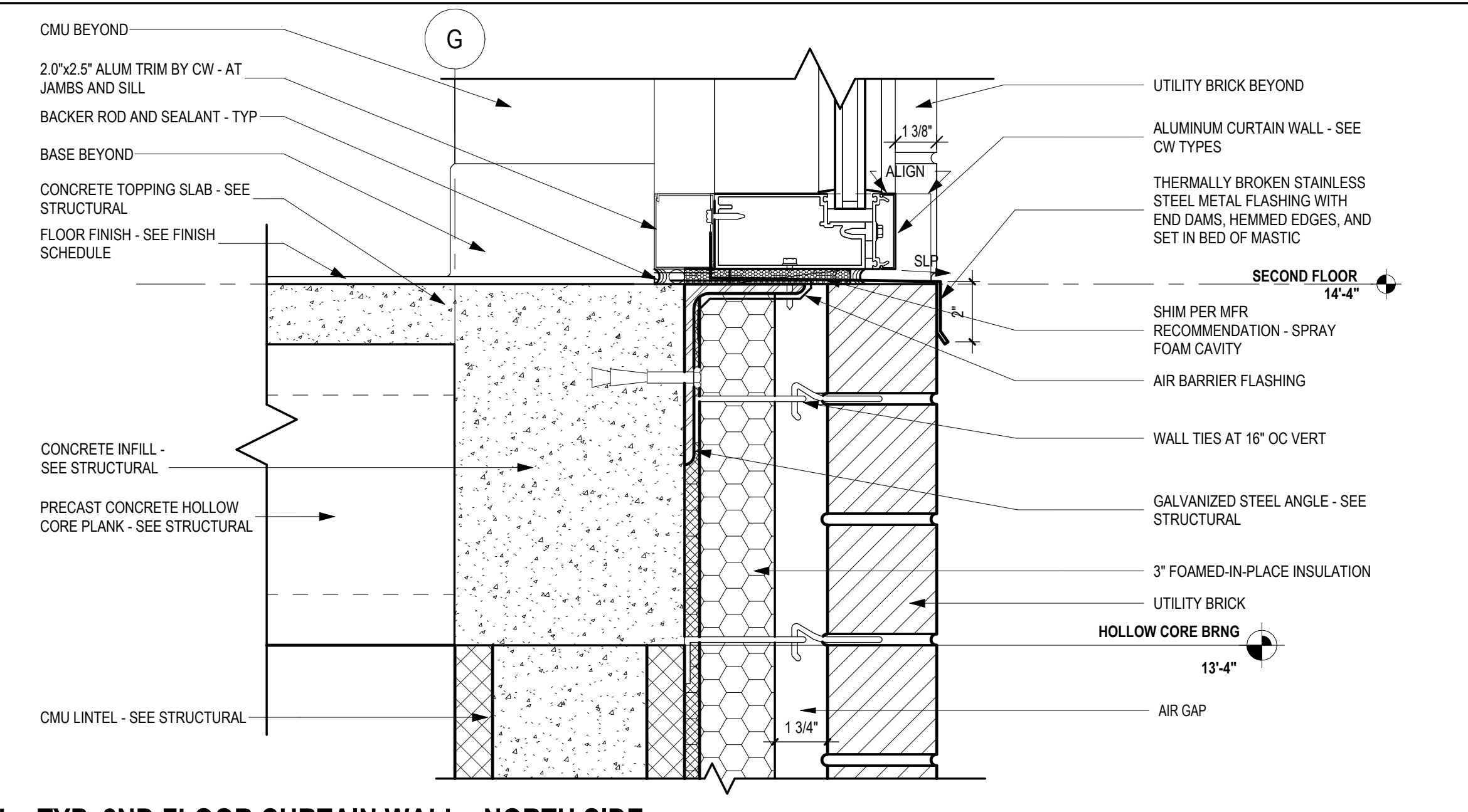
5 STAIR 04 FLOOR PLAN - LEVEL 01
A-443 SCALE: 1/4" = 1'-0"
FOR TYPICAL NOTES REFERENCE STAIR #1 - SHEET A-440

4 STAIR 05 FLOOR PLAN - LEVEL 02
A-443 SCALE: 1/4" = 1'-0"
FOR TYPICAL NOTES REFERENCE STAIR #1 - SHEET A-440

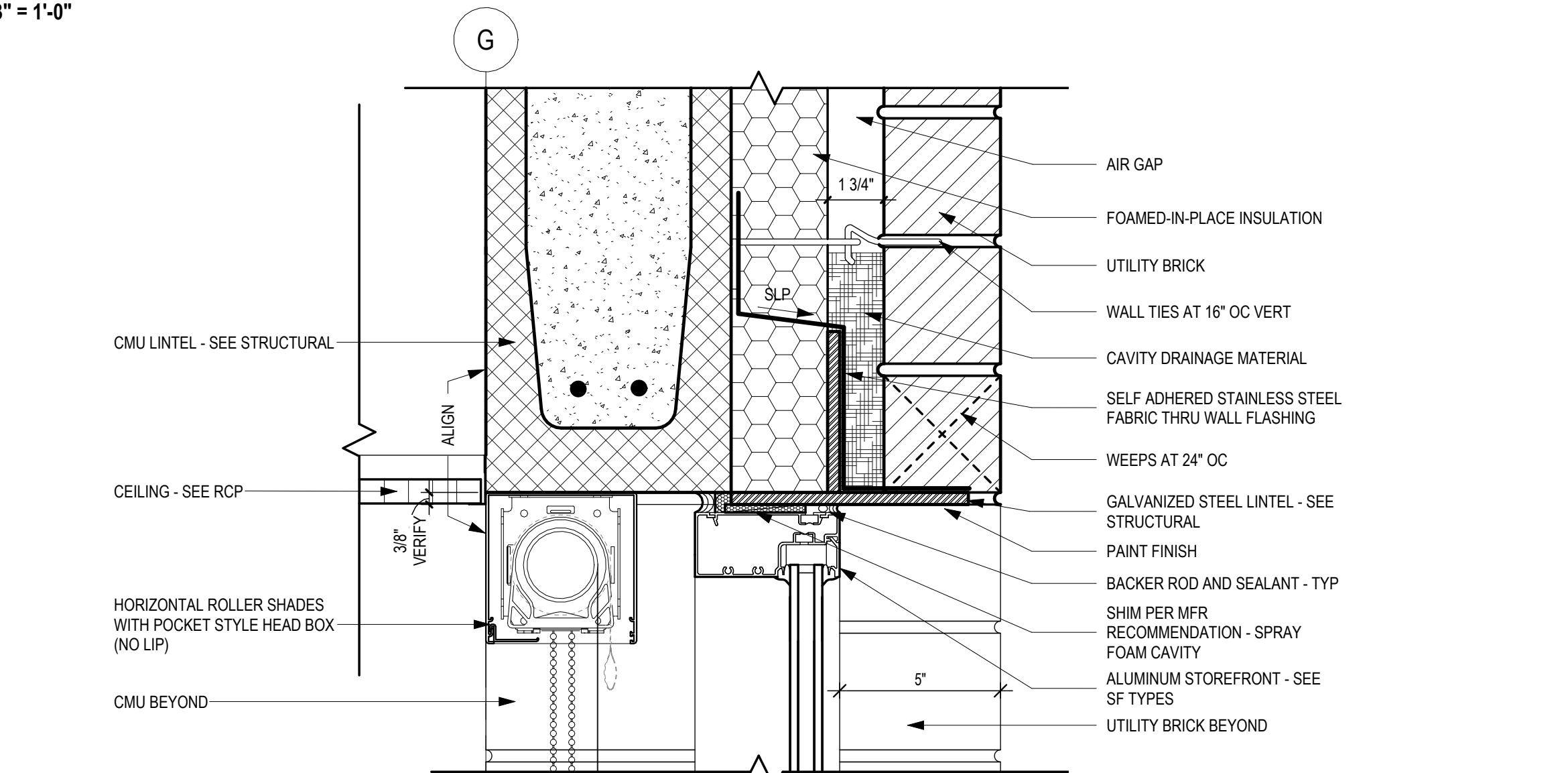
3 STAIR 05 FLOOR PLAN - LEVEL 01
A-443 SCALE: 1/4" = 1'-0"
FOR TYPICAL NOTES REFERENCE STAIR #1 - SHEET A-440

2 STAIR 07 FLOOR PLAN
A-443 SCALE: 1/4" = 1'-0"
FOR TYPICAL NOTES REFERENCE STAIR #1 - SHEET A-440

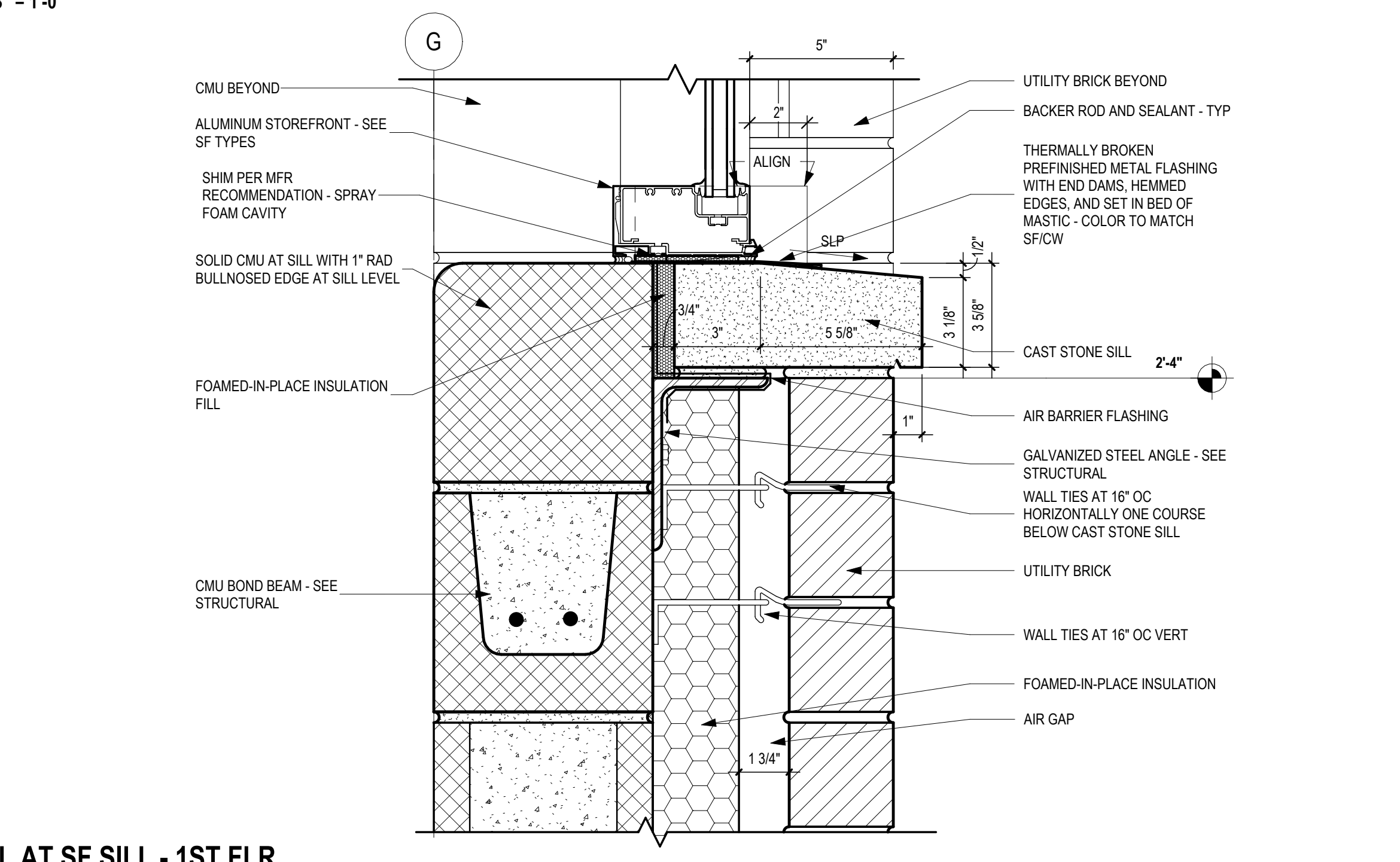
1 STAIR 07 FLOOR PLAN - MEZZANINE
A-443 SCALE: 1/4" = 1'-0"



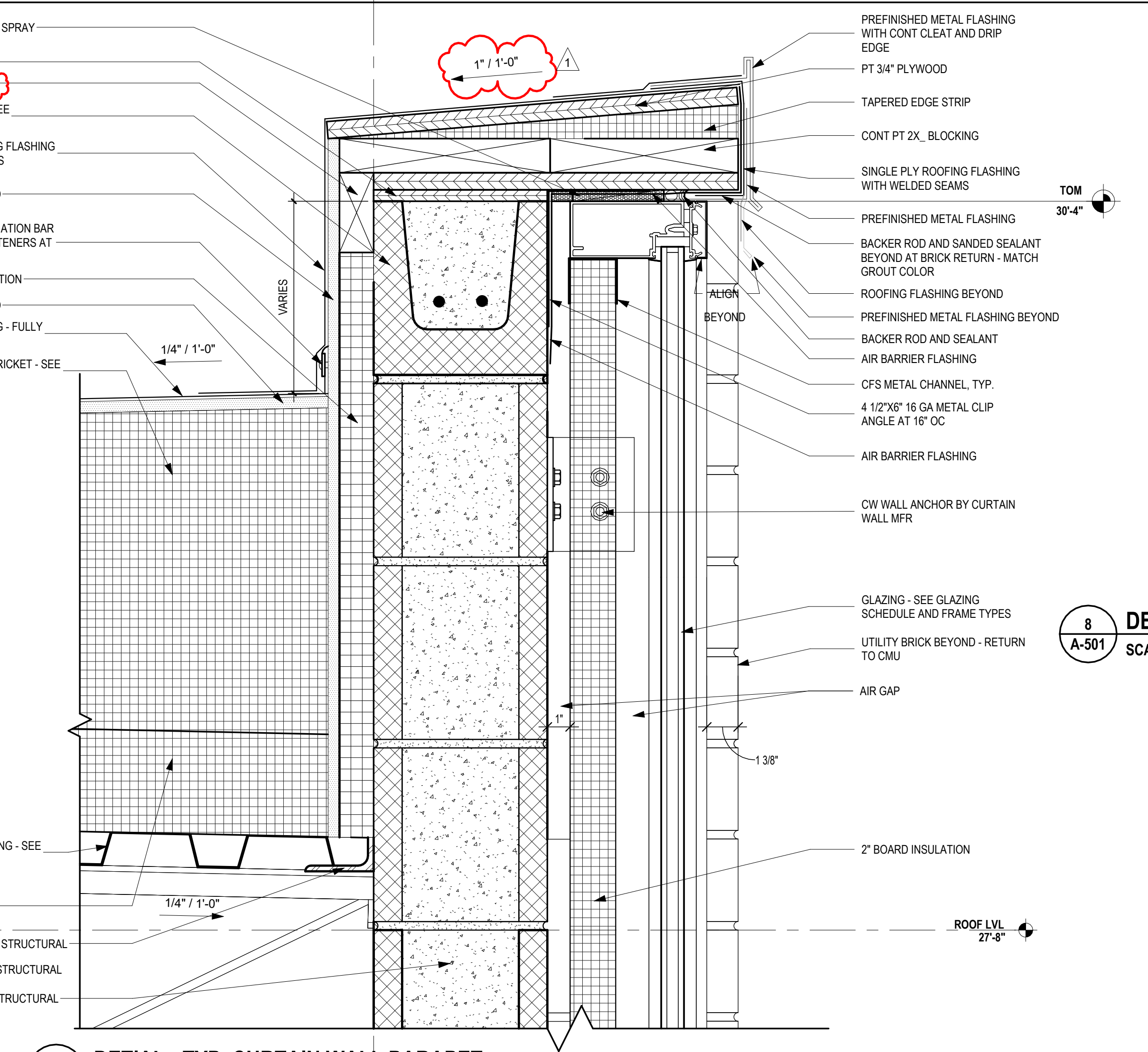
8 DETAIL - TYP. 2ND FLOOR CURTAIN WALL - NORTH SIDE
SCALE: 3" = 1'-0"



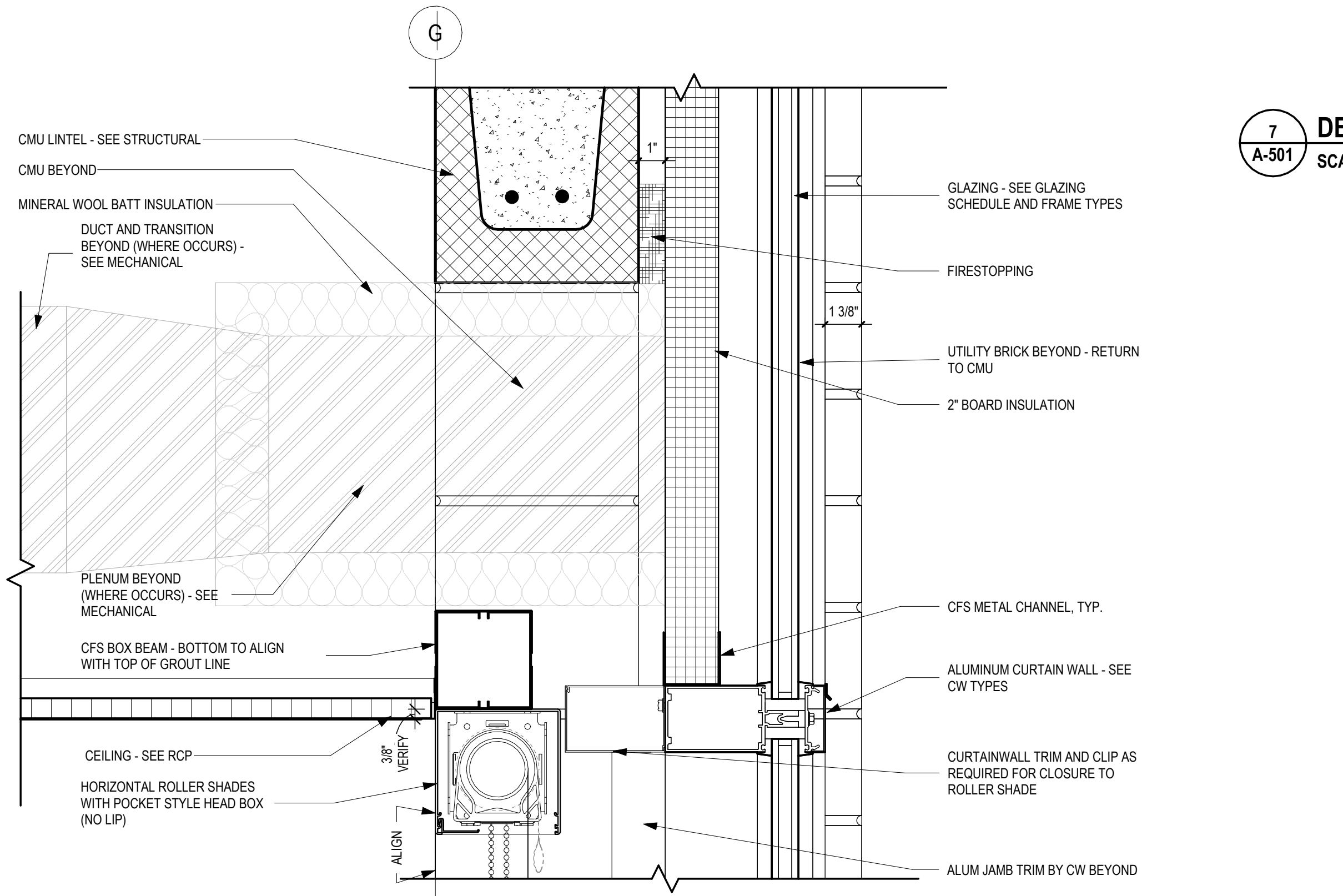
7 DETAIL - TYP. STOREFRONT HEAD @ MASONRY
SCALE: 3" = 1'-0"



6 DETAIL - CURTAIN WALL @ FLOOR
SCALE: 3" = 1'-0"

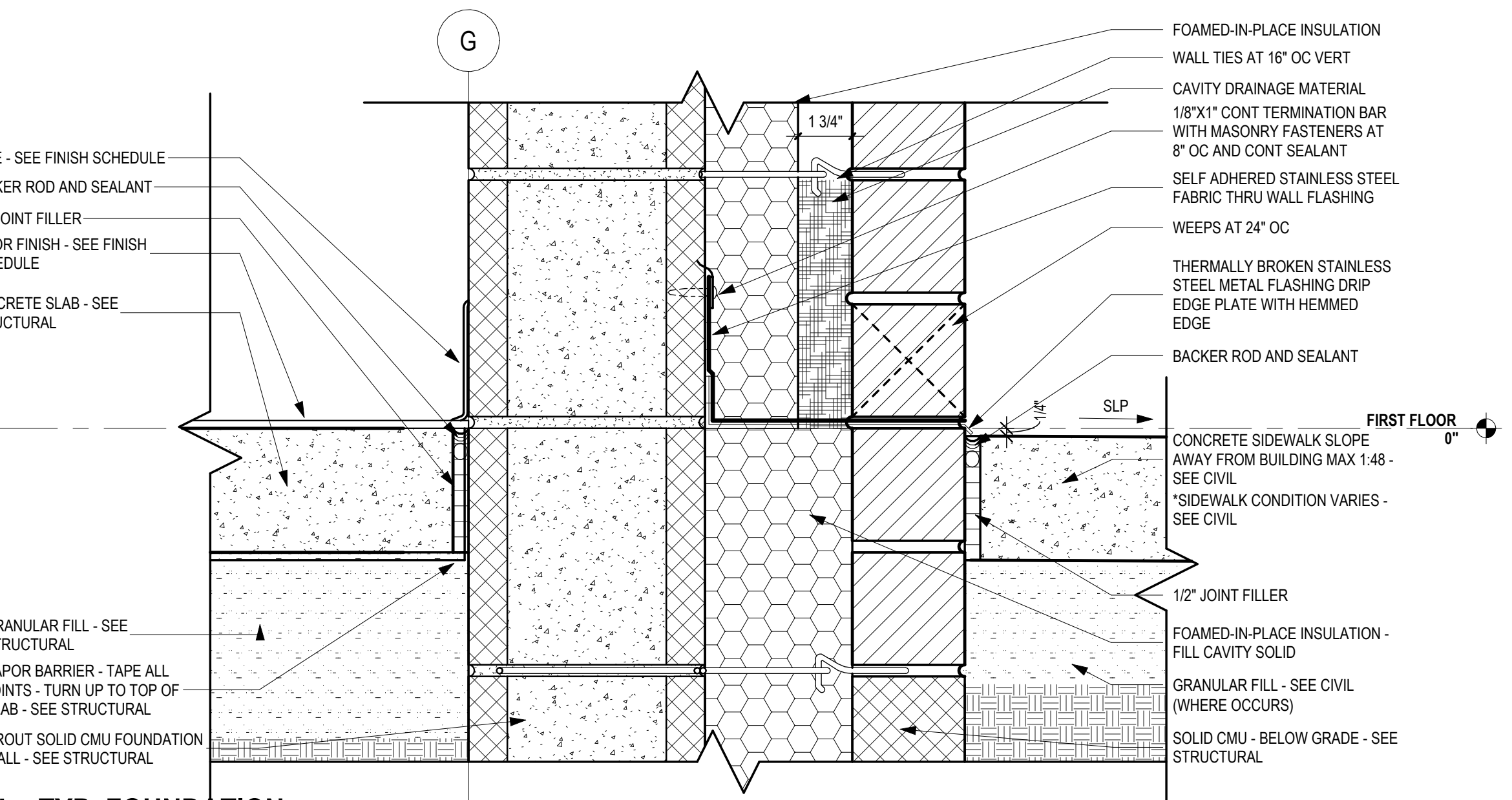


9 DETIAL - TYP. CURTAIN WALL PARAPET
SCALE: 3" = 1'-0"



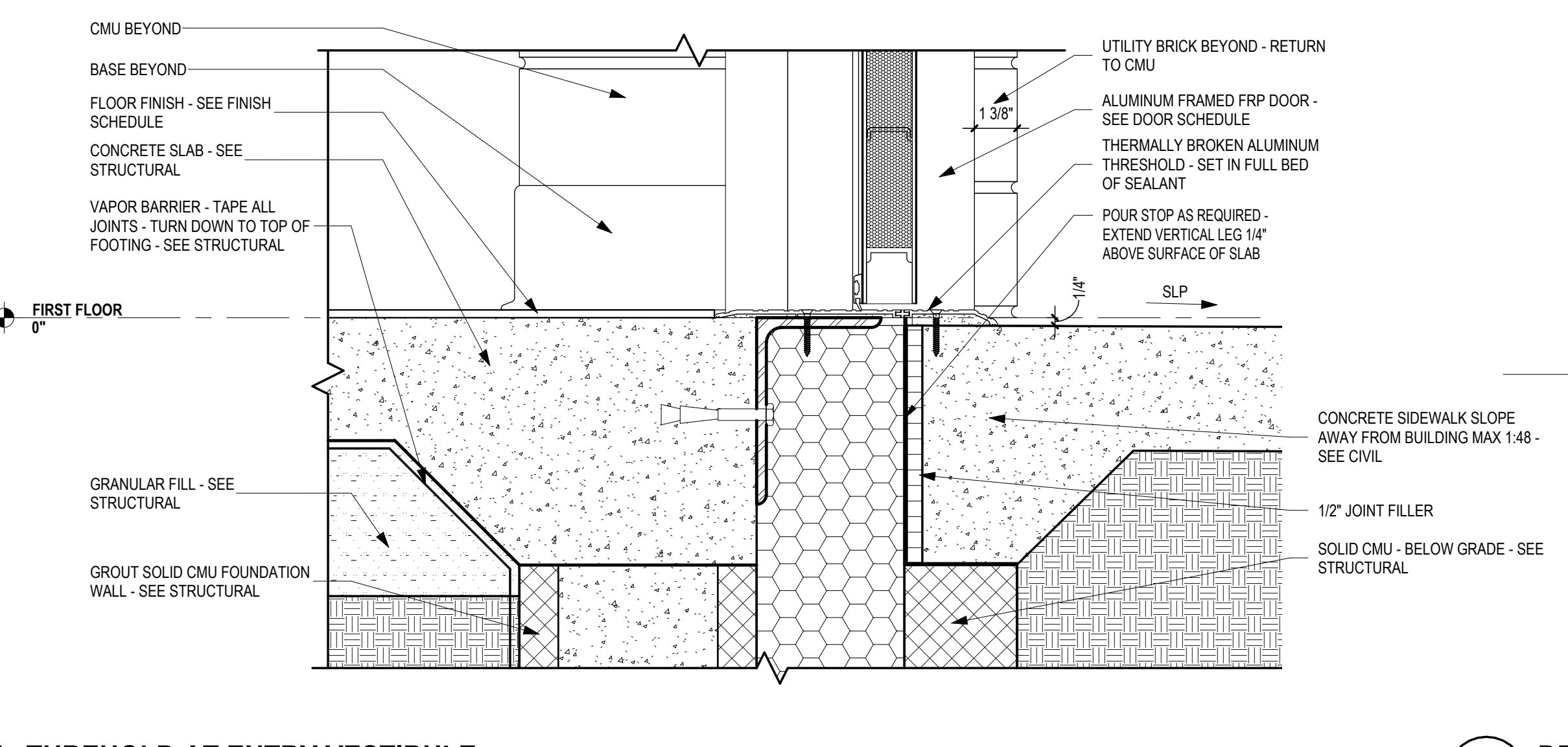
5 DETAIL - TYP. 2ND FLOOR CUTAIN WALL MULLION @ CMU DETAIL
SCALE: 3" = 1'-0"

4 DETAIL AT SF SILL - 1ST FLR
SCALE: 3" = 1'-0"

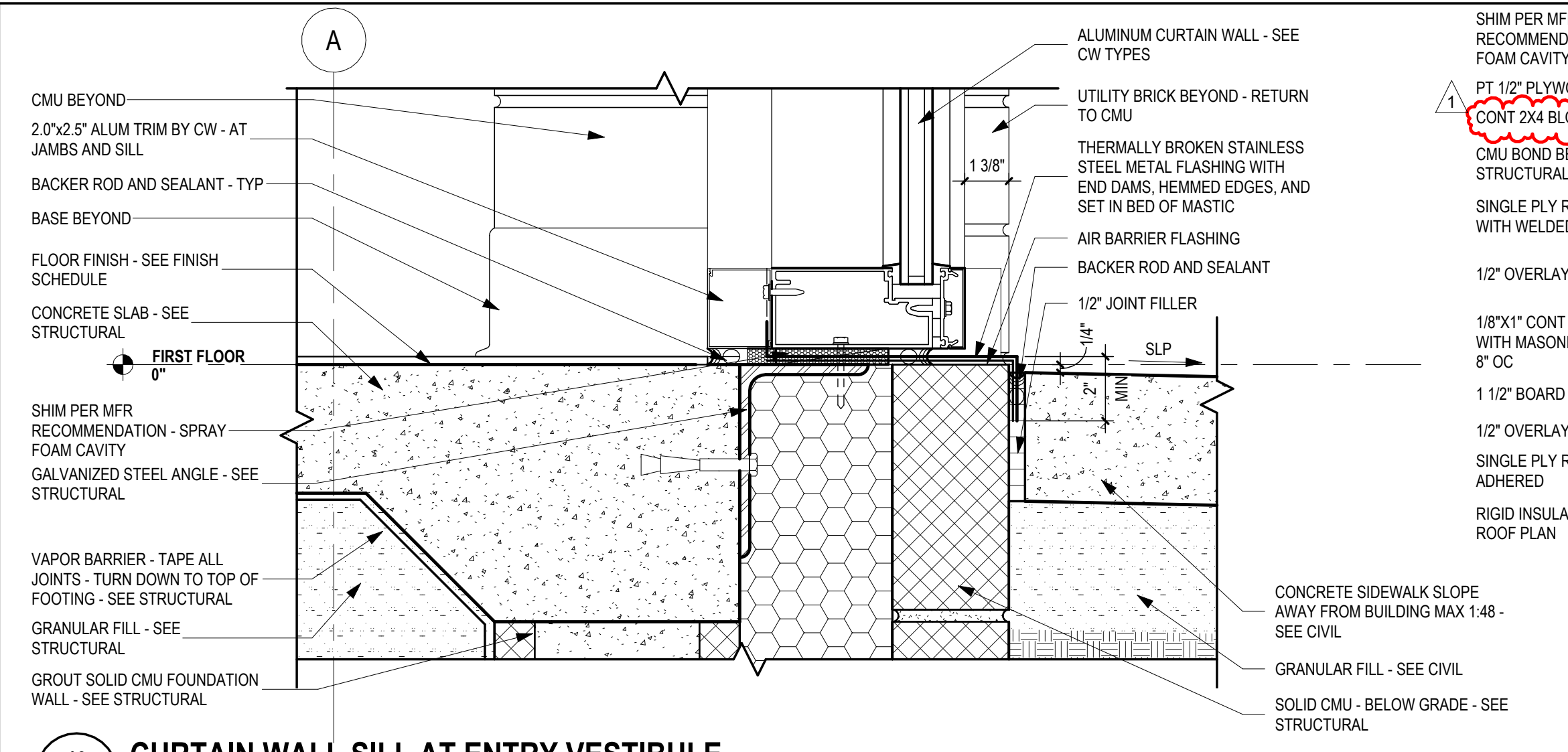


3 DETAIL - TYP. CURTAIN WALL @ FOUNDATION
SCALE: 3" = 1'-0"

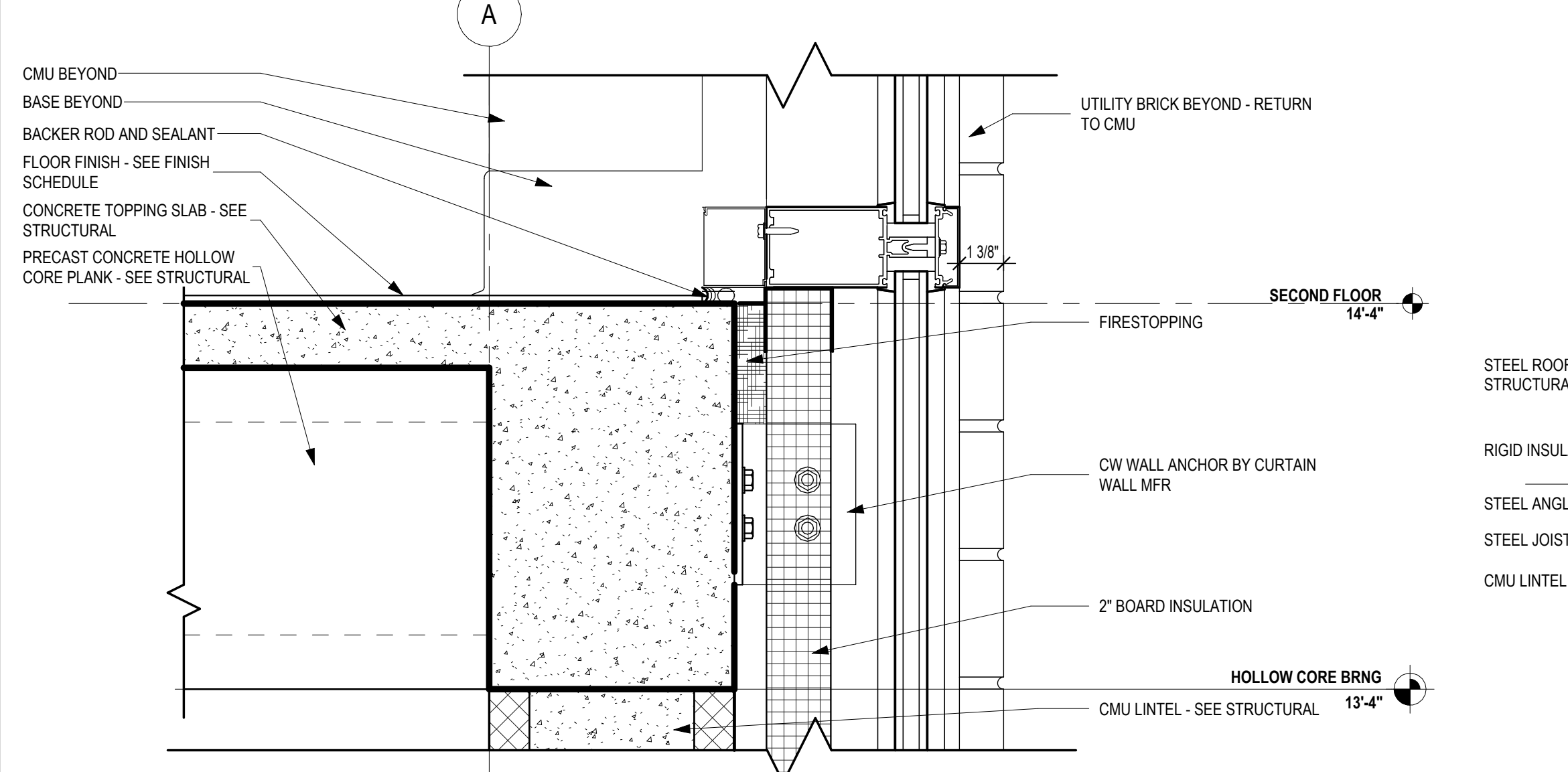
1 DETAIL - TYP. FOUNDATION
SCALE: 3" = 1'-0"



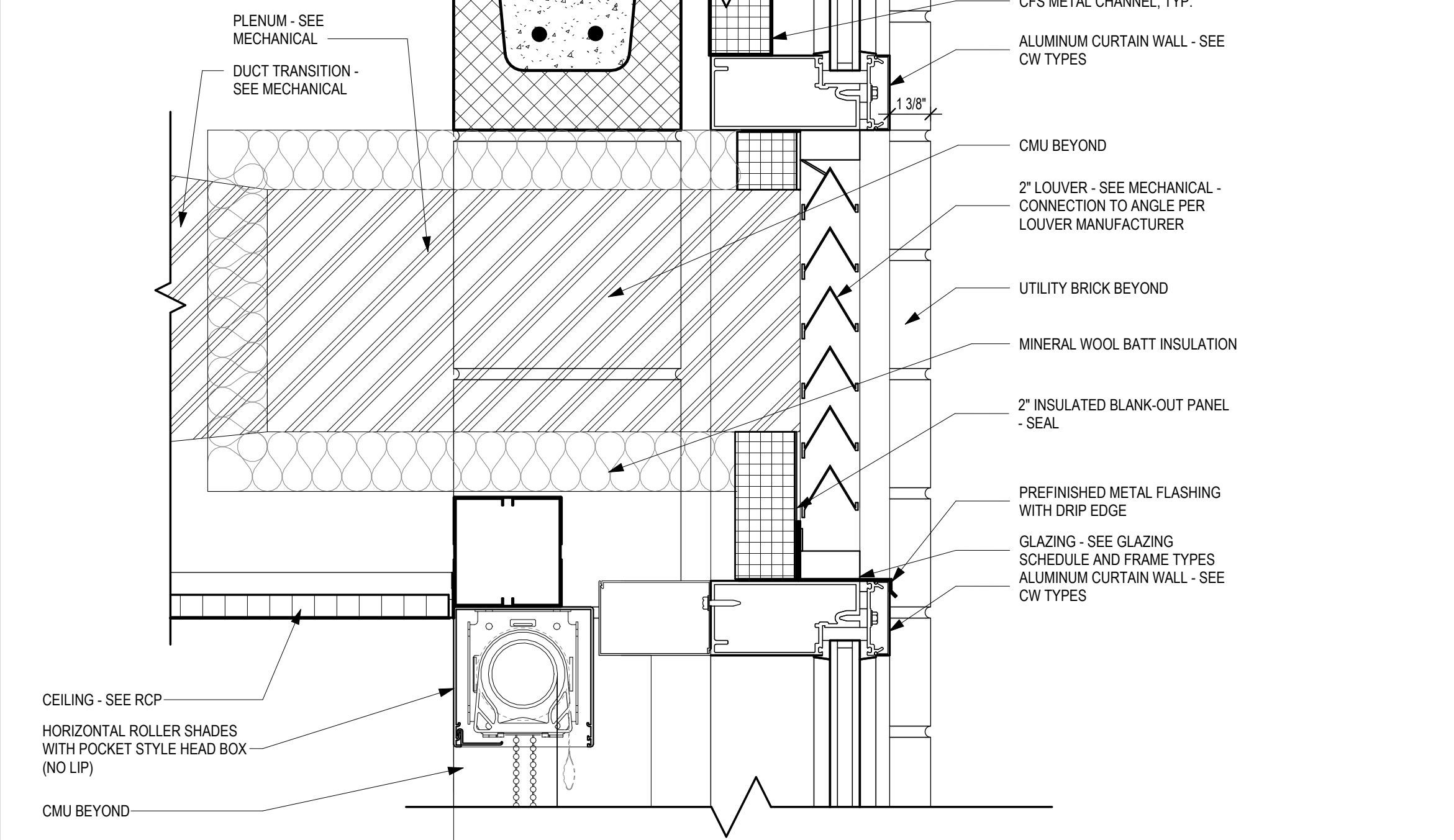
2 THRESHOLD AT ENTRY VESTIBULE
SCALE: 3" = 1'-0"



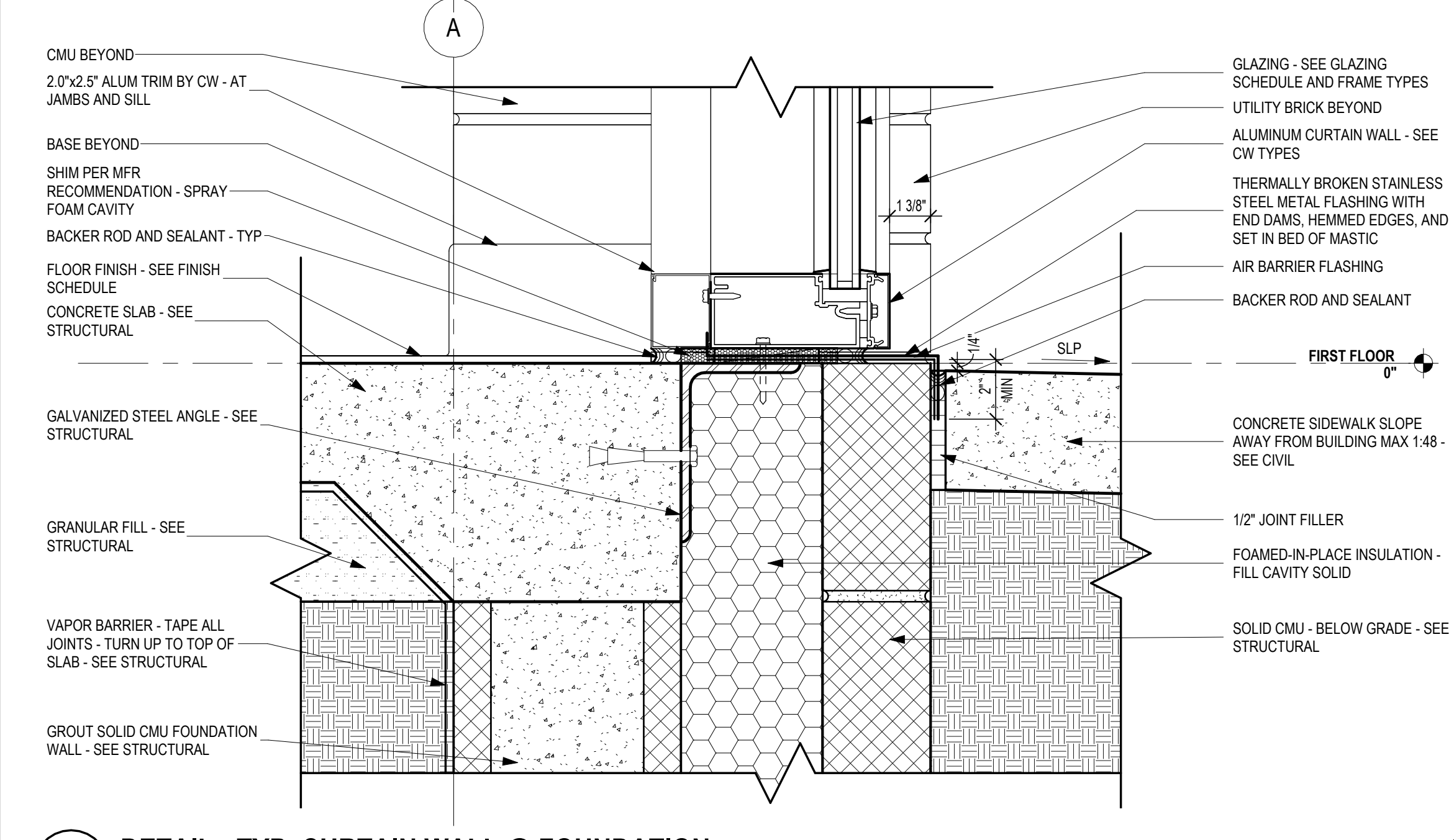
10 CURTAIN WALL SILL AT ENTRY VESTIBULE
SCALE: 3" = 1'-0"



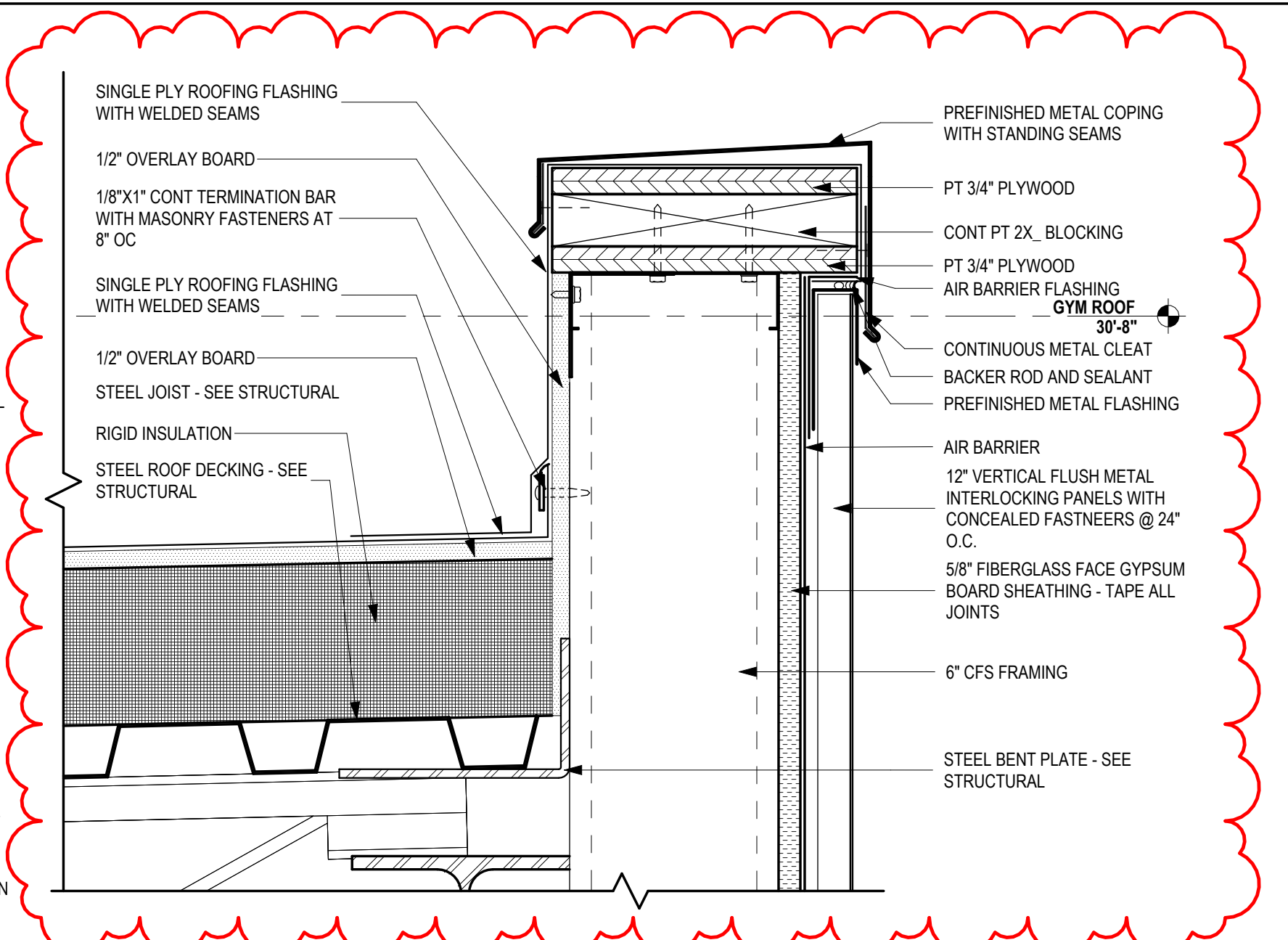
1 DETAIL - TYP. CURTAIN WALL @ FOUNDATION
SCALE: 3" = 1'-0"



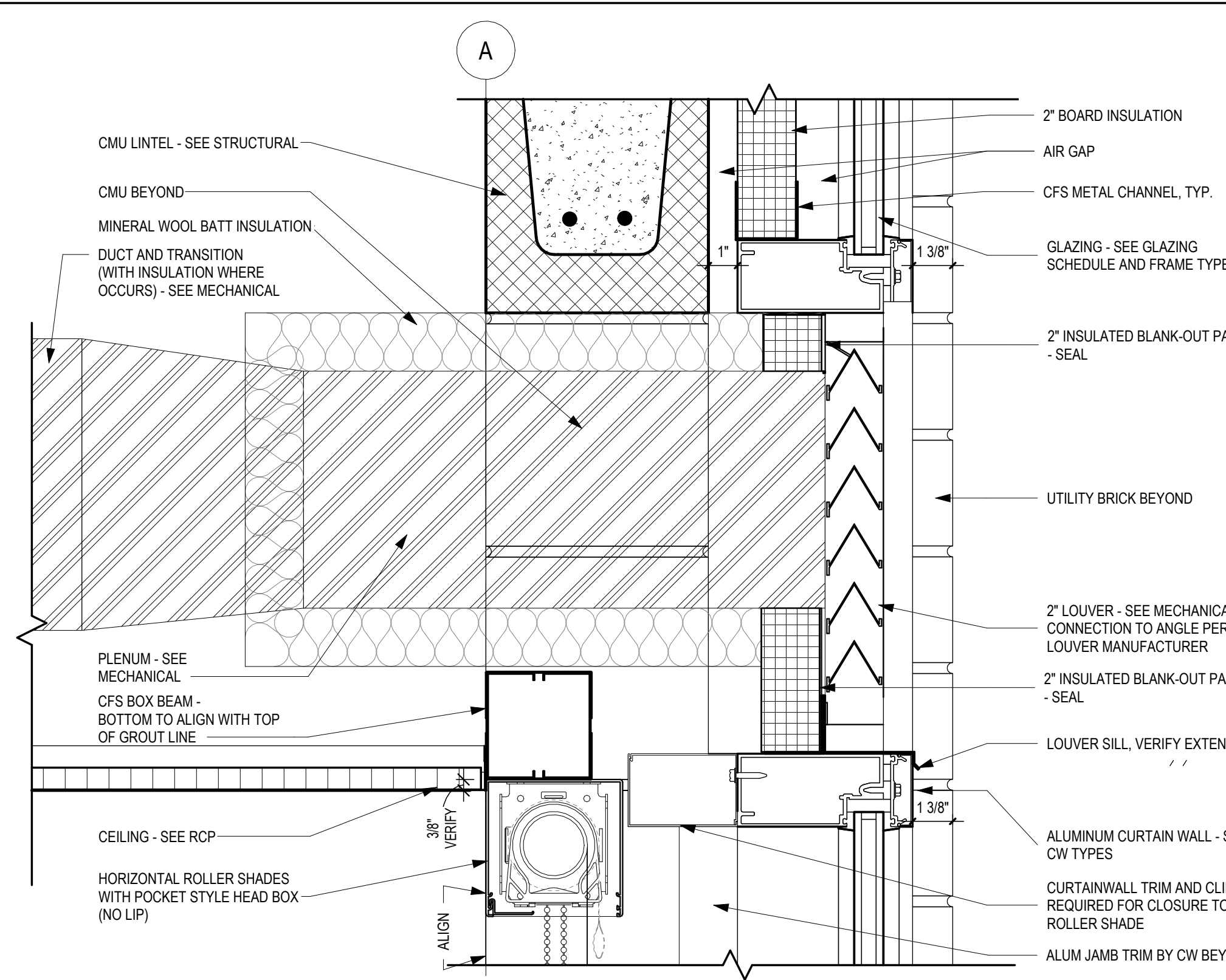
3 DETAIL - TYP. CURTAIN WALL @ FOUNDATION
SCALE: 3" = 1'-0"



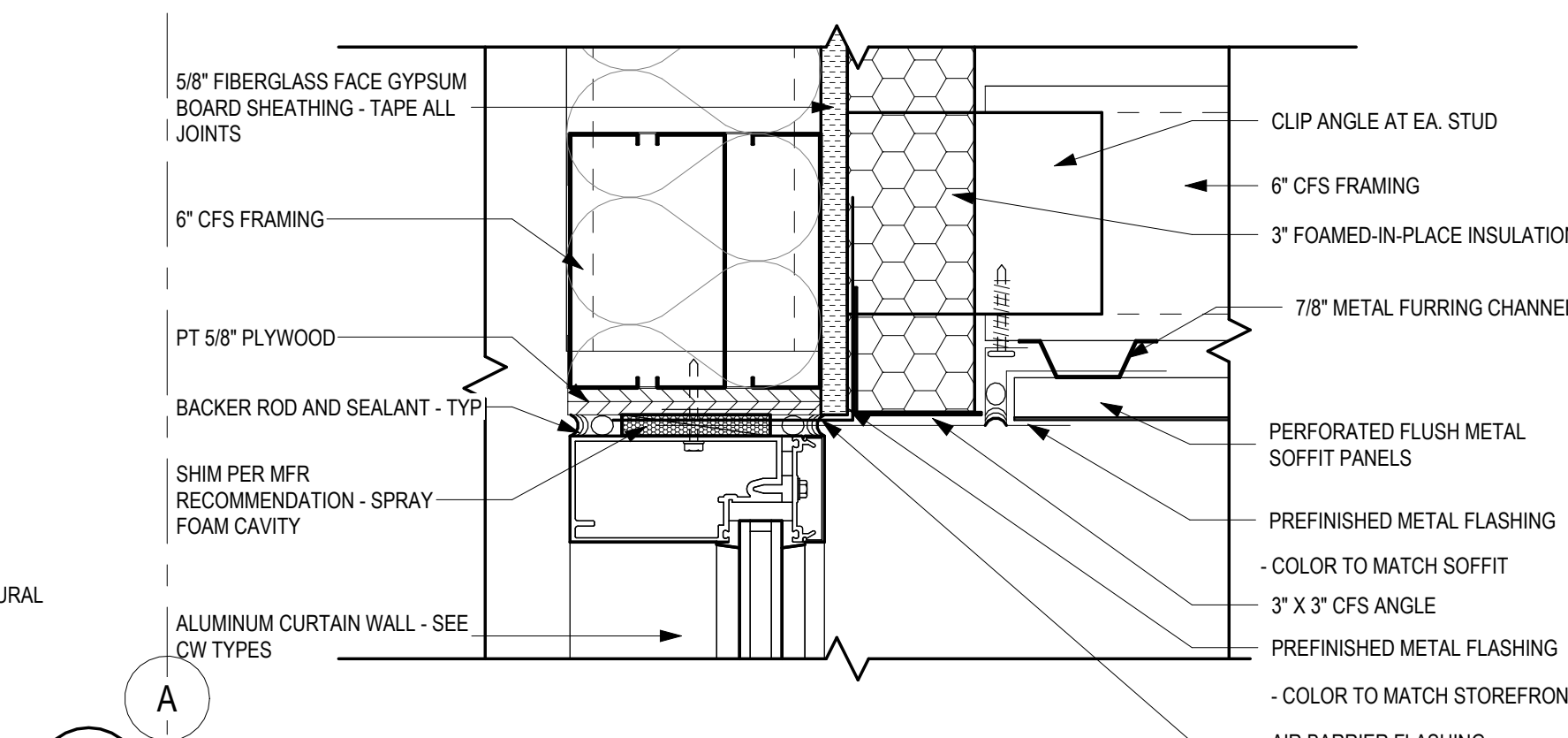
3 DETAIL - TYP. CURTAIN WALL @ FOUNDATION
SCALE: 3" = 1'-0"



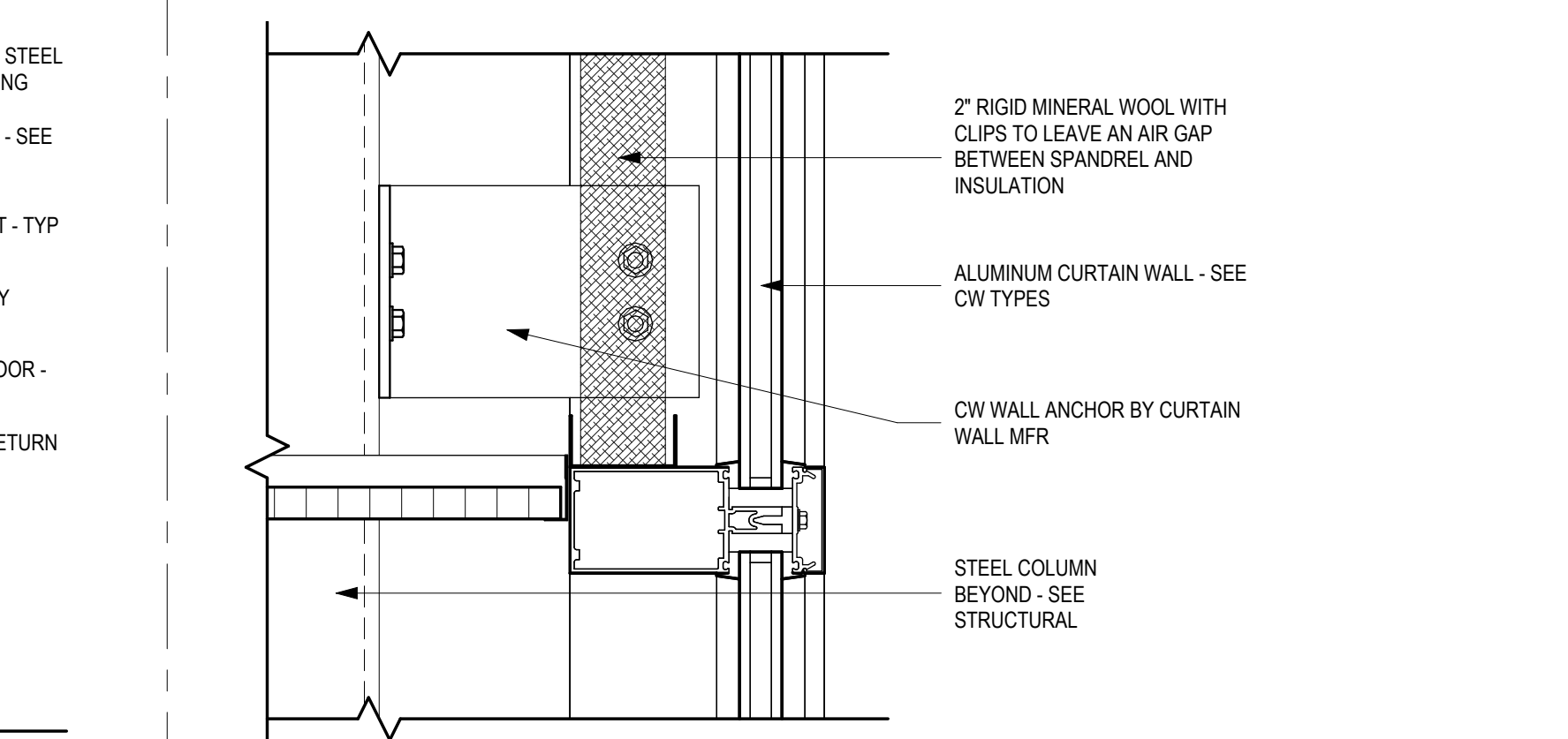
9 PARAPET AT VESTIBULE SOFFIT
SCALE: 3" = 1'-0"



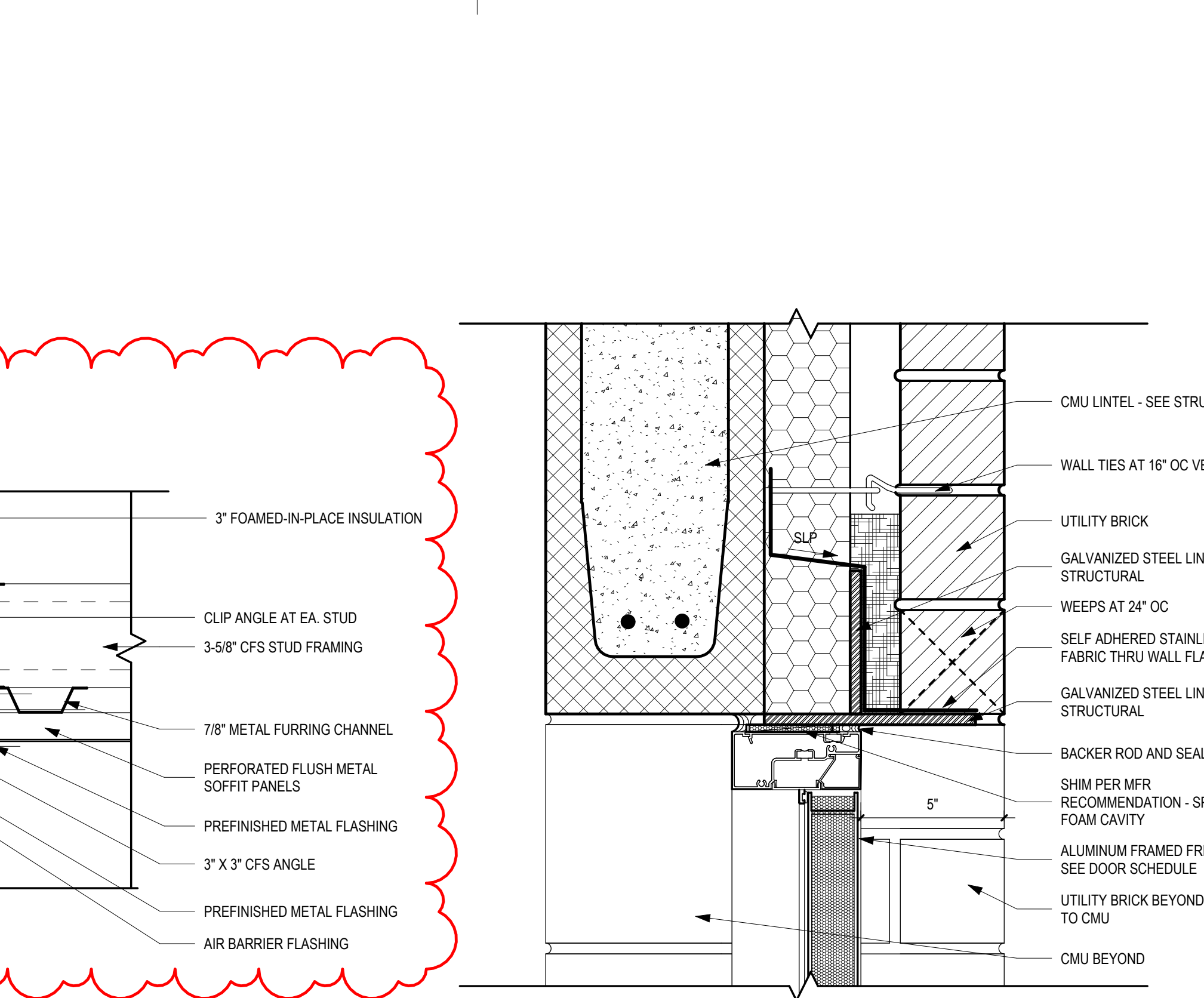
10 DETAIL - TYP. 2ND FLOOR CURTAIN WALL LOUVER @ CMU DETAIL
SCALE: 3" = 1'-0"



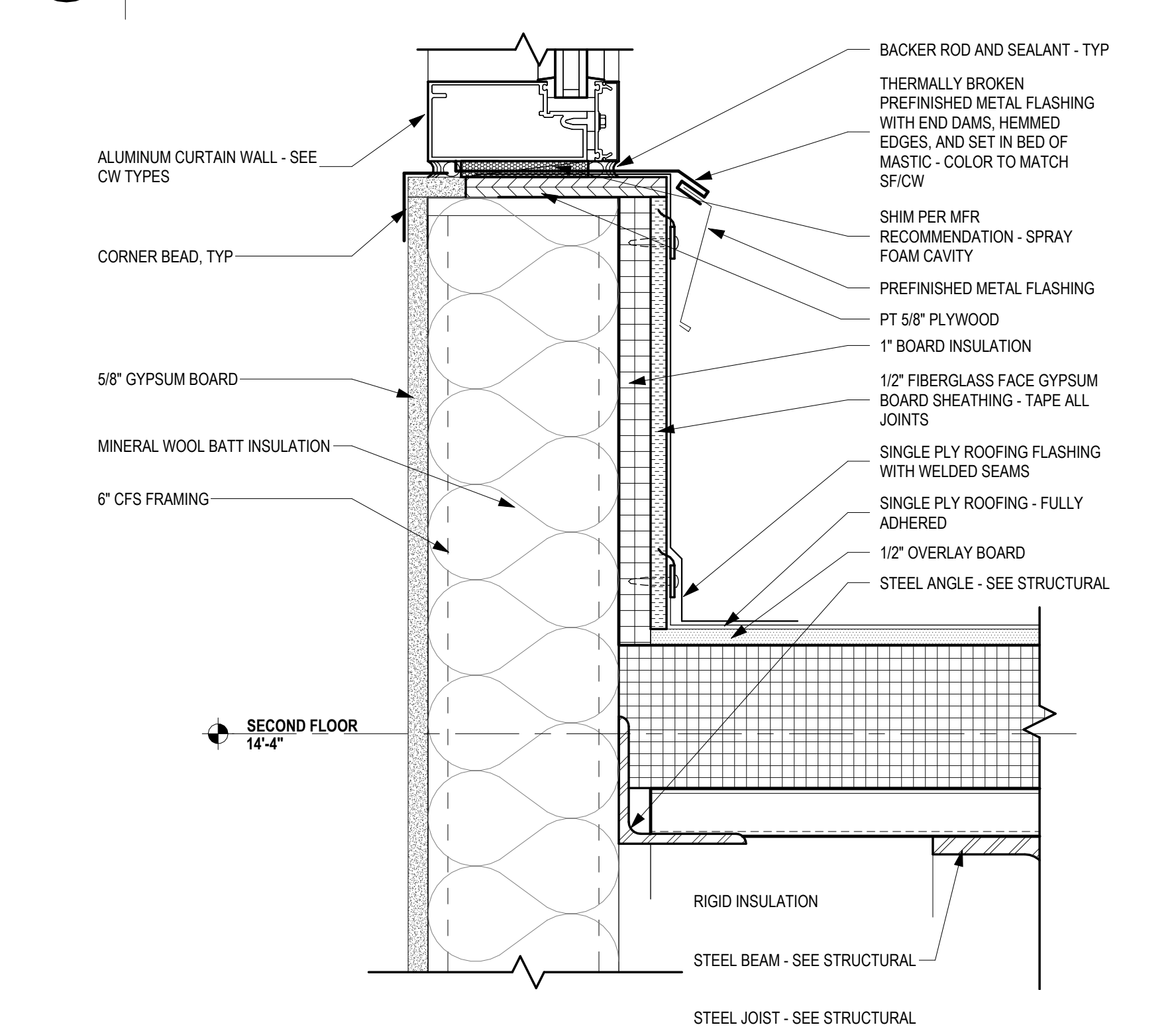
6 VESTIBULE CURTAIN WALL AT SOFFIT
SCALE: 3" = 1'-0"



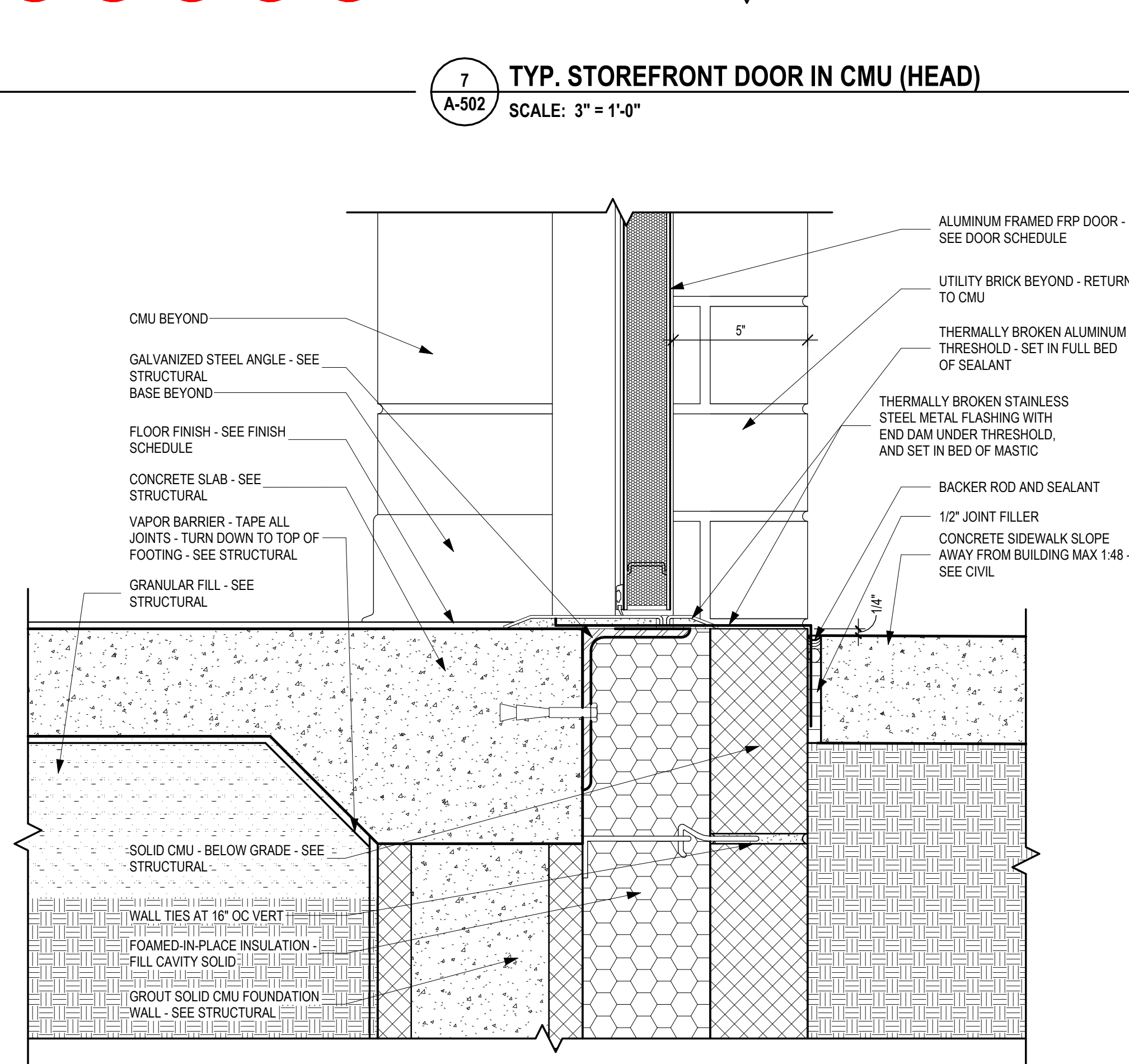
5 VESTIBULE CURTAIN WALL @ ACP
SCALE: 3" = 1'-0"



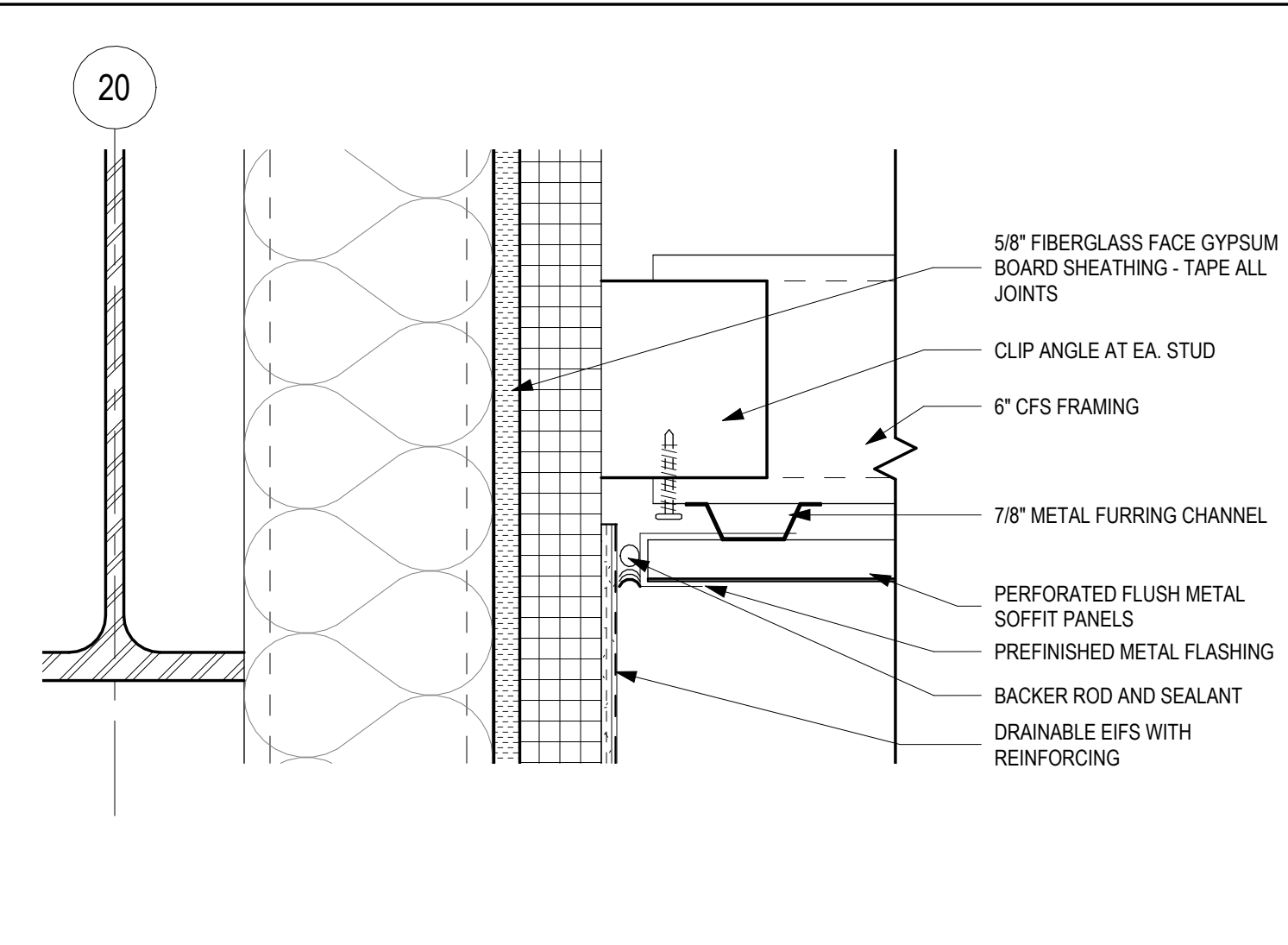
7 TYP. STOREFRONT DOOR IN CMU (HEAD)
SCALE: 3" = 1'-0"



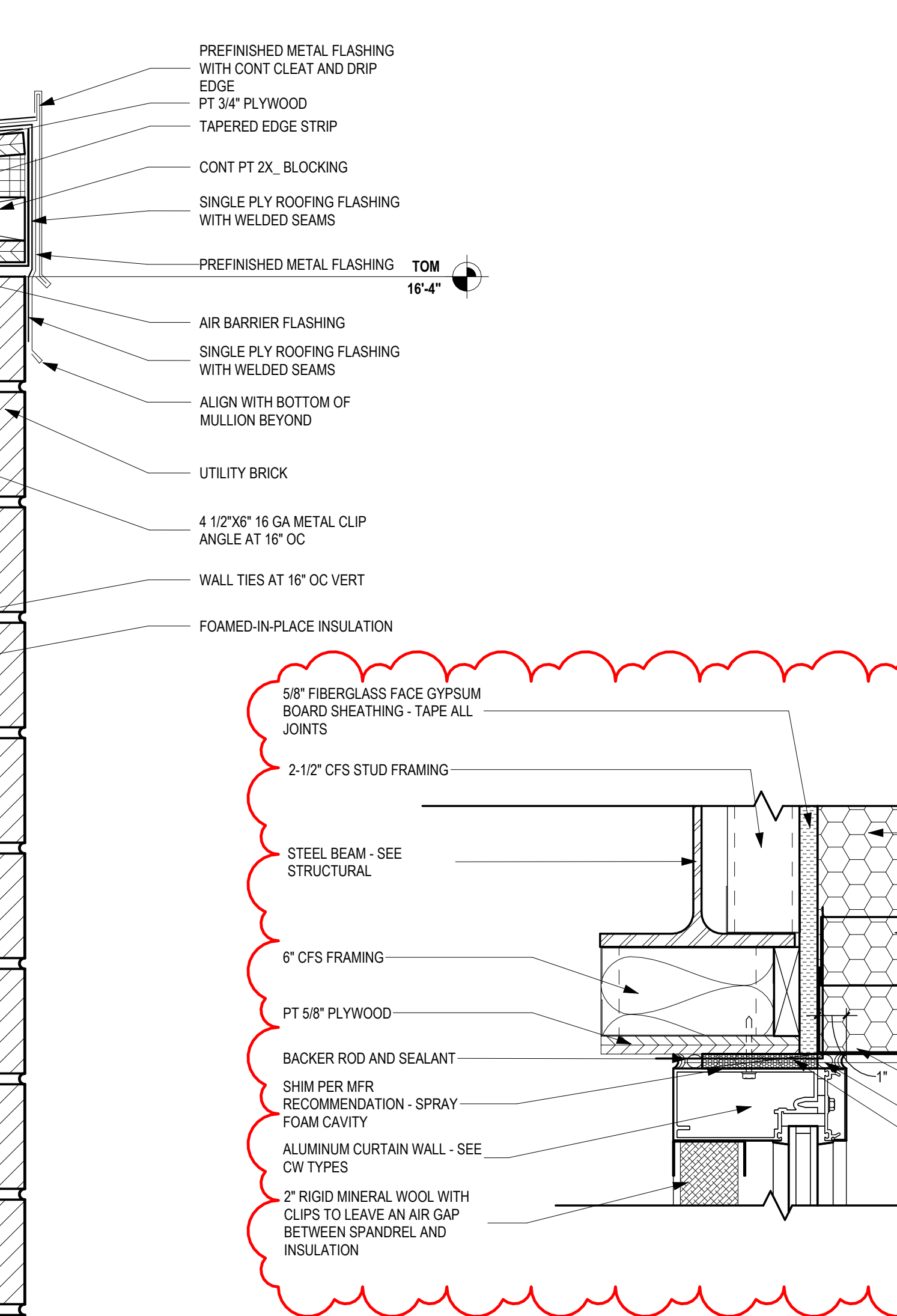
1 DETAIL - VESTIBULE CURTAIN WALL AT ADMIN ROOF
SCALE: 3" = 1'-0"



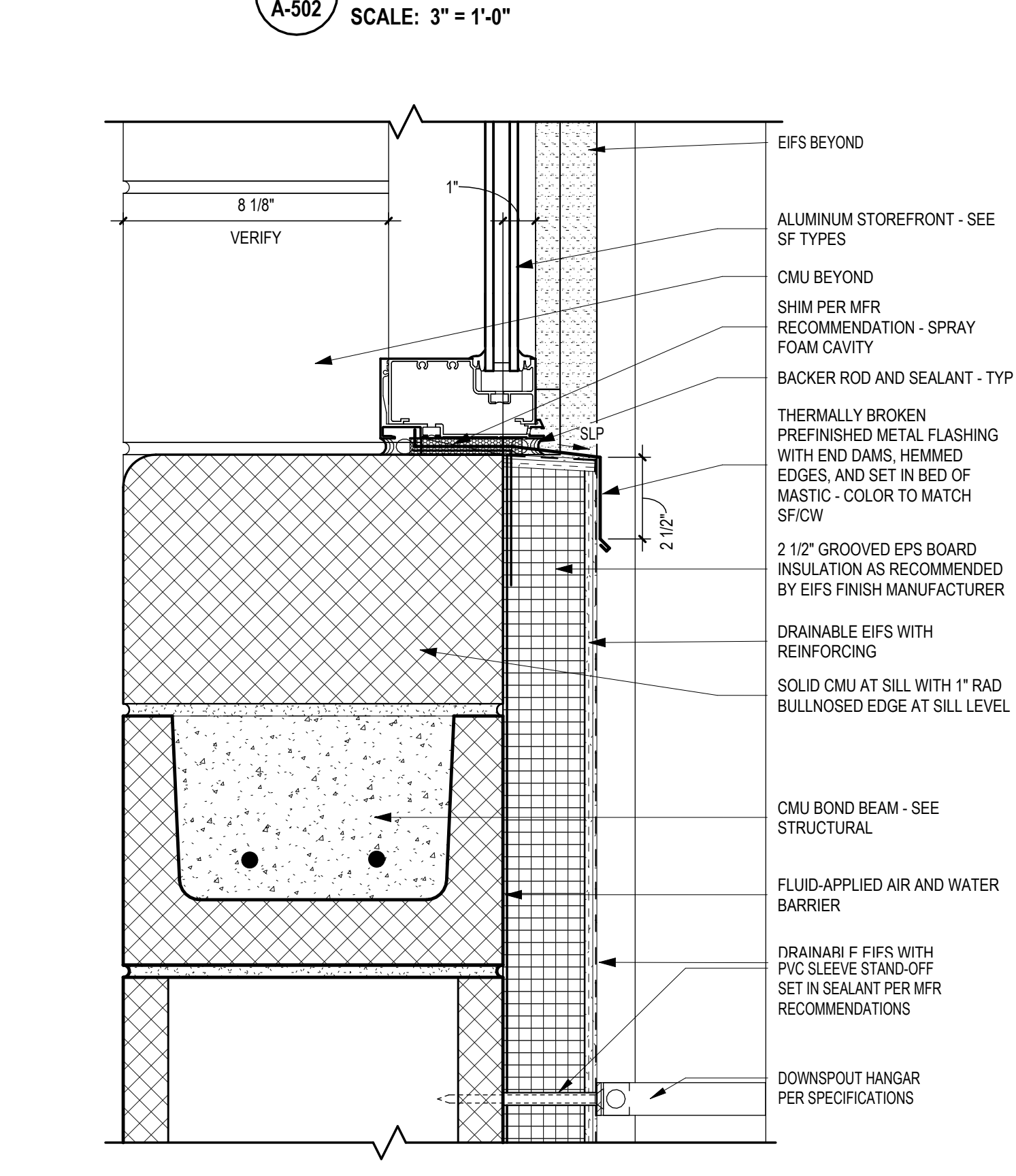
2 TYP. STOREFRONT THRESHOLD IN CMU (SILL)
SCALE: 3" = 1'-0"



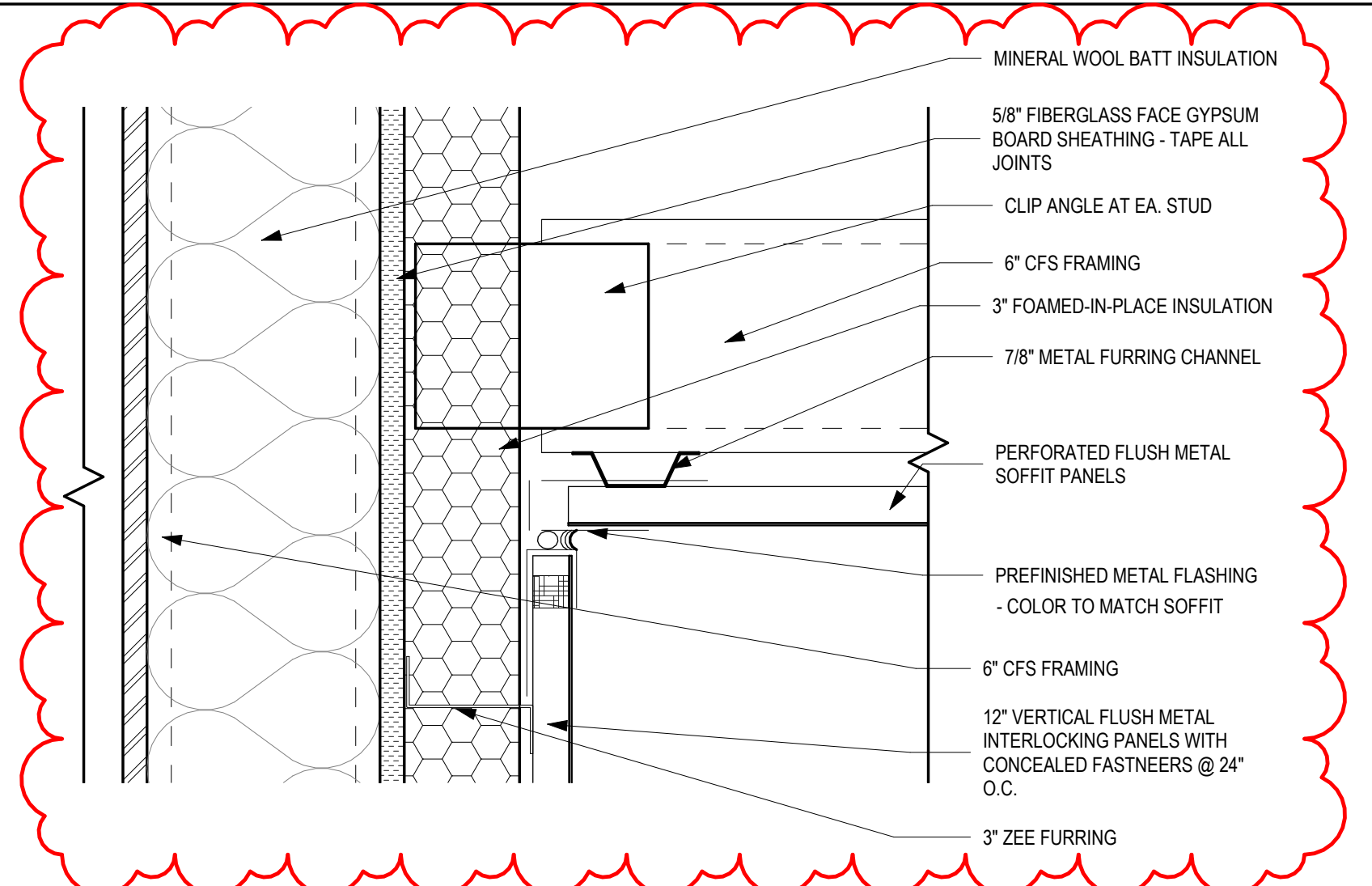
11 DETAIL - TYP. MTL. SOFFIT TO EFIS ON MTL STUD
SCALE: 3" = 1'-0"



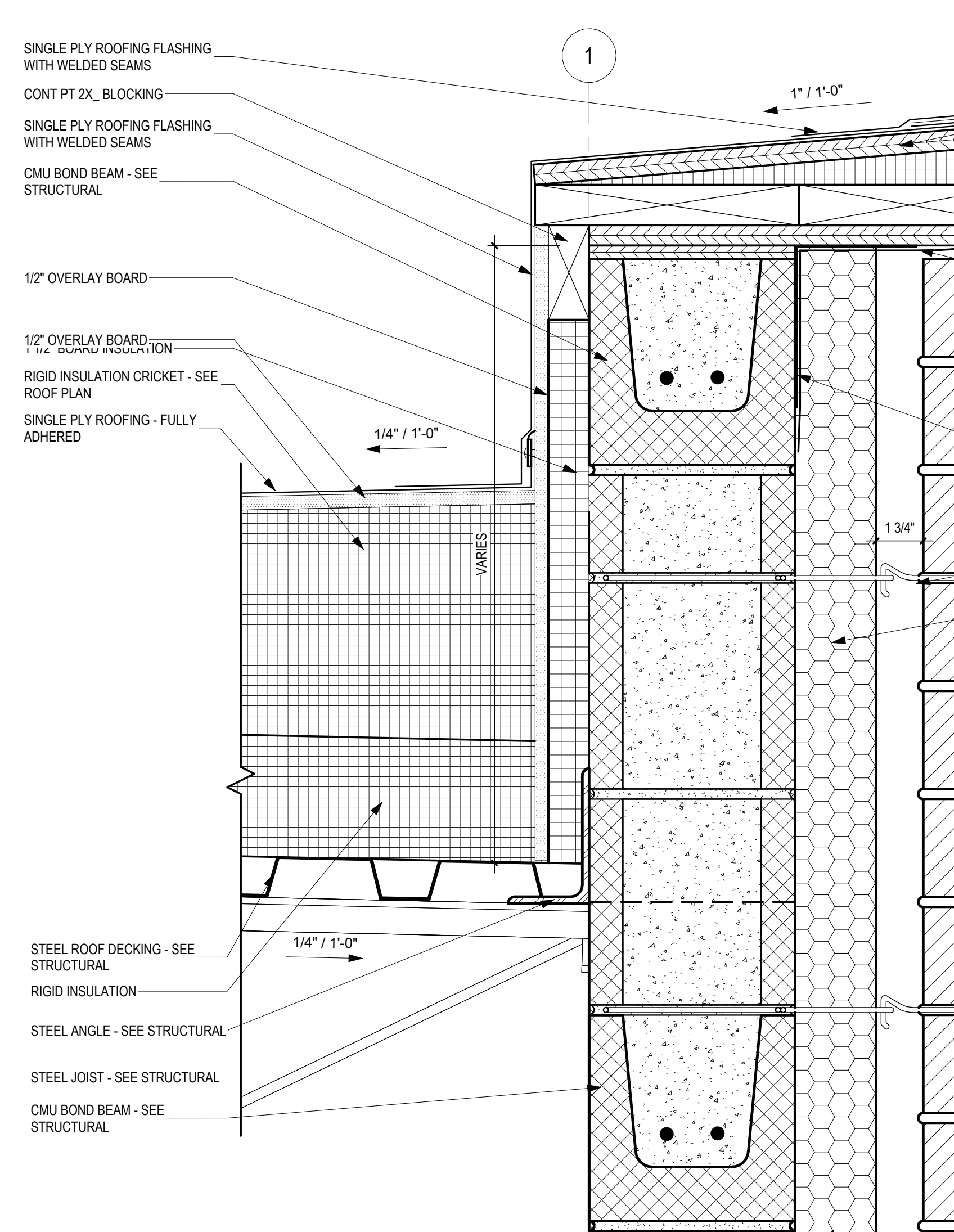
13 ADMIN CURTAIN WALL AT SOFFIT
SCALE: 3" = 1'-0"



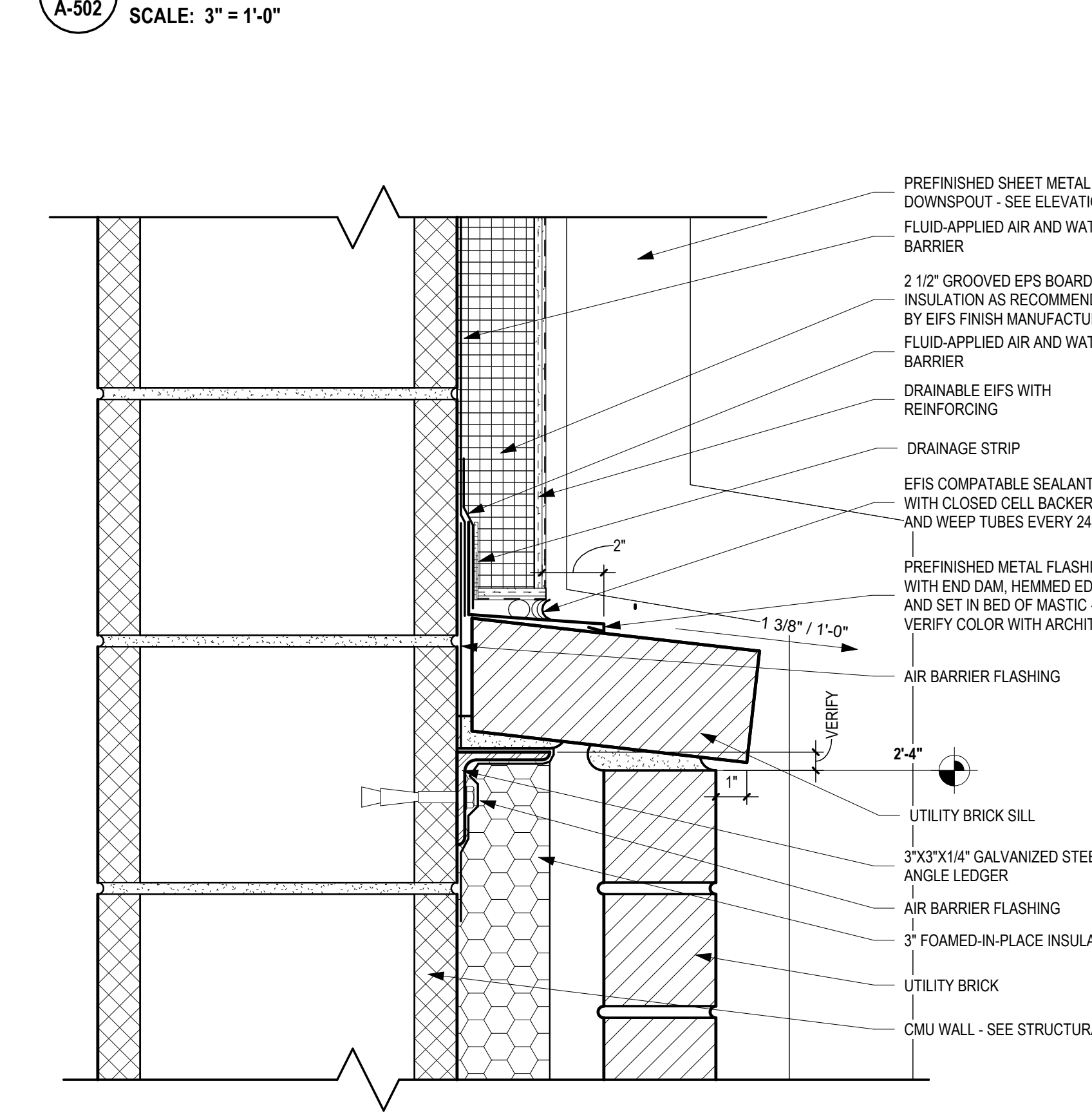
3 DETAIL - TYP. GYM SF SILL @ CMU WALL W/ EFIS
SCALE: 3" = 1'-0"



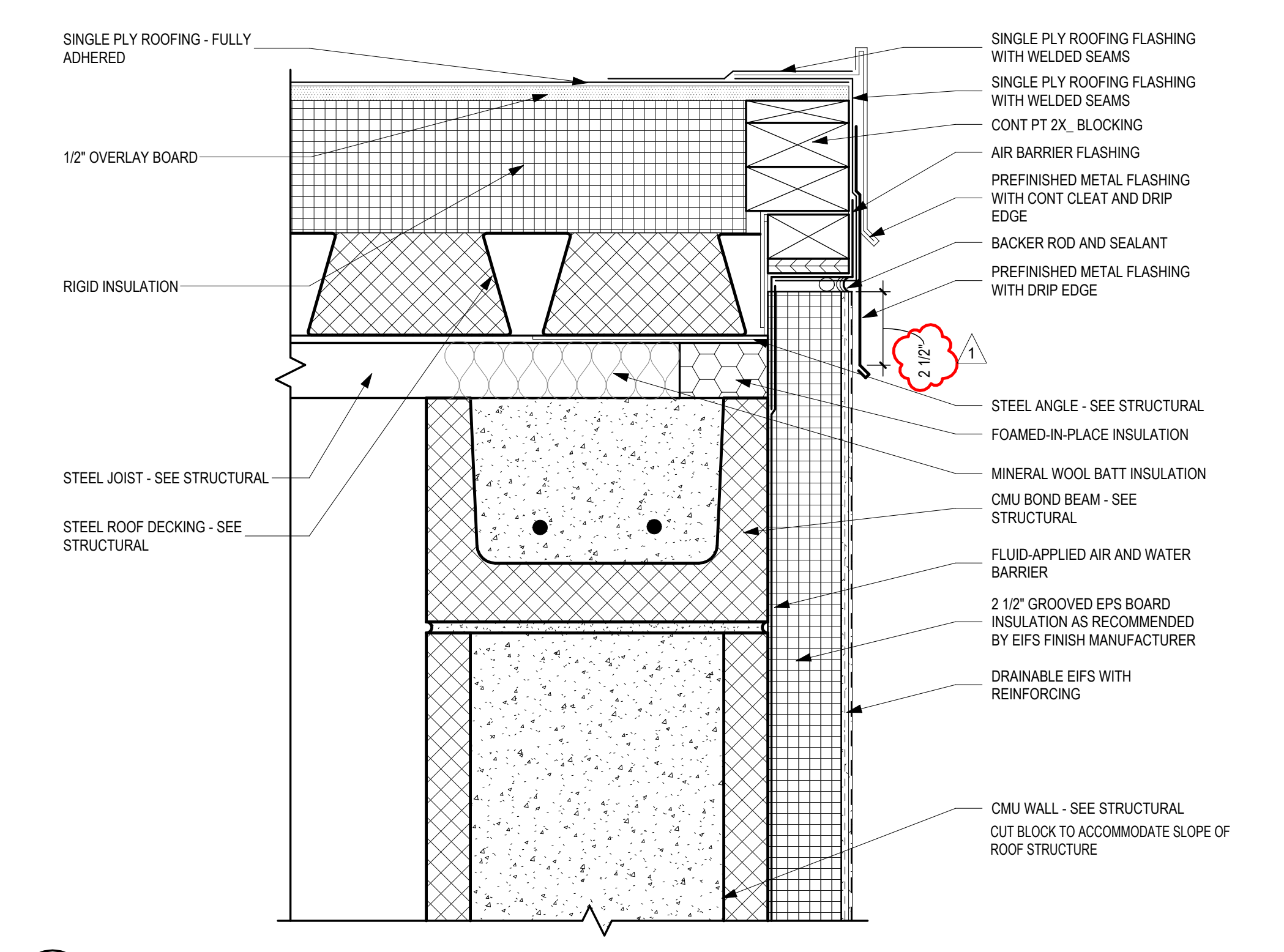
12 DETAIL - TYP. MTL. PANEL SOFFIT TO MWP
SCALE: 3" = 1'-0"



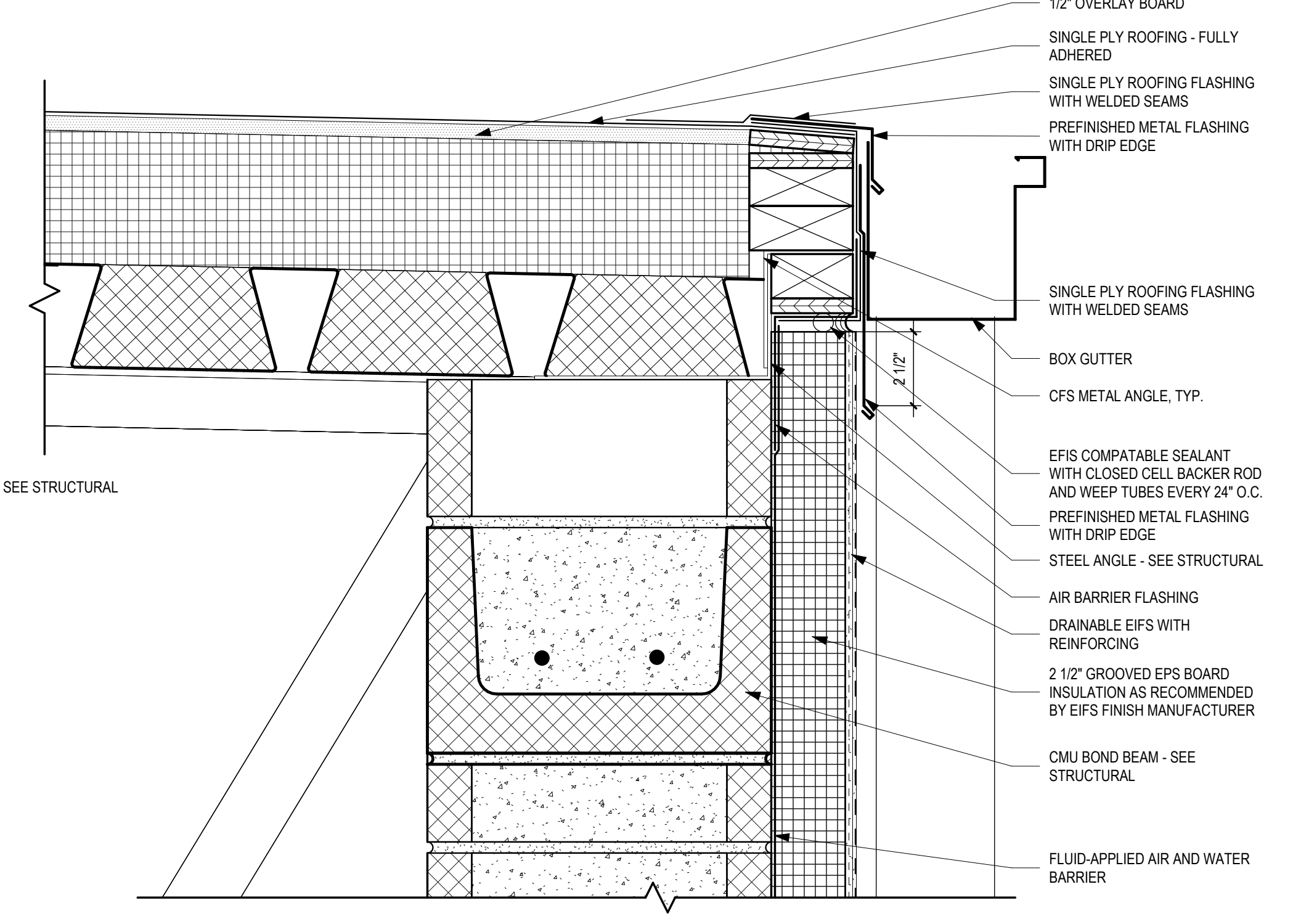
8 DETAIL - TYP. PARAPET @ BRICK/CMU
SCALE: 3" = 1'-0"



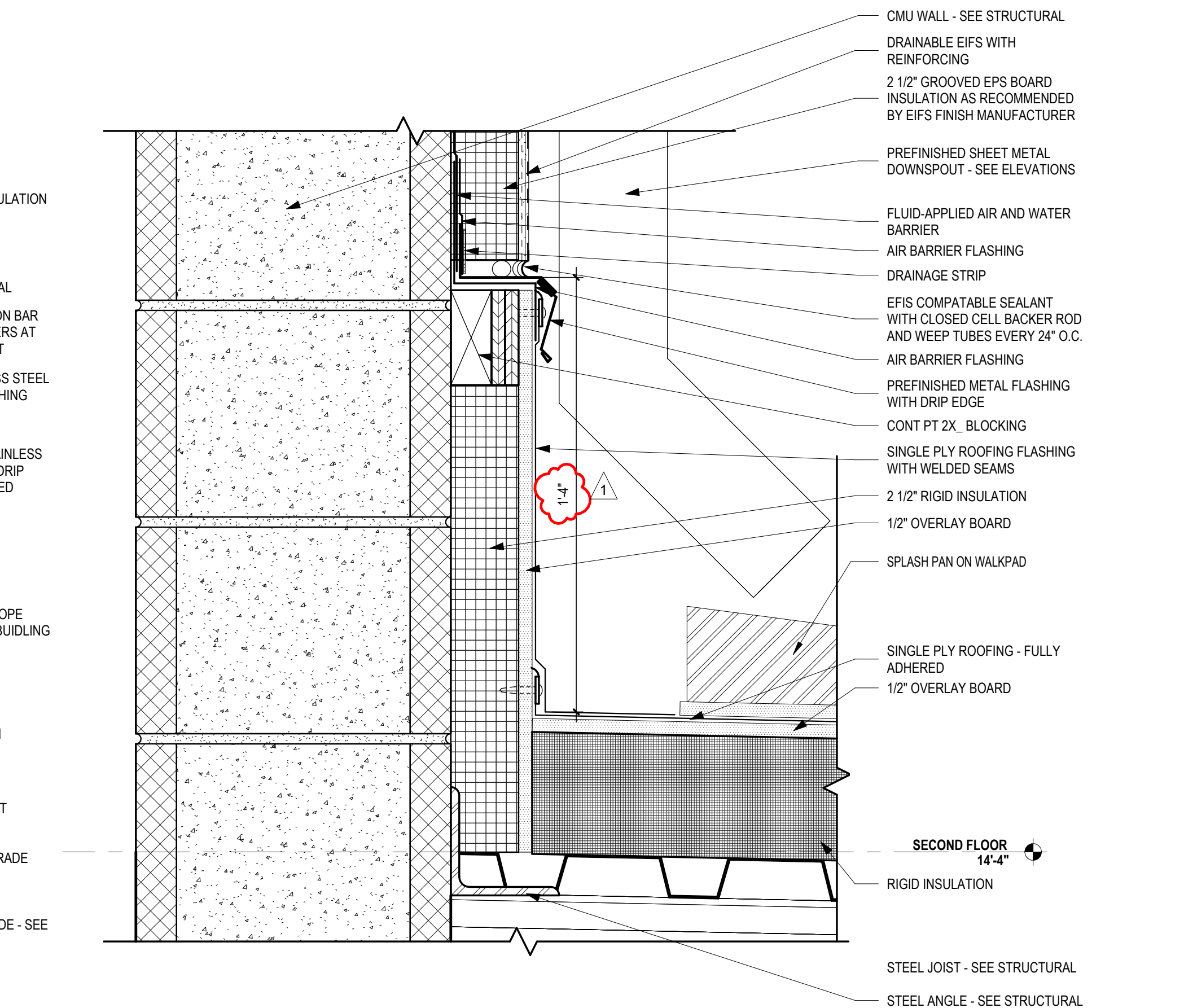
4 DETAIL - BRICK W/ CAST STONE SILL TO EFIS
SCALE: 3" = 1'-0"



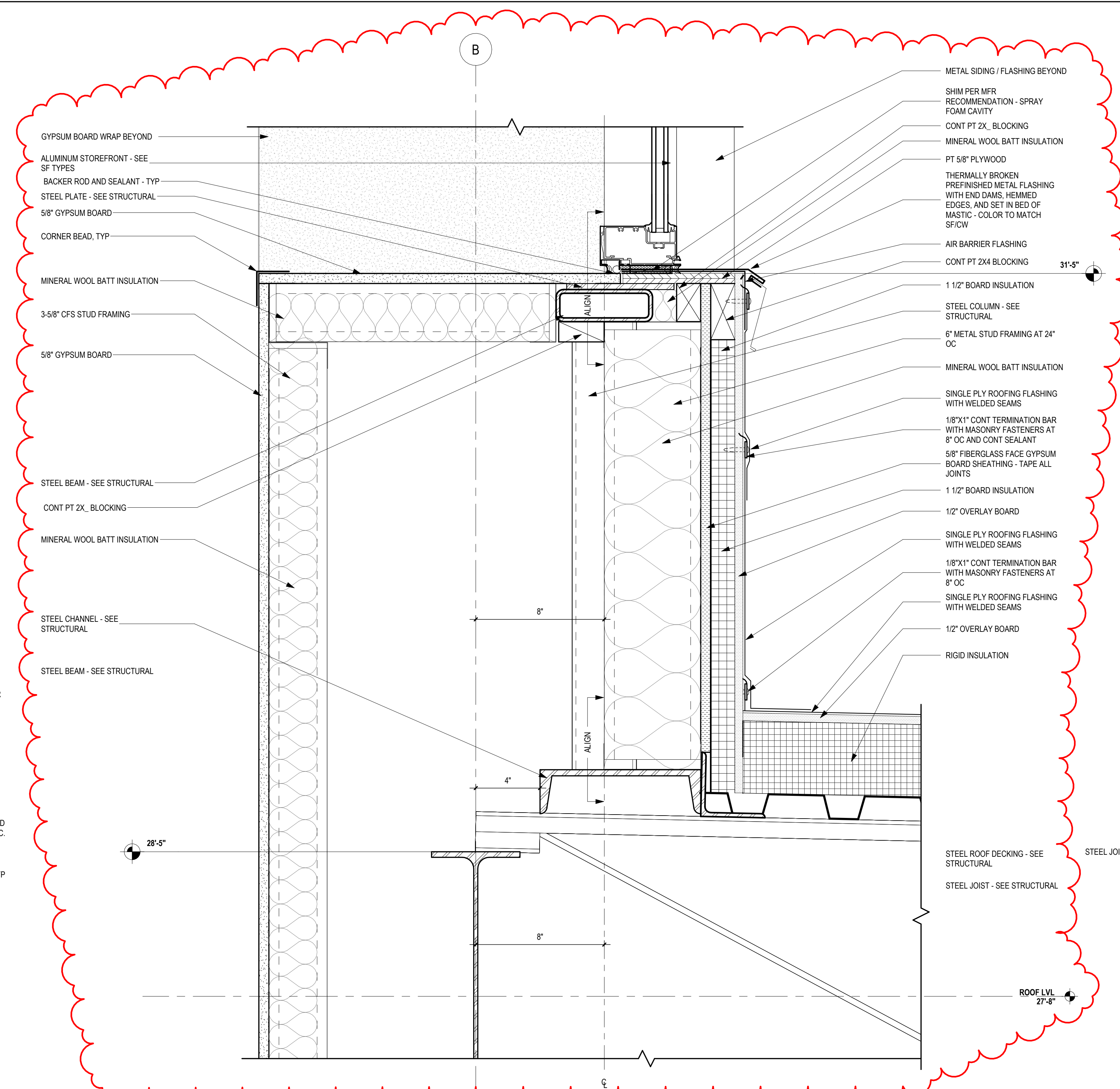
7
A-503
RAKE AT EIFS
SCALE: 3" = 1'-0"



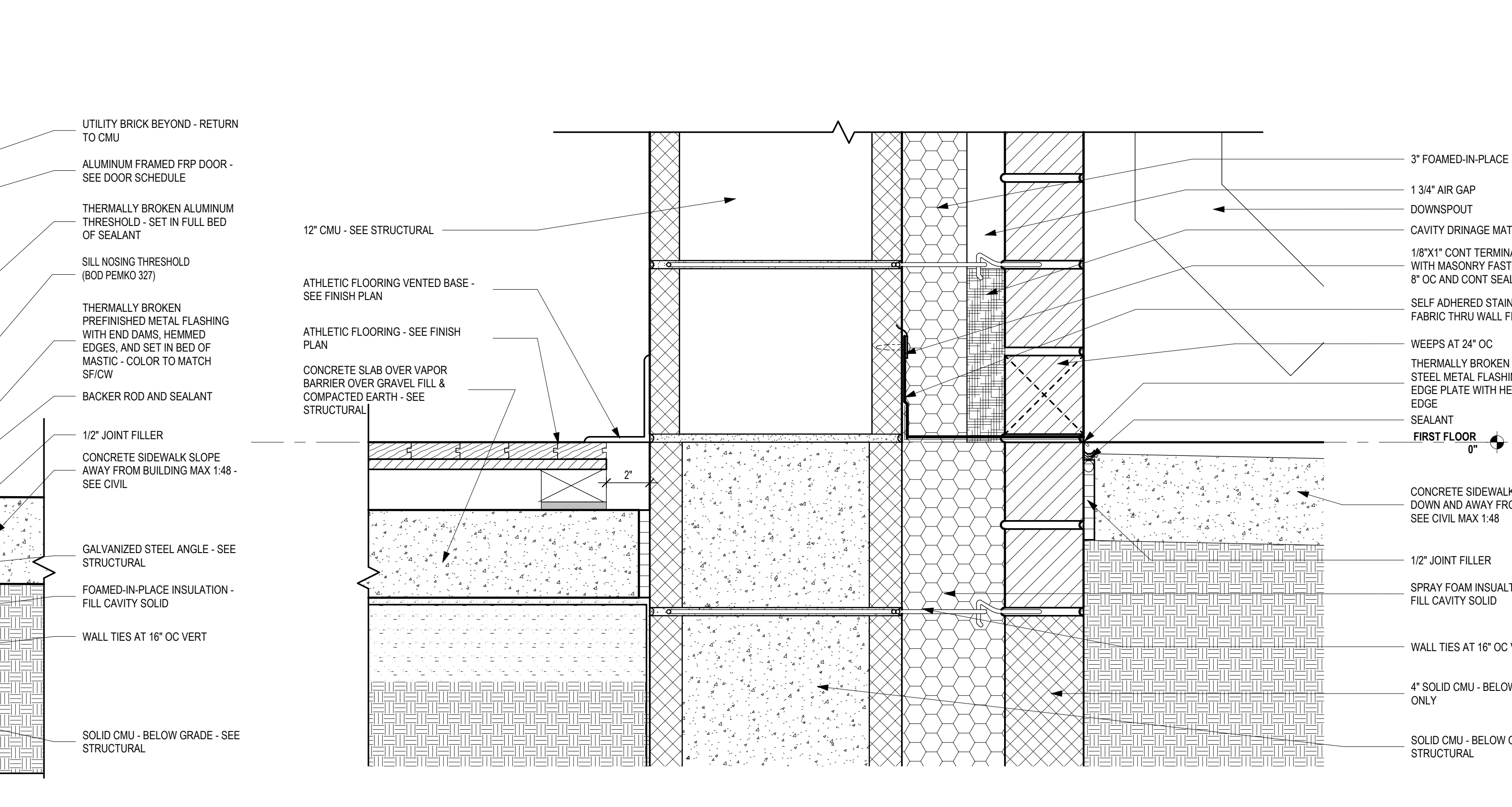
4
A-503
DETAIL - GYM ROOF W/ GUTTER
SCALE: 3" = 1'-0"



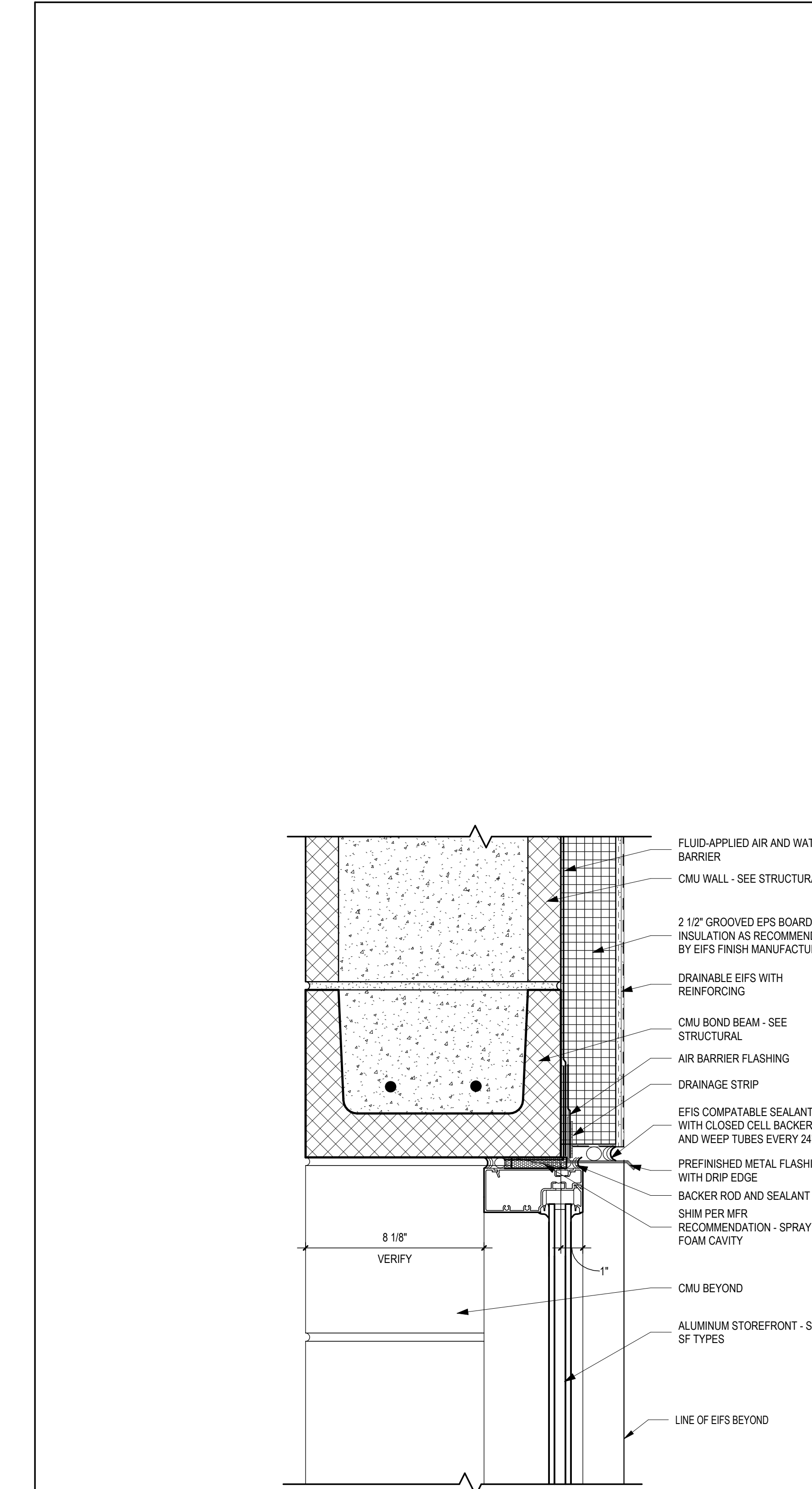
1
A-503
DETAIL - GUTTER AT CMU WALL TO ROOF
SCALE: 3" = 1'-0"



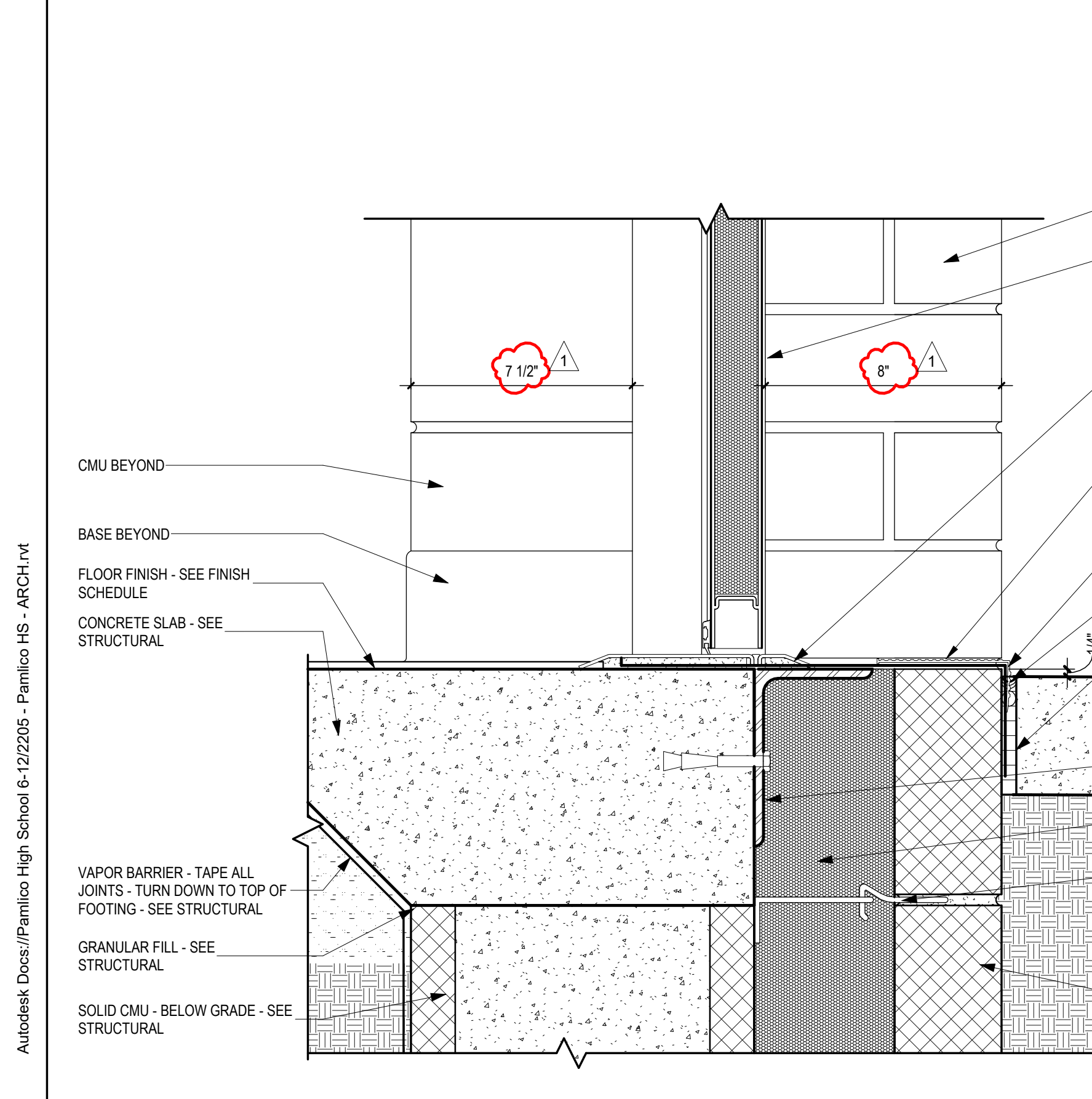
5
A-503
DETAIL - CLERESTORY WINDOW SILL TO ROOF
SCALE: 3" = 1'-0"



2
A-503
DETAIL - HS GYM FLOOR @ EXT. MASONRY WALL
SCALE: 3" = 1'-0"

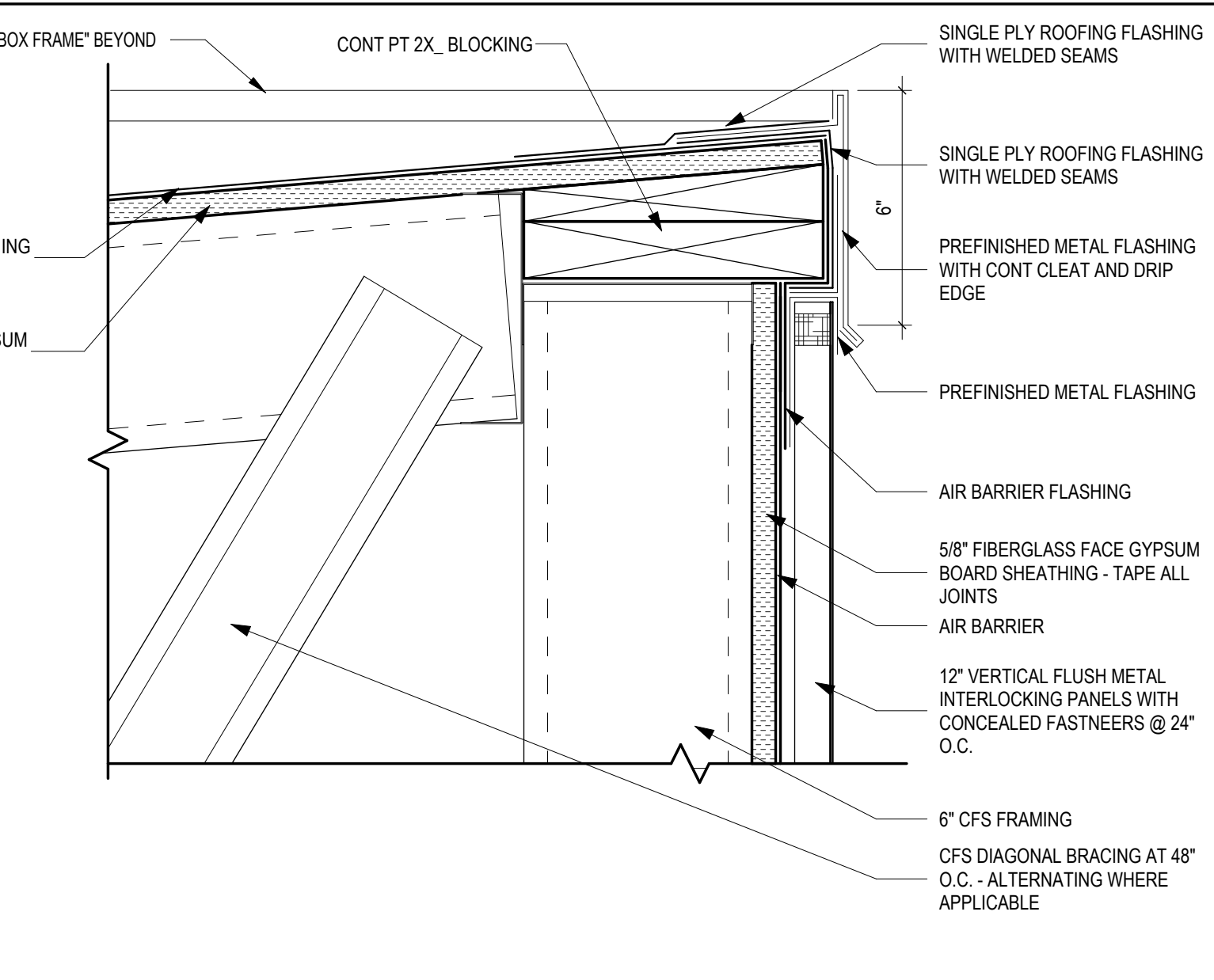


6
A-503
STOREFRONT HEAD @ MS GYM
SCALE: 3" = 1'-0"

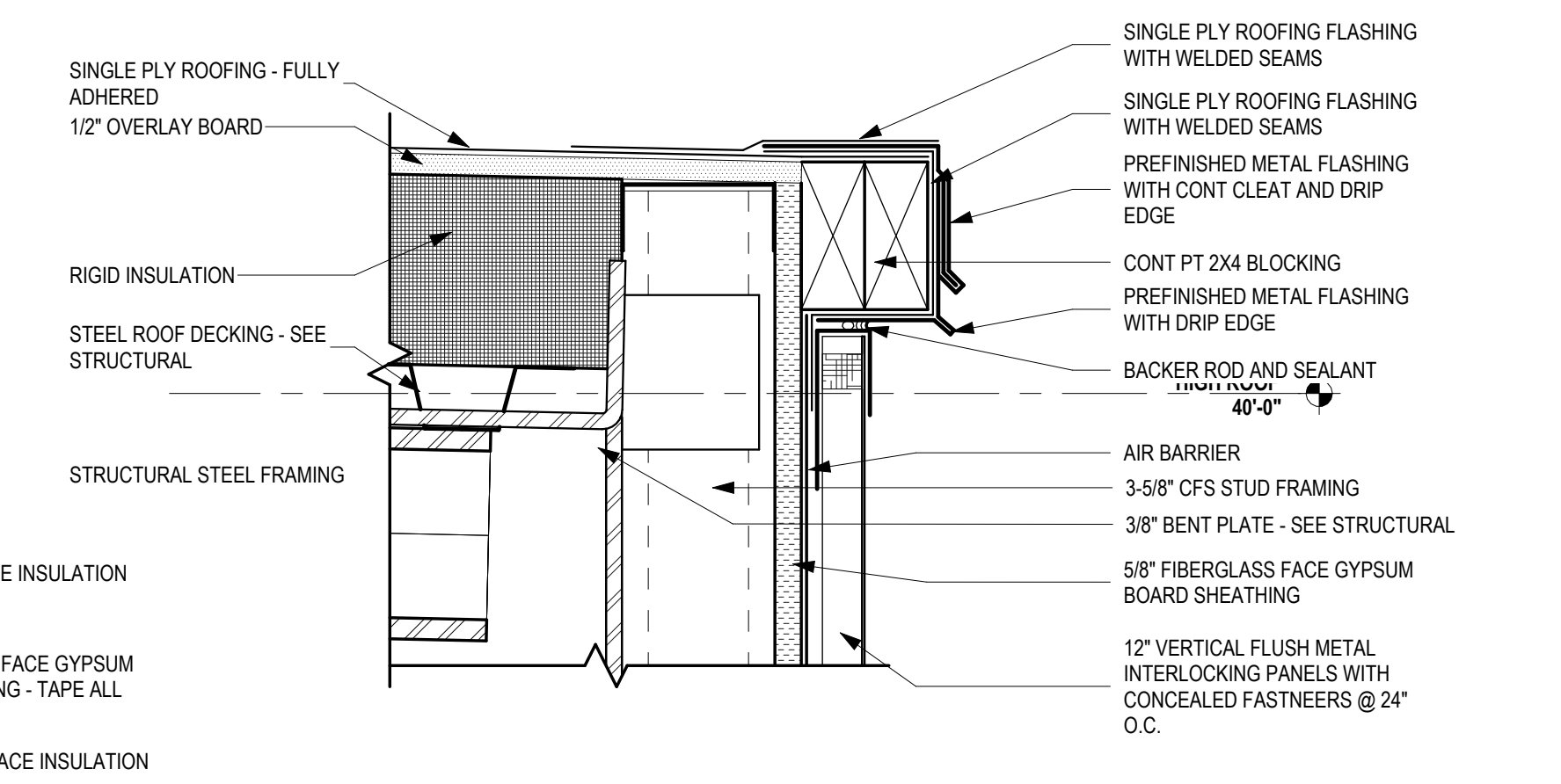


3
A-503
STOREFRONT THRESHOLD @ MS GYM
SCALE: 3" = 1'-0"

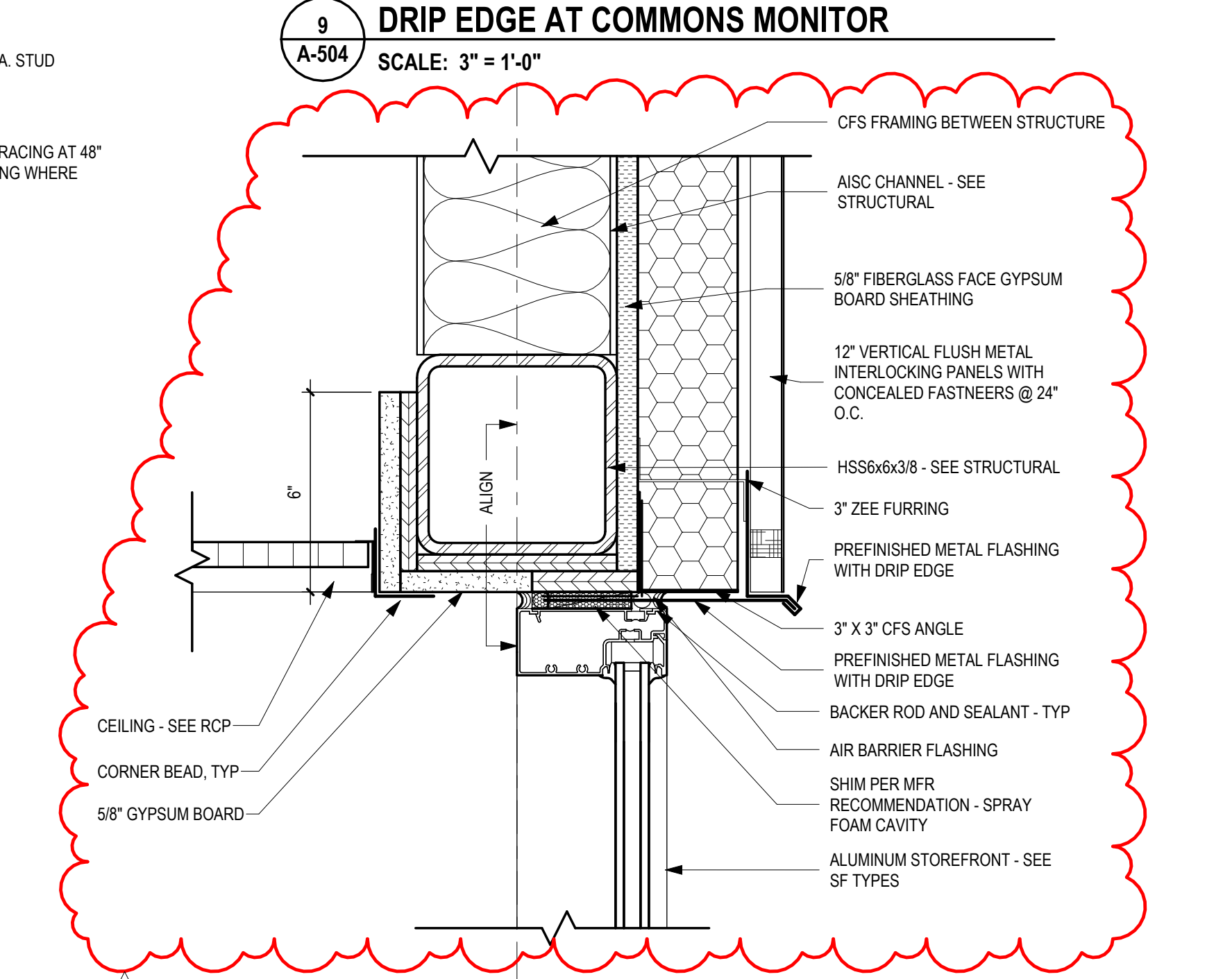
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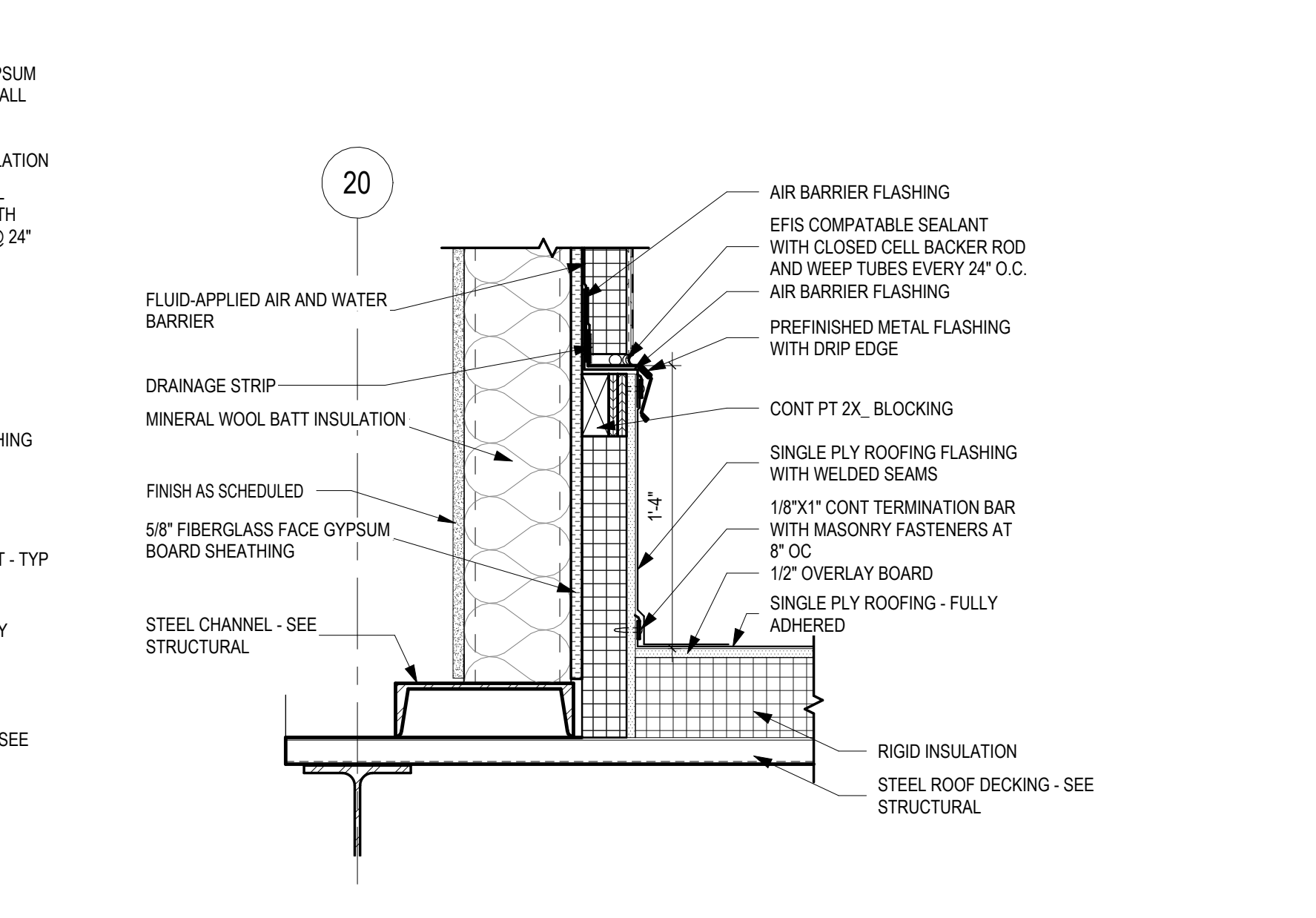
10 STOREFRONT "BOX FRAME" - ROOF TO WALL PANEL RIDGE
SCALE: 3" = 1'-0"



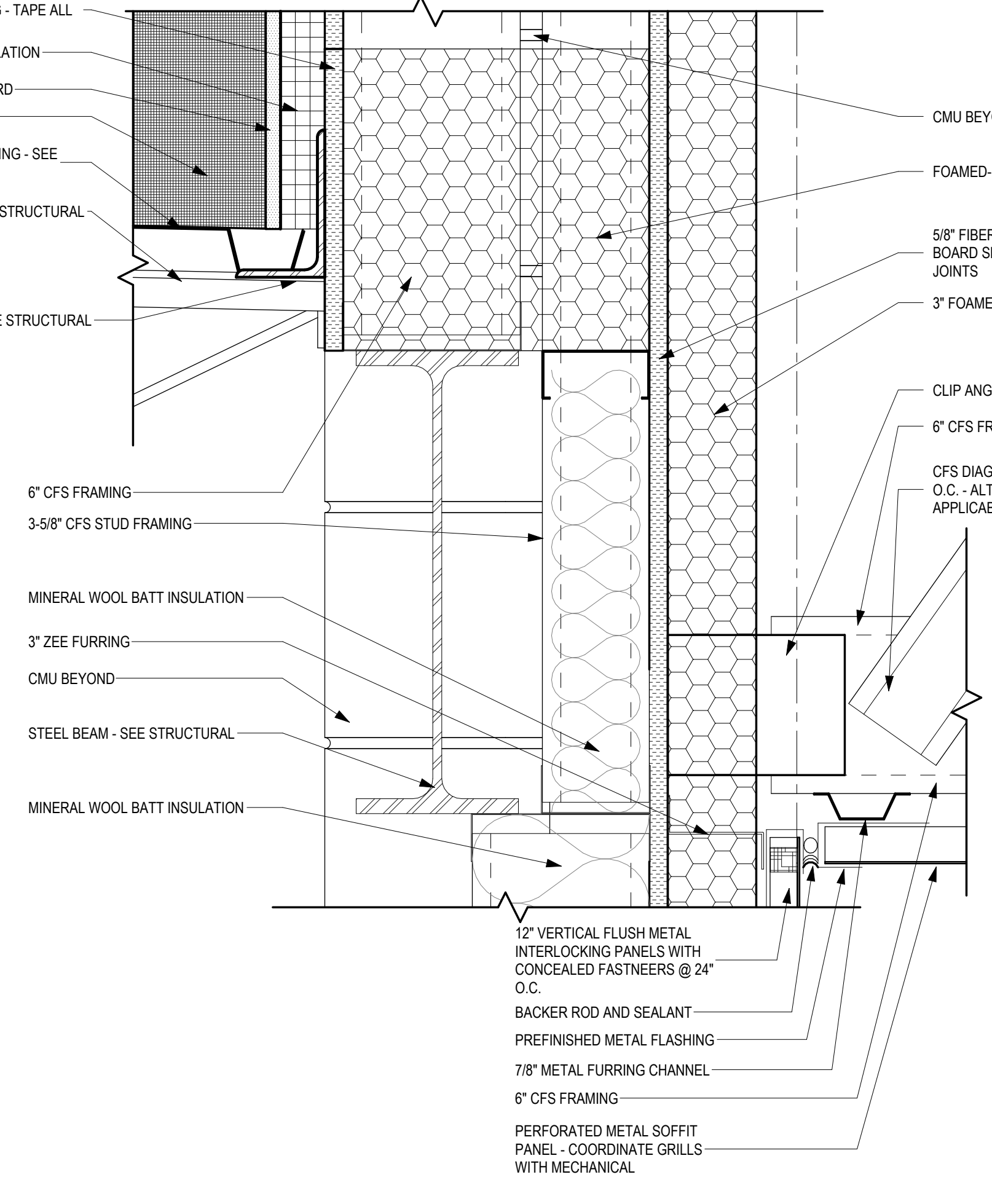
11 STOREFRONT "BOX FRAME" - PARAPET TO FRAME ROOF @ CFS
SCALE: 3" = 1'-0"



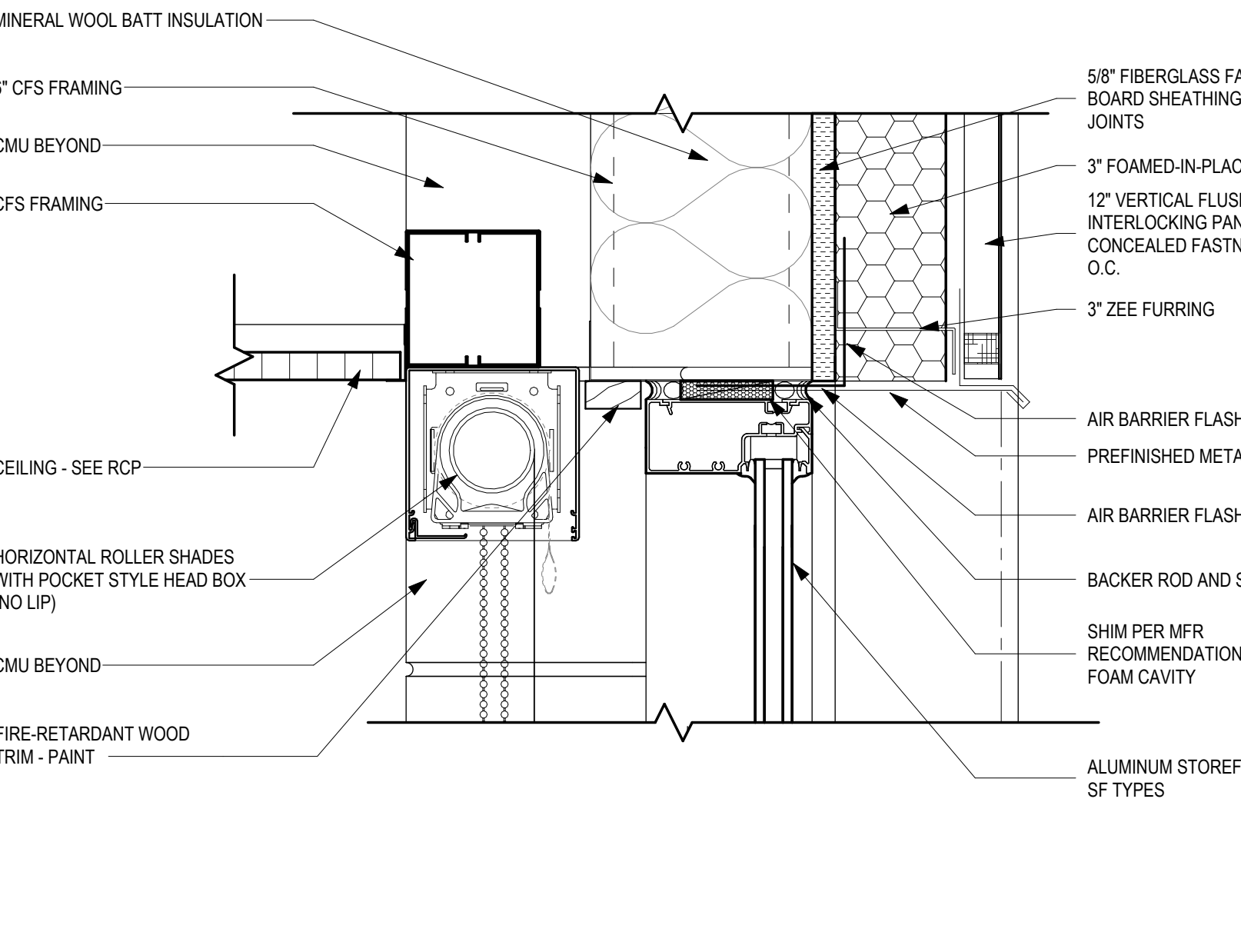
9 DRIP EDGE AT COMMONS MONITOR
SCALE: 3" = 1'-0"



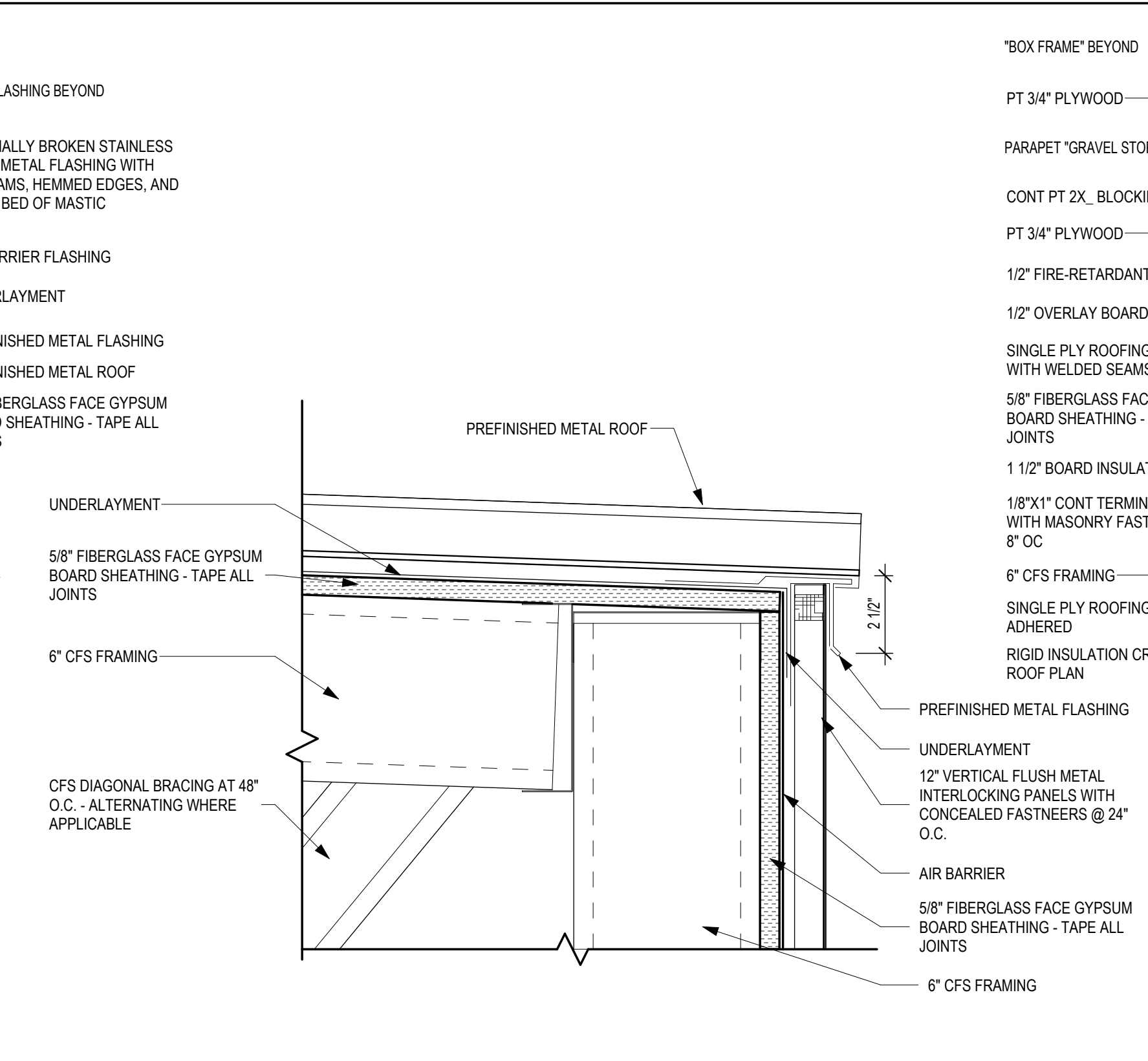
5 STOREFRONT HEAD AT COMMONS MONITOR
SCALE: 3" = 1'-0"



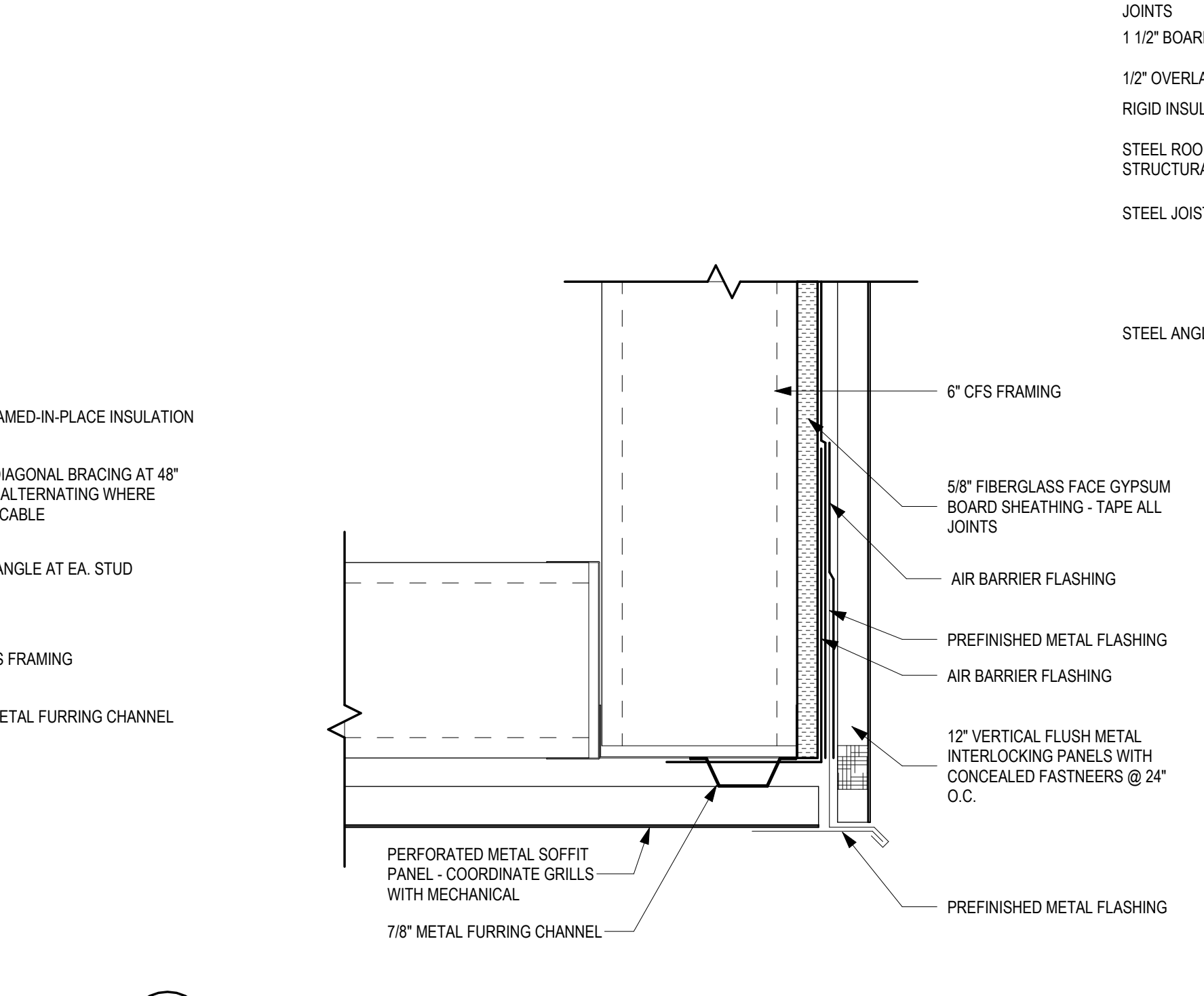
7 FLUSH METAL PANEL TO VENTED SOFFIT
SCALE: 3" = 1'-0"



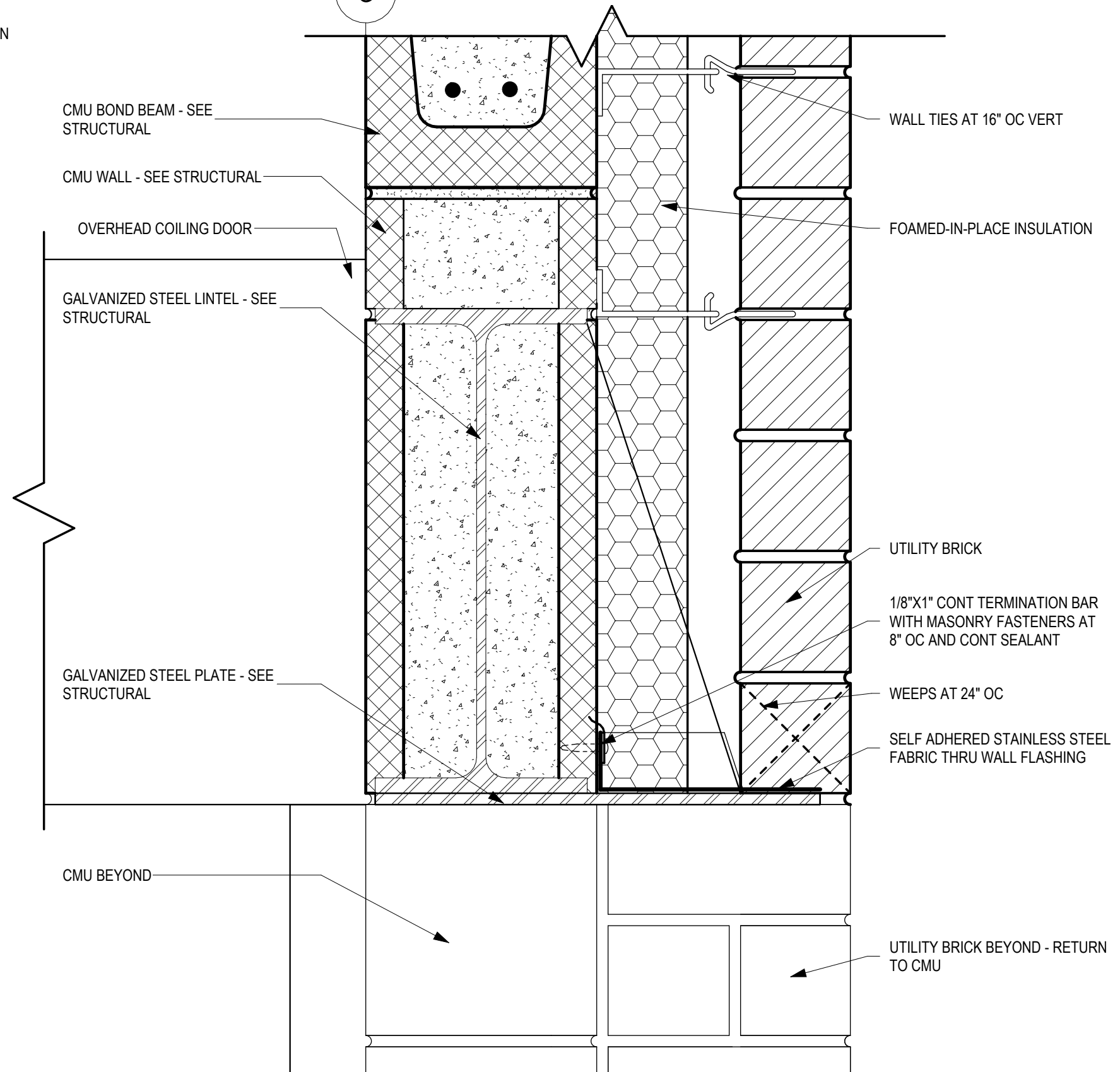
6 STOREFRONT "BOX FRAME" - SOFFIT TO WALL
SCALE: 3" = 1'-0"



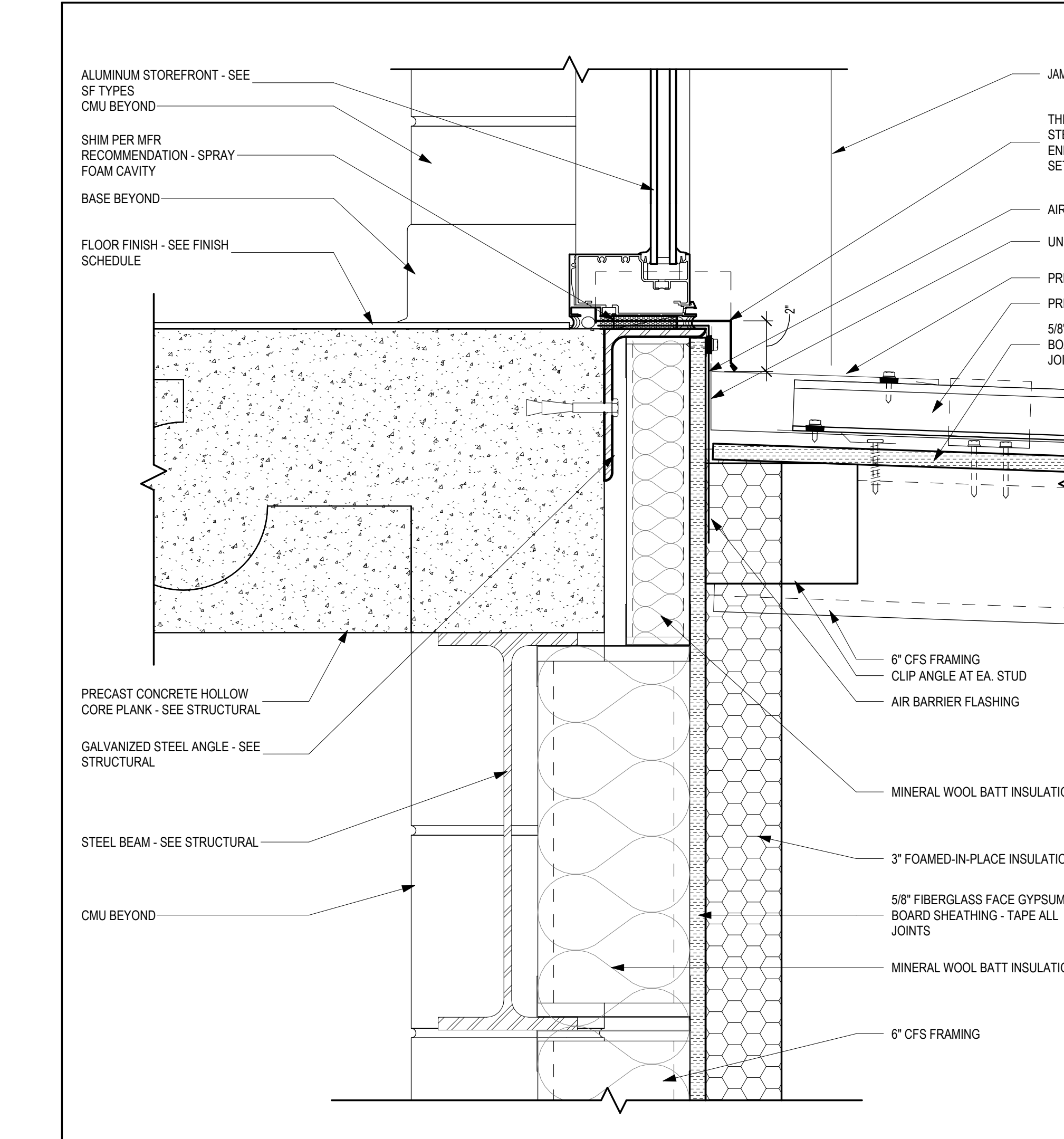
12 STOREFRONT "BOX FRAME" - ROOF TO WALL PANEL DRIP
SCALE: 3" = 1'-0"



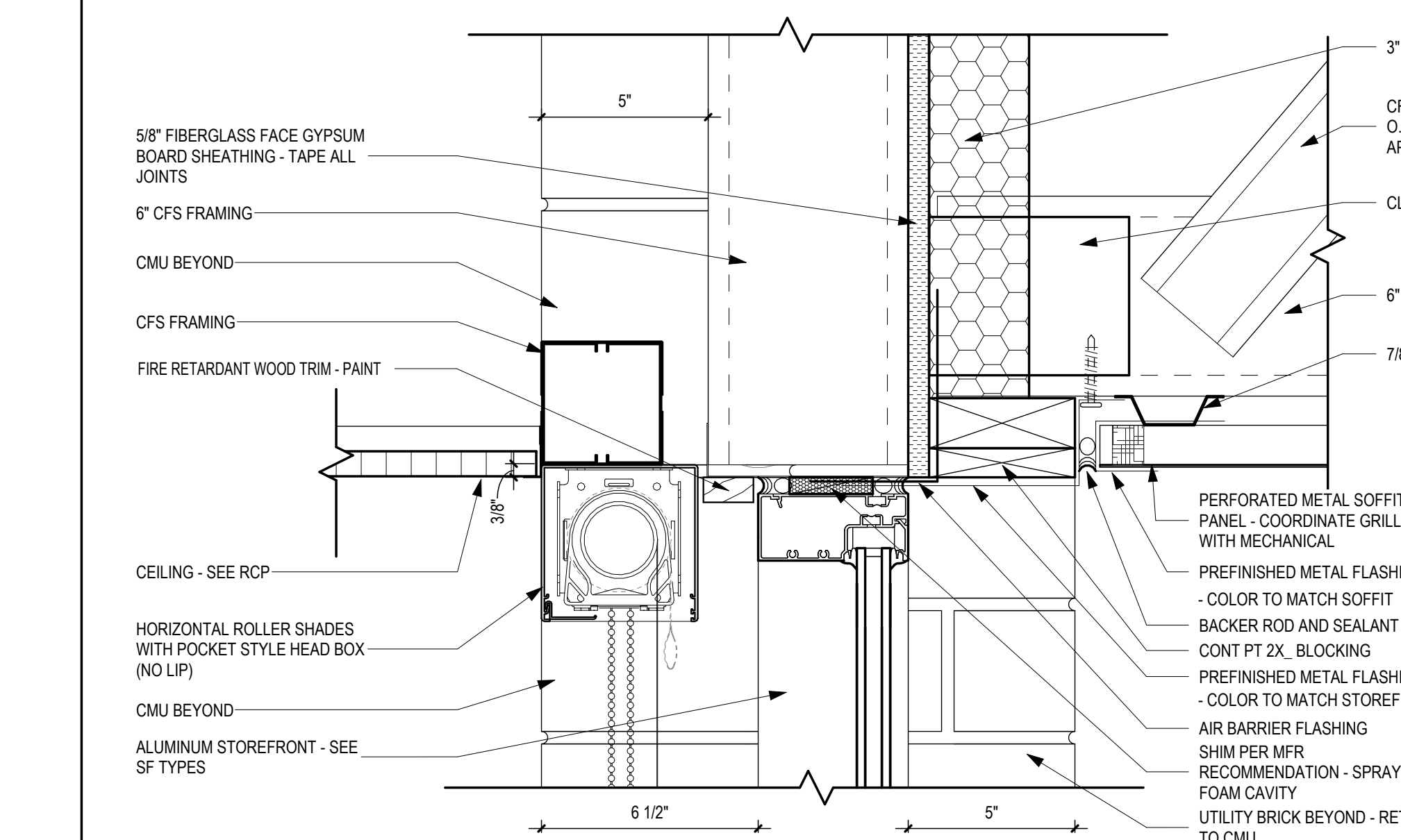
13 STOREFRONT "BOX FRAME" - SILL TO ROOF
SCALE: 3" = 1'-0"



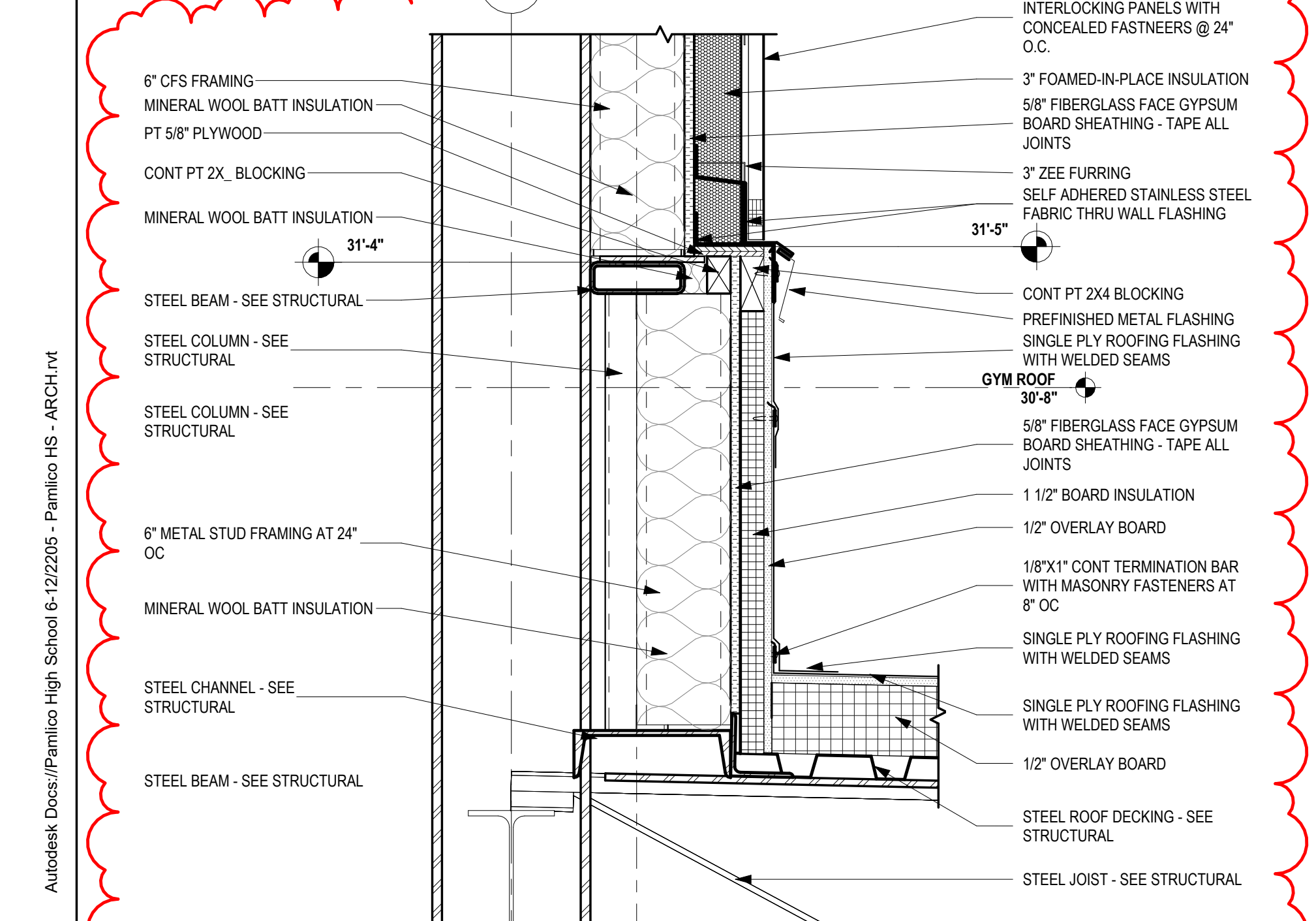
3 OVERHEAD COILING DOOR HEAD
SCALE: 3" = 1'-0"



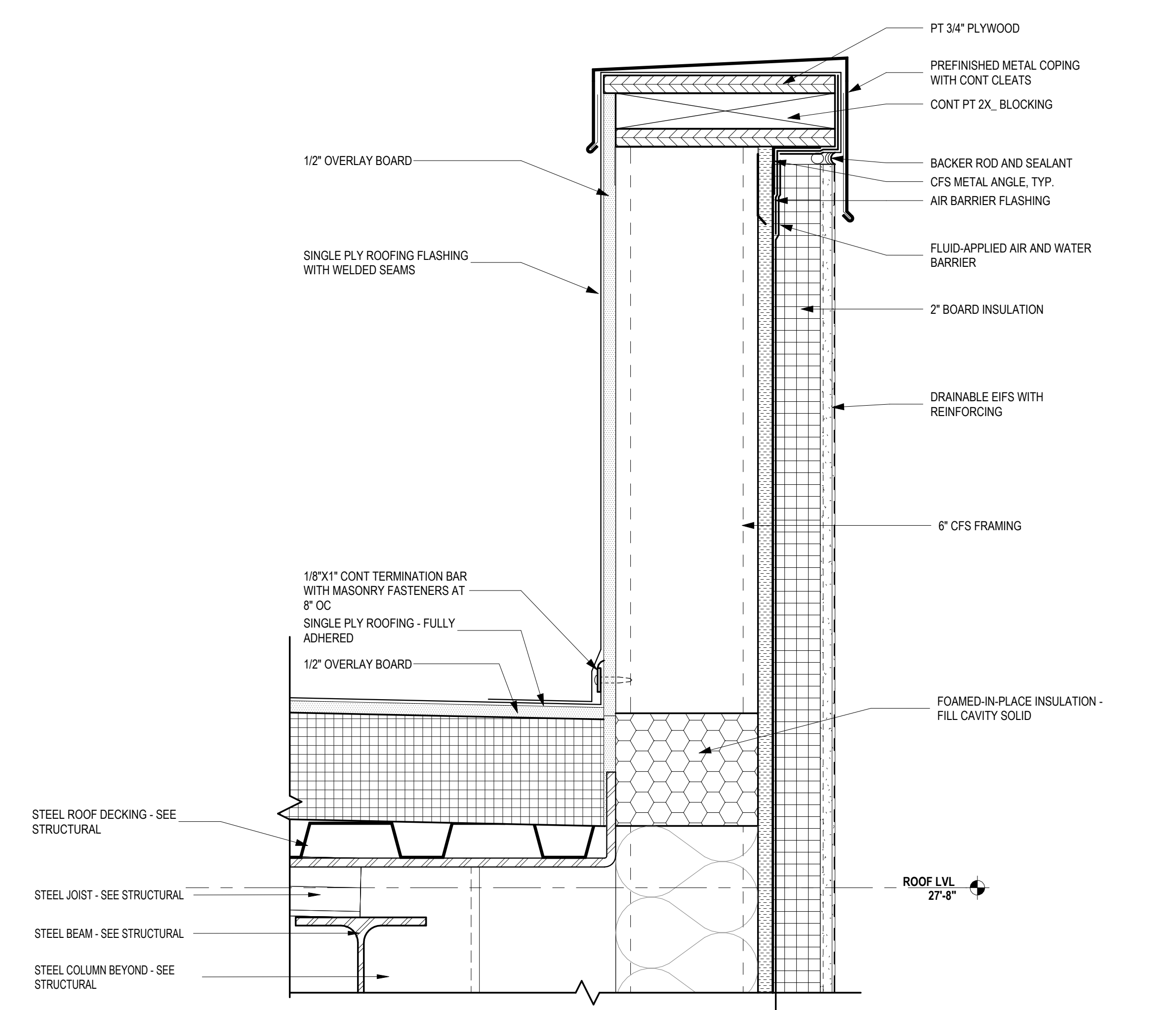
10 STOREFRONT "BOX FRAME" - ROOF TO WALL PANEL RIDGE
SCALE: 3" = 1'-0"



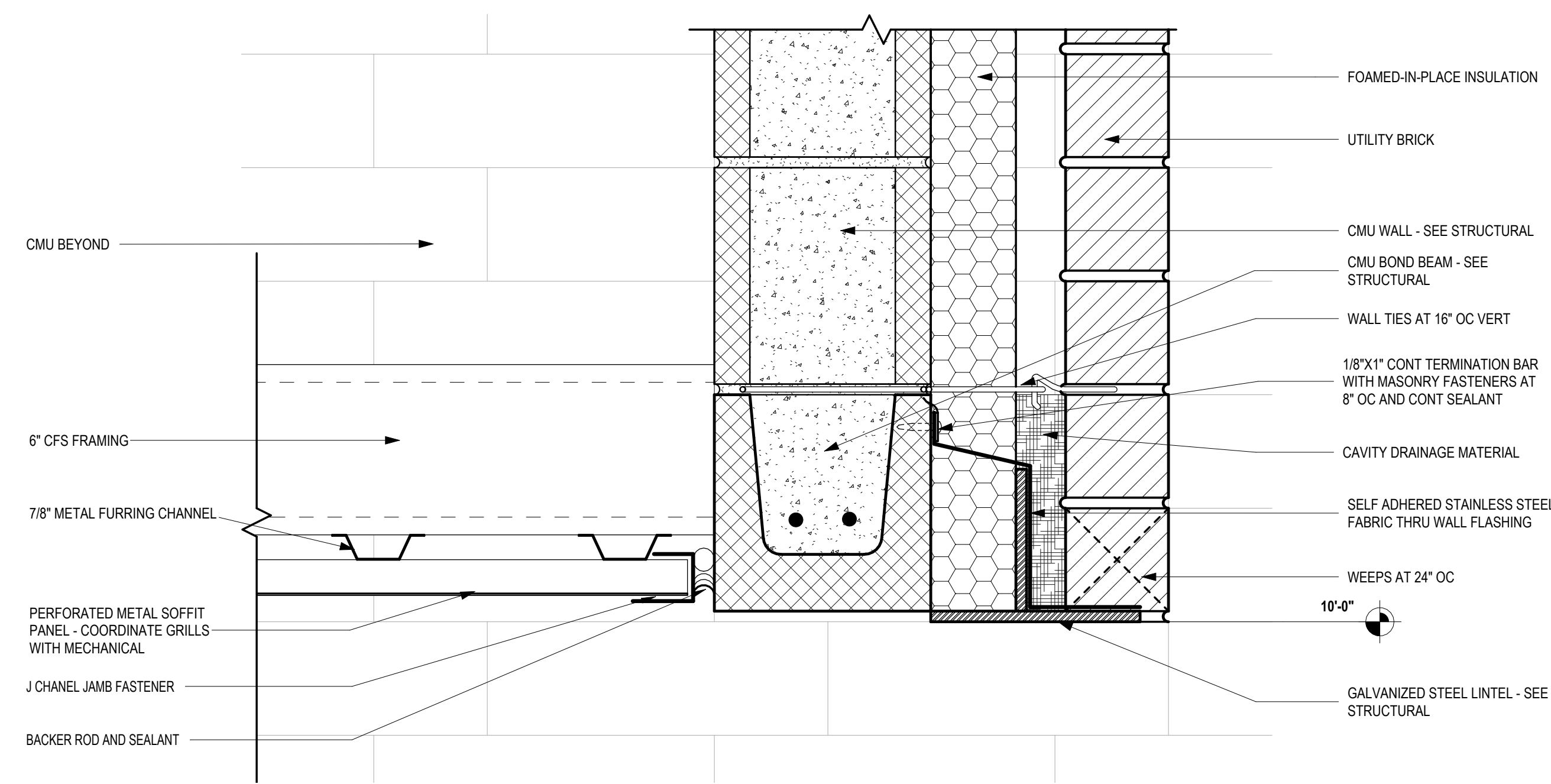
8 STOREFRONT "BOX FRAME" - HEAD TO SOFFIT
SCALE: 3" = 1'-0"



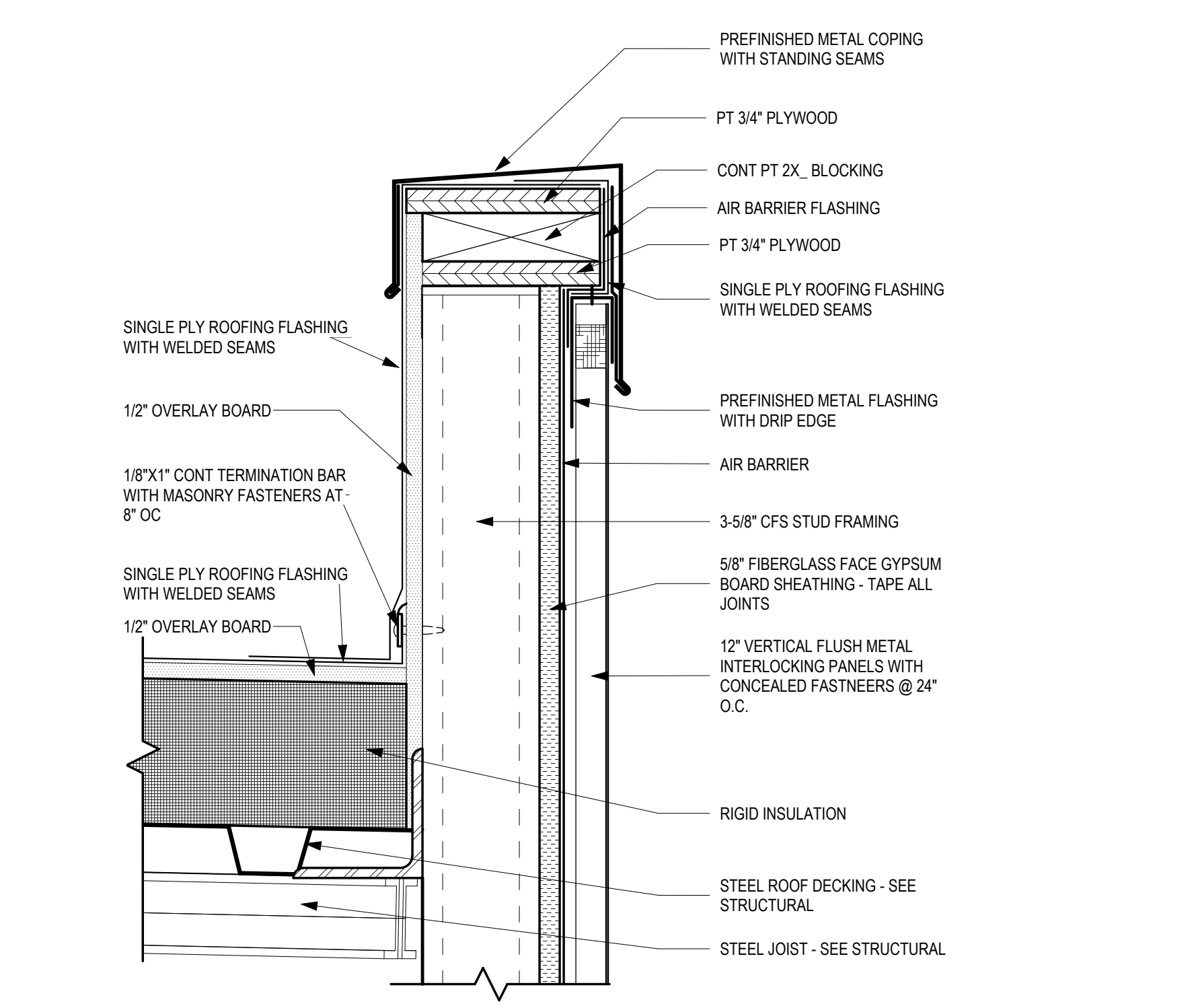
4 DETAIL - TYP. CLERESTORY MTL WALL END ON ROOF TOP
SCALE: 1 1/2" = 1'-0"



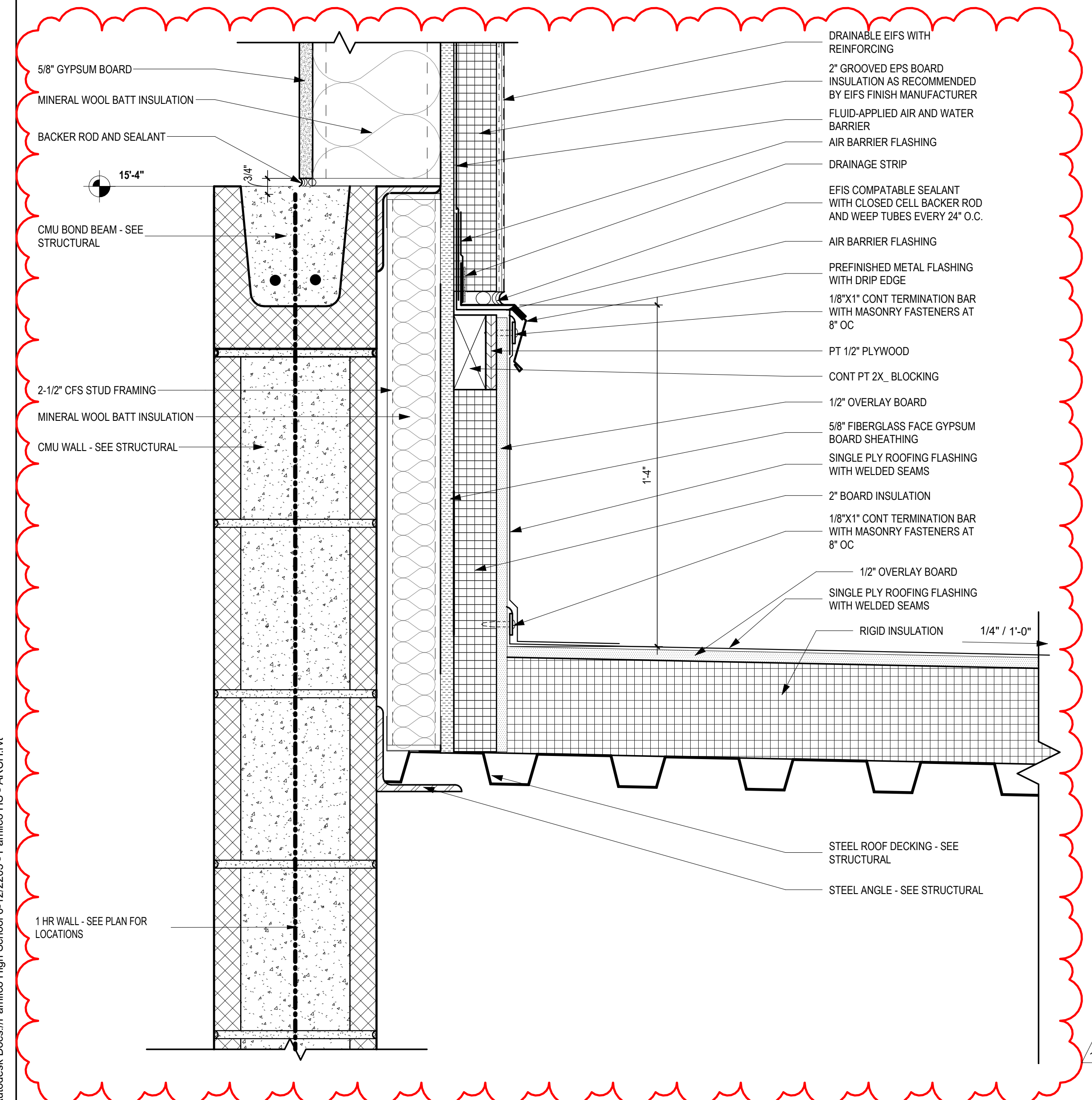
6
A-505
DETAIL - TYP. EFIS PARAPET/ROOF
SCALE: 3" = 1'-0"



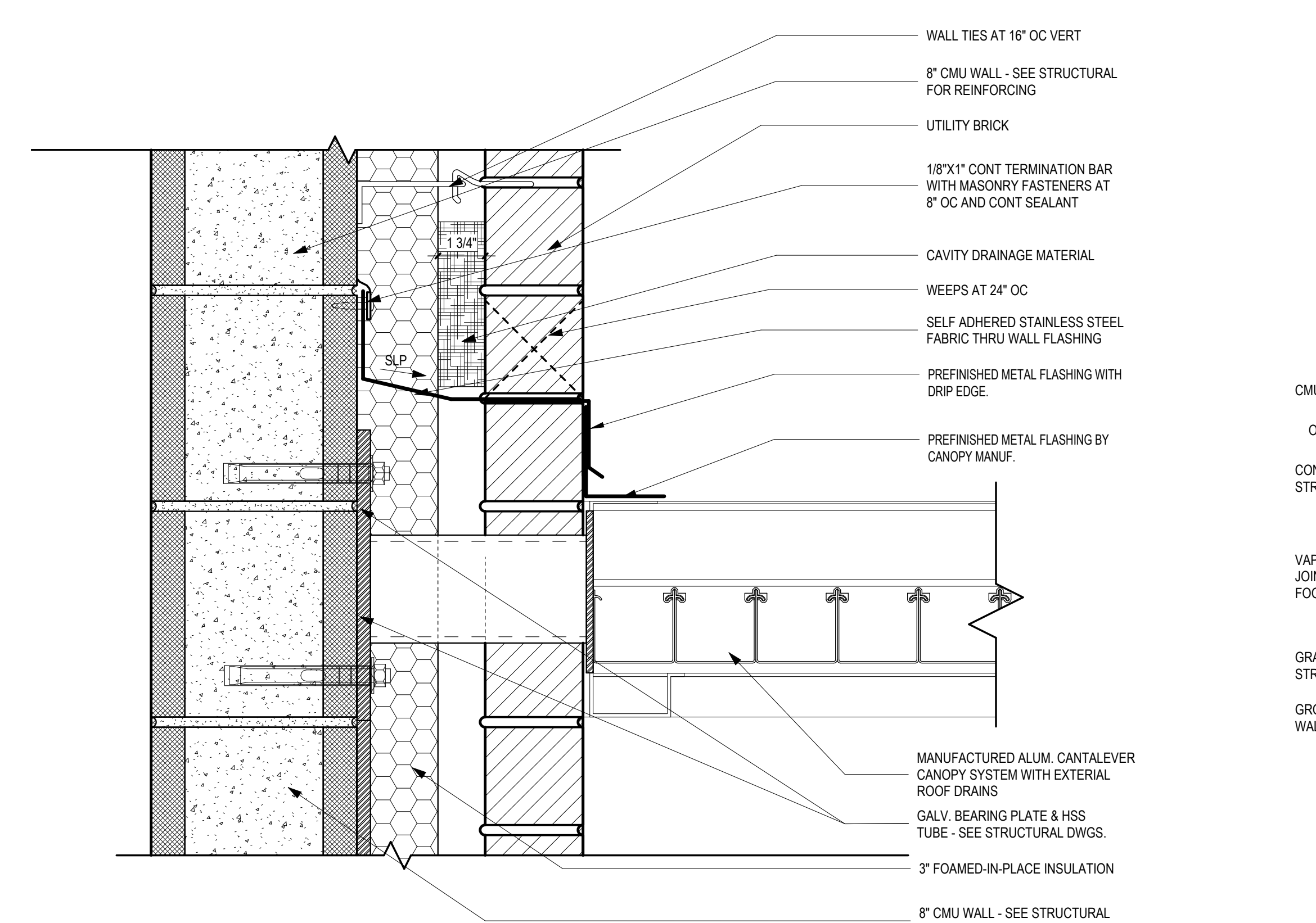
5
A-505
DETAIL - TYP. EXTERIOR ENTRY ALCOVE
SCALE: 3" = 1'-0"



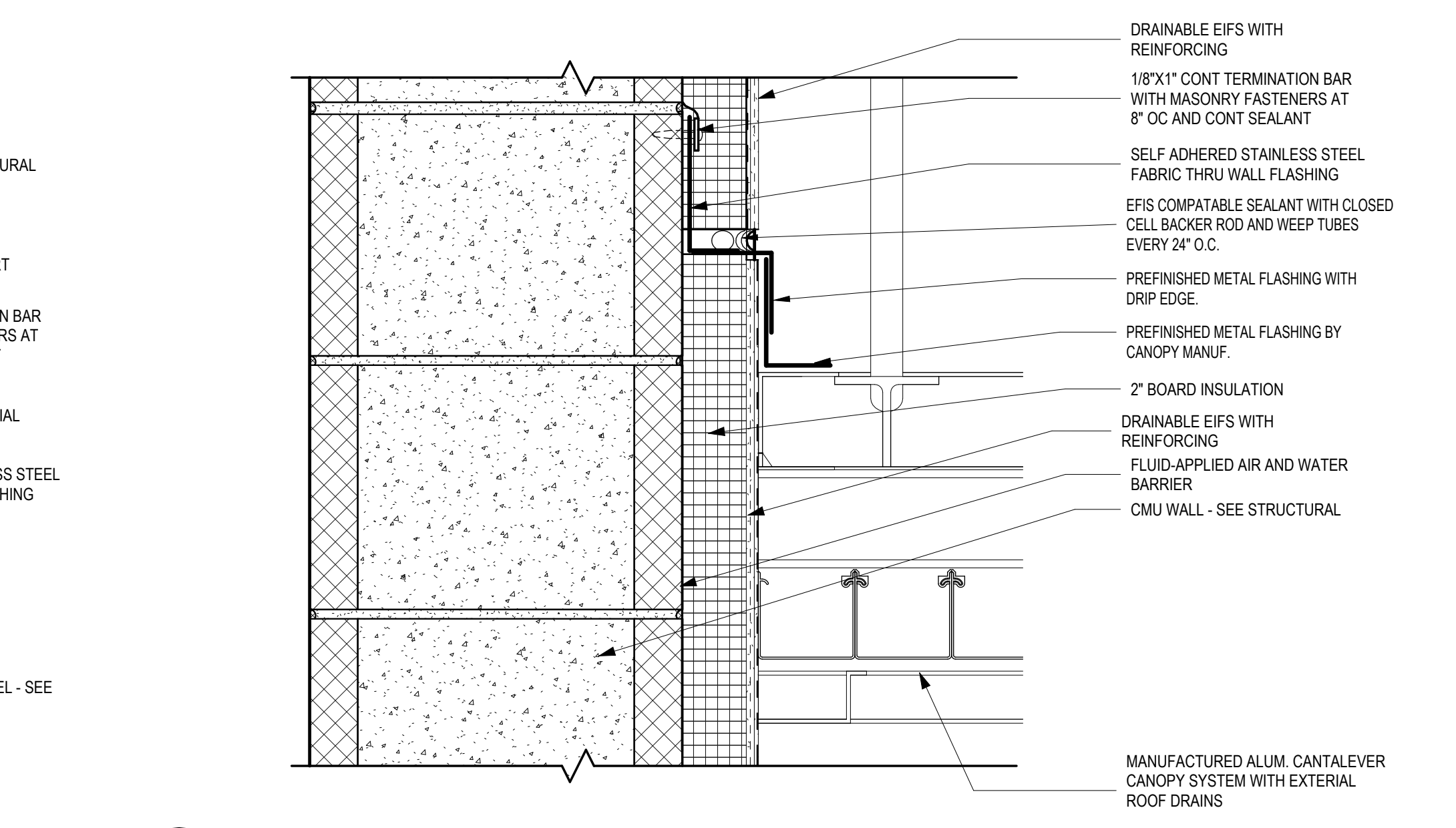
7
A-505
DETAIL - TYP. ADMIN ROOF PARAPET
SCALE: 3" = 1'-0"



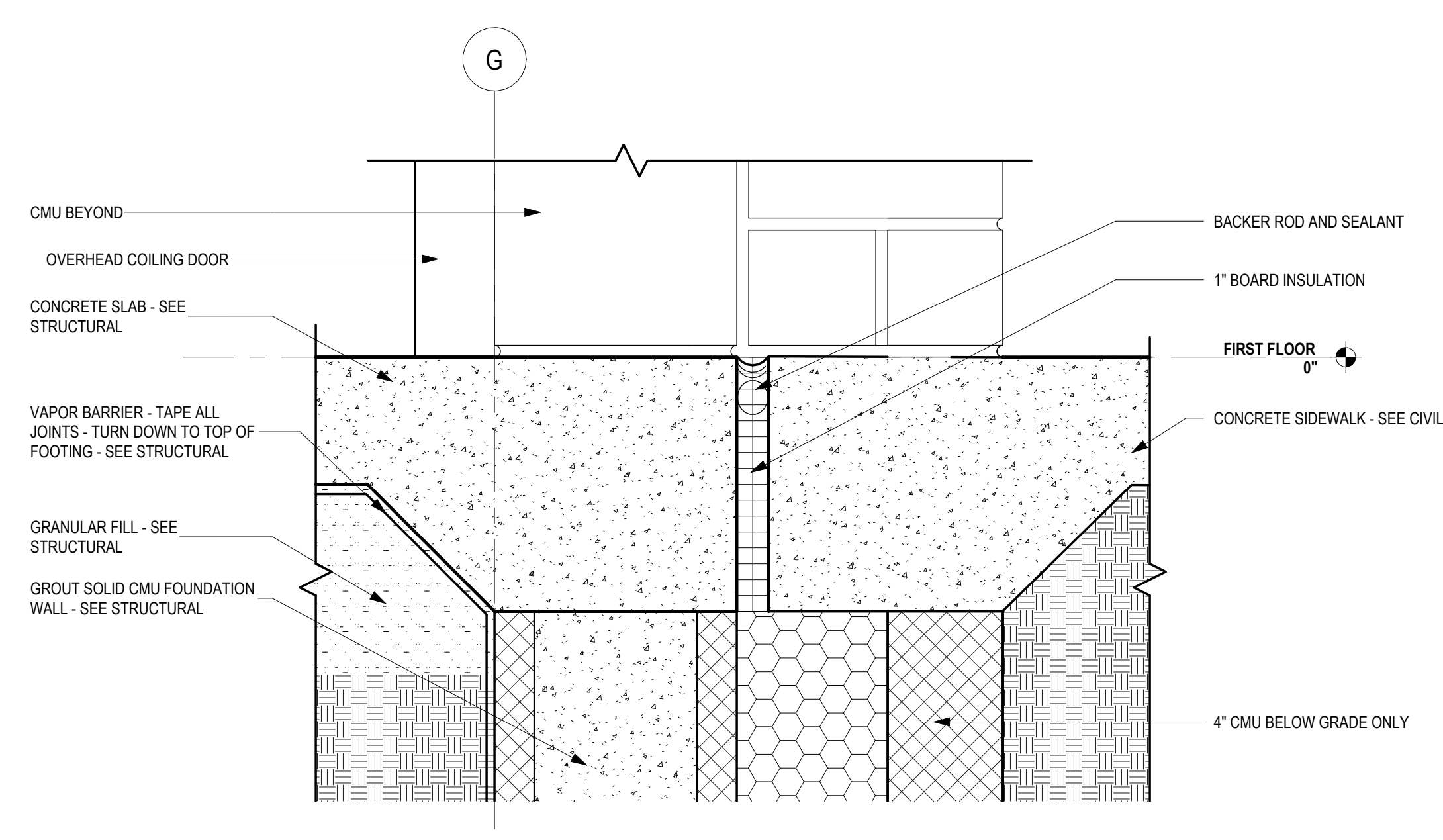
3
A-505
DETAIL - TYP. STUD WALL ON CMU AT ROOF - 1HR RATED
SCALE: 3" = 1'-0"



2
A-505
DETAIL - MANUF. CANOPY @ MASONRY
SCALE: 3" = 1'-0"



4
A-505
DETAIL - MANUF. CANOPY SIDE
SCALE: 3" = 1'-0"



1
A-505
DETAIL - OVERHEAD DOOR OPENING AT FLOOR
SCALE: 3" = 1'-0"

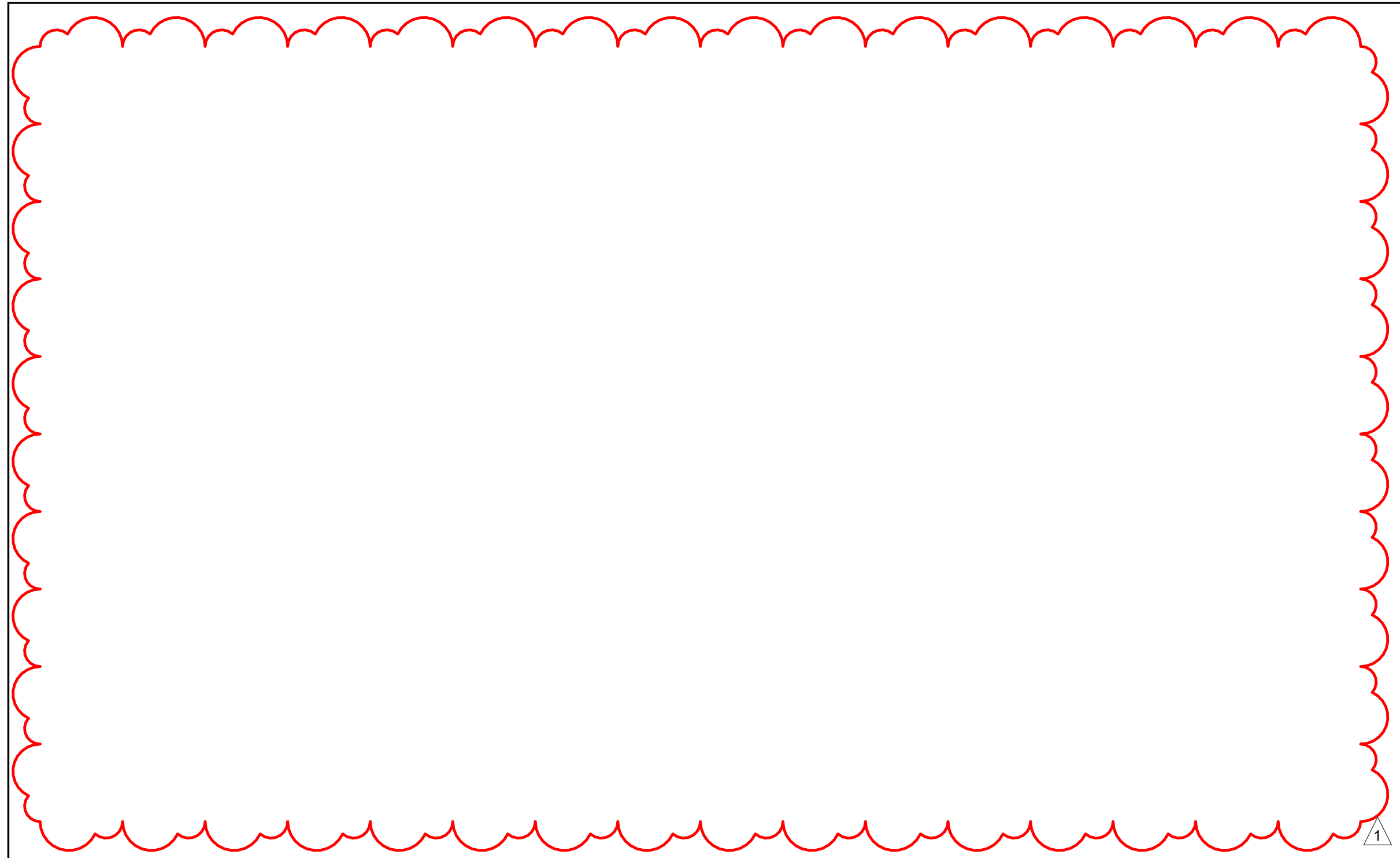
PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



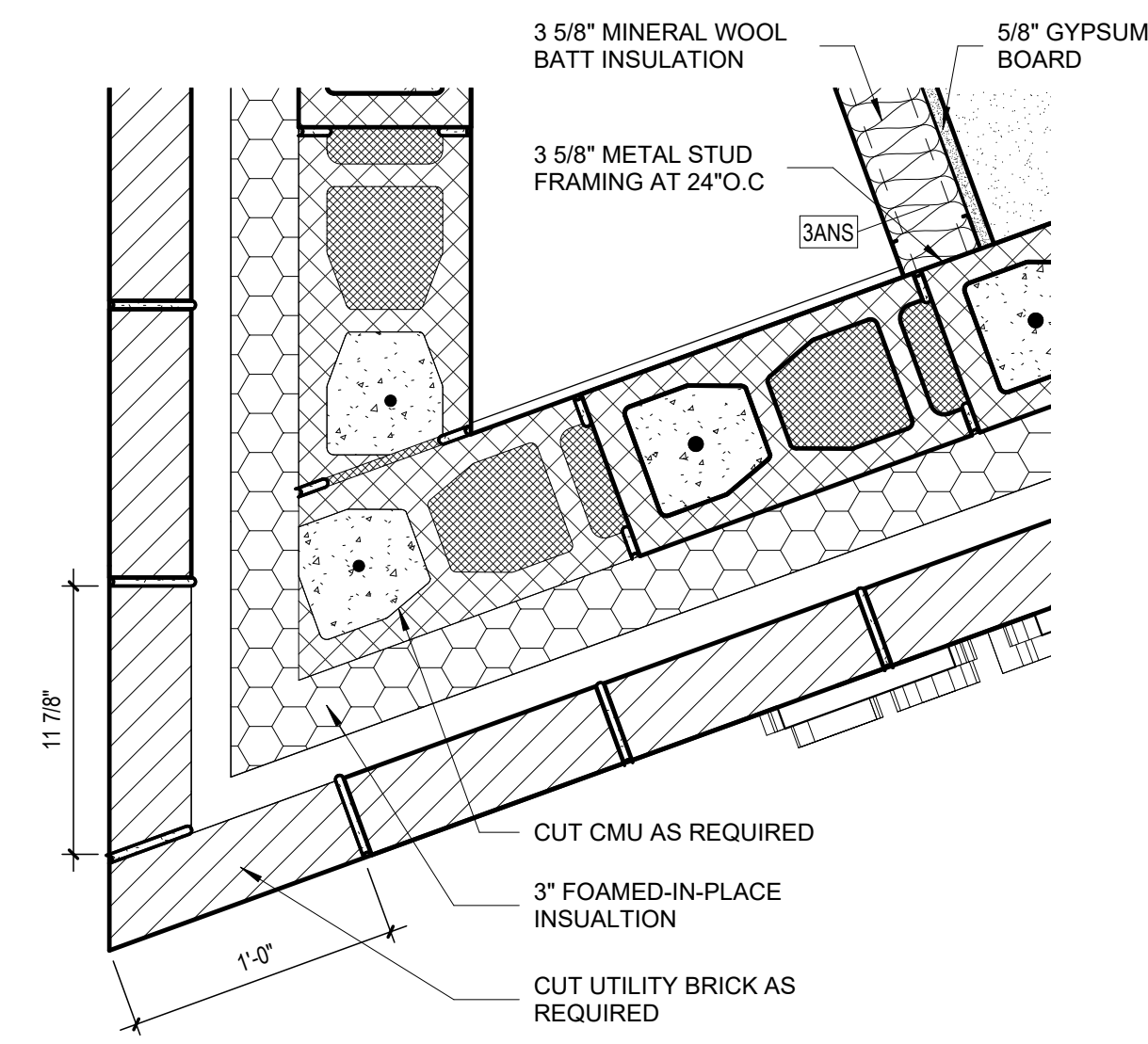
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No.	Date	Description
ISSUE DATE: 06/12/24		
PROJECT #:	2205	
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EXTERIOR DETAILS

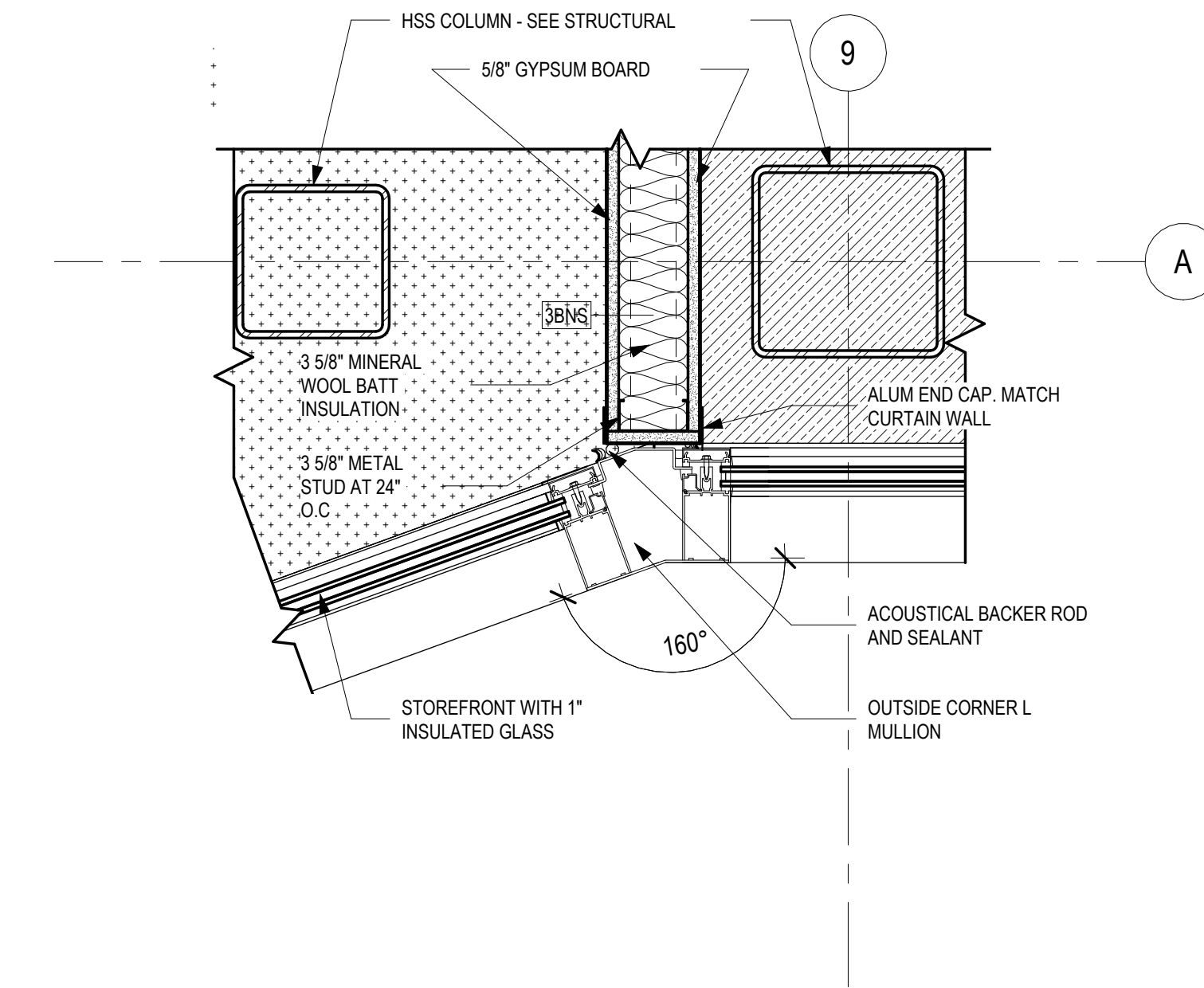
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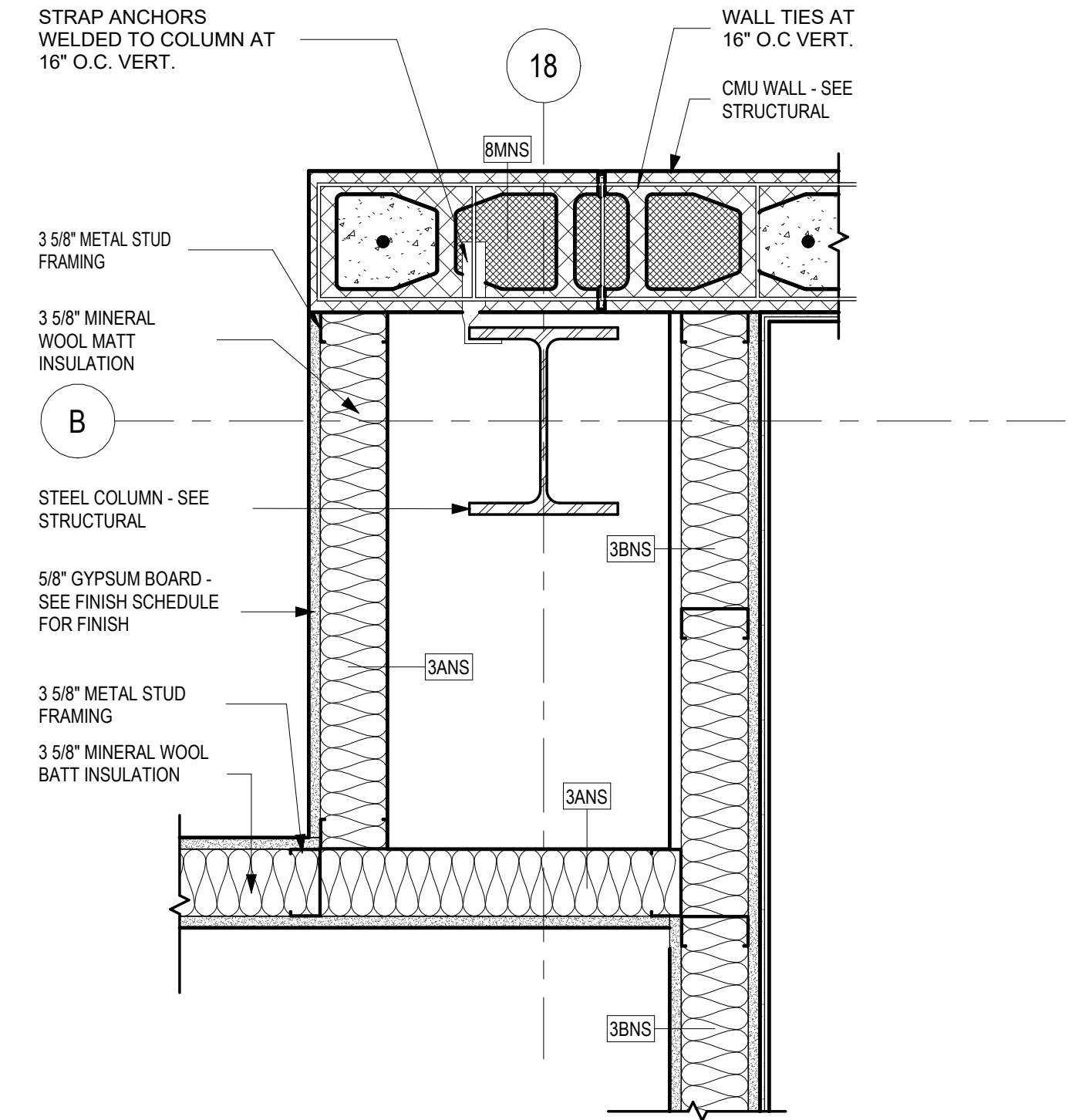
9 PLAN DTL. - ADMIN - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



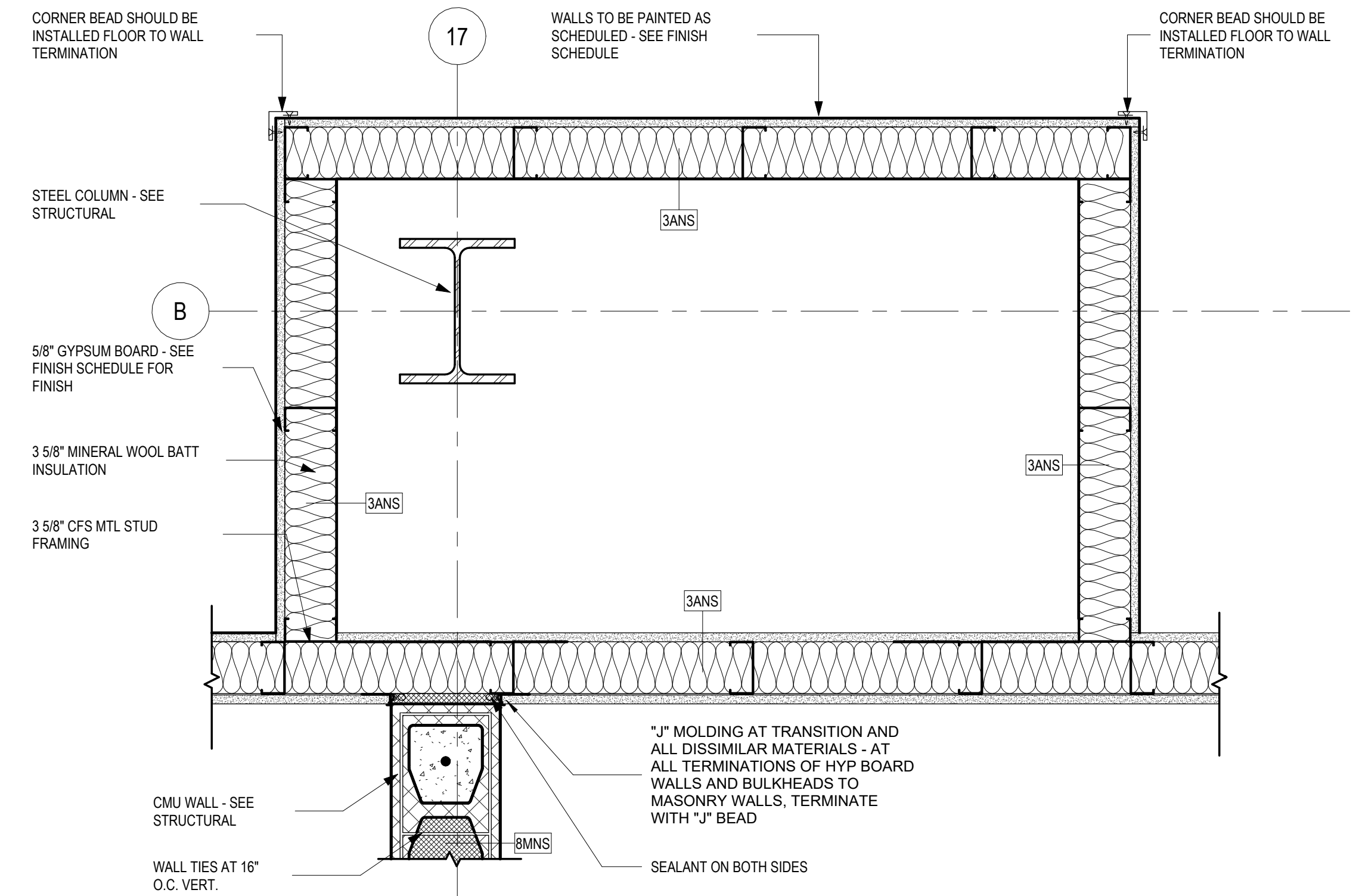
8 PLAN DTL. - COL. A9 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



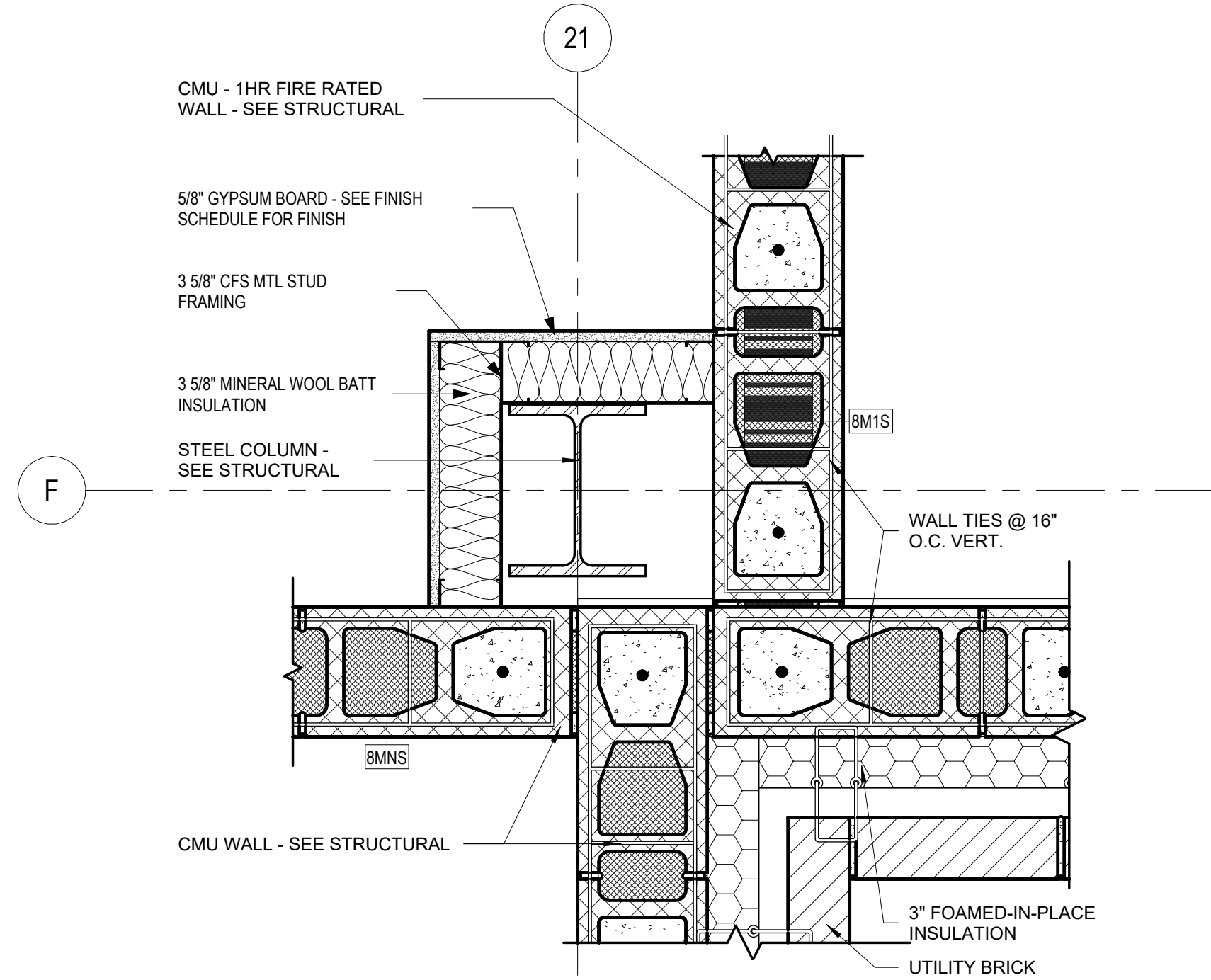
6 PLAN DTL. - COL. B18 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



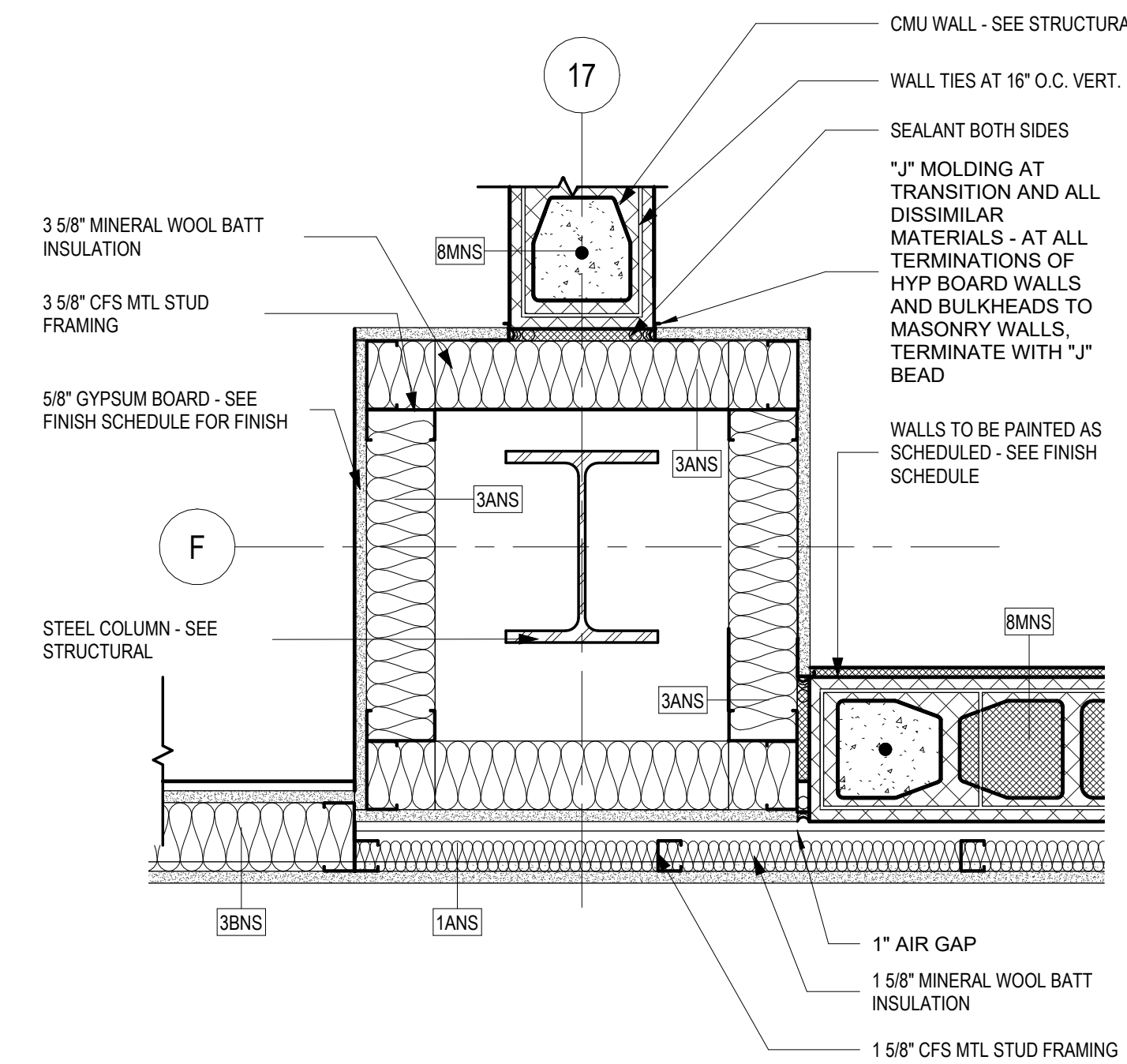
5 PLAN DTL. - COL. B17 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



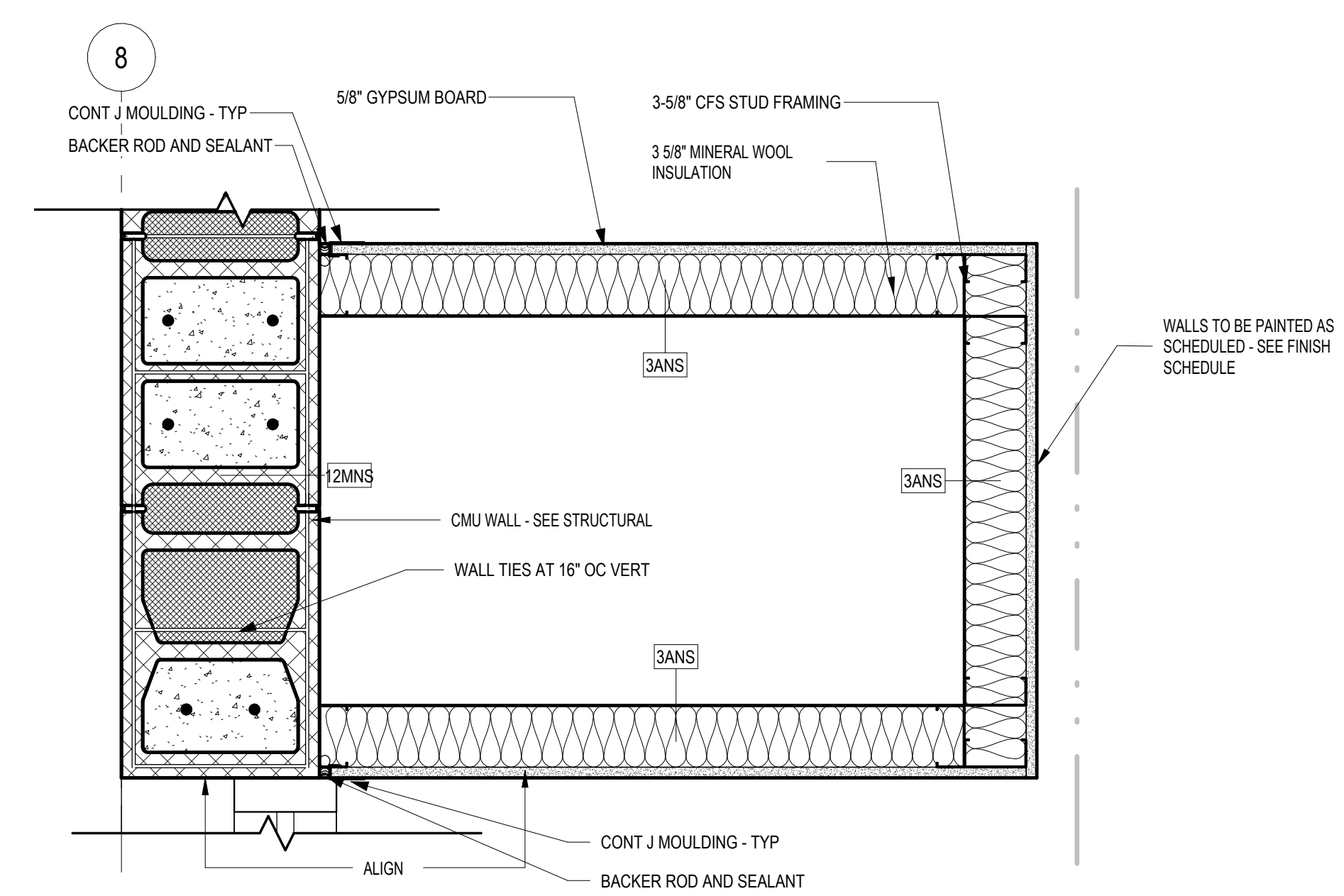
7 PLAN DTL. - COL. F21 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



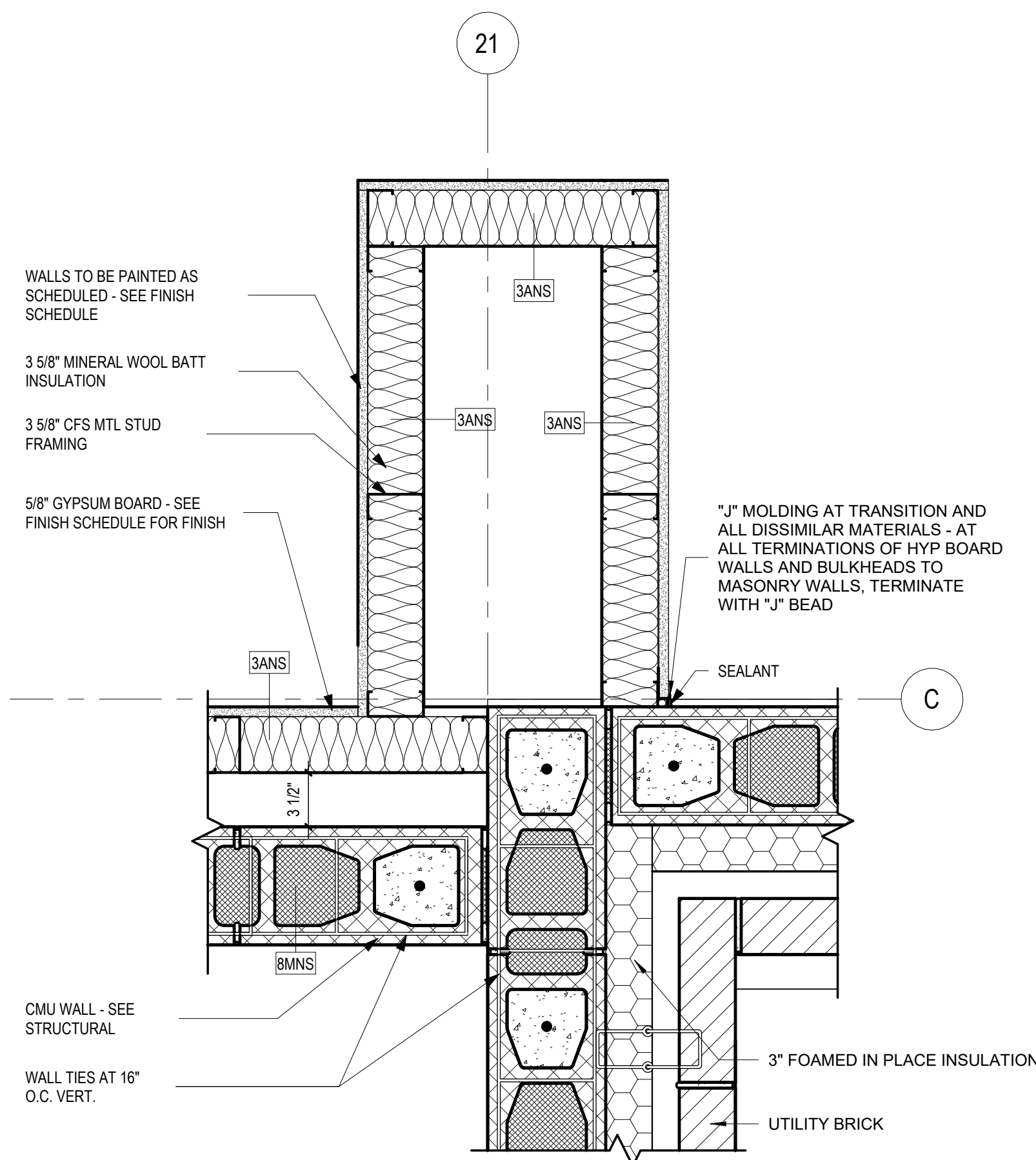
2 PLAN DTL. - COL. F17 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



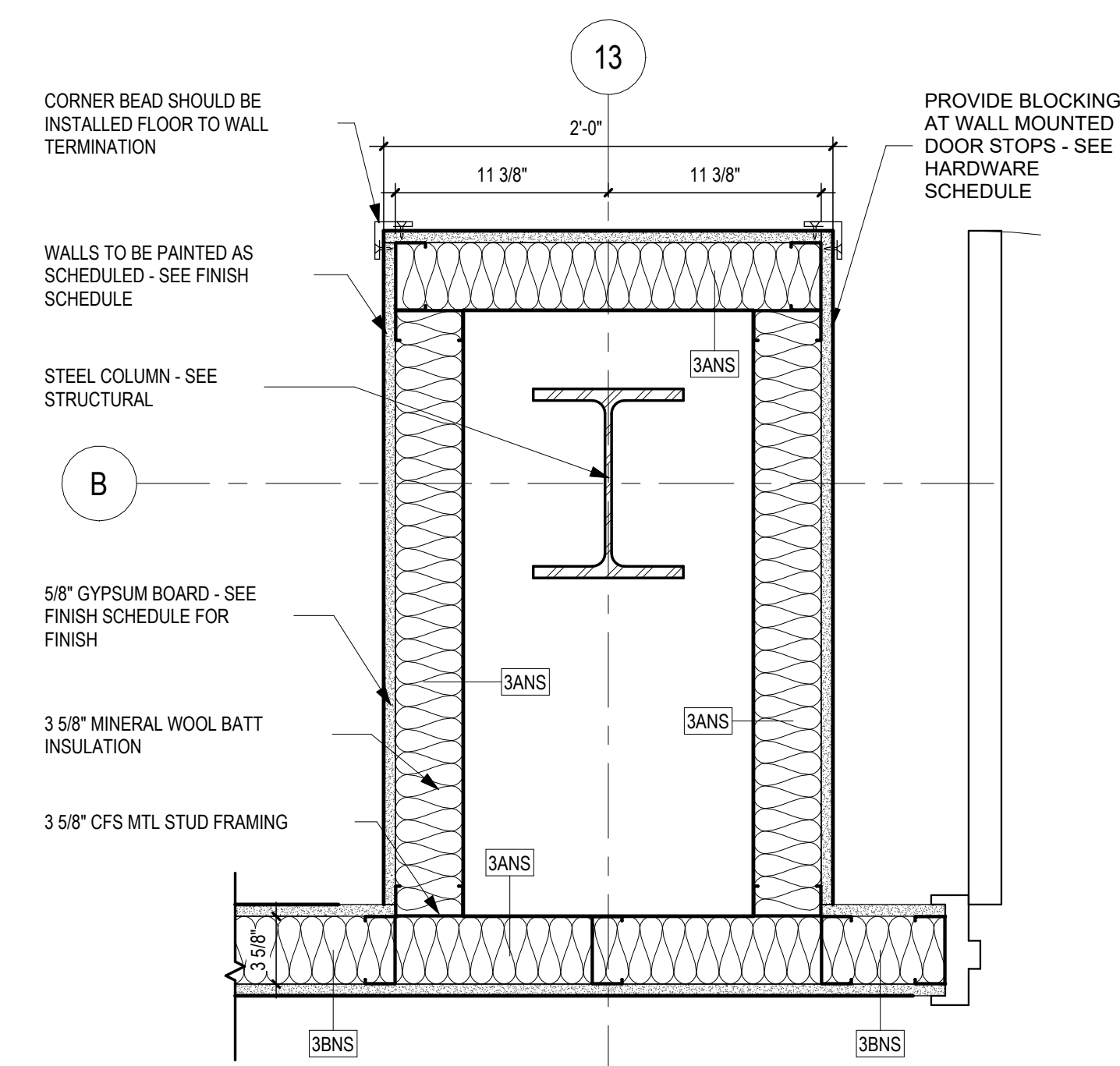
1 CAFETERIA ACCENT FRAMING PLAN DETAIL
A-511 SCALE: 1 1/2" = 1'-0"



3 PLAN DTL. - COL. C21 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



4 PLAN DTL. - COL. B13 - LVL. 01
A-511 SCALE: 1 1/2" = 1'-0"



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6.12.24

CONSTRUCTION DOCUMENTS

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601 Main Street, Bayboro, NC, 28515



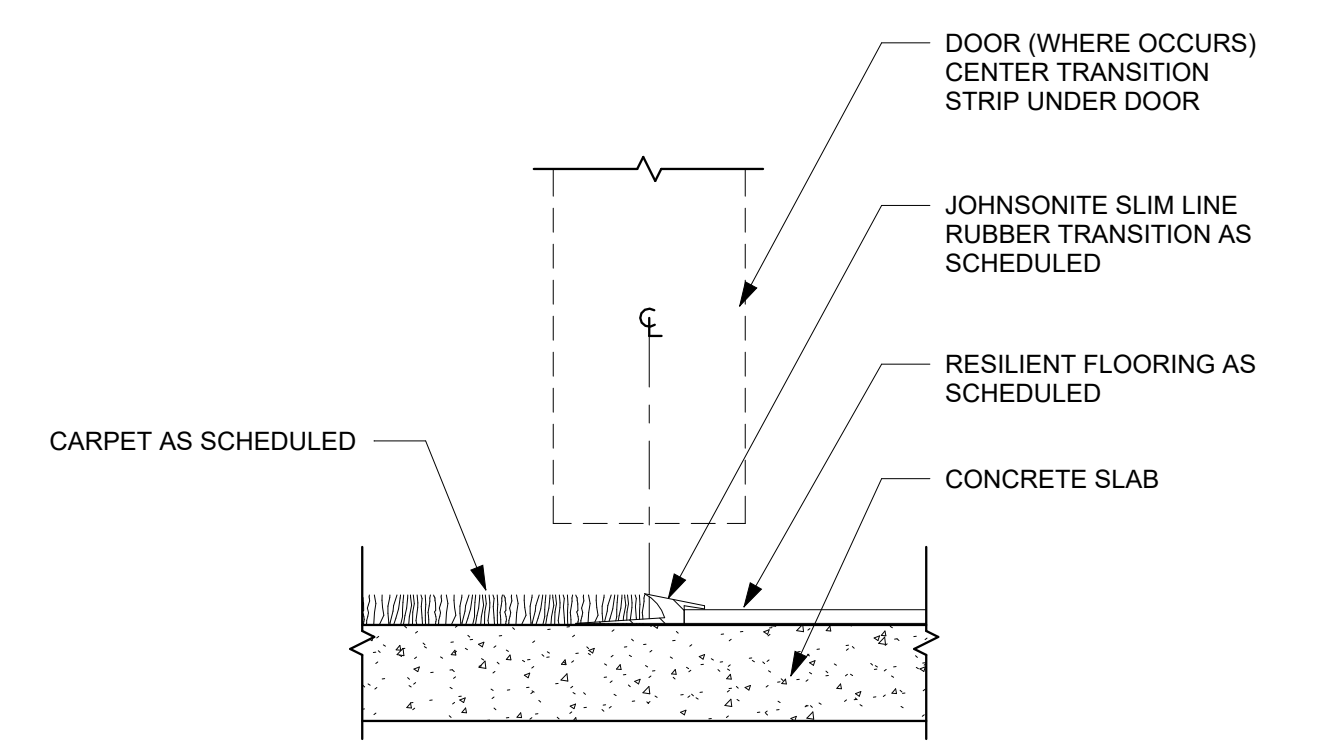
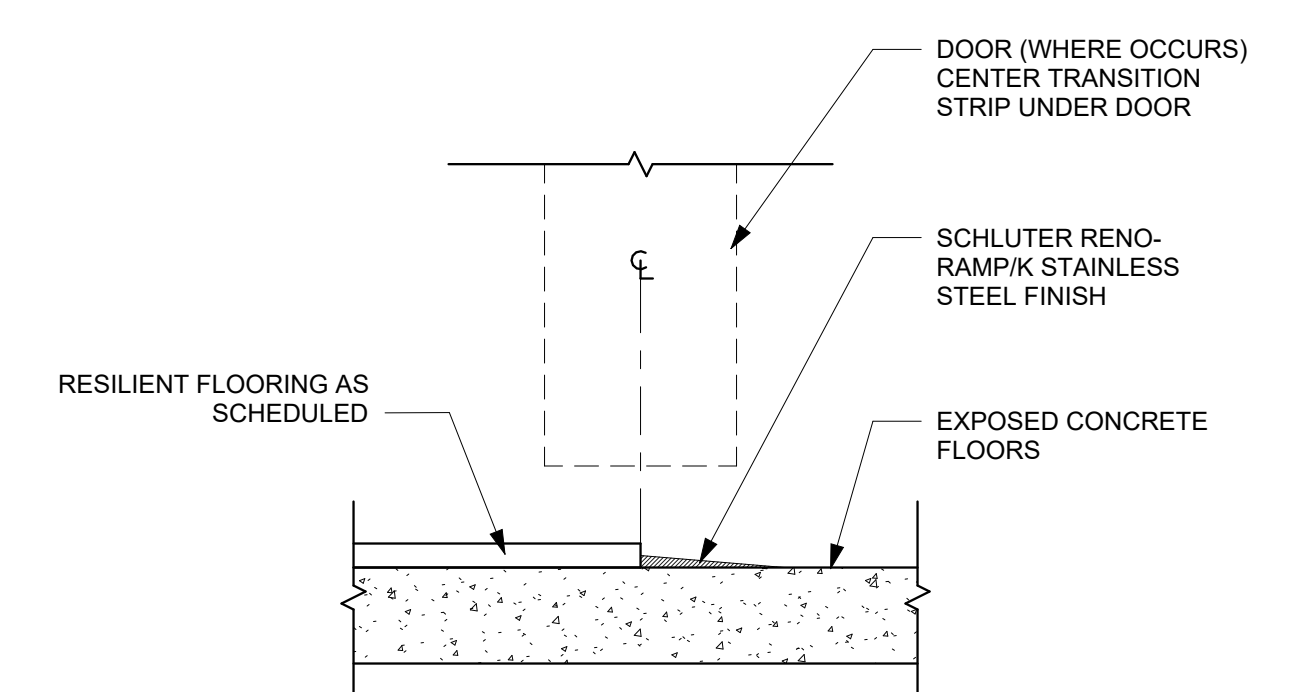
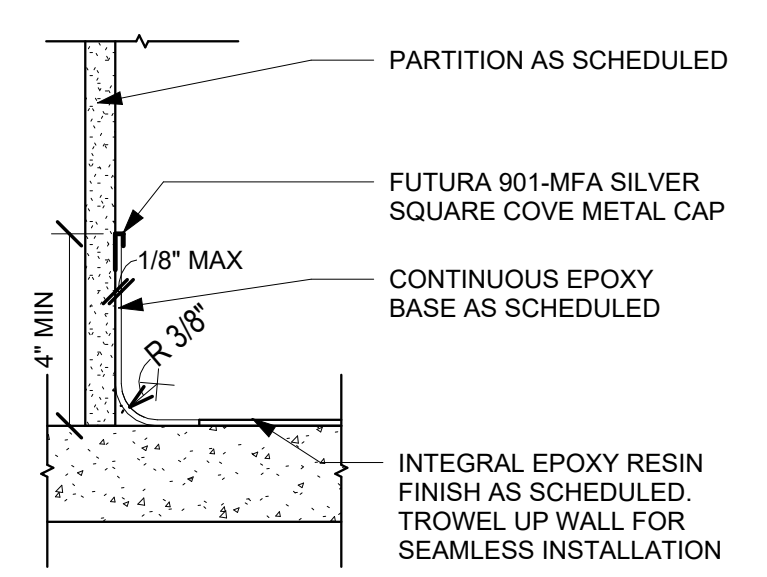
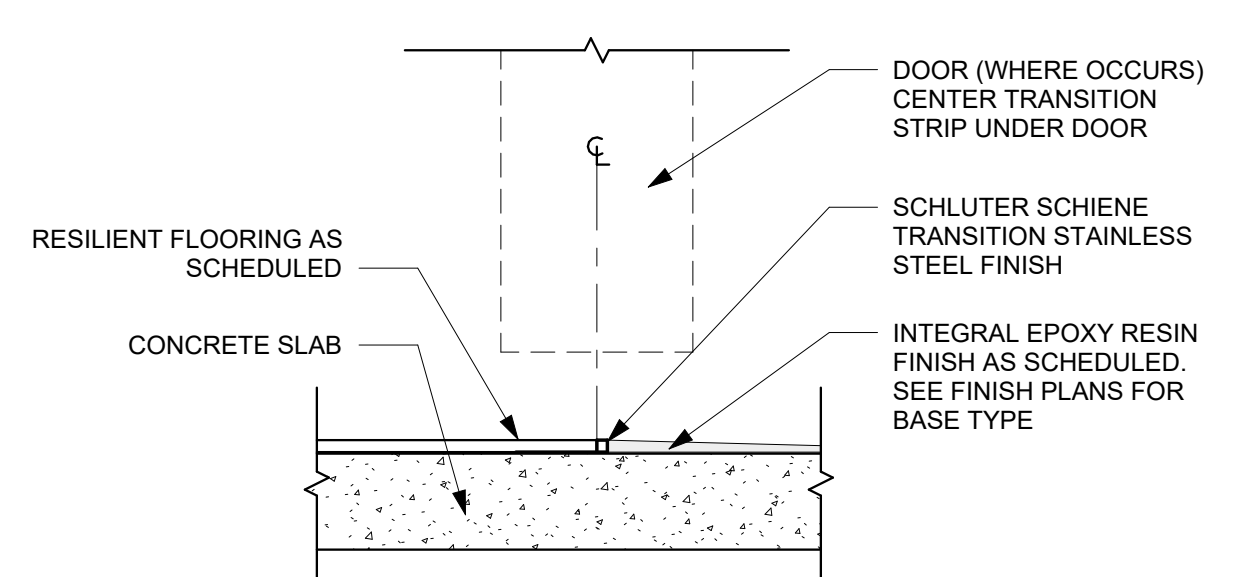
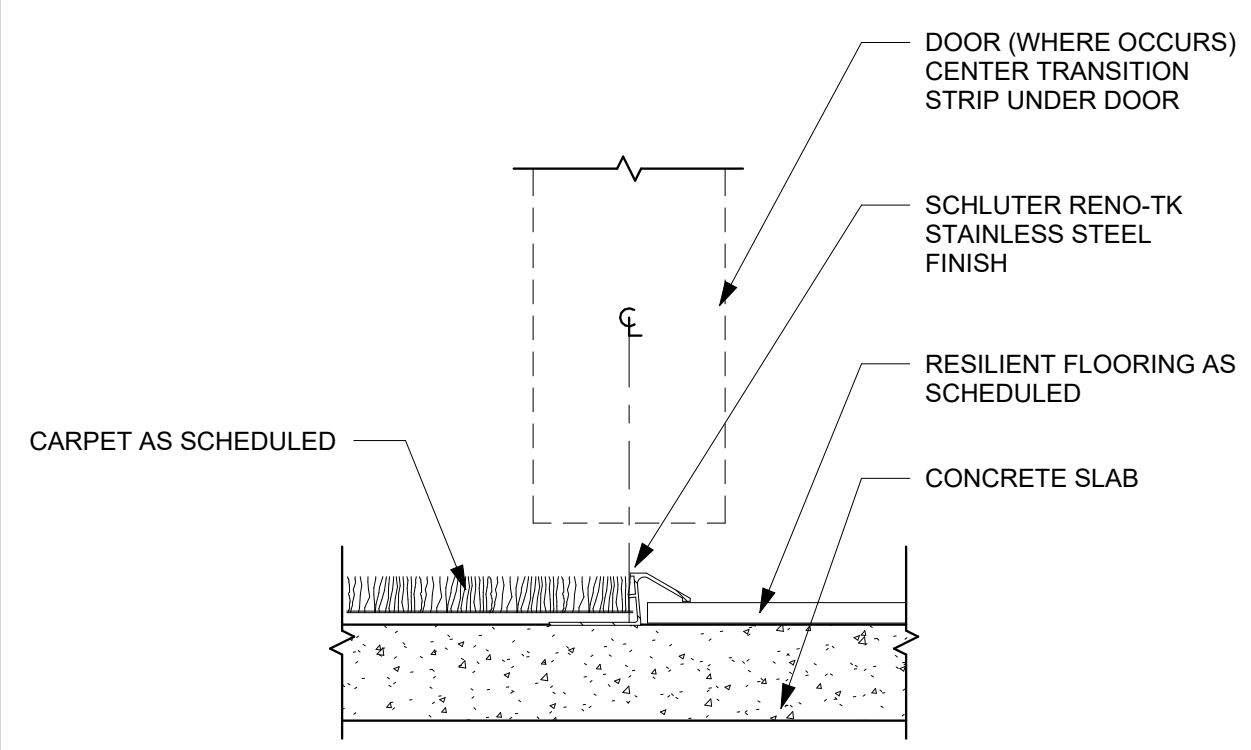
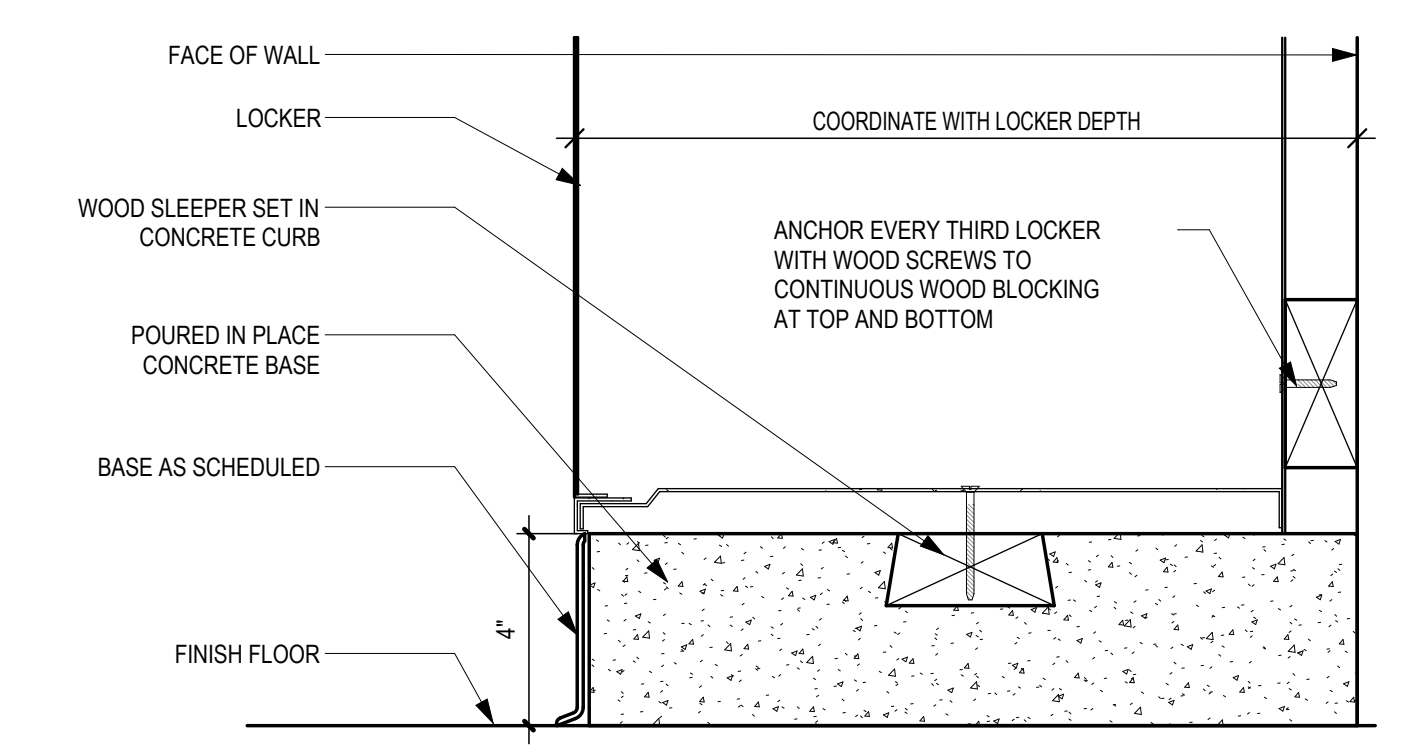
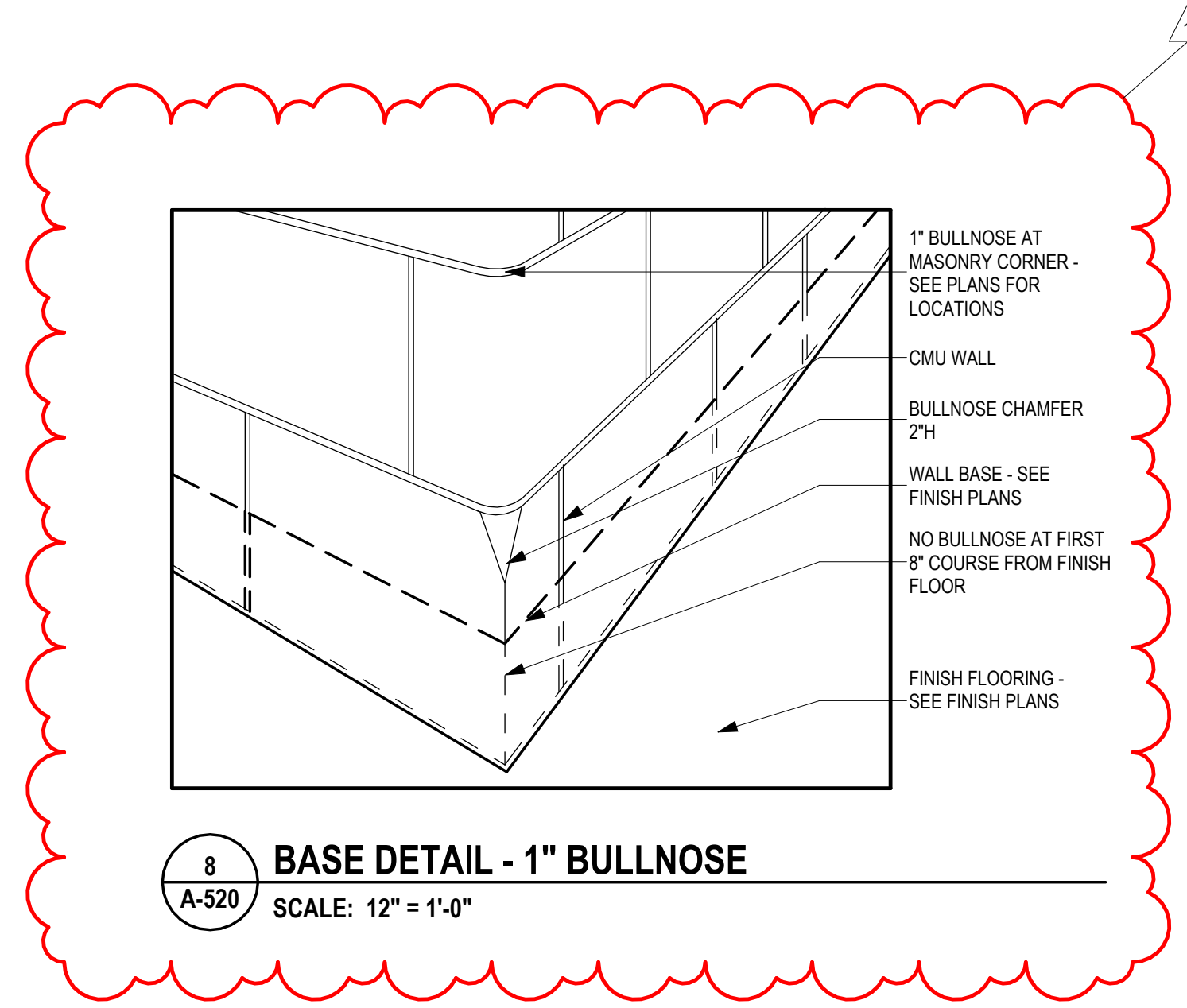
1	07/10/2024	Bid Addendum 2
No.	Date	Description
ISSUE DATE: 06/12/24		
PROJECT #: 2205		
DRAWN BY: MK		
CHECKED BY: MK		

PLAN DETAILS

A-511

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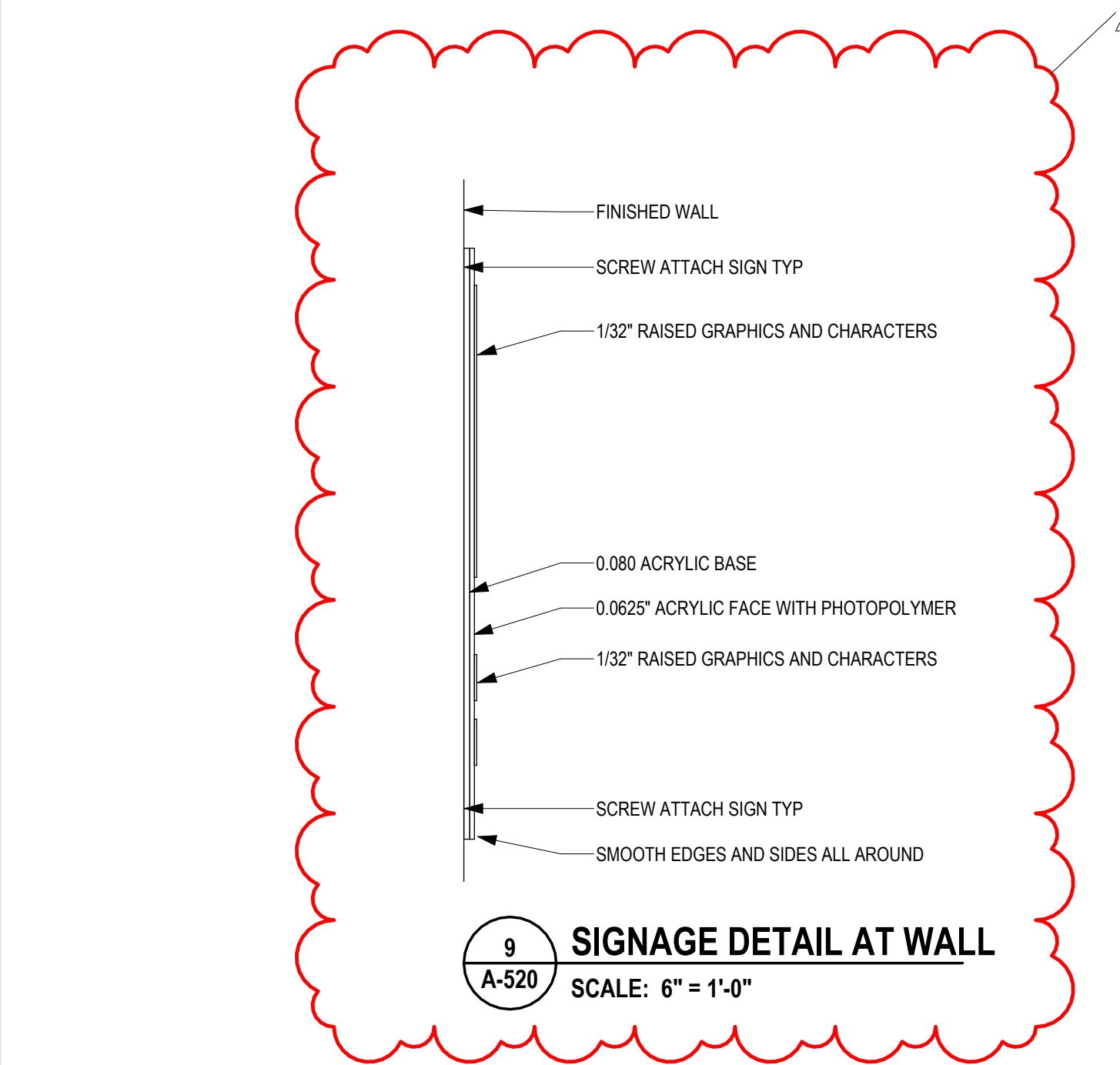
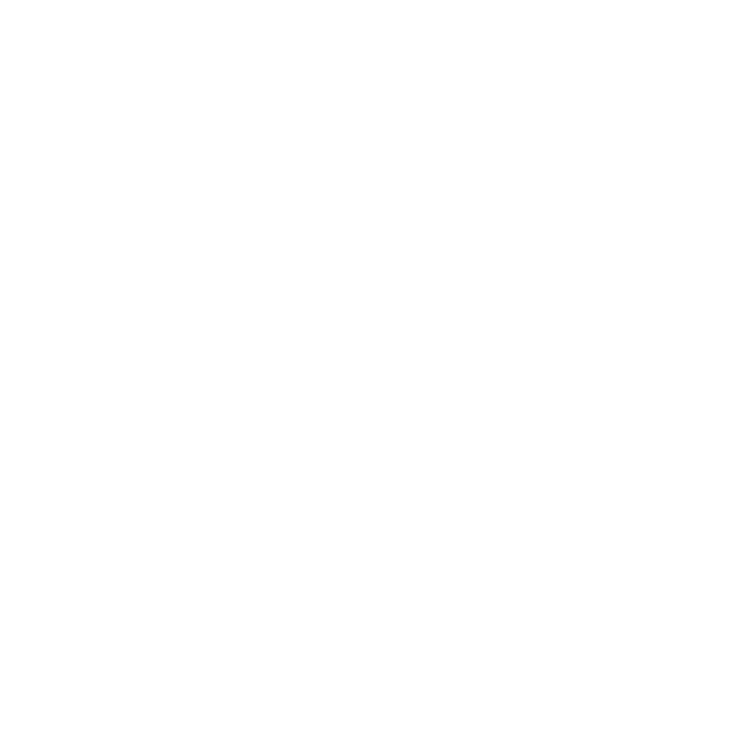
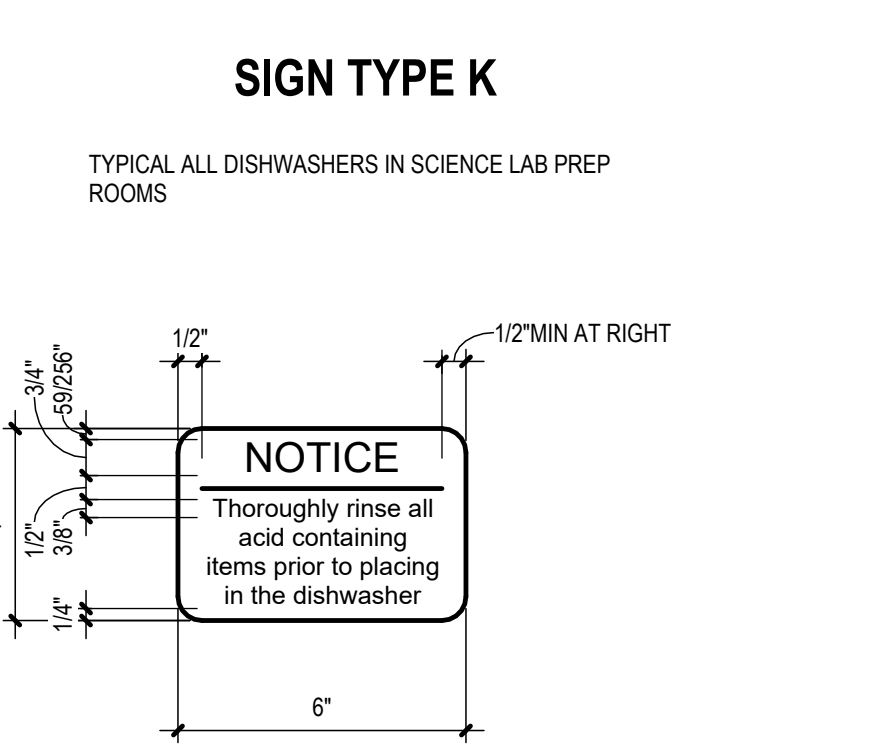
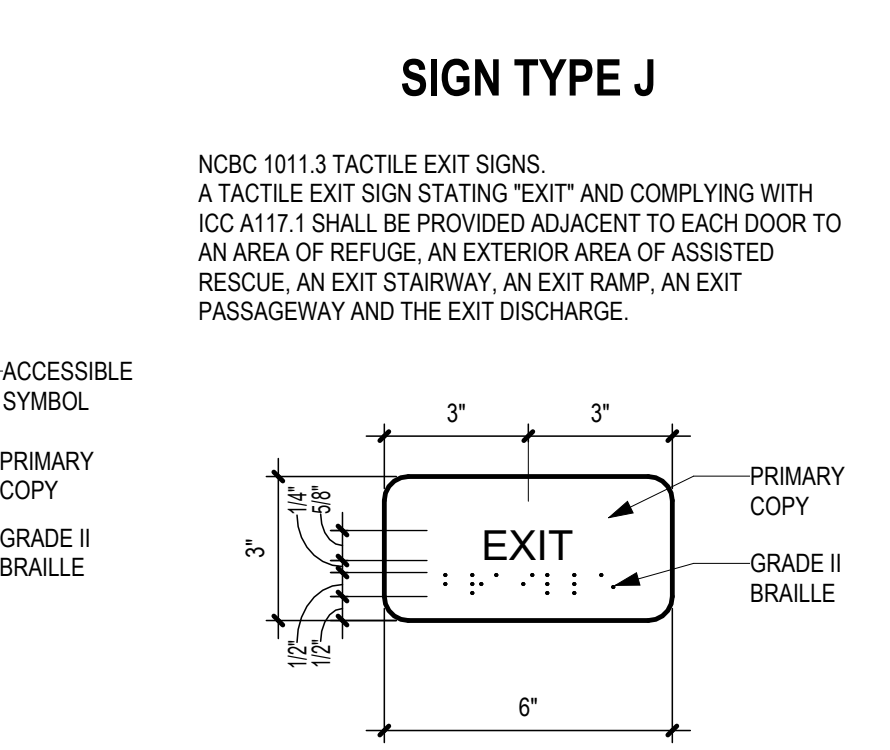
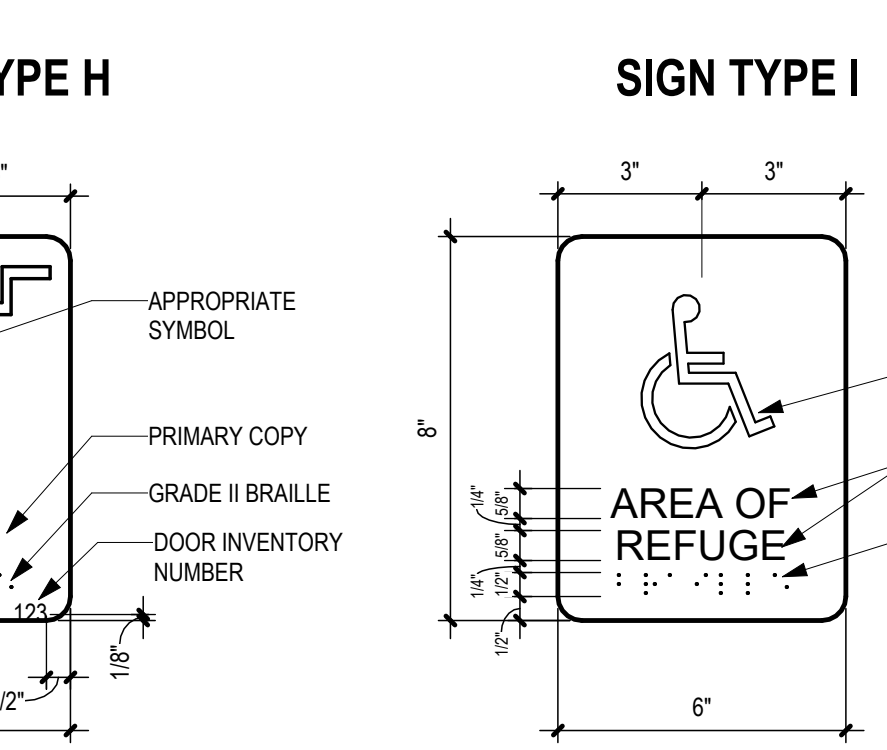
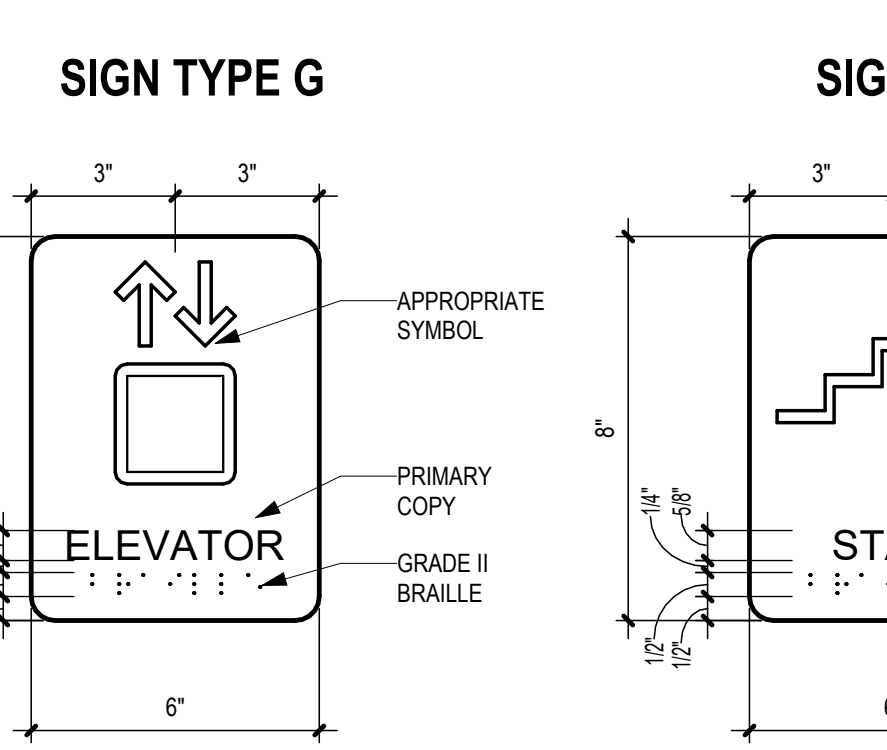
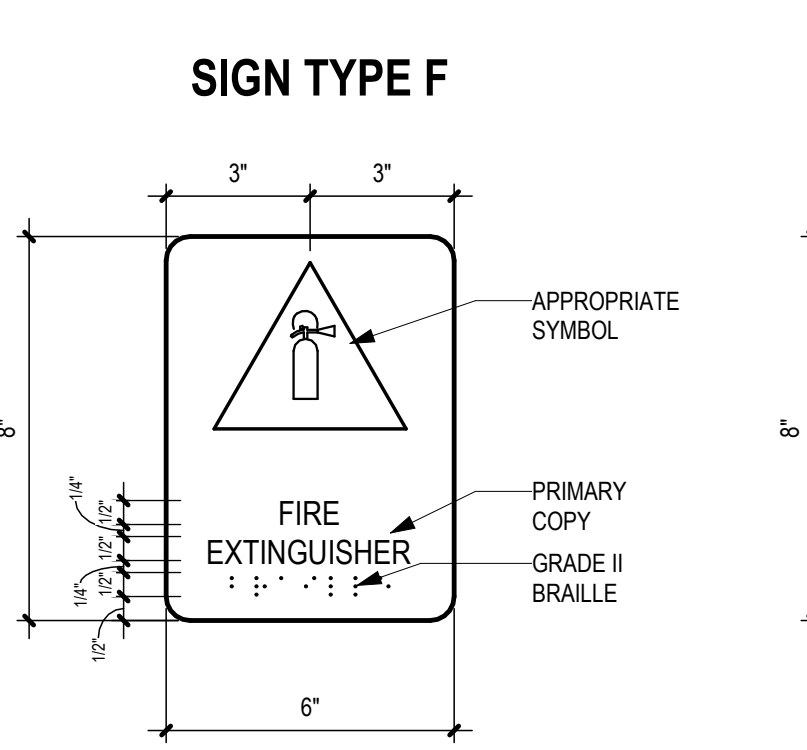
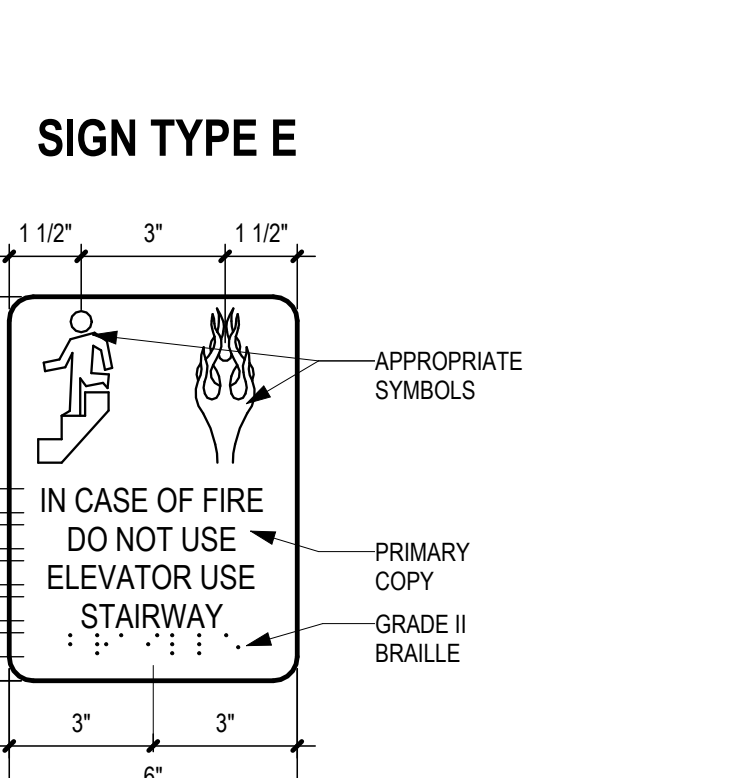
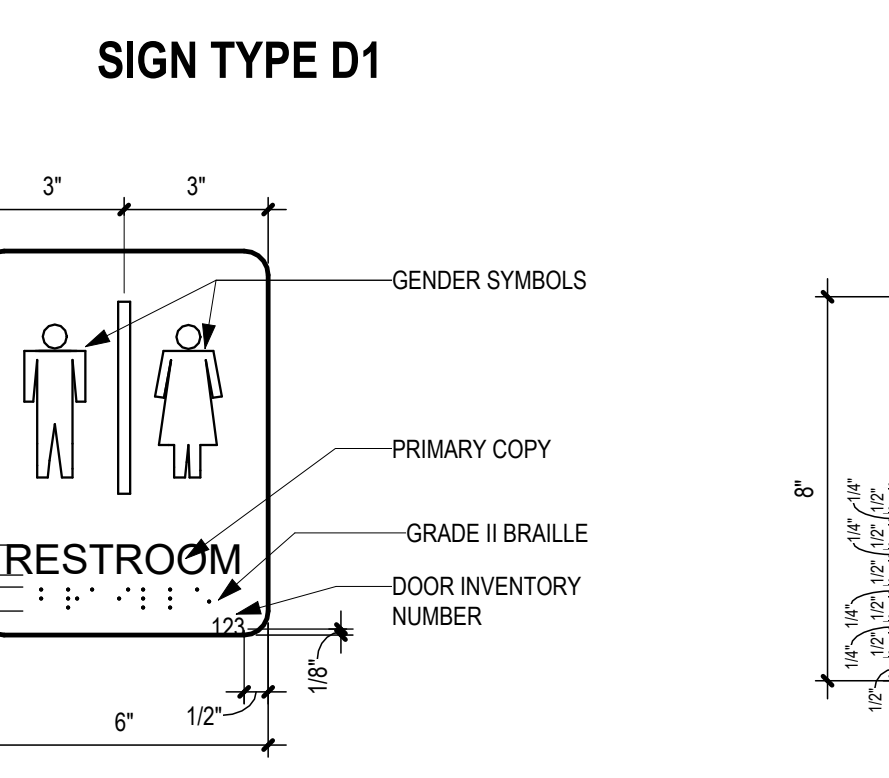
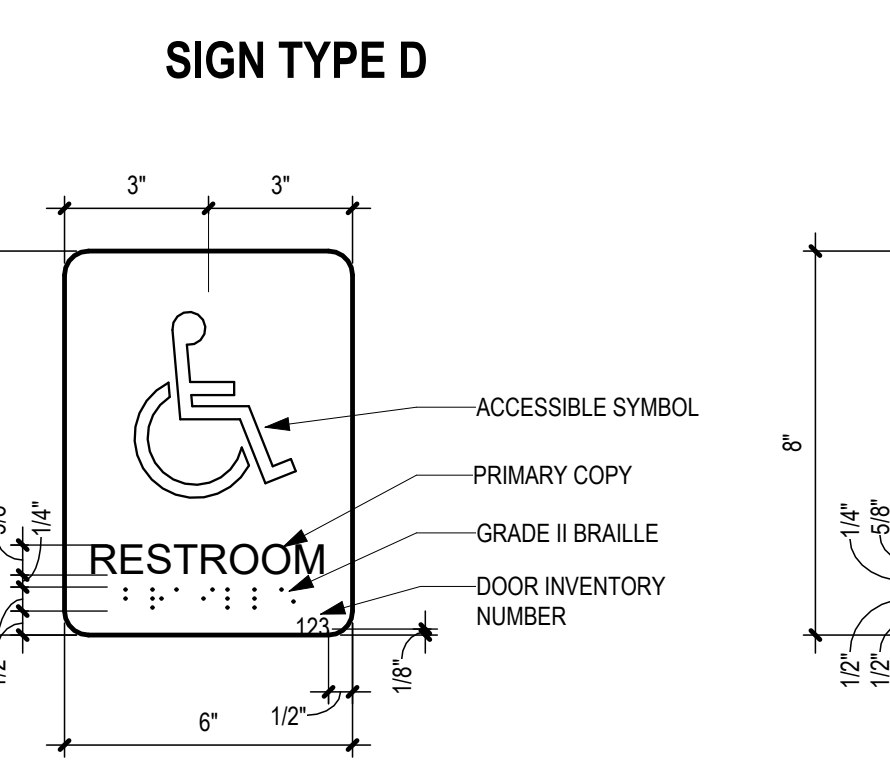
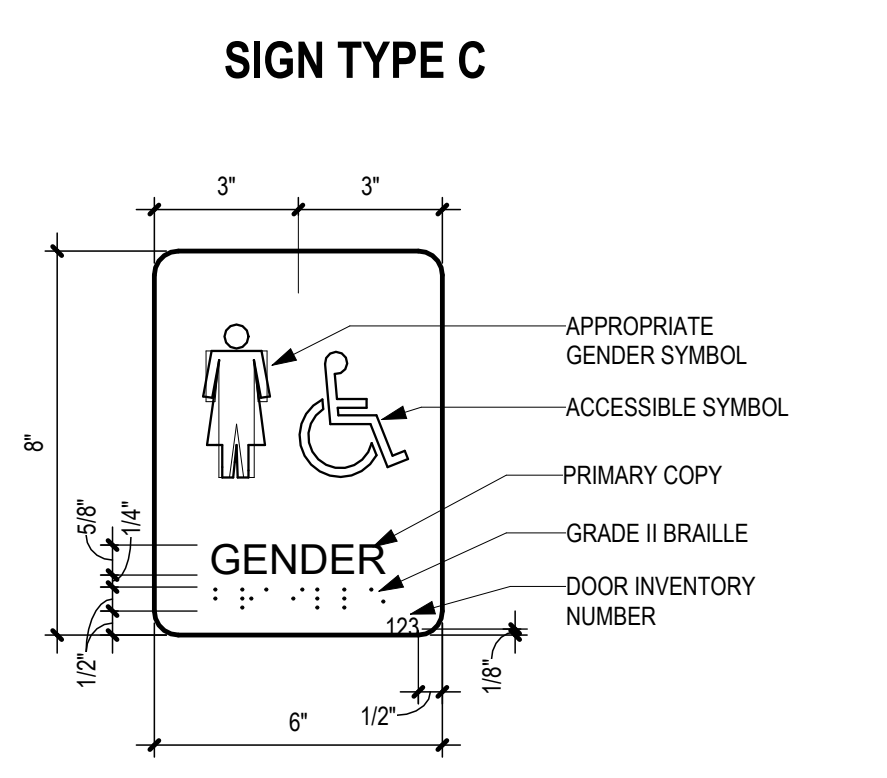
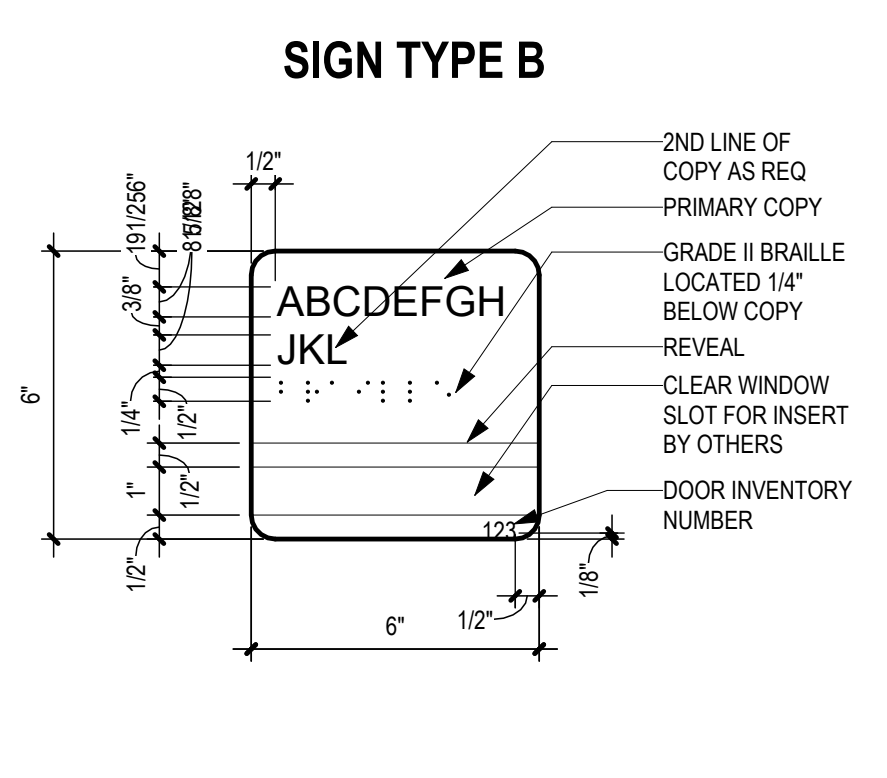
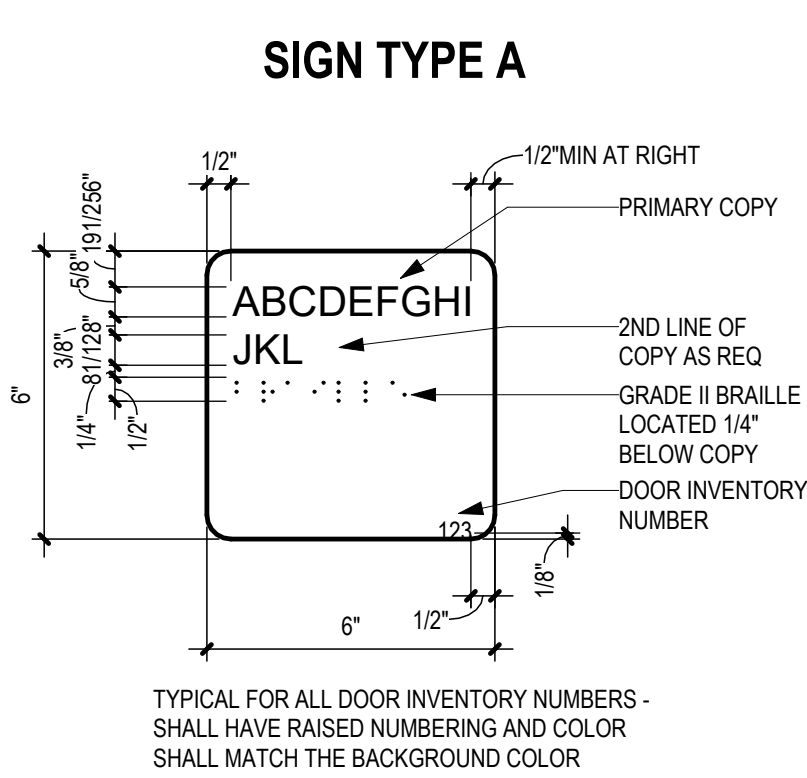
7 CARPET TO RESILIENT FLOOR TRANSITION
SCALE: 6" = 1'-0"

5 RESILIENT FLOOR TRANSITION TO EPOXY
SCALE: 6" = 1'-0"

4 EPOXY COVE BASE DETAIL AT PARTITION
SCALE: 3" = 1'-0"

3 RESILIENT FLOOR TRANSITION TO CONCRETE
SCALE: 6" = 1'-0"

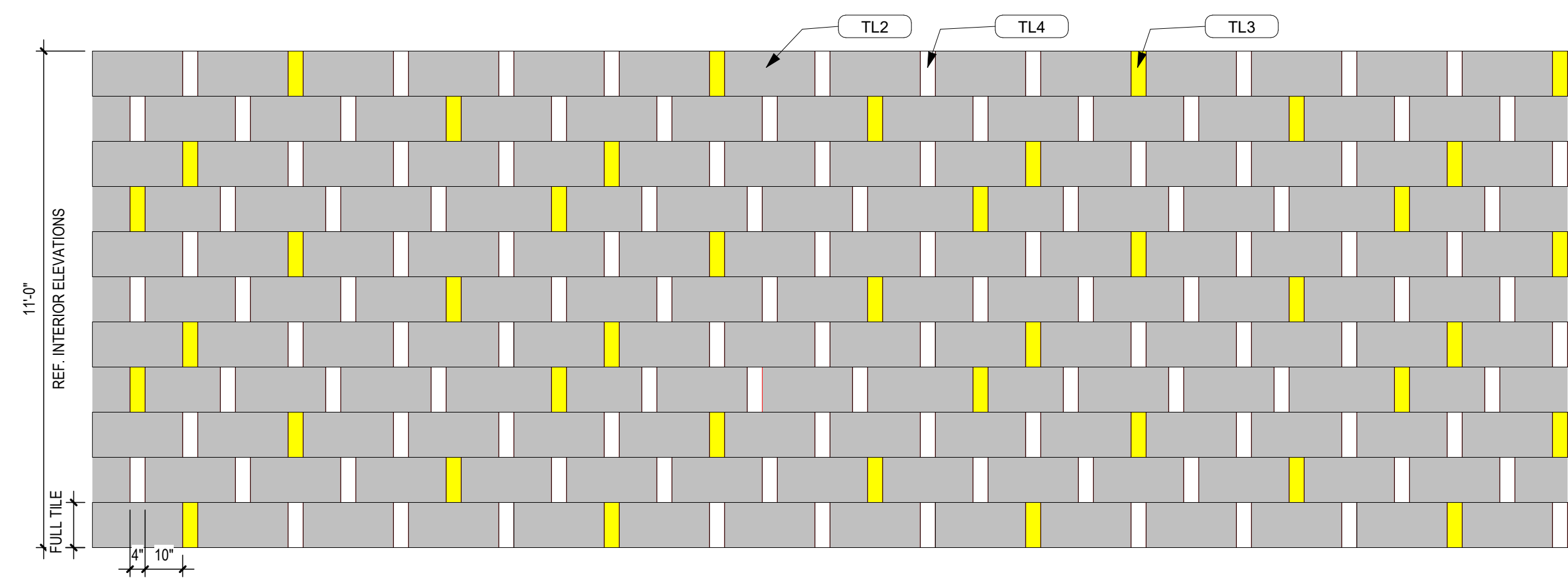
2 CARPET TO RESILIENT FLOOR TRANSITION @ CURVE
SCALE: 6" = 1'-0"



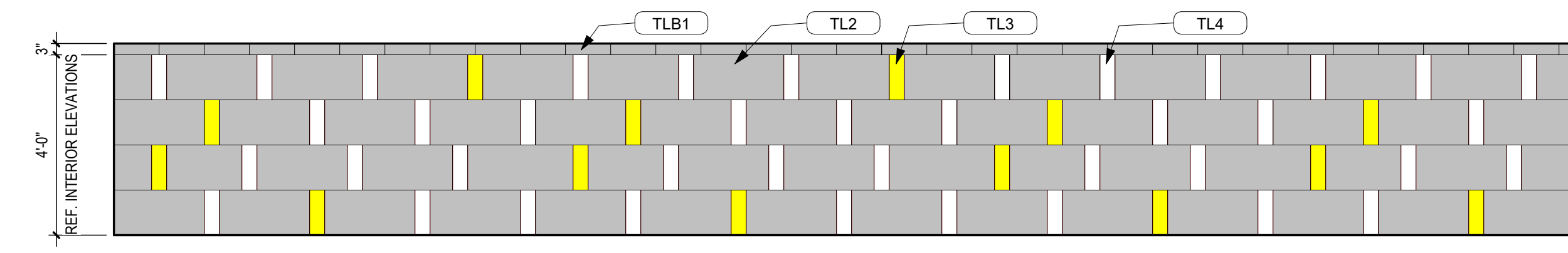
1 SIGNAGE ELEVATIONS
SCALE: 3" = 1'-0"

MARK	MATERIAL	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NO.	Size	NOTES
03 - CONCRETE					
03 30 00 - CAST-IN-PLACE CONCRETE					
SC1	SEALED CONCRETE		SEALED CONCRETE		
06 - WOODS, PLASTICS, AND COMPOSITES					
06 40 23 - PLASTIC LAMINATES					
PL1	PLASTIC LAMINATE	FORMICA	NEUTRAL WEFT 5875-58 (MATTE FINISH)		COUNTERTOPS AND BACKSPLASHES, UNO
PL2	PLASTIC LAMINATE	FORMICA	MILLENNIUM OAK 5887-43 (ARTISAN FINISH)		BASE AND UPPER CABINETS, UNO
PL3	PLASTIC LAMINATE	FORMICA	MILLENNIUM OAK 5887-58 (MATTE FINISH)		SERVING LINE
06 61 16 - SOLID SURFACING FABRICATIONS					
SSM1	SOLID SURFACE	FORMICA	LUNA SAND 757	1/2" THICKNESS	
06 83 16 - FIBERGLASS REINFORCED PANELING					
FRP1	FIBERGLASS REINFORCED PANELS	MARLITE	STANDARD FRP, P100 WHITE, PEBBLED SURFACE		INSTALLED TO 48" AFF WITH EPOXY PAINT ABOVE, UNO
08 - OPENINGS					
08 14 16 - FLUSH WOOD DOORS					
WD	WOOD DOORS	VT INDUSTRIES	RED OAK (PLAIN SLICED) ARCHITECT TO SELECT STAIN FROM MANUFACTURER'S FULL RANGE		
09 - FINISHES					
09 30 00 - TILING					
TL1	TILING	DALTILE	VOLUME 1.0 COLOR TBD BY ARCHITECT IN CA	12" X 12"	FIELD FLOORING
TL2	TILING	DALTILE	VOLUME 1.0 COLOR TBD BY ARCHITECT IN CA	12" X 24"	FIELD WALLS
TL3	TILING	DALTILE	COLOR WHEEL LINEAR - MUSTARD 1012 - GLOSSY	4" X 12"	
TL4	TILING	DALTILE	COLOR WHEEL LINEAR - BISCUIT K175 - GLOSSY	4" X 12"	
TLB1	TILING	DALTILE	VOLUME 1.0 BULLNOSE COLOR TBD BY ARCHITECT IN CA	3" X 12"	
09 31 - ACOUSTICAL PANEL CEILINGS					
APC1	ACOUSTICAL PANEL CEILING	ARMSTRONG	CALLA, REGULAR, WHITE TILES WHITE GRID	24" X 24"	TYPICAL PUBLIC AREA, MINIMUM NRC .80
APC2	ACOUSTICAL PANEL CEILING	ARMSTRONG	ULTIMA HEALTH ZONE, REGULAR, WHITE TILES WHITE GRID	24" X 24"	KITCHEN LOCATIONS
APC3	ACOUSTICAL PANEL CEILING	ARMSTRONG	FINE FISSURED SCHOOL ZONE, REGULAR, WHITE TILES WHITE GRID	24" X 24"	INCLUDING BUT NOT LIMITED TO CLASSROOMS AND OFFICES, MINIMUM NRC .70
09 64 66 - WOOD ATHLETIC FLOORING					
WAF1	WOOD ATHLETIC FLOORING	CONNOR SPORTS FLOOR	WOOD ATHLETIC FLOATING FLOOR SYSTEM, DURACUSHION III, MAPLE, CLEAR URATHANE FINISH		
09 65 00 - RESILIENT FLOORING					
LVT1	LUXURY VINYL TILE	TARKETT	EVENT ABSTRACT - PEME MELANGE - 11188 PIETRO	18" X 18" X 2.5 MM THICKNESS	WHITE
LVT2	LUXURY VINYL TILE	TARKETT	EVENT ABSTRACT - PEME MELANGE - 11189 ONYX	18" X 18" X 2.5 MM THICKNESS	GREY
LVT3	LUXURY VINYL TILE	TARKETT	EVENT ABSTRACT - PEME MELANGE - 11189 ONYX	18" X 18" X 2.5 MM THICKNESS	GREY, PROVIDE ACOUSTICAL BACKING
LVT4	LUXURY VINYL TILE	TARKETT	EVENT ABSTRACT - PEME MELANGE - 11189 ONYX	18" X 18" X 2.5 MM THICKNESS	YELLOW
LVT5	LUXURY VINYL TILE	TARKETT	EVENT ABSTRACT - PEME MELANGE - 11189 ONYX	18" X 18" X 2.5 MM THICKNESS	WOOD
RB1	RUBBER WALL BASE	JOHNSONITE	ID LATITUDE WOOD - COLOR TBD	6" X 48" X 2.5 MM THICKNESS	
RB2	RUBBER WALL BASE	FLEXCO	BLACK 48	4" COVE BASE	
RB3	RUBBER WALL BASE	FLEXCO	UMBER 078	4" TOELESS BASE	
RB4	RUBBER WALL BASE	FLEXCO	BLACK DAHLIA 01	4" VENTED BASE	
09 66 66 - RESILIENT ATHLETIC FLOORING					
RAF1	RESILIENT ATHLETIC FLOORING	ALLSTATE	RENEW RUBBER, COLOR EARL GREY (R2)		
RAF2	RESILIENT ATHLETIC FLOORING	GERFLOOR	TARAFLEX SPORT M PLUS WITH BLEACHERBLOCK BENEATH BLEACHERS, COLOR 6381 MAPLE	7.5 MM THICK 4.92 X 86.5'	WOOD LOOK - MIDDLE SCHOOL GYM
09 67 23 - RESINOUS FLOORING					
RSB1	EPOXY BASE	DUR-A-FLEX			TO MATCH RSF1
RSF1	EPOXY FLOORING	DUR-A-FLEX			HYBRI-FLEX EC, SHALE
09 68 13 - TILE CARPETING					
CPT1	CARPET TILE	TARKETT	FLAME EDIT 11612 BALLAST 22412	24" X 24"	
CPT2	CARPET TILE	TARKETT	FLAME EDIT 11612 COMMON GROUND 22404	24" X 24"	
CPT3	CARPET TILE	TARKETT	CREATE BALANCE, CUSTOM COLOR 114812942-190	18" X 36"	TO MATCH CP1, ARCHITECT APPROVED SAMPLE MUST BE USED
CPT4	CARPET ENTRYWAY SYSTEM	TARKETT	ASSERTIVE ACTION 04837 CHROMIUM 26201	24" X 24"	
09 68 16 - SHEET CARPETING					
CP1	SHEET CARPET	TARKETT	CREATE BALANCE WITH POWERBOND CUSTOM, CUSTOM COLOR 114812942-190	72" ROLL WIDTH	TO MATCH CPT3, ARCHITECT APPROVED SAMPLE MUST BE USED
09 84 00 - ACOUSTICAL ROOM COMPONENTS					
AWP1	ACOUSTICAL WALL PANEL	CARDINAL ACOUSTICS	DIRECT ATTACH ACOUSTICAL WALL PANELS, PAINTED TO MATCH P1	1" THICK, REF. INT. ELEVATIONS	
AWP2	ACOUSTICAL WALL PANEL	CARDINAL ACOUSTICS	DIRECT ATTACH ACOUSTICAL WALL PANELS, PAINTED TO MATCH P5	1" THICK, REF. INT. ELEVATIONS	
AWP3	ACOUSTICAL WALL PANEL	CARDINAL ACOUSTICS	DIRECT ATTACH ACOUSTICAL WALL PANELS, PAINTED TO MATCH P6	1" THICK, REF. INT. ELEVATIONS	
AWP4	ACOUSTICAL WALL PANEL	CARDINAL ACOUSTICS	DIRECT ATTACH ACOUSTICAL WALL PANELS, PAINTED TO MATCH P7	1" THICK, REF. INT. ELEVATIONS	
AWP5	ACOUSTICAL WALL PANEL	CARDINAL ACOUSTICS	DIRECT ATTACH ACOUSTICAL WALL PANELS, PAINTED TO MATCH P3	1" THICK, REF. RCP	
FWP1	ACOUSTICAL FABRIC WRAPPED PANEL	DECOUSTICS	FABRIC WRAPPED PANELS, FABRIC: MAHARAM MESSENGER 046 ICE, SQUARE EDGES, BUTT JOINT SEAM	1" THICK, REF. INT. ELEVATIONS	LIGHT GRAY
FWP2	ACOUSTICAL FABRIC WRAPPED PANEL	DECOUSTICS	FABRIC WRAPPED PANELS, FABRIC: MAHARAM MESSENGER 031 CLOUD, SQUARE EDGES, BUTT JOINT SEAM	1" THICK, REF. INT. ELEVATIONS	DARK GRAY
FWP3	ACOUSTICAL FABRIC WRAPPED PANEL	DECOUSTICS	FABRIC WRAPPED PANELS, FABRIC: MAHARAM MESSENGER 072 MAIZE, SQUARE EDGES, BUTT JOINT SEAM	1" THICK, REF. INT. ELEVATIONS	YELLOW
09 90 00 - PAINTING AND COATING					
ES1	INTERIOR PAINT		EXPOSED STRUCTURE		PAINTED TO MATCH P1
ES2	INTERIOR PAINT		EXPOSED STRUCTURE		PAINTED TO MATCH P3
ES3	INTERIOR PAINT		EXPOSED STRUCTURE		UNPAINTED
P1	INTERIOR PAINT	SHERWIN WILLIAMS	HERON PLUME SW 6070		FIELD PAINT, UNO
P2	INTERIOR PAINT	SHERWIN WILLIAMS	DOVE TAIL SW 7010		LIGHT GREY
P3	INTERIOR PAINT	SHERWIN WILLIAMS	GAUNTLET GREY SW 7019		GREY, DOOR FRAMES
P4	INTERIOR PAINT	SHERWIN WILLIAMS	BLACK FOX SW 7020		DARK GREY
P5	INTERIOR PAINT	SHERWIN WILLIAMS	GOLDEN PLUMERIA SW 9019		LIGHT YELLOW
P6	INTERIOR PAINT	SHERWIN WILLIAMS	CHEERFUL SW 6903		YELLOW
P7	INTERIOR PAINT	SHERWIN WILLIAMS	GOLD FINCH SW 6905		DARK YELLOW
WD1	WOOD STAIN	SHERWIN WILLIAMS	RED OAK, STAINED TO MATCH WOOD DOORS (WD) ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE		

MARK	MATERIAL	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NO.	Size	NOTES
10 - SPECIALTIES					
10 14 00 - SIGNAGE					
WC1	WALLCOVERING	AVERY DENNISON	MPI 1405 WITH DOL 6460		REF. INTERIOR ELEVATIONS FOR SMOOTH SURFACES AND GYP. BD. WALLS. ARCHITECT TO PROVIDE ARTWORK
WC2	WALLCOVERING	AVERY DENNISON	MPI 1105 WITH DOL 1300Z		REF. INTERIOR ELEVATIONS FOR BLOCK WALLS. ARCHITECT TO PROVIDE ARTWORK
10 21 13 - PLASTIC TOILET COMPARTMENTS					
TP1	SOLID PLASTIC TOILET PARTITIONS	ASI GLOBAL PARTITIONS	9205 BLACK		
10 26 23 14 - WALL PROTECTION					
CG1	CORNER GUARD	INPRO	STAINLESS STEEL		2"X2"X1/8" ALIGN WITH TOP OF ADJACENT DOORS WHERE APPLICABLE TO BE INSTALLED AT ALL OUTSIDE GYP. BD. CORNERS IN PUBLIC SPACES U.N.G. REFER TO FINISH PLANS AND INTERIOR PLAN DETAILS FOR MORE INFORMATION
10 51 13 - METAL LOCKERS					
LCK1	METAL LOCKERS	PENCO	GUARDIAN, 2-TIER, W/ FRONT BASE, CLASSIC II RECESSED HANDLE FOR MULTIPoint LATCHING, SLOPED TOP, COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE	15" W X 15" D X 72" H	
11 - EQUIPMENT					
11 66 23 53 - WALL PADDING					
WP1	WALL PADDING	DRAPER	ECOVISION WALL PAD, COLOR BLACK	2' X 6'	1" FABRIC WRAPPED MOUNTING FLANGES AT PANEL TOP AND BOTTOM
12 - FURNISHINGS					
12 24 13 - ROLLER SHADES					
WT1	WINDOW TREATMENT	MERMET	ARCHITECT TO SELECT FROM MANUFACTURERS FULL LINE		SHADES TO EXTEND FULL LENGTH OF EXPOSED GLASS. MANUAL SHADES TO BE PROVIDED AT ALL OFFICE AND CLASSROOM EXTERIOR WINDOWS, REF. INTERIOR FINISH PLANS FOR ADDITIONAL LOCATIONS.
WT2	WINDOW TREATMENT	MERMET	ARCHITECT TO SELECT FROM MANUFACTURERS FULL LINE		SHADES TO EXTEND FULL LENGTH OF EXPOSED GLASS. MANUAL SHADES TO BE PROVIDED AT ALL INTERIOR CLASSROOM AND OFFICE GLAZING UNITS GREATER THAN 4'-0" WIDE, REF. INTERIOR FINISH PLANS FOR ADDITIONAL LOCATIONS
12 44 16 - SHOWER CURTAINS					
CT1	VINYL SHOWER CURTAIN	BOBRICK	WHITE OPAQUE VINYL 204-3	70" W X 72" H	
CT2	VINYL SHOWER CURTAIN	BOBRICK	WHITE OPAQUE VINYL 204-2	42" W X 72" H	



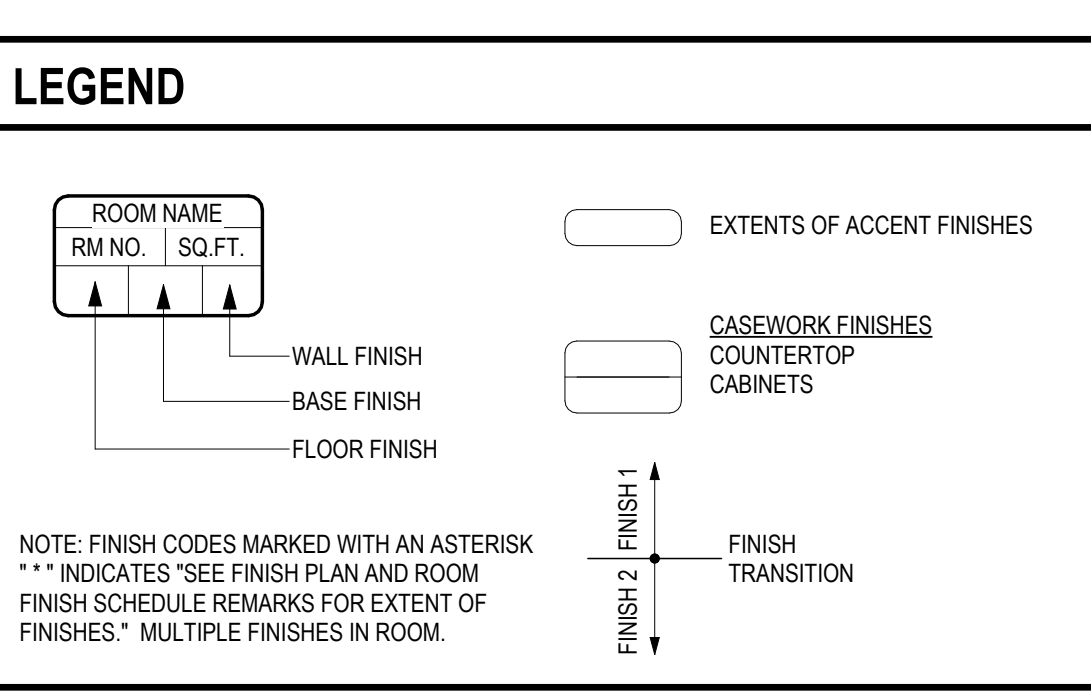
2 TYPICAL FULL HEIGHT WALL TILE PATTERN
SCALE: 3/8" = 1'-0"



1 TYPICAL WALL TILE PATTERN WITH BULLNOSE TOP
SCALE: 3/8" = 1'-0"

FINISH SCHEDULE ABBREVIATIONS	
FLOOR FINISH CODE ABBREVIATIONS	WALL FINISH CODE ABBREVIATIONS
CPT CARPET TILE	AWP ACOUSTICAL WALL PANELS
CP SHEET CARPET	FWP ACOUSTICAL FABRIC WRAPPED PANELS
LVT LUXURY VINYL TILE	FRP FIBERGLASS REINFORCED PANELS
RAF RUBBER ATHLETIC FLOORING	P PAINT
RSF RESINOUS FLOORING	SS STAINLESS STEEL
SC SEALED CONCRETE	TL TILE
TL TILE	WC WALLCOVERING
WAF HARDWOOD ATHLETIC FLOORING	WD WOOD
MISC. FINISH CODE ABBREVIATIONS	BASE FINISH CODE ABBREVIATIONS
APC ACOUSTICAL PANEL CEILING	TLB TILE BASE
ES EXPOSED STRUCTURE	RB RESILIENT BASE
GWB GYPSUM WALL BOARD	RSB RESINOUS BASE
PL PLASTIC LAMINATE	

FINISH FLOOR PATTERN PLAN LEGEND	
CPT1 CARPET TILE	LVT1 LUXURY VINYL TILE
CPT2 CARPET TILE	LVT2 LUXURY VINYL TILE
CPT3/CP1 CARPET TILE OR SHEET	LVT3 LUXURY VINYL TILE
CPT4 CARPET ENTRYWAY SYSTEM	LVT4 LUXURY VINYL TILE
RSF1 RESINOUS FLOORING	RAF1 RUBBER ATHLETIC FLOORING
SC1 SEALED CONCRETE	RAF2 RUBBER ATHLETIC FLOORING
TL1 TILE	WAF WOOD ATHLETIC FLOORING



- GENERAL FINISH NOTES**
- REFER TO THE FINISH LEGEND SCHEDULE FOR ADDITIONAL INFORMATION.
 - FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS NOTED OTHERWISE.
 - ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED P3 UNLESS NOTED OTHERWISE.
 - MISC. EXPOSED HARDWARE, INCLUDING BUT NOT LIMITED TO GRILLES, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
 - EXPOSED COLUMNS TO BE PAINTED P1 UNLESS NOTED OTHERWISE.
 - REFER TO ELEVATIONS FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS, MARKER BOARDS AND TACK WALLS.

- SIGNAGE NOTES**
- ROOM SIGNAGE TO BE LOCATED ON THE WALL ADJACENT TO THE STRIKE SIDE OF THE DOOR.
 - MOUNTING LOCATION AND HEIGHT SHOWN IS TYPICAL AND TO THE CENTERLINE OF THE SIGN.
 - VERIFY NON-TYPICAL SIGN LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
 - AT DOORS WITH SIDELIGHTS ON THE STRIKE SIDE OF JAMB, USE DOUBLE SIDED TAPE ONLY. PROVIDE A BLANK SOLID SIGN OF SAME COLOR AND SIZE ON OPPOSITE SIDE.
 - COORDINATE ROOM NAME, NUMBER AND DOOR INVENTORY NUMBER WITH USER.
 - PROVIDE SIGNAGE AT ALL INTERIOR DOOR LOCATION. ROOMS WITH MORE THAN ONE ACCESS POINT SHALL REQUIRE SIGNAGE AT EACH LOCATION.

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ARCHITECTS

ARCHITECTURAL PROFESSIONAL SEAL
STATE OF NORTH CAROLINA
CERT. NO. 50676
DATE 06/12/24

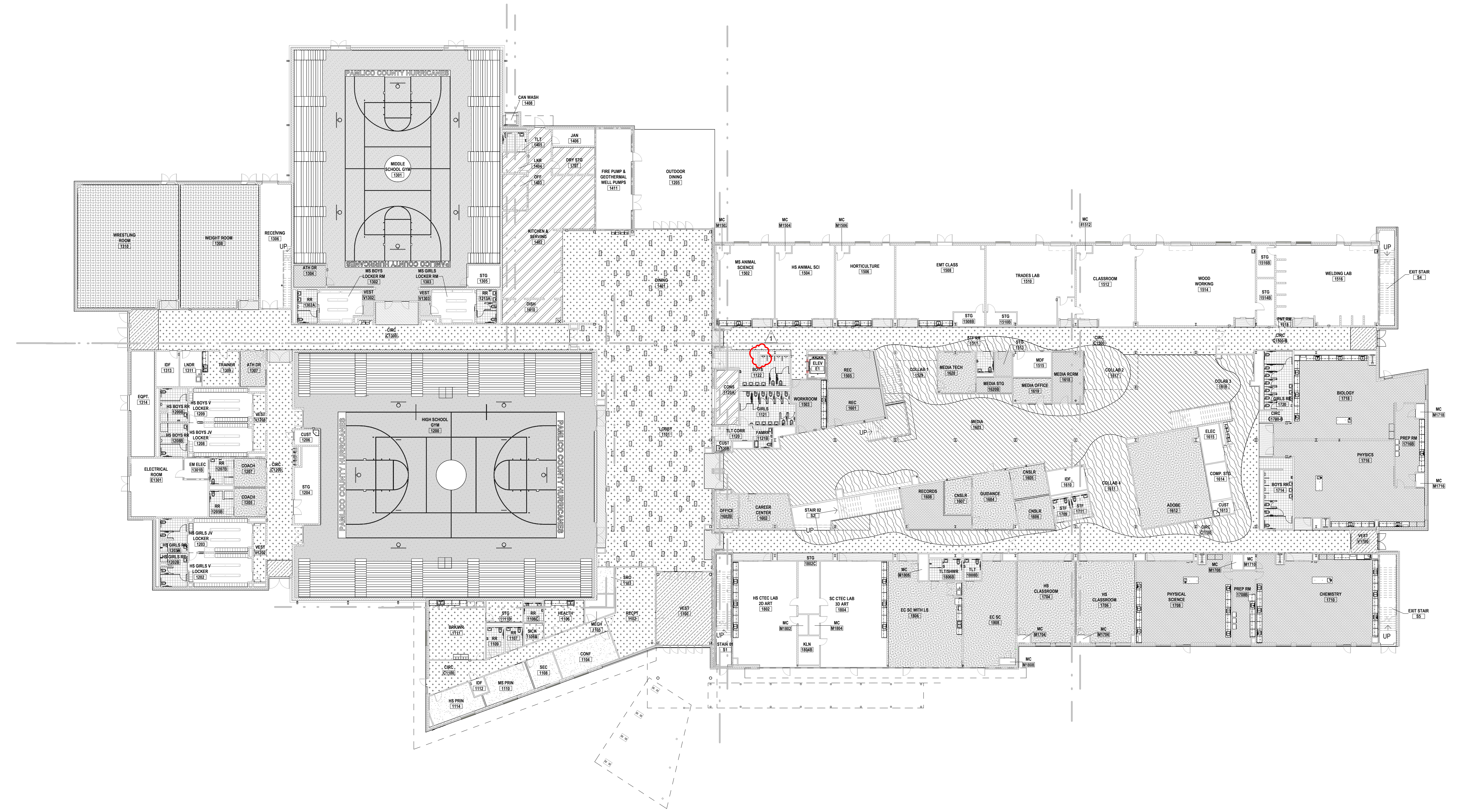
CONSTRUCTION DOCUMENTS

PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515

No.	Date	Description
1	07/10/2024	Bid Addendum 2
ISSUE DATE: 06/12/24		

PROJECT #: 2205
DRAWN BY: RH
CHECKED BY: RH

FINISH SCHEDULE
A-701



1 OVERALL FIRST FLOOR PLAN
SCALE: 1" = 20'-0"

**PAMLICO COUNTY
PAMLICO 6-12 SCHOOL**
601 Main Street, Bayboro, NC, 28515



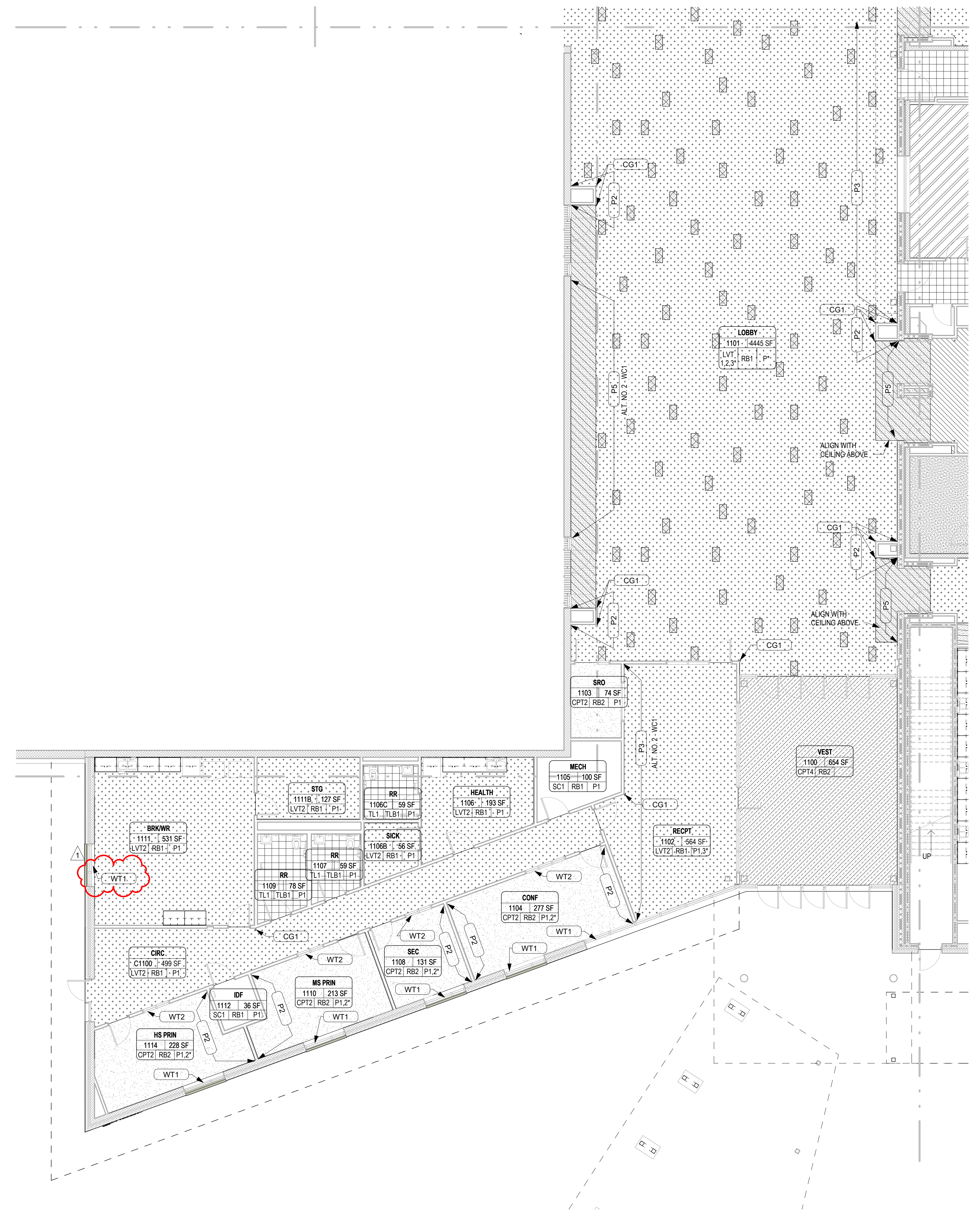
1 07/10/2024 Bid Addendum 2
No. Date Description
ISSUE DATE: 06/12/24
PROJECT #: 2205
DRAWN BY: RH
CHECKED BY: RH

**OVERALL FINISH
PLAN - FIRST FLOOR**

A-702.1

FINISH FLOOR PATTERN PLAN LEGEND			
	CPT1	CARPET TILE	
	CPT2	CARPET TILE	
	CPT3/CP1	CARPET TILE OR SHEET	
	CPT4	CARPET ENTRYWAY SYSTEM	
	RBF1	RESINOUS FLOORING	
	SC1	SEALED CONCRETE	
	TL1	TILE	
	LVT1	LUXURY VINYL TILE	
	LVT2	LUXURY VINYL TILE	
	LVT3	LUXURY VINYL TILE	
	LVT4	LUXURY VINYL TILE	
	RAF1	RUBBER ATHLETIC FLOORING	
	RAF2	RUBBER ATHLETIC FLOORING	
	WAF	WOOD ATHLETIC FLOORING	
	ROOM NAME RM NO. SQ. FT.		EXTENS OF ACCENT FINISHES
	WALL FINISH		CASEWORK FINISHES COUNTERTOP CABINETS
	BASE FINISH		
	FLOOR FINISH		
	FINISH 1		FINISH TRANSITION
	FINISH 2		

NOTE: FINISH CODES MARKED WITH AN ASTERISK
*** INDICATES "SEE FINISH PLAN AND ROOM
FINISH SCHEDULE REMARKS FOR EXTENT OF
FINISHES." MULTIPLE FINISHES IN ROOM.

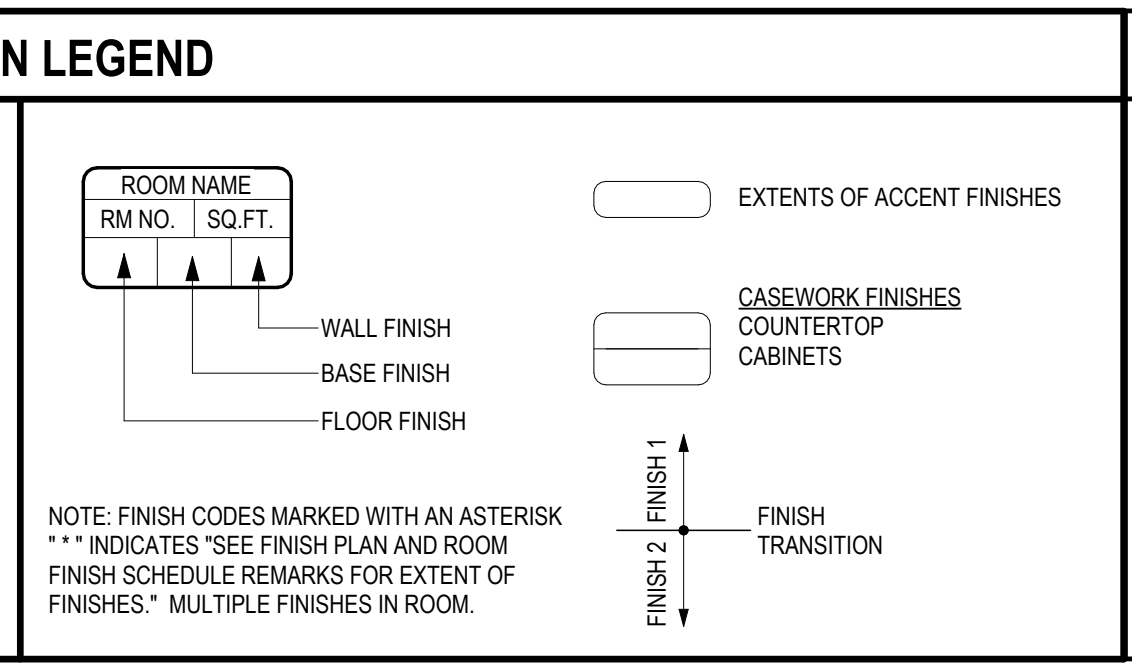


1 FIRST FLOOR FINISH PLAN - AREA A
A-711A SCALE: 1/8" = 1'-0"

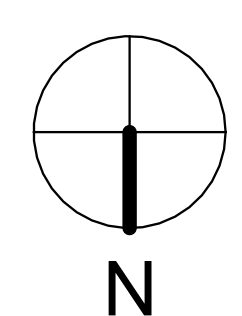
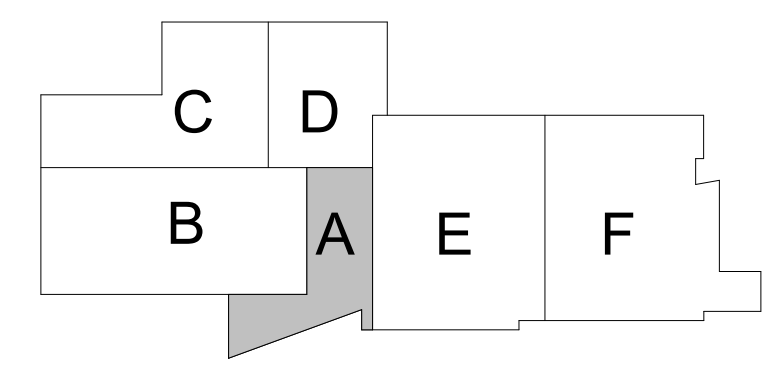
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FINISH SCHEDULE ABBREVIATIONS	
FLOOR FINISH CODE ABBREVIATIONS	WALL FINISH CODE ABBREVIATIONS
CPT CARPET TILE	AWP ACOUSTICAL WALL PANELS
CP SHEET CARPET	FWP ACOUSTICAL FABRIC WRAPPED PANELS
LVT LUXURY VINYL TILE	FRP FIBERGLASS REINFORCED PANELS
RAF RUBBER ATHLETIC FLOORING	P PAINT
RSF RESINOUS FLOORING	SS STAINLESS STEEL
SC SEALED CONCRETE	TL TILE
TL TILE	WC WALLCOVERING
WAF HARDWOOD ATHLETIC FLOORING	WD WOOD
MISC. FINISH CODE ABBREVIATIONS	BASE FINISH CODE ABBREVIATIONS
APC ACOUSTICAL PANEL CEILING	TLB TILE BASE
ES EXPOSED STRUCTURE	RB RESILIENT BASE
GWB GYPSUM WALL BOARD	RSB RESINOUS BASE
PL PLASTIC LAMINATE	

FINISH FLOOR PATTERN PLAN LEGEND	
	CPT1 CARPET TILE
	CPT2 CARPET TILE
	CPT3/CP1 CARPET TILE OR SHEET
	CPT4 CARPET ENTRYWAY SYSTEM
	RSF1 RESINOUS FLOORING
	SC1 SEALED CONCRETE
	TL1 TILE
	LVT1 LUXURY VINYL TILE
	LVT2 LUXURY VINYL TILE
	LVT3 LUXURY VINYL TILE
	LVT4 LUXURY VINYL TILE
	RAF1 RUBBER ATHLETIC FLOORING
	RAF2 RUBBER ATHLETIC FLOORING
	WAF WOOD ATHLETIC FLOORING



- REFER TO THE FINISH LEGEND SCHEDULE FOR ADDITIONAL INFORMATION.
- FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS NOTED OTHERWISE.
- ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED P3 UNLESS NOTED OTHERWISE.
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- EXPOSED COLUMNS TO BE PAINTED P1 UNLESS NOTED OTHERWISE.
- REFER TO ELEVATIONS FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS, MARKER BOARDS AND TACK WALLS.



PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



1	07/10/2024	Bid Addendum 2
No.	Date	Description
ISSUE DATE: 06/12/24		
PROJECT #:	2205	
DRAWN BY:	RH	
CHECKED BY:	RH	

FIRST FLOOR FINISH
PLAN - AREA A

A-711A



1 FIRST FLOOR FINISH PLAN - AREA E
A-715E SCALE: 1/8" = 1'-0"

FINISH SCHEDULE ABBREVIATIONS

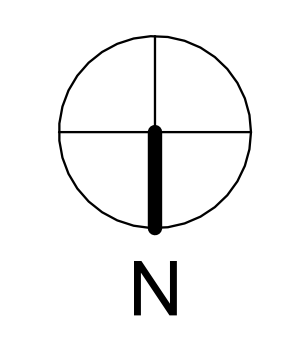
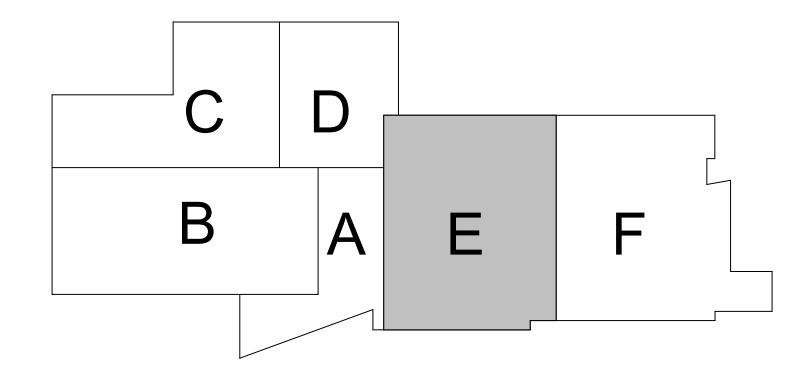
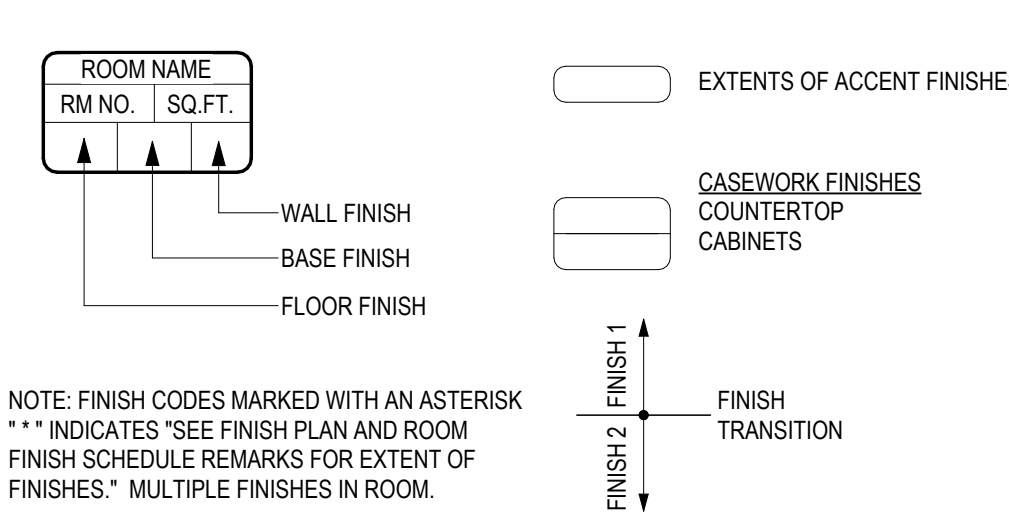
FLOOR FINISH CODE ABBREVIATIONS	WALL FINISH CODE ABBREVIATIONS
CPT CARPET TILE	AWP ACOUSTICAL WALL PANELS
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LVT LUXURY VINYL TILE	FRP FIBERGLASS REINFORCED PANELS
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RSF RESINOUS FLOORING	SS STAINLESS STEEL
SC SEALED CONCRETE	TL TILE
TL TILE	WC WALLCOVERING
WAF HARDWOOD ATHLETIC FLOORING	WD WOOD
MISC. FINISH CODE ABBREVIATIONS	BASE FINISH CODE ABBREVIATIONS
APC ACOUSTICAL PANEL CEILING	TLB TILE BASE
ES EXPOSED STRUCTURE	RB RESILIENT BASE
GWB GYPSUM WALL BOARD	RSB RESINOUS BASE
PL PLASTIC LAMINATE	

FINISH FLOOR PATTERN PLAN LEGEND

CPT1 CARPET TILE	LVT1 LUXURY VINYL TILE
CPT2 CARPET TILE	LVT2 LUXURY VINYL TILE
CPT3CPT1 CARPET TILE OR SHEET	LVT3 LUXURY VINYL TILE
CPT4 CARPET ENTRYWAY SYSTEM	LVT4 LUXURY VINYL TILE
RSF1 RESINOUS FLOORING	RAF1 RUBBER ATHLETIC FLOORING
SC1 SEALED CONCRETE	RAF2 RUBBER ATHLETIC FLOORING
TL1 TILE	WAF WOOD ATHLETIC FLOORING

GENERAL FINISH NOTES

- REFER TO THE FINISH LEGEND SCHEDULE FOR ADDITIONAL INFORMATION.
- FLOORING TRANSITIONS OCCUR AT THE CENTER OF THE UNDERSIDE OF THE DOOR UNLESS NOTED OTHERWISE.
- ALL HOLLOW METAL DOOR FRAMES AND WINDOWS TO BE PAINTED P3 UNLESS NOTED OTHERWISE.
- MISC. EXPOSED HARDWARE, INCLUDING BUT NOT LIMITED TO GRILLES, GRATES OR TRIM ACCESSORIES, TO BE PAINTED TO MATCH ADJACENT WALL FINISH.
- EXPOSED COLUMNS TO BE PAINTED P1 UNLESS NOTED OTHERWISE.
- REFER TO ELEVATIONS FOR DETAILS AND TRANSITIONS OF WALL TILE, ACOUSTICAL WALL PANELS, MARKER BOARDS AND TACK WALLS.



PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



1	07/10/2024	Bid Addendum 2
No.	Date	Description
ISSUE DATE:	06/12/24	
PROJECT #:	2205	
DRAWN BY:	RH	
CHECKED BY:	RH	

FIRST FLOOR FINISH
PLAN - AREA E

A-715E



1 FIRST FLOOR PLAN-OVERALL FURNITURE
A-720.1 SCALE: 1/16" = 1'-0"

**PAMLICO COUNTY
PAMLICO 6-12 SCHOOL**
601 Main Street, Bayboro, NC, 28515



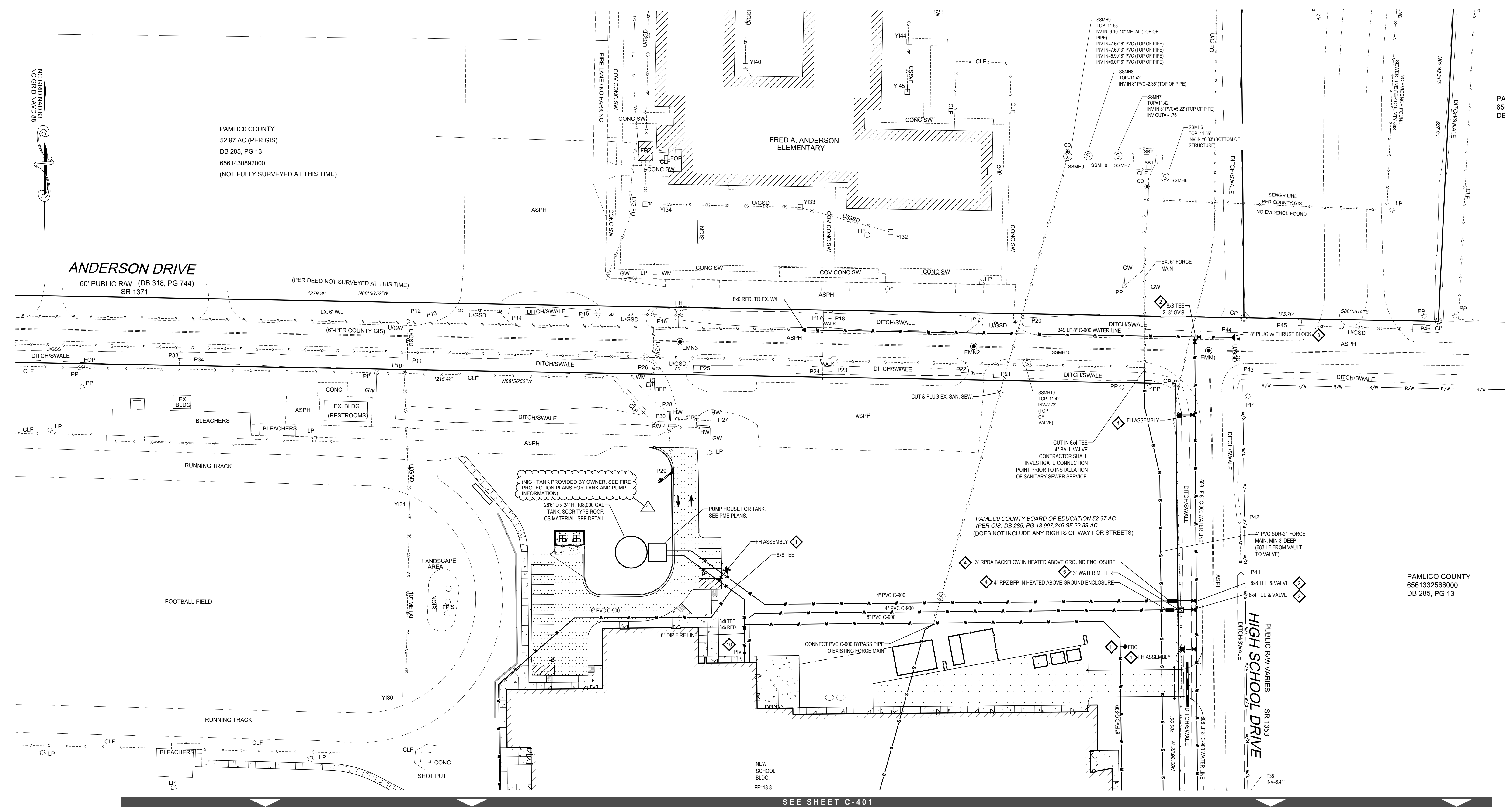
No.	Date	Description
1	07/10/2024	Bid Addendum 2
ISSUE DATE: 06/12/24		
PROJECT #:	2205	
DRAWN BY:	MK	
CHECKED BY:	MK	

OVERALL
FURNITURE PLAN -
FIRST FLOOR

A-720.1

PAMLICO COUNTY BOARD OF EDU
6561331145000
DB 318, PG 741

PAMLICO COUNTY
6561332560000
DB 285, PG 13



PAMLICO COUNTY
52.97 AC (PER GIS)
DB 285, PG 13
6561430892000
(NOT FULLY SURVEYED AT THIS TIME)

ANDERSON DRIVE
60' PUBLIC R/W (DB 318, PG 744)
SR 1371

HIGH SCHOOL DRIVE
PUBLIC R/W VARIES
SR 1353

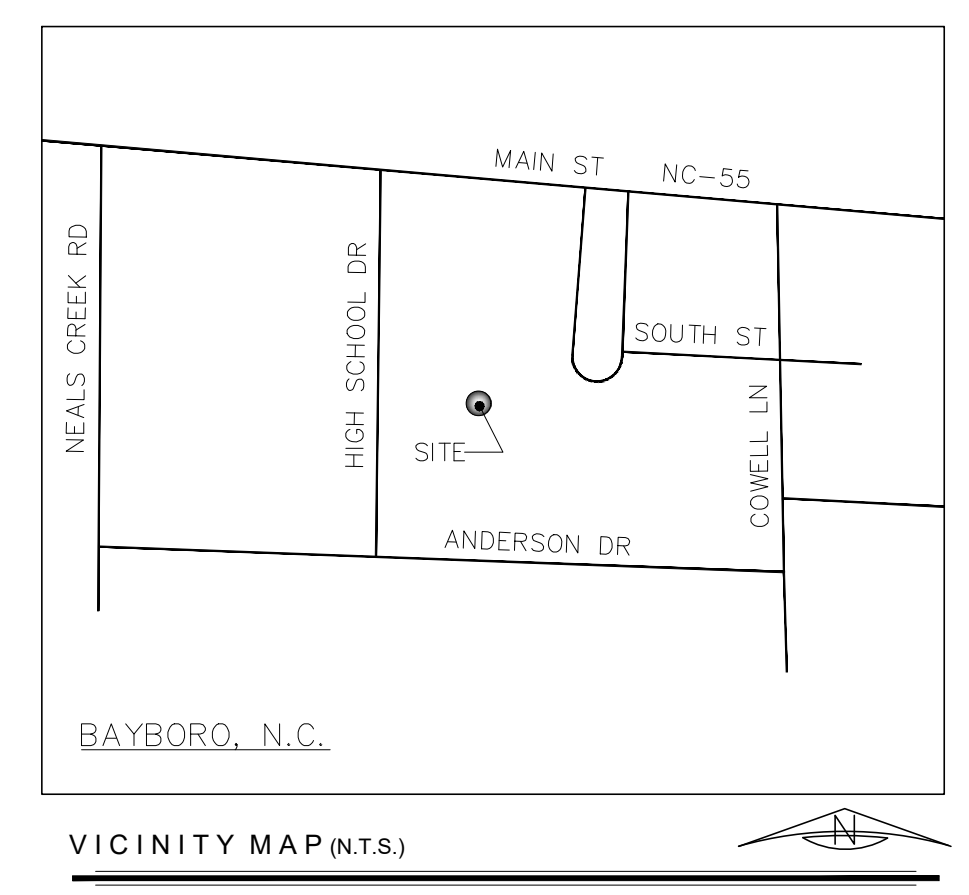
SEE SHEET C-401

- UTILITY NOTES**
- ◆ FIRE HYDRANT ASSEMBLY. SEE SHT. C-505, #7.
 - ◆ GATE VALVE. SEE SHT. C-505, #4 & #5.
 - ◆ PLUG W/ THRUST BLOCK. SEE SHT. C-505, #6.
 - ◆ REPAIR/2 BACKFLOW PREVENTER IN HEATED ABOVE GROUND ENCLOSURE. SEE SHT. C-505, #8.
 - ◆ WATER METER IN VAULT. SEE SHT. C-505, #9.
 - ◆ NOT USED.
 - ◆ SANITARY SEWER LATERAL. SEE SHT. C-504, #1.
 - ◆ SANITARY SEWER MANHOLE. SEE SHT. C-504, #3.
 - ◆ SANITARY SEWER CLEANOUT. SEE SHT. C-504, #5.
 - ◆ POST INDICATOR VALVE (PIV). SEE SHT. C-505, #13.
 - ◆ FIRE DEPT. CONNECTION (FDC). SEE SHT. C-505, #14.

- WATER SERVICE NOTES**
PAMLICO COUNTY WATER DEPARTMENT - (252) 745-5453
1. WATER MAINS AND SERVICE LATERALS SHALL HAVE A MINIMUM COVER OF 42-INCHES OR DIP SHALL BE USED. IF 42-INCHES OF COVER CANNOT BE PROVIDED AND DIP IS NOT SHOWN ON THE PLANS, CONSULT WITH THE ENGINEER (PRIOR TO USE OF DIP).
 2. CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER MAINS & SERVICES w/ PAMLICO COUNTY WATER DEPARTMENT.
 3. INSTALLATION AND TESTING OF ALL WATER MAINS & SERVICES SHALL MEET ALL PAMLICO COUNTY WATER DEPARTMENT & STATE SPECIFICATIONS & REQUIREMENTS.
 4. CONTRACTOR SHALL MAINTAIN A HORIZONTAL CLEARANCE BETWEEN ALL WATER AND SANITARY SEWER MAINS OF AT LEAST 10- FEET. WHEN NECESSARY, AND WITH THE PERMISSION OF THE ENGINEER AND PWC, THE SEPARATION DISTANCE CAN BE REDUCED TO 5- FEET IF THE WATER LINE MAINTAINS A VERTICAL CLEARANCE OF AT LEAST 18-INCHES ABOVE THE SEWER LINE. IF A SEWER LINE MUST BE ROUTED ABOVE A WATER LINE, THEN BOTH MUST BE MADE OF DIP WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS, WITH A SECTION OF WATER MAIN CENTERED UNDERNEATH THE SEWER MAIN.
 5. WATER MAINS CROSSING OVER OR UNDER STORM SEWERS MUST MAINTAIN A VERTICAL SEPARATION OF AT LEAST 12-INCHES. IN ADDITION, IF A WATER MAIN MUST CROSS UNDER A STORM SEWER, IT SHALL BE MADE OF DIP FOR A MINIMUM OF 10 FEET ON BOTH SIDES OF THE CROSSING.
 6. CONTRACTOR SHALL INSTALL MECHANICALLY RESTRAINED JOINTS PER PAMLICO COUNTY WATER DEPARTMENT & STATE REQUIREMENTS.
 7. CONTRACTOR SHALL NOTIFY PAMLICO COUNTY WATER DEPARTMENT AND ENGINEER OF RECORD FOURTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO INSTALL WATER MAINS / SERVICES.
 8. CONTRACTOR SHALL NOT OBSTRUCT MAINTENANCE OR ACCESS TO UTILITIES LOCATED WITHIN EASEMENTS.

- SANITARY SEWER SERVICE NOTES**
BAY RIVER METROPOLITAN SEWER DISTRICT (252) 745-4812
1. SANITARY SEWER SERVICES & MAINS SHALL HAVE A MINIMUM COVER OF 36-INCHES OR AS REQUIRED BY CODE.
 2. CONTRACTOR SHALL COORDINATE INSTALLATION OF SANITARY SEWER MAINS & SERVICES w/ BAY RIVER METROPOLITAN SEWER DISTRICT & STATE SPECIFICATIONS & REQUIREMENTS.
 3. ALL SANITARY SEWER MAINS & SERVICES SHALL BE INSTALLED & AIR-TESTED ACCORDING TO BAY RIVER METROPOLITAN SEWER DISTRICT & STATE SPECIFICATIONS & REQUIREMENTS.
 4. CONTRACTOR SHALL MAINTAIN A HORIZONTAL CLEARANCE BETWEEN ALL WATER & SANITARY SEWER MAINS OF AT LEAST 10- FEET.
 5. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER & SANITARY SEWER LINES SHALL BE 18-INCHES UNLESS DUCTILE IRON IS SPECIFIED. THE MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER & STORM DRAINAGE LINES SHALL BE 24-INCHES UNLESS DUCTILE IRON IS SPECIFIED.
 6. CONTRACTOR SHALL NOTIFY BAY RIVER METROPOLITAN SEWER DISTRICT AND ENGINEER OF RECORD FOURTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO INSTALL SANITARY SEWER MAINS / SERVICES.
 7. CONTRACTOR SHALL NOT OBSTRUCT MAINTENANCE OR ACCESS TO UTILITIES LOCATED WITHIN EASEMENTS.

- ADDITIONAL NOTES**
1. ALL GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND OTHER INFORMATION INDICATED ON TITLE PAGE SHALL APPLY TO THIS PLAN.
 2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR WITH THE SURVEYOR OF RECORD PRIOR TO BEGINNING CONSTRUCTION. BENCHMARK IS AN BRASS DISK SET IN CONC SW IN THE NORTHWEST AREA OF THE SITE WITH COORDINATES N 514442.74 E 2863741.64 AND AN ELEVATION OF 10.85.



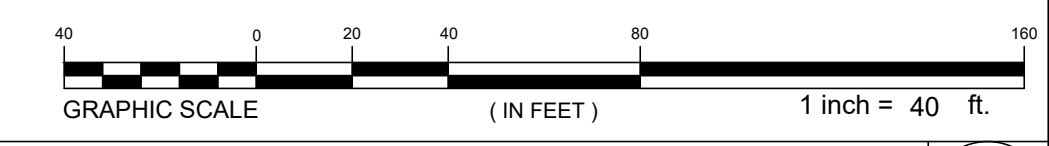
1 **UTILITY PLAN**
C-402 1" = 40'

PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC 28515

ENERGY STAR PARTNER	
1 7/10/24	ADD. 2
ISSUE DATE: 06/12/24	
PROJECT #: 2205	
CAD TECH.: ILB	
CHECKED BY: FDC	
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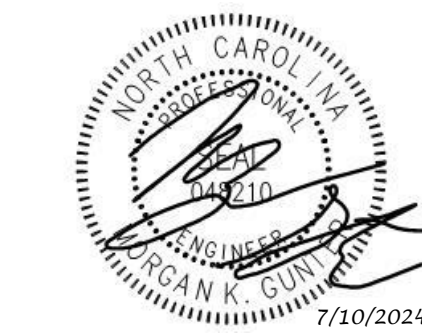
UTILITY PLAN

C-402

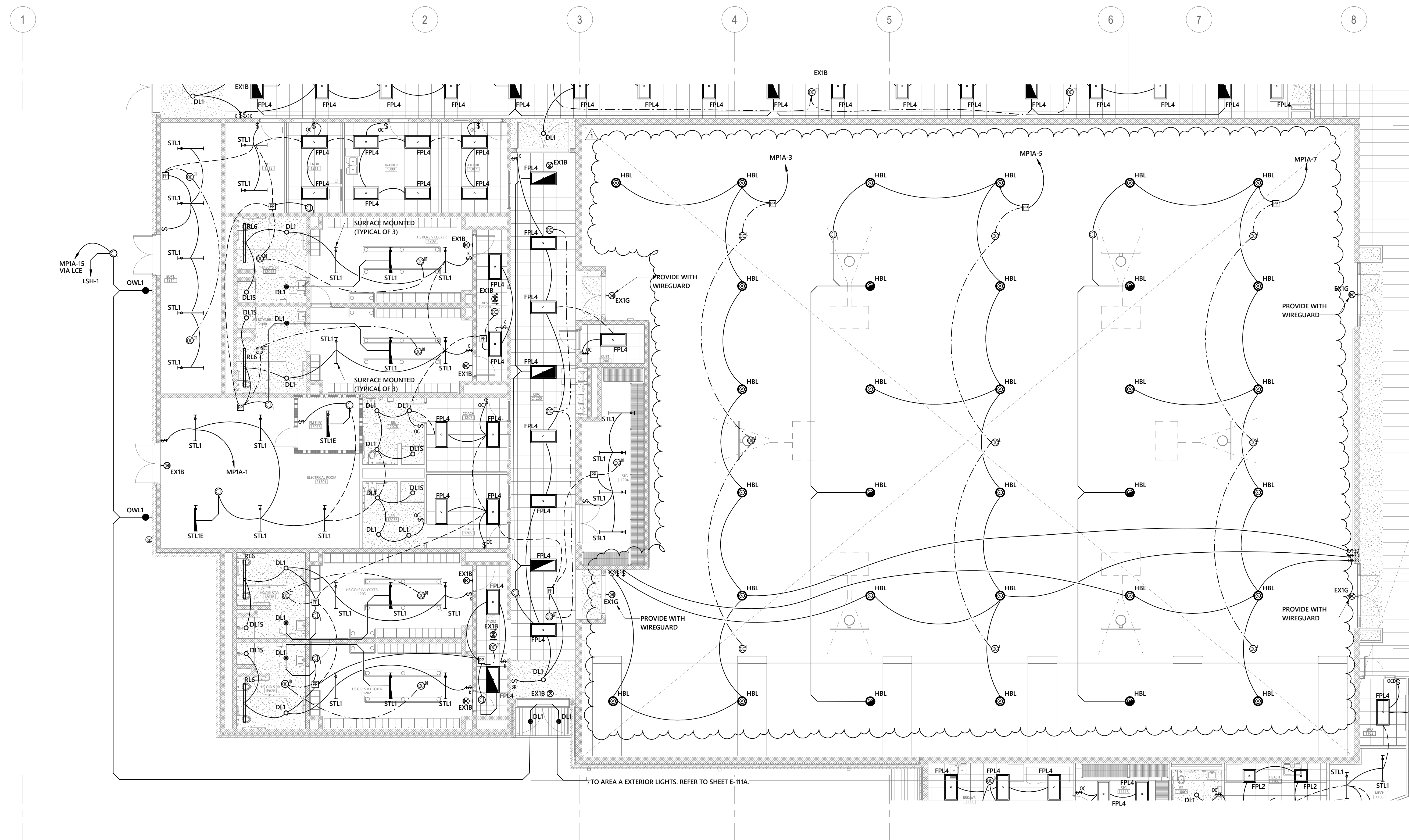


GENERAL NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS, INCLUDING, BUT NOT LIMITED TO, REFLECTED CEILING PLANS AND ELEVATIONS FOR ASSOCIATED NOTES, MOUNTING DETAILS AND EXACT LOCATIONS OF ALL LIGHTING FIXTURES. PROVIDE COMMON FACEPLATE AND REQUIRED METAL INTERIOR BOX BARRIERS FOR ALL MULTIPLE GANG SWITCH LOCATIONS.
- B. COORDINATE THE PLACEMENT OF ALL PENDANT, SURFACE, OR SEMI-FLUSH FIXTURES AND DEVICES WITH THE FIRE PROTECTION CONTRACTOR OR MAINTAIN NFPA13 REQUIRED SEPARATION BETWEEN SPRINKLER HEADS AND OBSTRUCTIONS.
- C. CONNECT ALL NIGHT LIGHTS (NLL), EXIT SIGNS AND THE EMERGENCY INPUT OF ALL GENERATOR TRANSFER DEVICES SHOWN ON THIS SHEET TO EMERGENCY CIRCUIT 'LSH-1', UNLESS OTHERWISE NOTED.
- D. CIRCUIT NUMBERS ARE DIAGRAMATIC. EXACT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON AS-BUILT DOCUMENTATION BY THE ELECTRICAL CONTRACTOR. THE ASSOCIATED CIRCUIT NUMBERS THAT ARE APPLIED TO EACH DEVICE AND PIECE OF EQUIPMENT INFERS INTERCONNECTING BRANCH CIRCUITRY.
- E. REFER TO SHEET E-002 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- F. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- G. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUIT INDICATED ON THIS DRAWING ARE PROHIBITED.
- H. CONNECT VOLTAGE SENSING INPUT OF POWER PACKS TO LOCAL NORMAL LIGHTING CIRCUIT, UNSWITCHED.
- I. ALL HALLWAY CEILING MOUNTED LIGHTING DEVICES AND HALLWAY CEILING MOUNTED LIGHTING FIXTURES ARE TO BE MOUNTED IN THE CENTER OF THE HALLWAY UNLESS OTHERWISE NOTED.
- J. 0-10V DIMMING WIRING IS NOT ANNOTATED ON PLANS. PROVIDE 0-10V DIMMING WIRING AS NEEDED FOR DIMMING ZONES SHOWN ON PLANS.



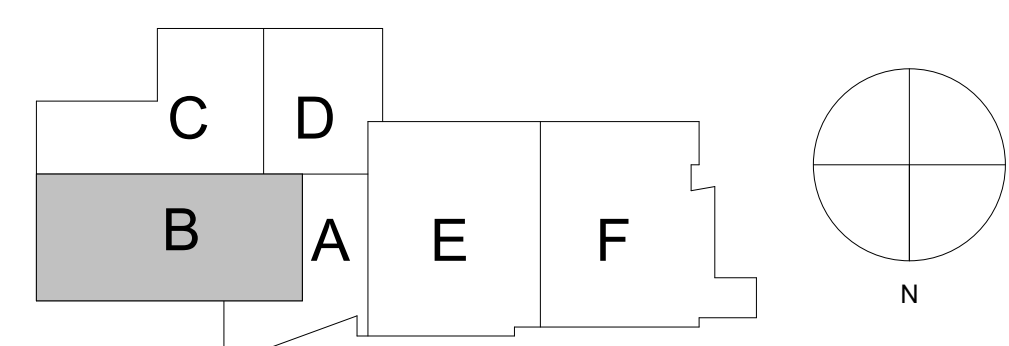
CONSTRUCTION
DOCUMENTS



1 FIRST FLOOR LIGHTING PLAN - AREA B
1/8" = 1'-0"

RATED WALL LEGEND	
SYMBOL	DESCRIPTION
	1 HR FIRE RATED
	2 HR FIRE RATED

KEYPLAN



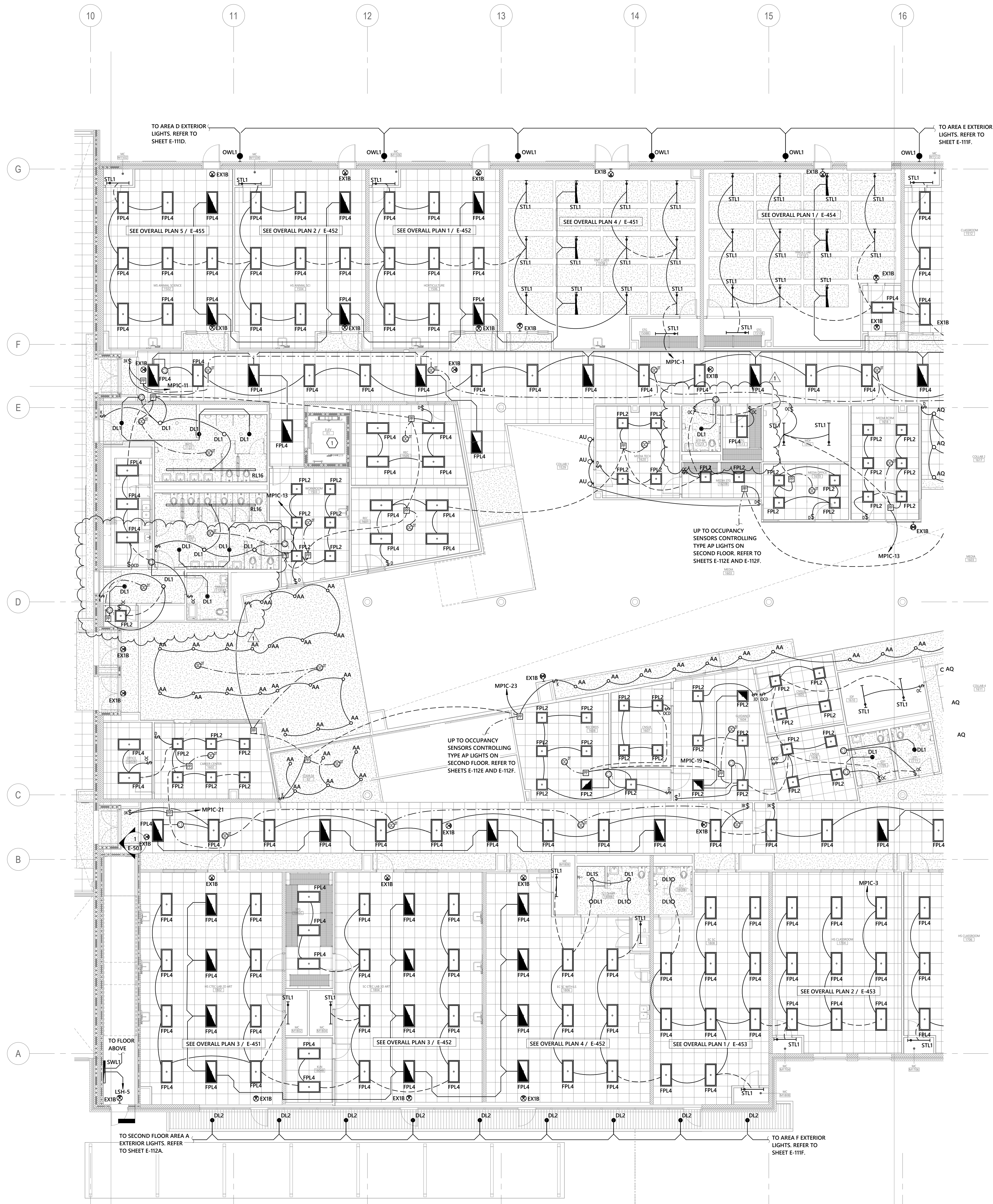
PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



No.	Date	Description
1	7/10/24	Addendum #2
ISSUE DATE: 06/12/24		
PROJECT #:	2205	
DRAWN BY:	JSD	
CHECKED BY:	MKG	

FIRST FLOOR
LIGHTING PLAN -
AREA B

E-111B



1 FIRST FLOOR LIGHTING PLAN - AREA E
1/8" = 1'-0"

GENERAL NOTES

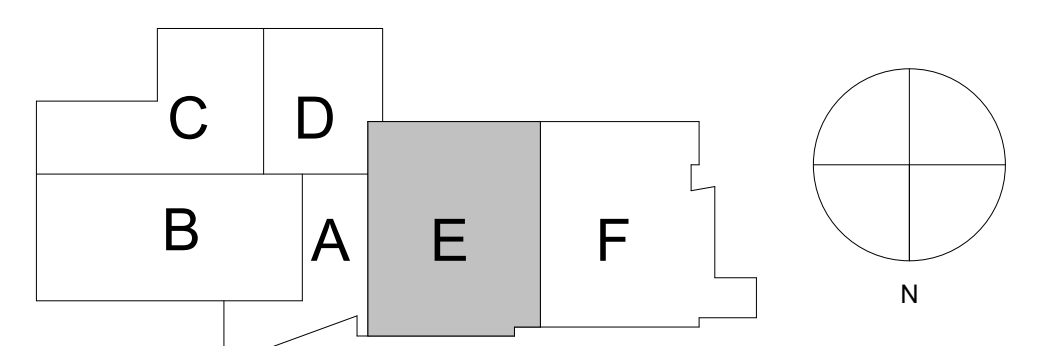
- A. REFER TO ARCHITECTURAL DRAWINGS, INCLUDING, BUT NOT LIMITED TO, REFLECTED CEILING PLANS AND ELEVATIONS FOR ASSOCIATED NOTES, MOUNTING DETAILS AND EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
- B. PROVIDE COMMON FACEPLATE AND REQUIRED METAL INTERIOR BOX BARRIERS FOR ALL MULTIPLE GANG SWITCH LOCATIONS.
- C. COORDINATE THE PLACEMENT OF ALL PENDANT, SURFACE, OR SEMI-FLUSH FIXTURES AND DEVICES WITH THE FIRE PROTECTION CONTRACTOR OR MAINTAIN NFPA-13 REQUIRED SEPARATION BETWEEN SPRINKLER HEADS AND OBSTRUCTIONS.
- D. CONNECT ALL NIGHT LIGHTS (NLL), EXIT SIGNS, AND THE EMERGENCY INPUT OF ALL GENERATOR TRANSFER DEVICES SHOWN ON THIS SHEET TO EMERGENCY CIRCUIT "ESH-17", UNLESS OTHERWISE NOTED.
- E. CIRCUIT NUMBERS ARE DIAGRAMATIC. EXACT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON AS-BUILT DOCUMENTATION BY THE ELECTRICAL CONTRACTOR. THE ASSOCIATED CIRCUIT NUMBERS THAT ARE APPLIED TO EACH DEVICE AND PIECE OF EQUIPMENT INFERS INTERCONNECTING BRANCH CIRCUITRY.
- F. REFER TO SHEET E-002 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- G. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- H. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUIT INDICATED ON THIS DRAWING ARE PROHIBITED.
- I. CONNECT VOLTAGE SENSING INPUT OF POWER PACKS TO LOCAL NORMAL LIGHTING CIRCUIT, UNSWITCHED.
- J. ALL HALLWAY CEILING MOUNTED LIGHTING DEVICES AND HALLWAY CEILING MOUNTED LIGHTING FIXTURES ARE TO BE MOUNTED IN THE CENTER OF THE HALLWAY UNLESS OTHERWISE NOTED.
- K. 0-10V DIMMING WIRING IS NOT ANNOTATED ON PLANS. PROVIDE 0-10V DIMMING WIRING AS NEEDED FOR DIMMING ZONES SHOWN ON PLANS.

KEYNOTES

- 1 REFER TO DETAILS 1 AND 2/ SHEET E-603 FOR ELEVATOR LIGHTING REQUIREMENTS.

RATED WALL LEGEND	
SYMBOL	DESCRIPTION
	1 HR FIRE RATED
	2 HR FIRE RATED

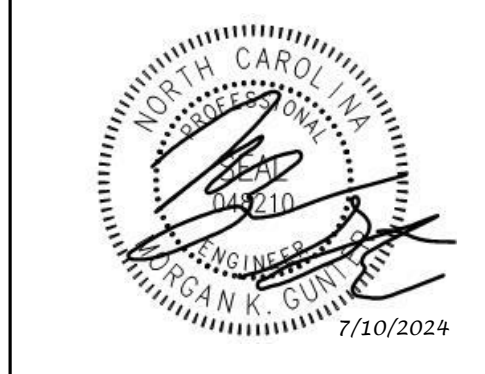
KEYPLAN



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ARCHITECTS



CONSTRUCTION DOCUMENTS

e optima
engineering

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Phone: 919-928-2200 | www.optimaengineering.com
North Carolina License Number: C-0914

PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



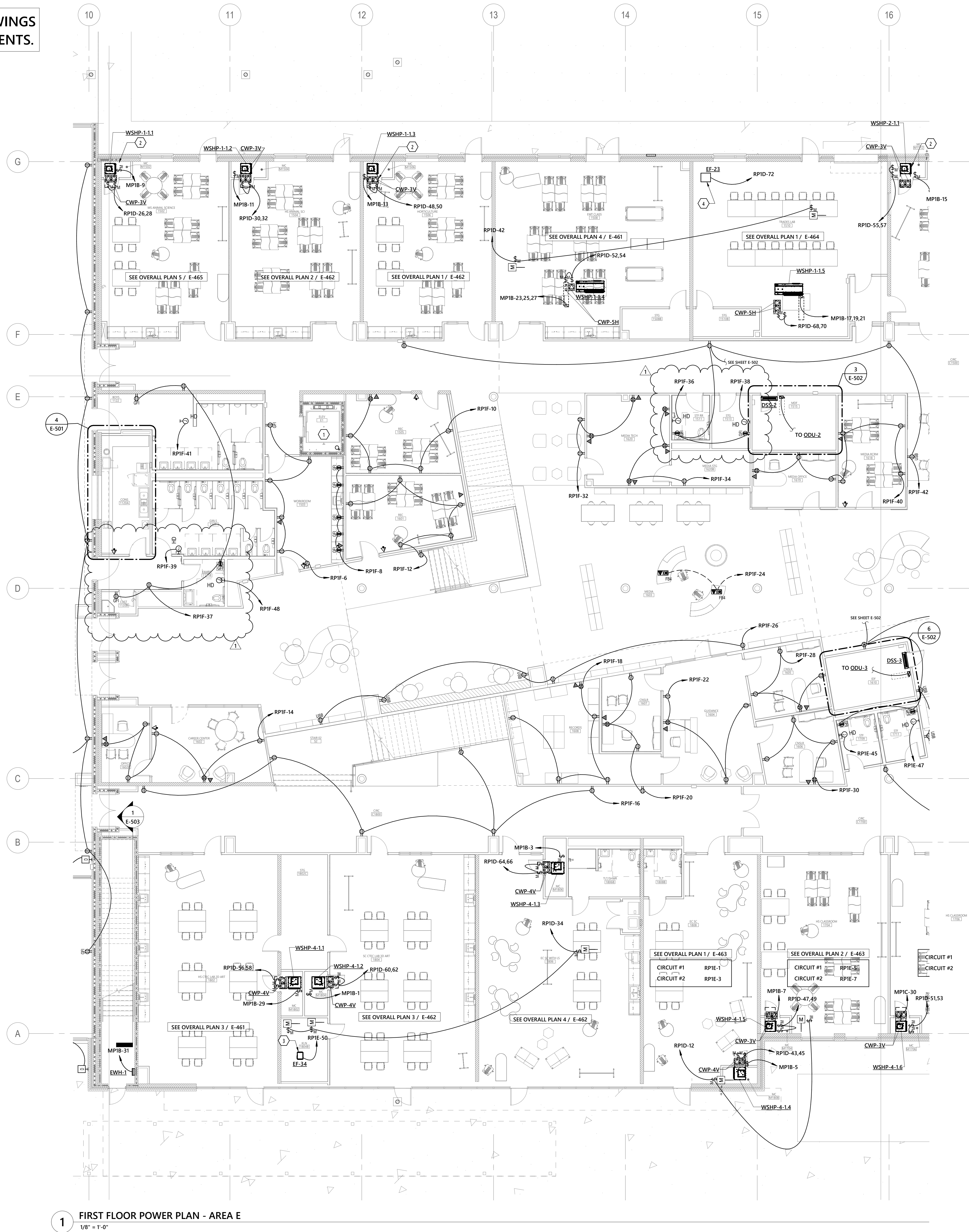
No.	Date	Description
1	7/10/24	Issued for Construction
ISSUE DATE: 06/12/24		
PROJECT #: 2205		
DRAWN BY: JSD		
CHECKED BY: MKG		

FIRST FLOOR LIGHTING PLAN - AREA E

E-111E

7/9/2024 11:20:50 AM Autocad Doc: \\Pamlico High School 61223-0082R_Pamlico HS_MEPFPT_123.rvt

REFER TO 'T' SERIES TECHNOLOGY DRAWINGS FOR ADDITIONAL ROUGH-IN REQUIREMENTS.



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

GENERAL NOTES

- A. RECEPTACLES AND DATA OUTLETS SHALL NOT BE MOUNTED IN TRIM OF WINDOWS. LOCATED WHERE FULL WALL IS AVAILABLE.
- B. COORDINATE LOCATION OF ALL FLOOR BOXES PRIOR TO ROUGH-IN. MULTIPLE BOXES IN THE SAME AREA SHALL BE NEATLY ALIGNED AND PARALLEL TO BUILDING LINES.
- C. CIRCUIT NUMBERS ARE DIAGRAMATIC. EXACT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED ON AS-BUILT DOCUMENTATION BY THE ELECTRICAL CONTRACTOR. THE ASSOCIATED CIRCUIT NUMBERS THAT ARE APPLIED TO EACH DEVICE AND PIECE OF EQUIPMENT INFERS INTERCONNECTING BRANCH CIRCUITRY.
- D. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
- E. REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- F. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.

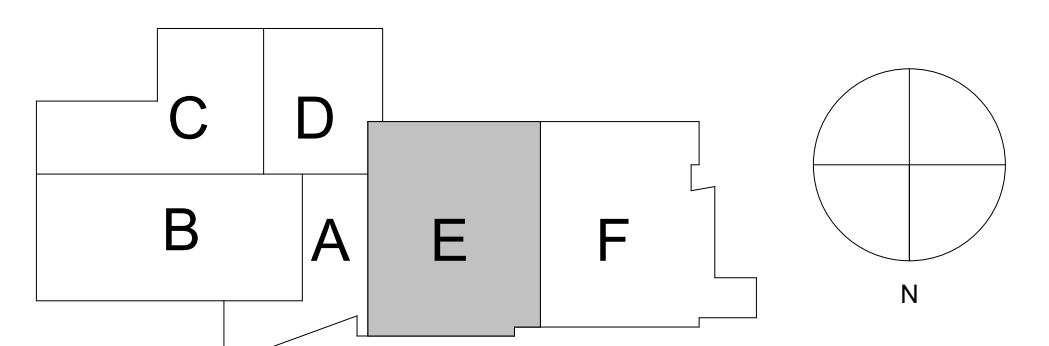
KEYNOTES

- 1 REFER TO DETAIL 1 AND 2/ SHEET E-603 FOR ELEVATOR POWER REQUIREMENTS.
- 2 PROVIDE 208V, 1-PHASE CONNECTION FOR CIRCULATOR PUMP. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 3 INTERLOCK FAN WITH LIGHTING CONTROLS IN THIS ROOM. PROVIDE RELAY TO INTERLOCK 277V LIGHTING CONTROLS WITH 120V FAN.
- 4 WALL SWITCH CONTROL PROVIDED BY MC.

RATED WALL LEGEND

SYMBOL	DESCRIPTION
[Symbol]	1 HR FIRE RATED
[Symbol]	2 HR FIRE RATED

KEYPLAN



CONSTRUCTION
DOCUMENTS



PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



1 7/10/24 Addendum #2
No. Date Description
ISSUE DATE: 06/12/24
PROJECT #: 2205
DRAWN BY: JSD
CHECKED BY: MKG

FIRST FLOOR
POWER PLAN - AREA
E

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Pamlico County 6-12
Address: 601 Main Street, Bayboro, NC Zip Code: 28515
Owner/Authorized Agent: Dr. Jeremy Johnson Phone # (252) 745 - 4171 E-Mail: jjohnson@pamlico.k12.nc.us
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County Pamlico State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	S&A Architects	Eric A Lindstrom	7060	(919) 484-4888	elindstrom@sfa.biz
Civil	Crawford Design Company	Dan Crawford	1020	(919) 251-0033	dscrawford@pamlico.k12.nc.us
Electrical	Optima Engineering	Morgan K. Ginter	048210	(919) 506-2200	mginter@optimaengineering.com
Fire Alarm	Optima Engineering	Morgan K. Ginter	048210	(919) 506-2200	mginter@optimaengineering.com
Plumbing	Optima Engineering	Daniel A. Revilla	043866	(919) 506-2200	drevilla@optimaengineering.com
Mechanical	Optima Engineering	Daniel A. Revilla	043866	(919) 506-2200	drevilla@optimaengineering.com
Sprinkler-Standpipe	Optima Engineering	Daniel A. Revilla	043866	(919) 506-2200	drevilla@optimaengineering.com
Structural	Berrett & Pless	Timothy Hillon	037412	(919) 832-5567	thillon@berrett-pless.com
Retaining Walls >5' High					
Other					

Others should include firms and individuals such as, truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction - Shell/Core
 Renovation

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III Change of Use
 Historic Property

CONSTRUCTED (date) ORIGINAL OCCUPANCY(S) (Ch. 3):
RENOVATED: (date) CURRENT OCCUPANCY(S) (Ch. 3):

RISK CATEGORY (table 1004.5) Current: I II III IV
Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary) Flood Hazard Area: No Yes
Special Inspections Required: No Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ FT)	SUB-TOTAL
6 th Floor				
5 th Floor				
4 th Floor				
3 rd Floor				
2 nd Floor				
Mezzanine				
1 st Floor				
Basement				
TOTAL				

ALLOWABLE AREA

Primary Occupancy Classification: SELECT ONE
Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 Condition I-2 I-3 I-4
I-2 Condition I-2 I-3 I-4
I-3 Condition I-2 I-3 I-4 I-5
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous

Accessory Occupancy Classification:
Incidental Uses (Table 509): Yes, Labs not classified as H.
Special Uses (Chapter 4 - List Code Sections)
Special Provisions: (Chapter 5 - List Code Sections)
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: 303.1.3
 Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4)
See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
$$\frac{Actual\ Area\ of\ Occupancy\ A}{Allowable\ Area\ of\ Occupancy\ A} + \frac{Actual\ Area\ of\ Occupancy\ B}{Allowable\ Area\ of\ Occupancy\ B} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) FLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
TOTL FLDG AREA A	Education	47,295	43,500	8,990	52,490
TOTL FLDG AREA B	Education	44,567	43,500	8,265	51,765
TOTL FLDG AREA C	Education	38,585	43,500	8,265	51,765

¹ Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = $A = 1.04675 \cdot P$
b. Total Building Perimeter = $P = 2 \cdot (L + W)$
c. Ratio (F/P) = $\frac{A}{P} = \frac{1.04675 \cdot P}{2 \cdot (L + W)}$
d. W = Minimum width of public way = 20 (W) = $\frac{A \cdot 2}{P \cdot 1.04675}$
e. Percent of frontage increase = $I = 100 \cdot (F/P - 0.25) \cdot W/30 = \frac{A \cdot 200}{P \cdot 30} = 6.67 \cdot \frac{A}{P}$ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4
⁵ Frontage increase is based on the unobstructed area value in Table 506.2.

ALLOWABLE HEIGHT

ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	75'	41'-4"
Building Height in Stories (Table 504.4)	3	2

¹ Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1
³ The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (OR REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls		0	0				
Exterior		0	0				
North							
East							
West							
South							
Nonbearing Walls and Partitions		0	0				
Exterior walls		0	0				
North							
East							
West							
South							
Interior walls and partitions		0	0				
Floor Construction							
Including supporting beams and joists							
Floor Ceiling Assembly		0	2	IE NOTE 1	1/G-005	D925	
Column Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit		1	1		1/G-003	U905	
Shaft Enclosures - Other		1	1		1/G-004	U419	
Corridor Separation		0	0				
Openings/ Fire Barrier Separation							
Party Fire Wall Separation		2	2		1/G-002	U905	
Smoke Barrier Separation							
Smoke Partition							
Tenant Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction. **NOTE: FLOOR ASSEMBLY - D925 1/G-005 IS FOR RATED ALCOVE LIDS ONLY.**

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30'-0" MIN	NL	NL	-

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
Exit Signs: No Yes
Fire Alarm: No Yes *An Emergency Voice/Alarm System is required and will be provided.
Smoke Detection Systems: No Yes Partial
Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-110 & G-111

Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.5)
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1006.2.1 & 2006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132' ACCESS AISLE	8' ACCESS AISLE	
		279 CARS			10	10
		18 BUSES				
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS		DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBLE	
SPACE										
REQ'D	13	28	15	12	12	12	12	10	10	
PROV'D	27	31	15	12	12	12	12	8	8	

* SEE PROVIDED PLUMBING TABLE FOR ADDITIONAL COUNT INFORMATION BASED ON OCCUPANCY SCENARIOS

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)
NC DOI and NC DPI
Pamlico County Health Department, City of Bayboro
NC Department of Transportation

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference):

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
(*If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly) 2" Rigid Insulation on deck with R50 Batt on underside of deck.
Description of assembly:
U-Value of total assembly: R-10 with R-50
R-Value of insulation: N/A
Skylights in each assembly: N/A
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly) 4" masonry veneer w/ 1-1/8" air space over 3" foamed-in-place closed cell insulation over 8" or 12" CMU.
Description of assembly:
U-Value of total assembly: 0.068
R-Value of insulation: R-13.4
Openings (windows or doors with glazing) Insulated glass in aluminum frames Guardian Sanguard SN 54
U-Value of assembly:
Solar heat gain coefficient: 0.28
Projection factor: 0.088
Door R-Values: R-7

Walls below grade (each assembly) 4" solid grouted masonry w/ 1-1/8" air space over 3" SPF insulation over 4" granular fill on compacted fill.
Description of assembly:
U-Value of total assembly: 0.033
R-Value of insulation: R-7.5

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade 4" concrete w/ WWF over 15 ml vapor barrier over 4" granular fill on compacted fill.
Description of assembly:
U-Value of total assembly: 0.4
R-Value of insulation: R-15 SPF insulation
Horizontal/Vertical requirement: 2'-0" / 2'-0"
Slab Heated: N/A

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 11
Seismic (Is) 2.25

Live Loads: Roof 20 psf
Mezzanine 150 psf
Floor 80 psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 128 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Risk Category (Table 1004.5) I II III IV
Spectral Response Acceleration S_s 0.250 %g S₁ 0.106 %g
Site Classification (ASCE 7) A B C D E F
Data Source: Field Test Presumptive Historical Data

Basic structural system Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic

Analysis Procedure: Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES: Field Test (provide copy of test report) 1,500 psf
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity N/A psf

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 22.5 deg. F
summer dry bulb: 83.3 deg. F

Interior design conditions
winter dry bulb: 72 deg. F
summer dry bulb: 75 deg. F
relative humidity: 50%

Building heating load: 2,289,200 BTUH - PEAK
Building cooling load: 4,288,800 BTUH - PEAK

Mechanical Spacing Conditioning System
Unitary: SEE MECHANICAL SCHEDULES
description of unit: SEE MECHANICAL SCHEDULES
heating efficiency: SEE MECHANICAL SCHEDULES
cooling efficiency: SEE MECHANICAL SCHEDULES
size category of unit: SEE MECHANICAL SCHEDULES
Boiler:
Size category. If oversized, state reason: N/A
Chiller:
Size category. If oversized, state reason: N/A

List equipment efficiencies: SEE MECHANICAL SCHEDULES

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code: Prescriptive Performance
ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

SCENARIO BASED PLUMBING COUNT TABLES

BASED ON TYPICAL CLASSROOM FUNCTION

OCCUPANCY - Based on NCP Section 403
MIDDLE SCHOOL (STUDENT) = 406
HIGH SCHOOL (STUDENT) = 924 (Excludes 2 EGS RMS w/ in RM FLT)
MIDDLE SCHOOL (STAFF) = 25
HIGH SCHOOL (STAFF) = 53

REQ. STUDENT FIXTURE COUNT

WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	
MALE	FEMALE	MALE	FEMALE	REG	ACCESSIBLE
25	28	9	9	7	7

REQ. STAFF FIXTURE COUNT

WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	
MALE	FEMALE	MALE	FEMALE	REG	ACCESSIBLE
2	3	2	3	1	1

TOTAL REQUIRED

WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	
MALE	FEMALE	MALE	FEMALE	REG	ACCESSIBLE
28	32	11	12	8	8

* Staff Provided facilities are Unisex. See provided Unisex toilets in "provided fixtures" on Appendix B. See plans for all Staff Facilities.

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
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MECHANICAL DESIGN

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description of unit: SEE MECHANICAL SCHEDULES
heating efficiency: SEE MECHANICAL SCHEDULES
cooling efficiency: SEE MECHANICAL SCHEDULES
size category of unit: SEE MECHANICAL SCHEDULES
Boiler:
Size category. If oversized, state reason: N/A
Chiller:
Size category. If oversized, state reason: N/A

List equipment efficiencies: SEE MECHANICAL SCHEDULES

**2018 APPENDIX B
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Size category. If oversized, state reason: N/A
Chiller:
Size category. If oversized, state reason: N/A

List equipment efficiencies: SEE MECHANICAL SCHEDULES

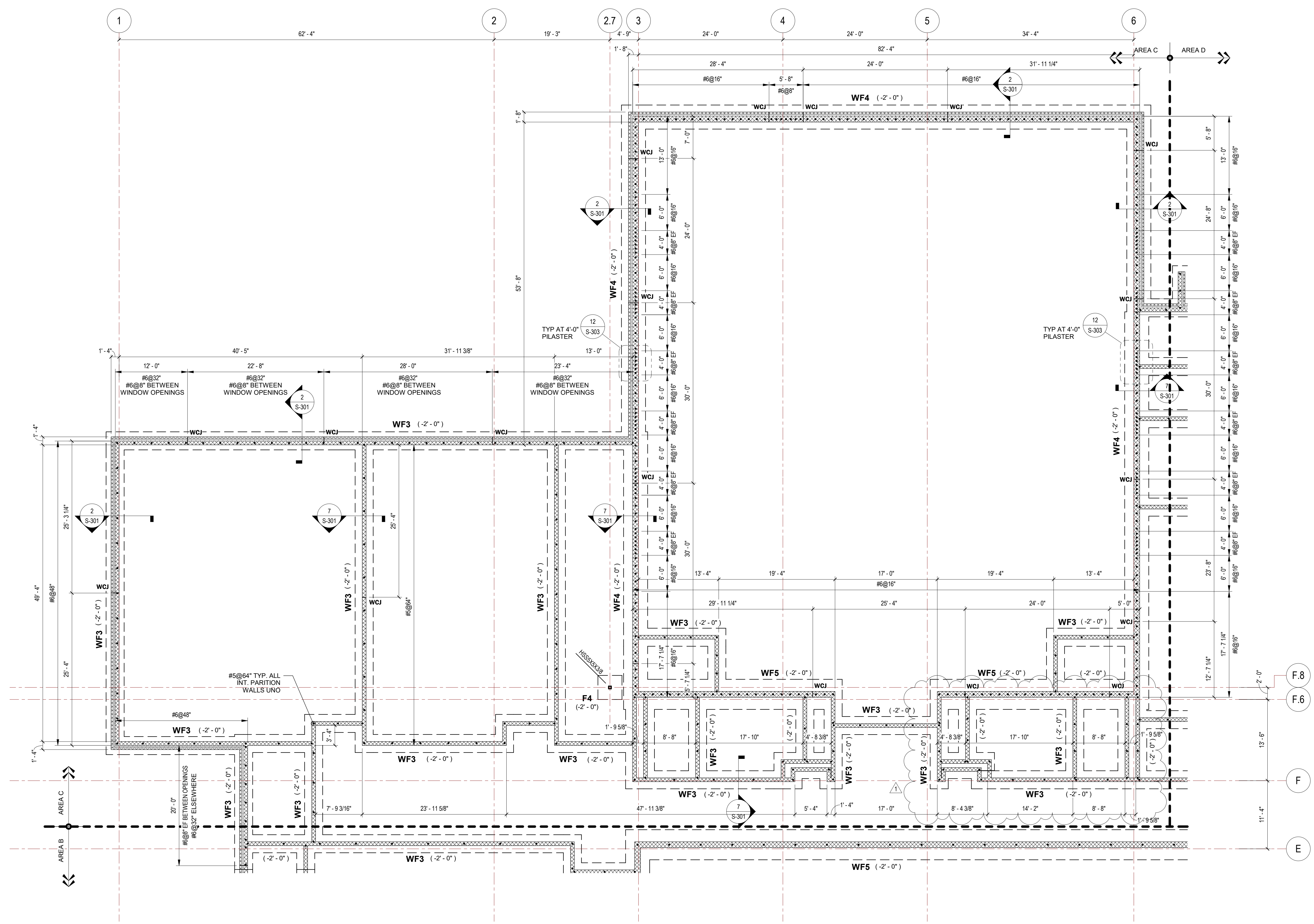
**2018 APPENDIX B
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MECHANICAL DESIGN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

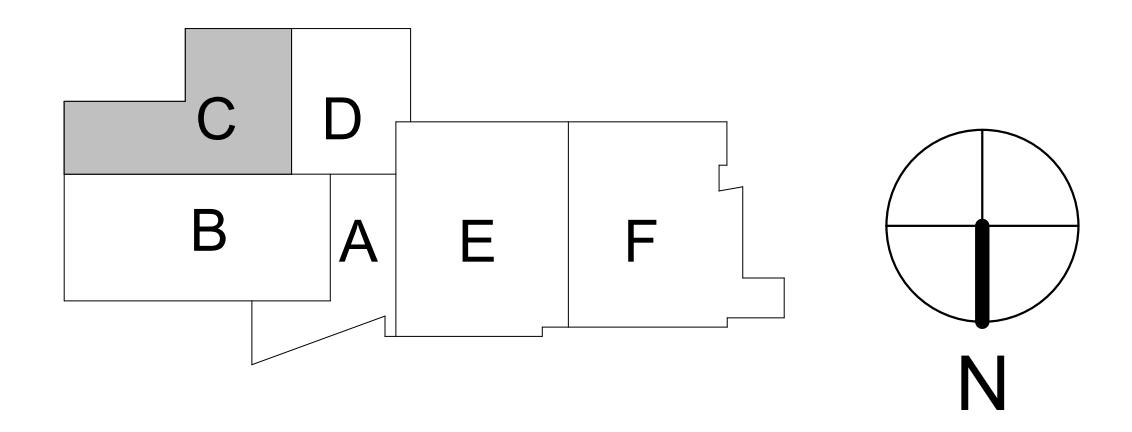
Thermal Zone
winter dry bulb: 22.5 deg. F
summer dry bulb: 83.3 deg. F

<



1
S-100C FOUNDATION PLAN - AREA C
SCALE: 1/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- NUMBER IN PARENTHESIS DENOTES TOP OF FOOTING BELOW FIN. FLOOR ELEVATION = 0'-0".
 - SEE S-200 AND S-301 FOR COLUMN SCHEDULE AND TYPICAL DETAILS.
 - F#** DENOTES COLUMN FOOTING. SEE S-100A FOR SCHEDULE.
 - WF#** DENOTES WALL FOOTING. SEE S-100A FOR SCHEDULE. INTERIOR NON-LOAD BEARING 8" CMU IS WF3 U.O.N.
 - SEE PLAN FOR CMU WALL REINFORCING. FOR WALLS WHERE SPACING IS NOT IDENTIFIED, PROVIDE #5@8" MAX SPACING VERT. IN ALL 8" CMU PARTITION WALLS. SEE S-303 FOR ADDITIONAL CMU REINFORCING REQUIREMENTS.
 - IN ADDITION TO REINFORCING SHOWN ON THE DRAWINGS, PROVIDE ADDITIONAL REINFORCING IN JAMBS OF ALL DOORS AND WINDOWS AND EA. SIDE OF EXPANSION JOINTS AND CONTROL JOINTS. REFER TO DETAILS 5/S-303 AND 7/S-303.
 - [Symbol]** DENOTES STEPPED FOOTING. SEE 12/S-301 FOR DETAIL. G.C. COORDINATE STEP LOCATION AND DEPTH W/ UTILITY CONTRACTOR PRIOR TO FOOTING EXCAVATION.
 - REFER TO ARCHIT. DRAWINGS FOR INTERIOR WALL DIMENSIONS NOT SHOWN ON STRUCTURAL.
 - SEE DETAIL 9/S-301 FOR SLAB REINFORCING AT RE-ENTRANT CORNERS.
 - PROVIDE BOND BEAMS AT 9'-4" O.C. AND AT ALL BEARING ELEVATIONS IN LOAD BEARING WALLS AND AT TOP COURSE OF ALL WALLS. PROVIDE CORNER BARS IN BOND BEAMS AT WALL CORNERS AND INTERSECTIONS. LAP 2'-0".
 - VERIFY ELEVATOR PIT DIMENSIONS W/ ELEVATOR SUPPLIER PRIOR TO EXCAVATION.
 - P#** DENOTES 24"x24" CONCRETE PIER REINF W/ 8-#8 VERT AND #4 TIES AT 6". REFER TO 8 AND 9 ON S-302.
 - LIGHT GREY HATCHING OF COLUMN FOOTINGS DENOTES LOCATIONS OF GROUT-FILLED AGGREGATE PIERS UNDER COLUMN FOOTINGS.
 - GB1** DENOTES 36"x14" CONCRETE GRADE BEAM. SEE DETAIL 17/S-301.



PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



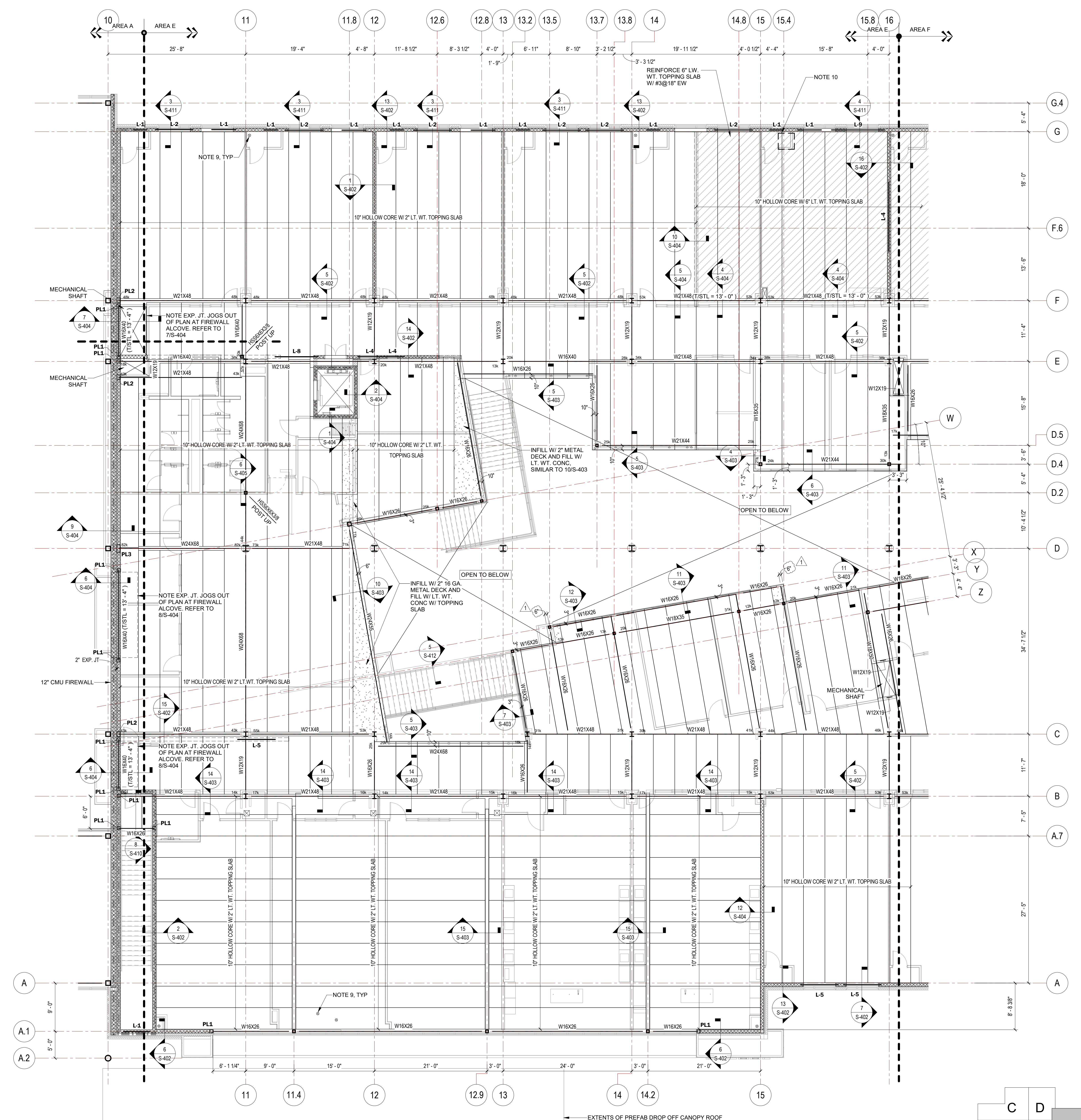
No.	Date	Description
1	07/10/2024	ADDENDUM #2
	06/12/2024	BID DOCUMENTS

ISSUE DATE: 06/12/2024

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CHECKED BY: TH

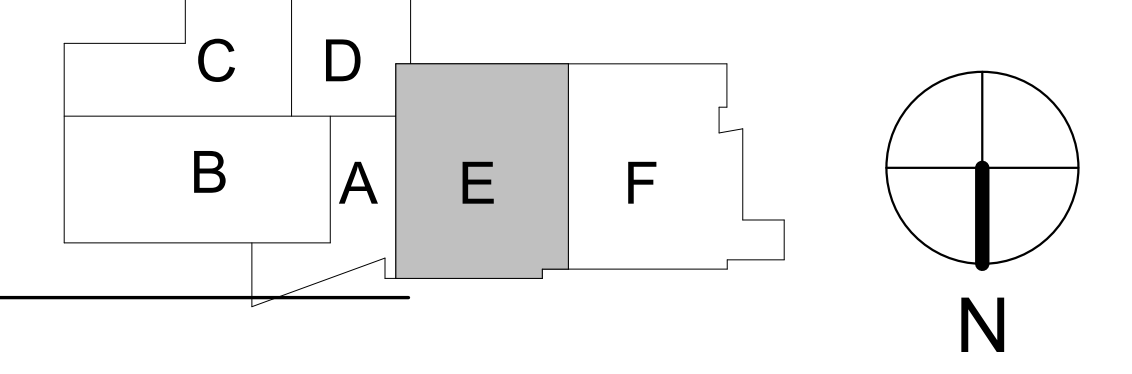
FOUNDATION PLAN
AREA C

S-100C

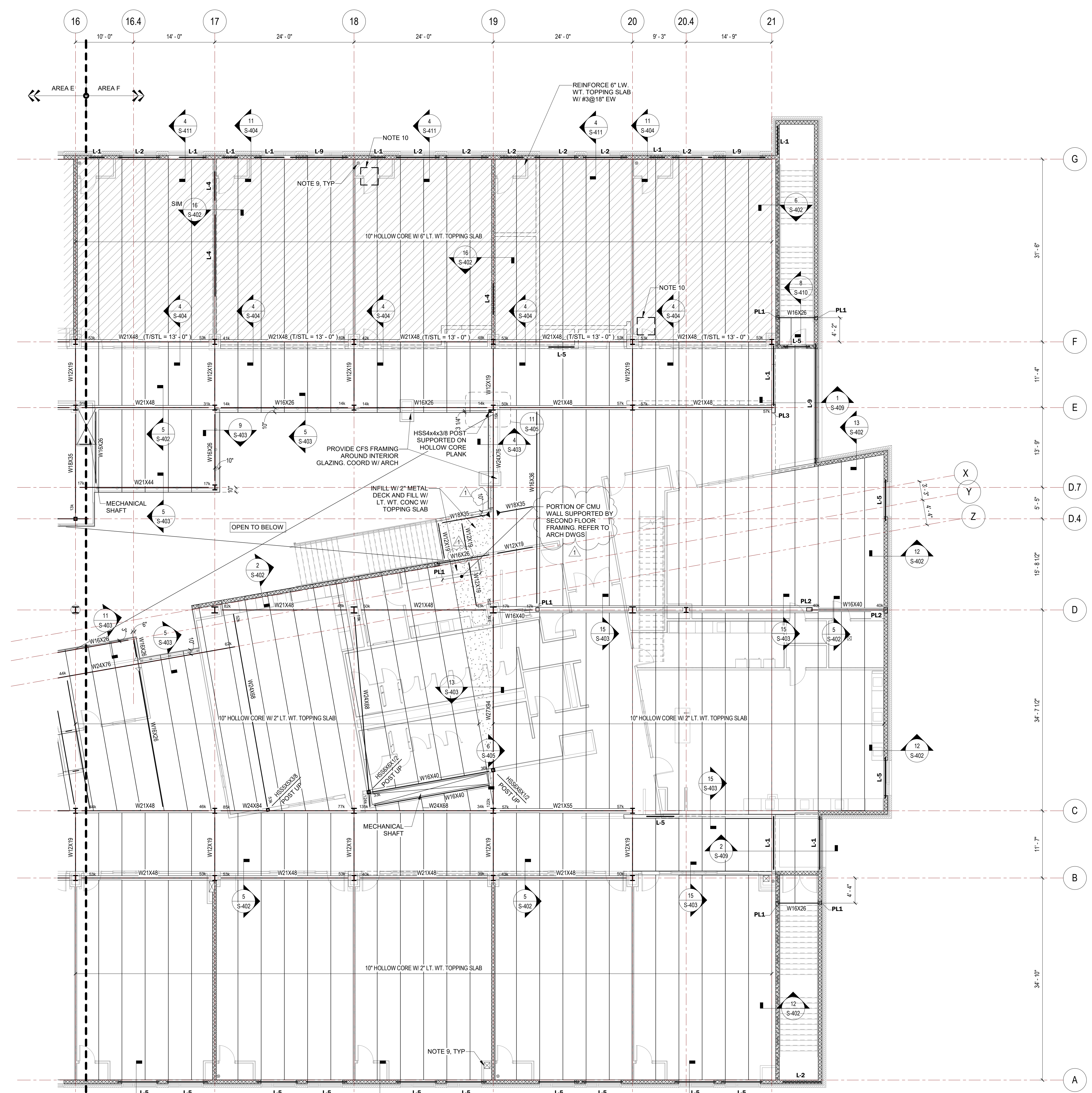


- FLOOR FRAMING NOTES:**
- TOP OF 2" TOPPING SLAB ELEVATION = 14'-4". TOPPING SLAB SHALL BE REINFORCED WITH 6#8 W14xW14 W.V.F.
 - BOTTOM OF HOLLOW CORE PLANKS ELEVATION = 13'-4". TOP OF STEEL SHALL BE AT BOTTOM OF HOLLOW CORE PLANKS, U.O.N.
 - INDICATES MOMENT CONNECTION. SEE DETAIL 5/S-405. FABRICATOR TO DESIGN AND DETAIL CONNECTION FOR THE MOMENT INDICATED ON THE PLAN "M-4". IF NO MOMENT IS PROVIDED, THE CONNECTION SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY OF THE BEAM.
 - PL1 DENOTES TOP OF DECK BEARING ELEVATION ABOVE FIN. FLOOR ELEVATION = 0'-0" U.O.N.
 - L-# DENOTES EXTERIOR LOAD BEARING LINTEL. SEE S-401 FOR SCHEDULE.
 - BEAM VERTICAL SHEAR DENOTED BY XXX. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE UNFACTORED LOADS.
 - PL# DENOTES BEAM BEARING PL. SEE DETAIL 2/S-401.
 - SEE DETAIL 6/S-401 FOR BRACING OF NON-LOAD BEARING CMU WALLS EXTENDING TO BOTTOM OF HOLLOW CORE. INTERIOR NON-LOAD BEARING WALLS NOT EXTENDING TO DECK SHALL BE BRACED BY INTERSECTING WALL OR ANGLE BRACING TO JOIST AT 12'-0" O.C. MAX. SEE DETAIL 5/S-401. COORDINATE WITH ARCH. THE WALLS EXTENDING TO THE DECK.
 - HOLLOW CORE PENETRATION. REFER TO MECHANICAL DRAWINGS FOR OPENING SIZE AND FINAL LOCATIONS. HOLLOW CORE SUPPLIER SHALL DESIGN HOLLOW CORE PLANKS ACCOUNTING FOR OPENINGS DENOTED ON PLANS.
 - ELEC. TRANSFORMER HUNG FROM UNDERSIDE OF HOLLOW CORE PLANKS ON UNISTRUT FRAME. REFER TO ELEC DWGS FOR FINAL EQUIPMENT LOCATION. HOLLOW CORE PLANKS SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE EQUIPMENT AND FRAME. COORD. W/ EQUIPMENT SUPPLIER FOR FINAL EQUIPMENT DIMENSIONS AND WEIGHT.

1 SECOND FLOOR FRAMING PLAN - AREA E
S-102E SCALE: 1/8" = 1'-0"

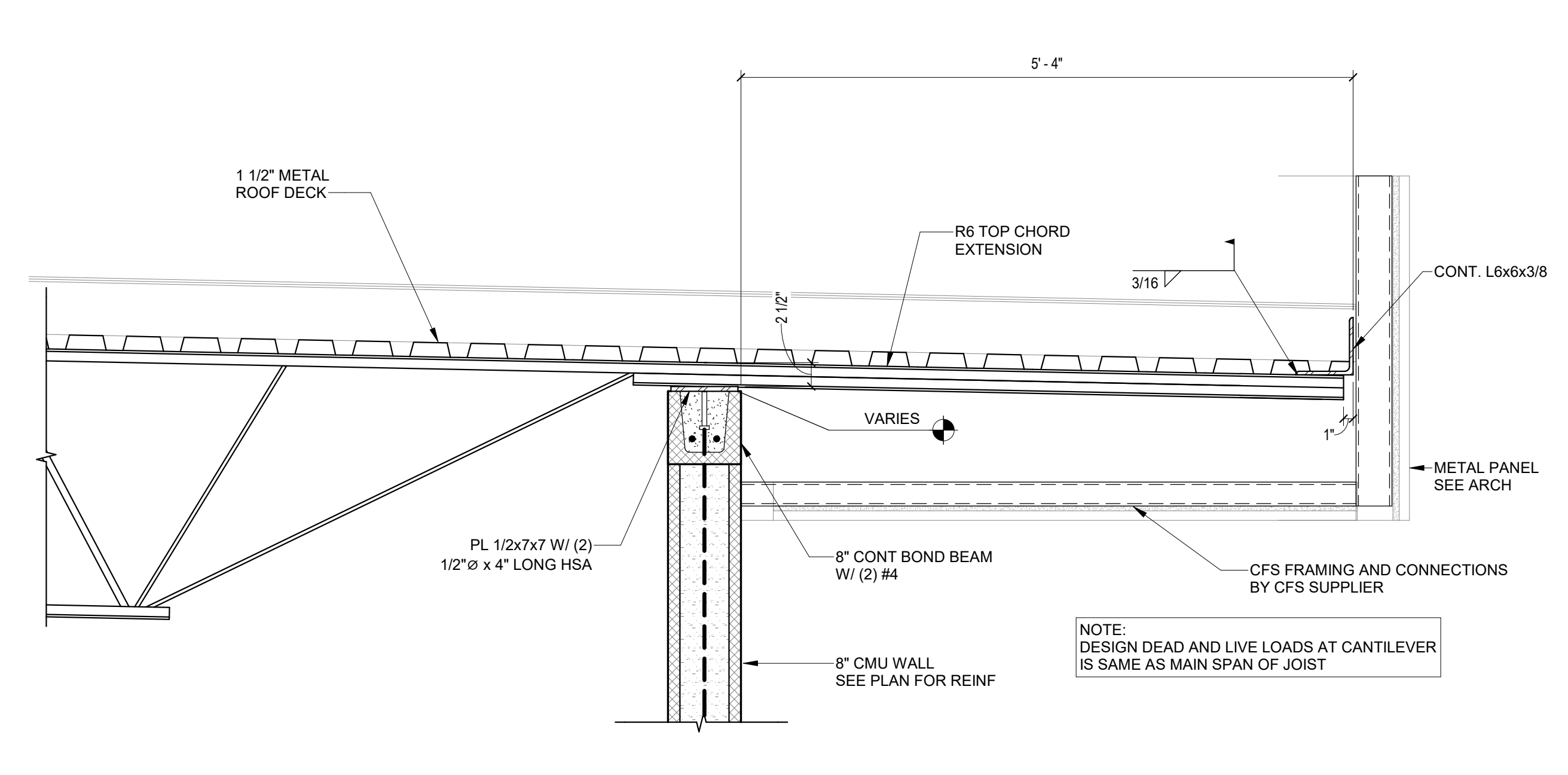
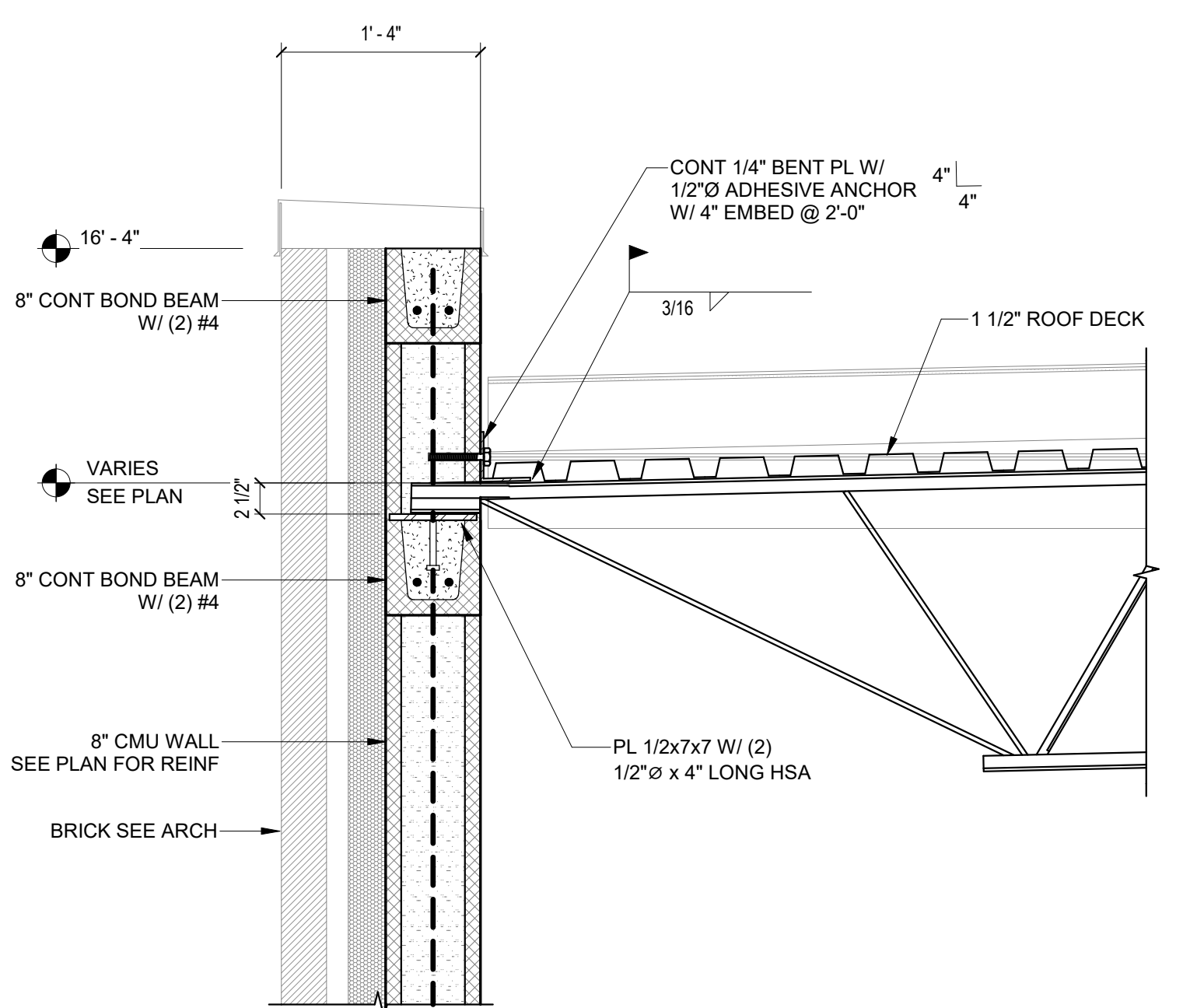
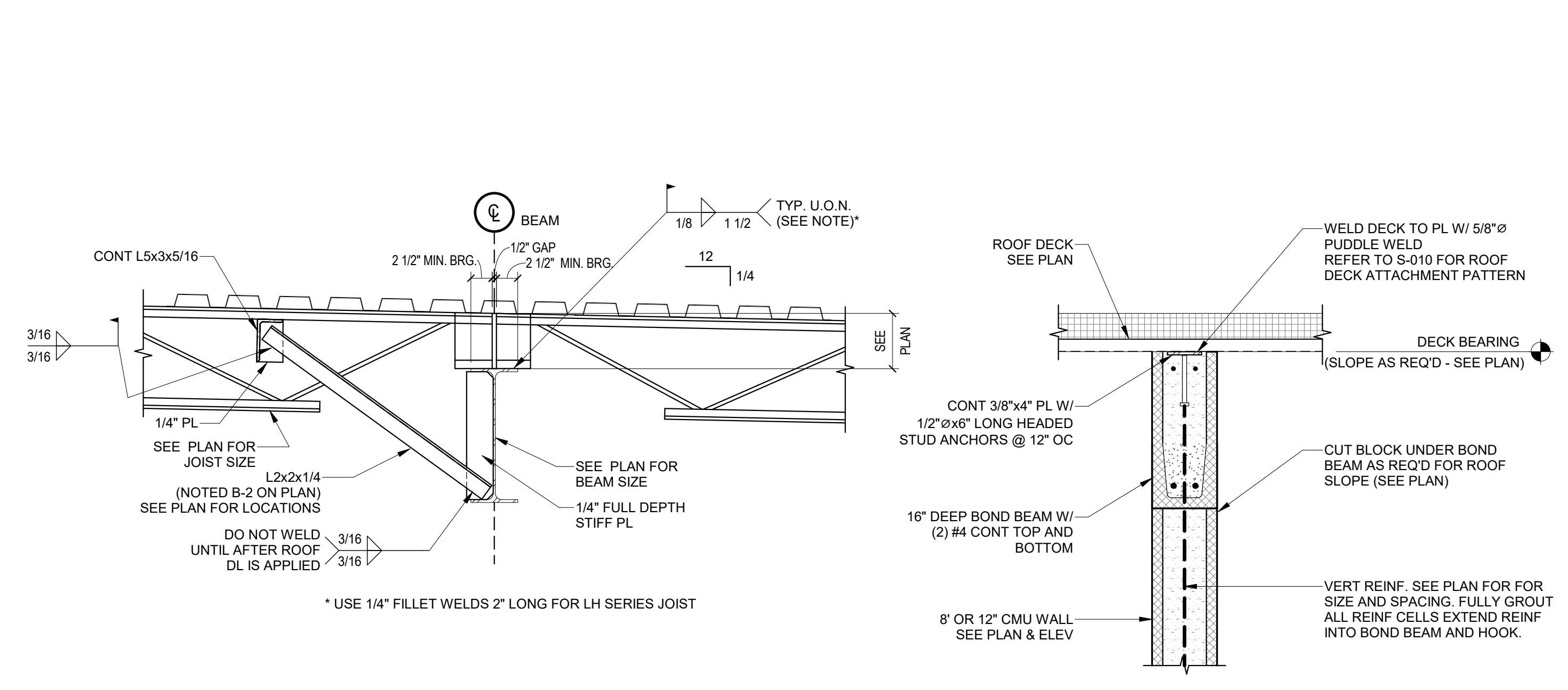
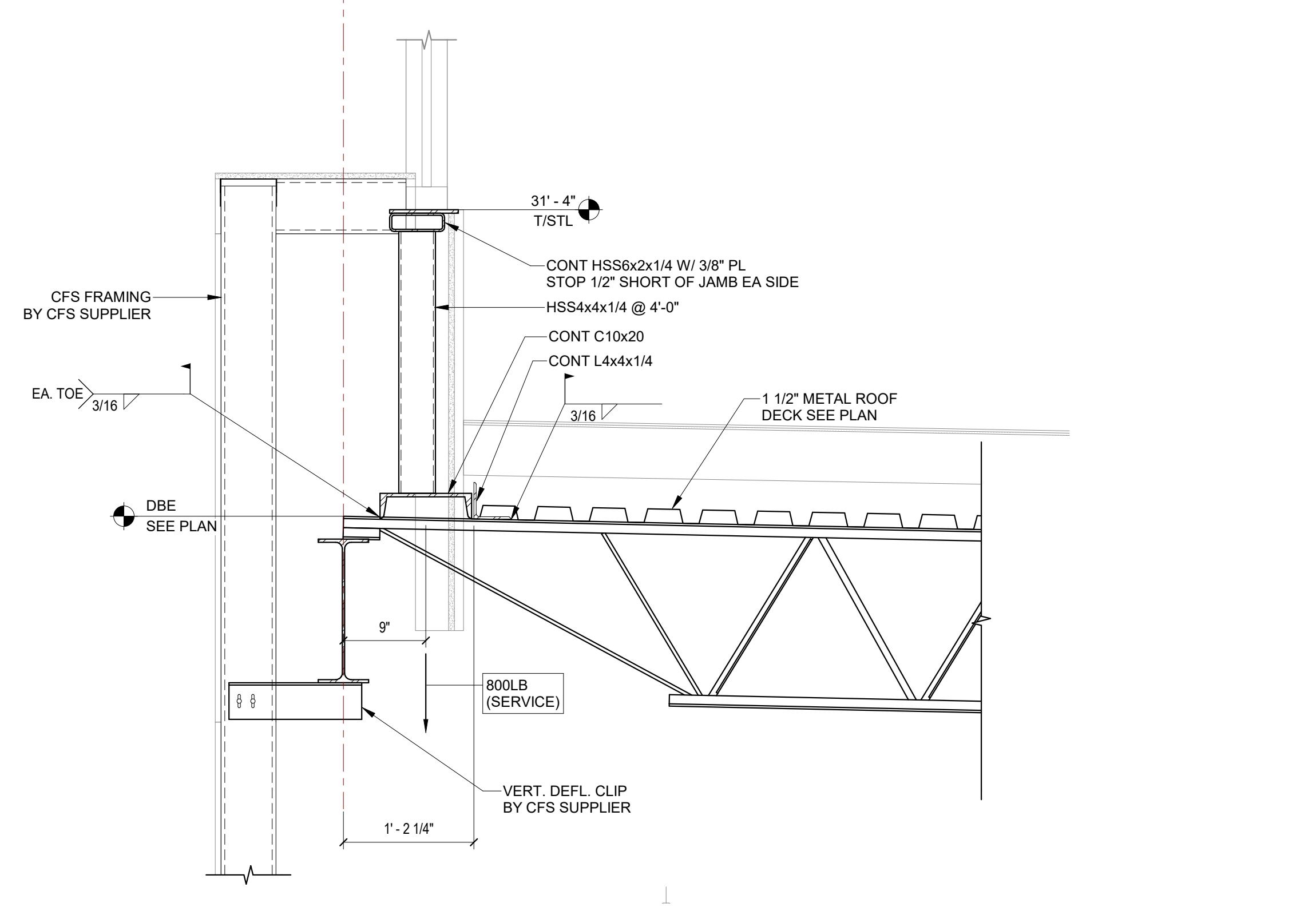
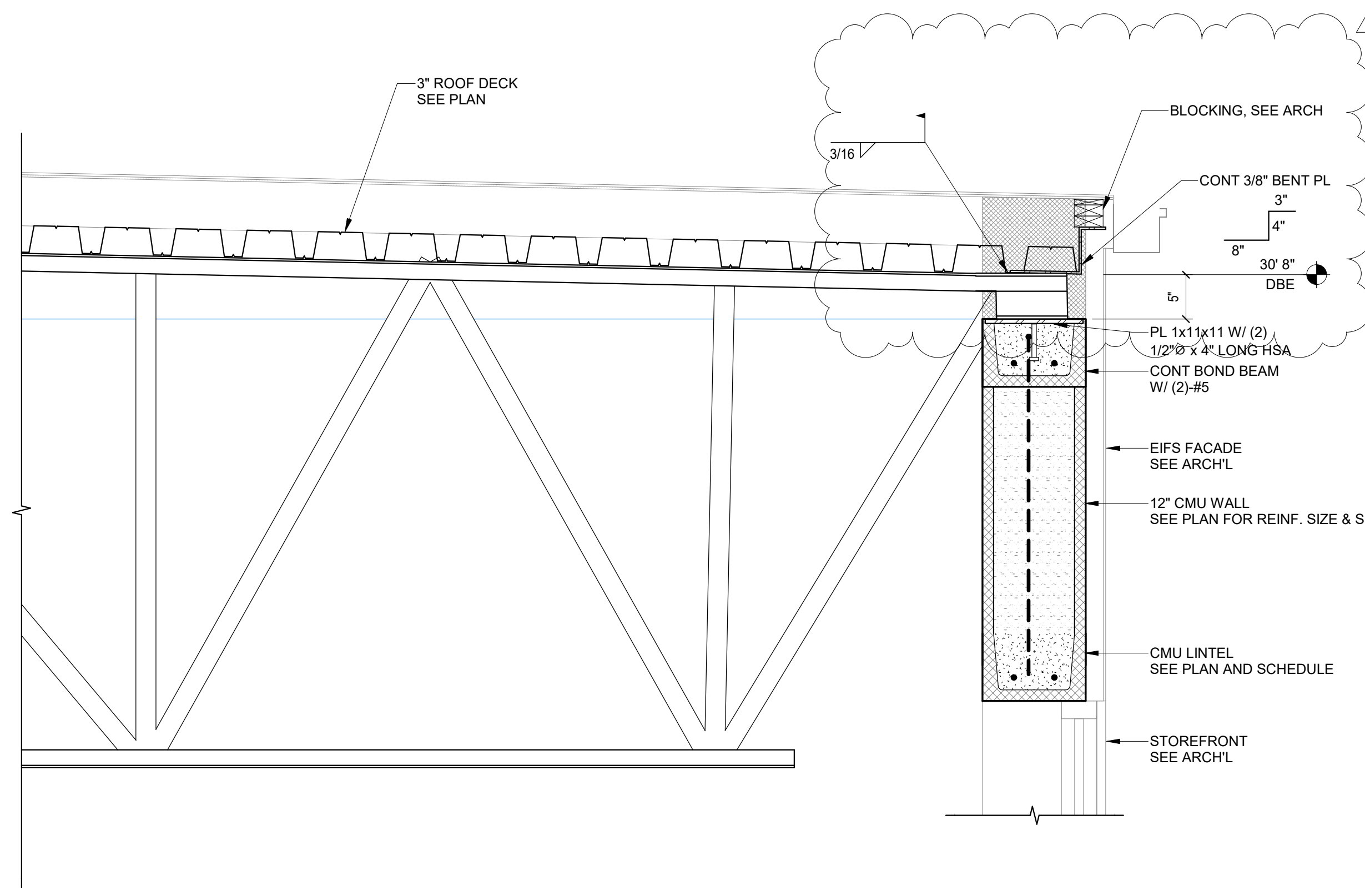
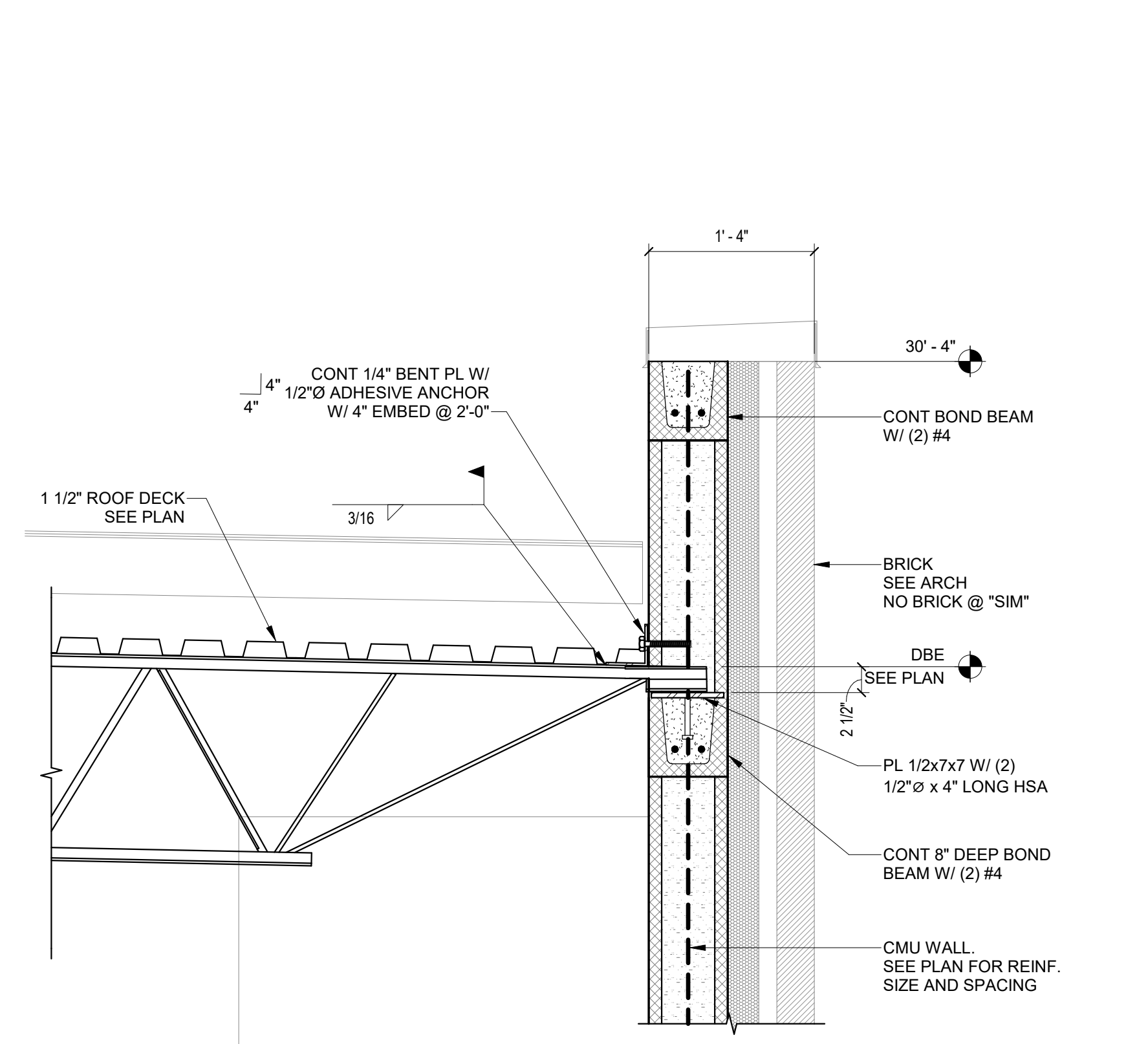
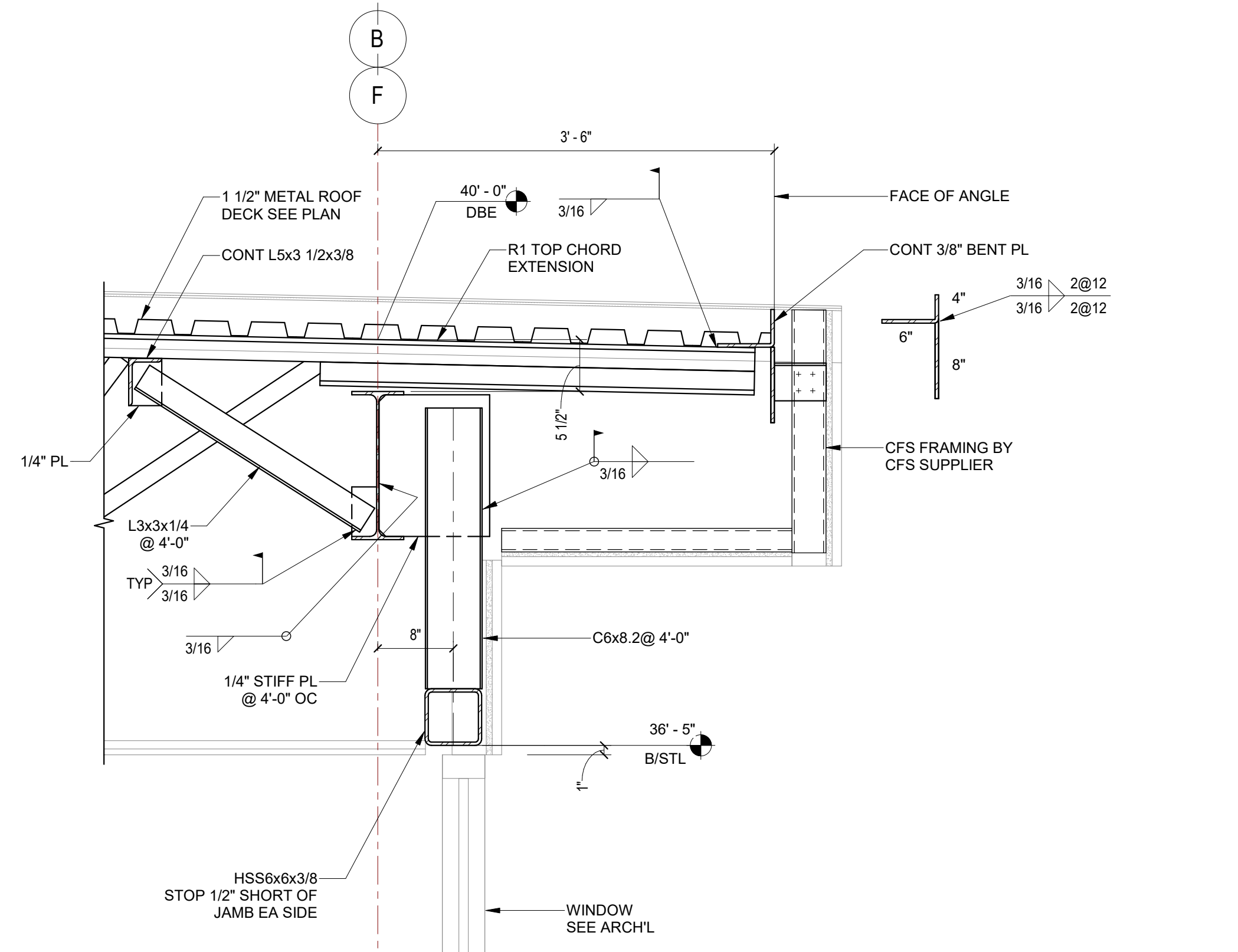
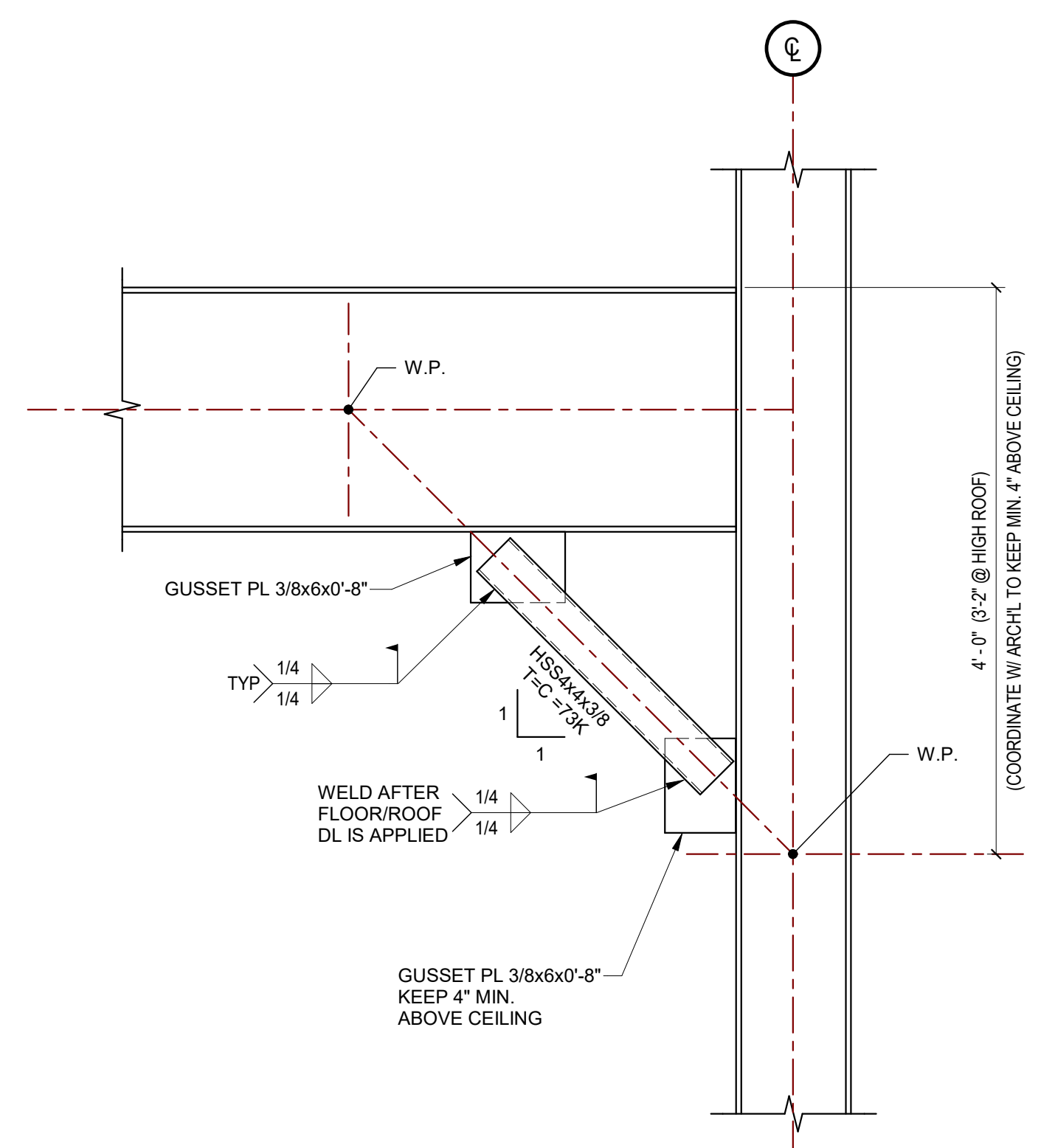
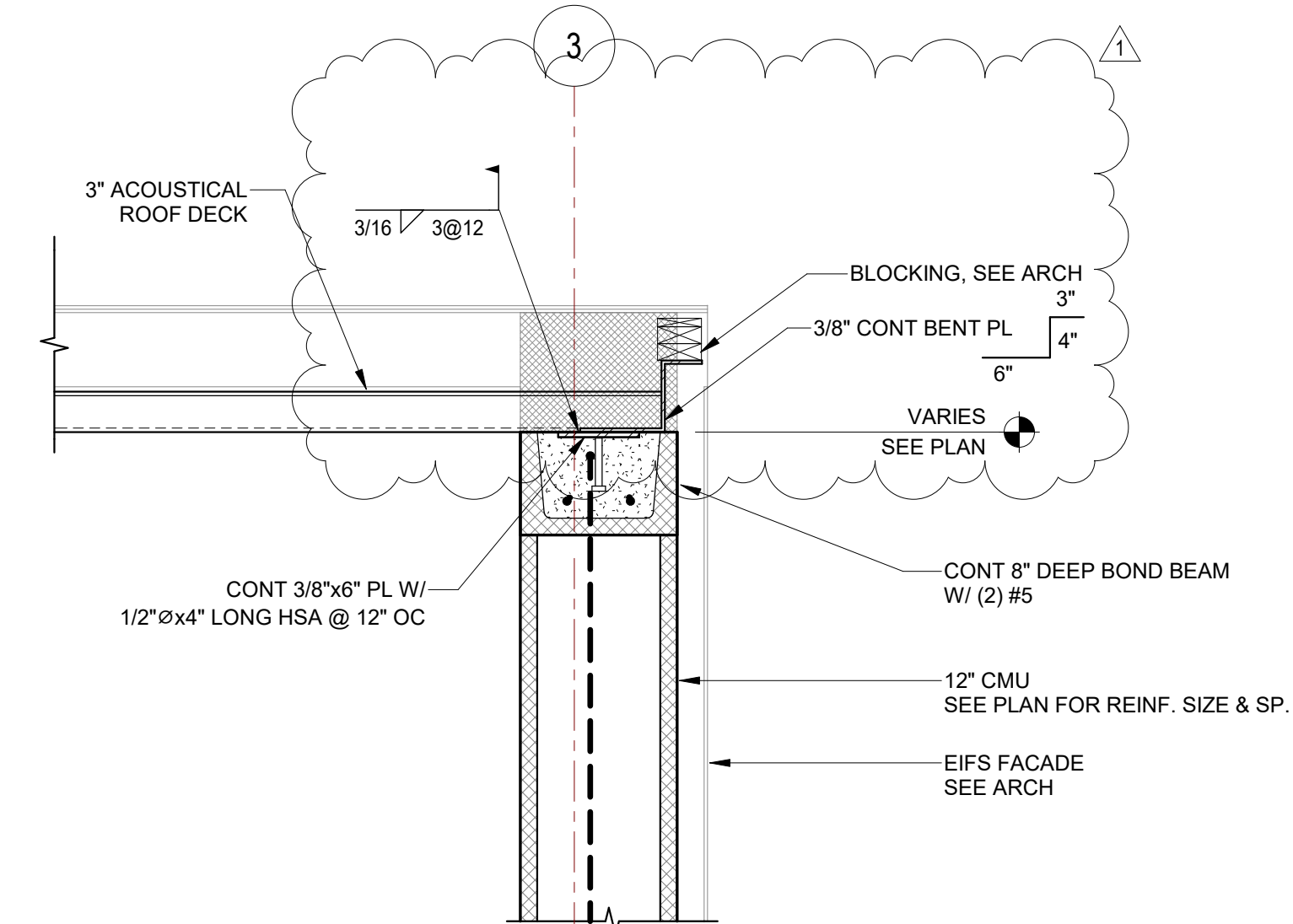
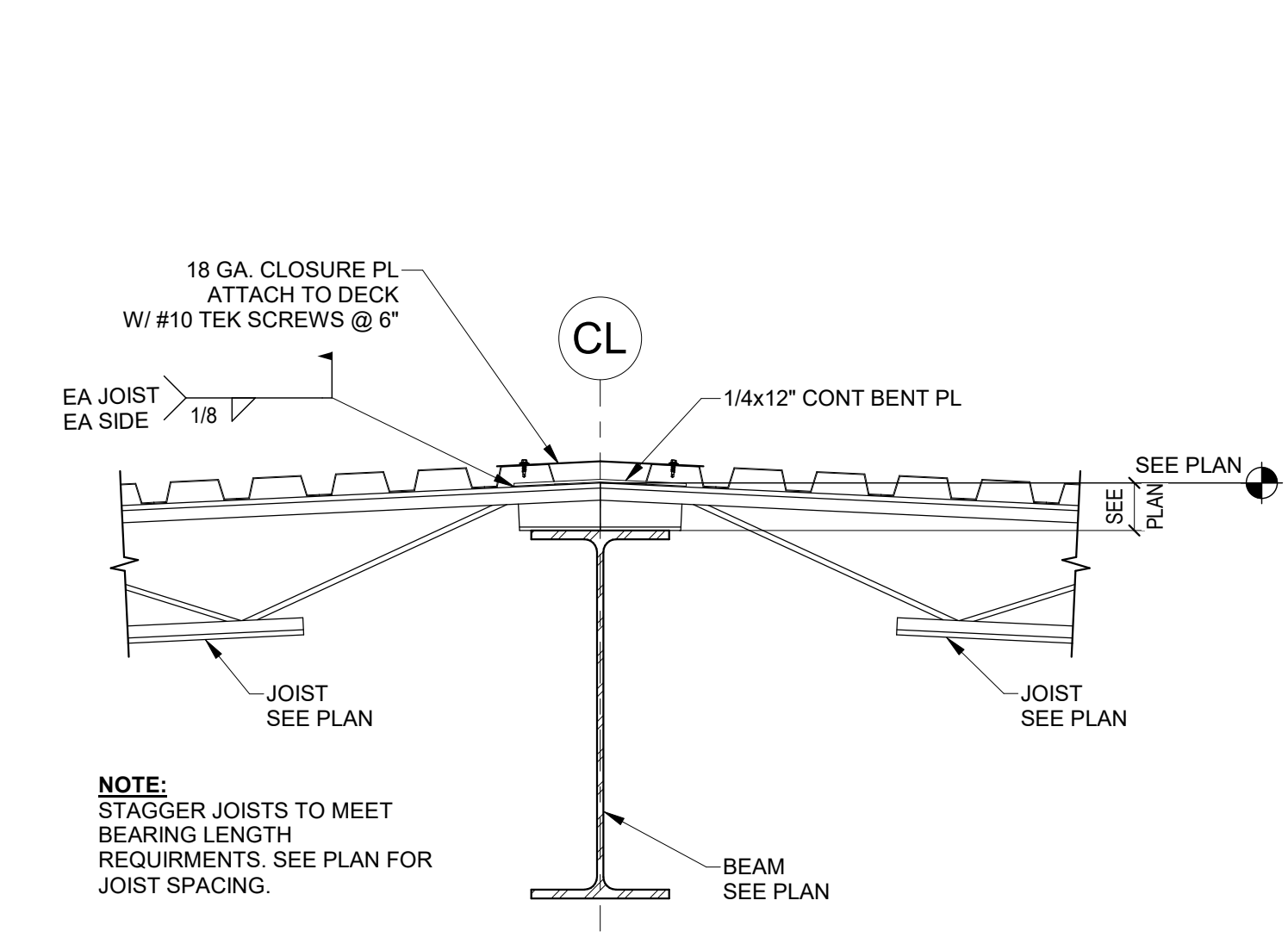


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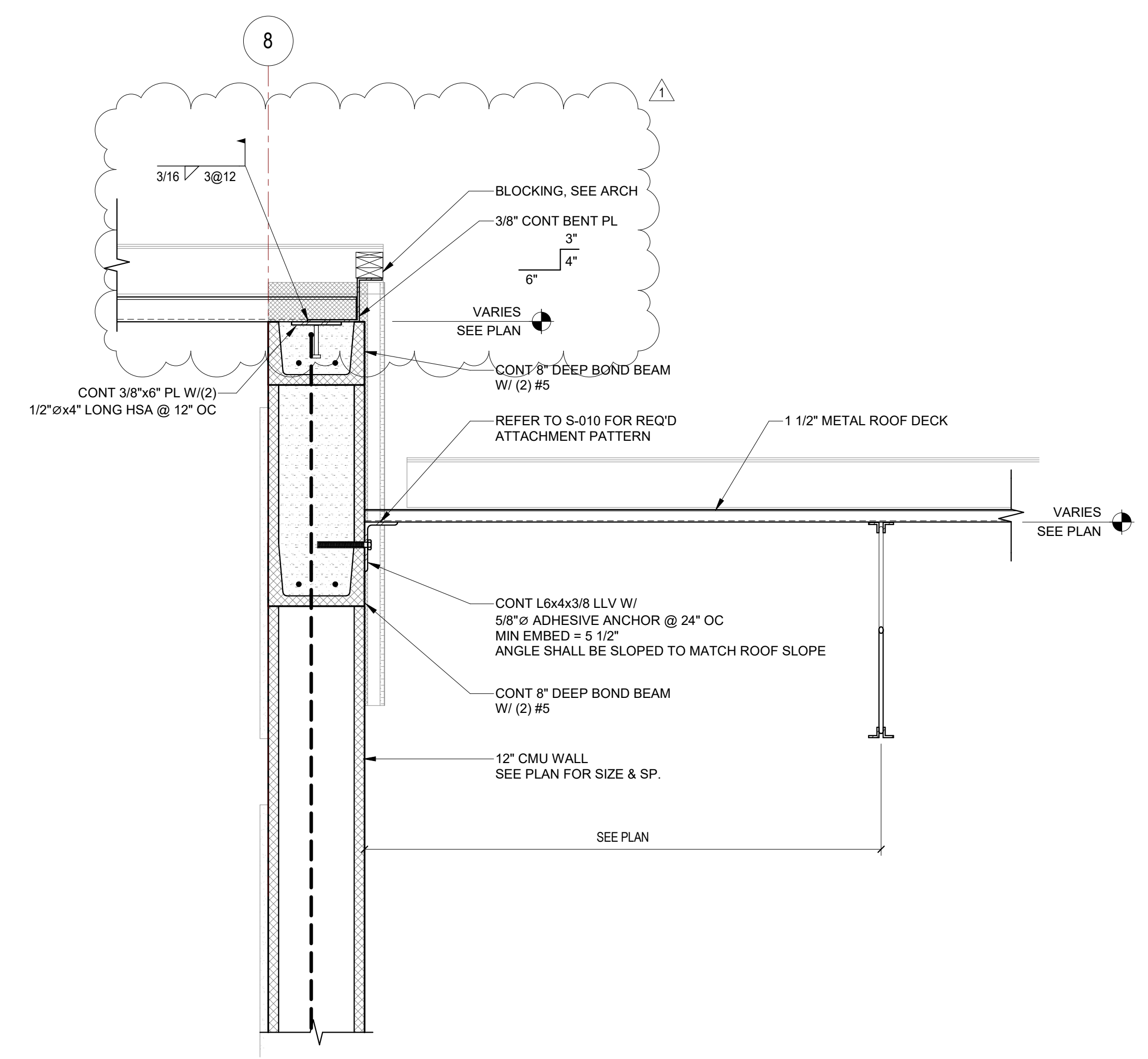
- FLOOR FRAMING NOTES:**
- TOP OF 2" TOPPING SLAB ELEVATION = 14'-4". TOPPING SLAB SHALL BE REINFORCED WITH 6x6 W1.4XW1.4 W.W.F.
 - BOTTOM OF HOLLOW CORE PLANKS ELEVATION = 13'-4". TOP OF STEEL SHALL BE AT BOTTOM OF HOLLOW CORE PLANKS, U.O.N.
 - INDICATES MOMENT CONNECTION. SEE DETAIL 5/S-405. FABRICATOR TO DESIGN AND DETAIL CONNECTION FOR THE MOMENT INDICATED ON THE PLAN "M&R". IF NO MOMENT IS PROVIDED, THE CONNECTION SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY OF THE BEAM.
 - ↑ DENOTES TOP OF DECK BEARING ELEVATION ABOVE FIN. FLOOR ELEVATION = 0'-0" U.O.N.
 - L# DENOTES EXTERIOR LOAD BEARING LINTEL. SEE S-401 FOR SCHEDULE.
 - BEAM VERTICAL SHEAR DENOTED BY 'X'. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 10k VERTICAL SHEAR U.O.N. ON PLAN. NOTED REACTIONS ARE SERVICE UNFACTORED LOADS.
 - PL# DENOTES BEAM BEARING PL. SEE DETAIL 2/S-401.
 - SEE DETAIL 6/S-401 FOR BRACING OF NON-LOAD BEARING CMU WALLS EXTENDING TO BOTTOM OF HOLLOW CORE. INTERIOR NON-LOAD BEARING WALLS NOT EXTENDING TO DECK SHALL BE BRACED BY INTERSECTING WALL OR ANGLE BRACING TO JOIST AT 12'-0" O.C. MAX. SEE DETAIL 5/S-401. COORDINATE WITH ARCH'L THE WALLS EXTENDING TO THE DECK.
 - HOLLOW CORE PENETRATION. REFER TO MECHANICAL DRAWINGS FOR OPENING SIZE AND FINAL LOCATIONS. HOLLOW CORE SUPPLIER SHALL DESIGN HOLLOW CORE PLANKS ACCOUNTING FOR OPENINGS DENOTED ON PLANS.
 - ELEC. TRANSFORMER HUNG FROM UNDERSIDE OF HOLLOW CORE PLANKS ON UNISTRUT FRAME. REFER TO ELEC DWGS FOR FINAL EQUIPMENT LOCATION. HOLLOW CORE PLANKS SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE EQUIPMENT AND FRAME. COORD. W/ EQUIPMENT SUPPLIER FOR FINAL EQUIPMENT DIMENSIONS AND WEIGHT.

1 SECOND FLOOR FRAMING PLAN - AREA F
SCALE: 1/8" = 1'-0"

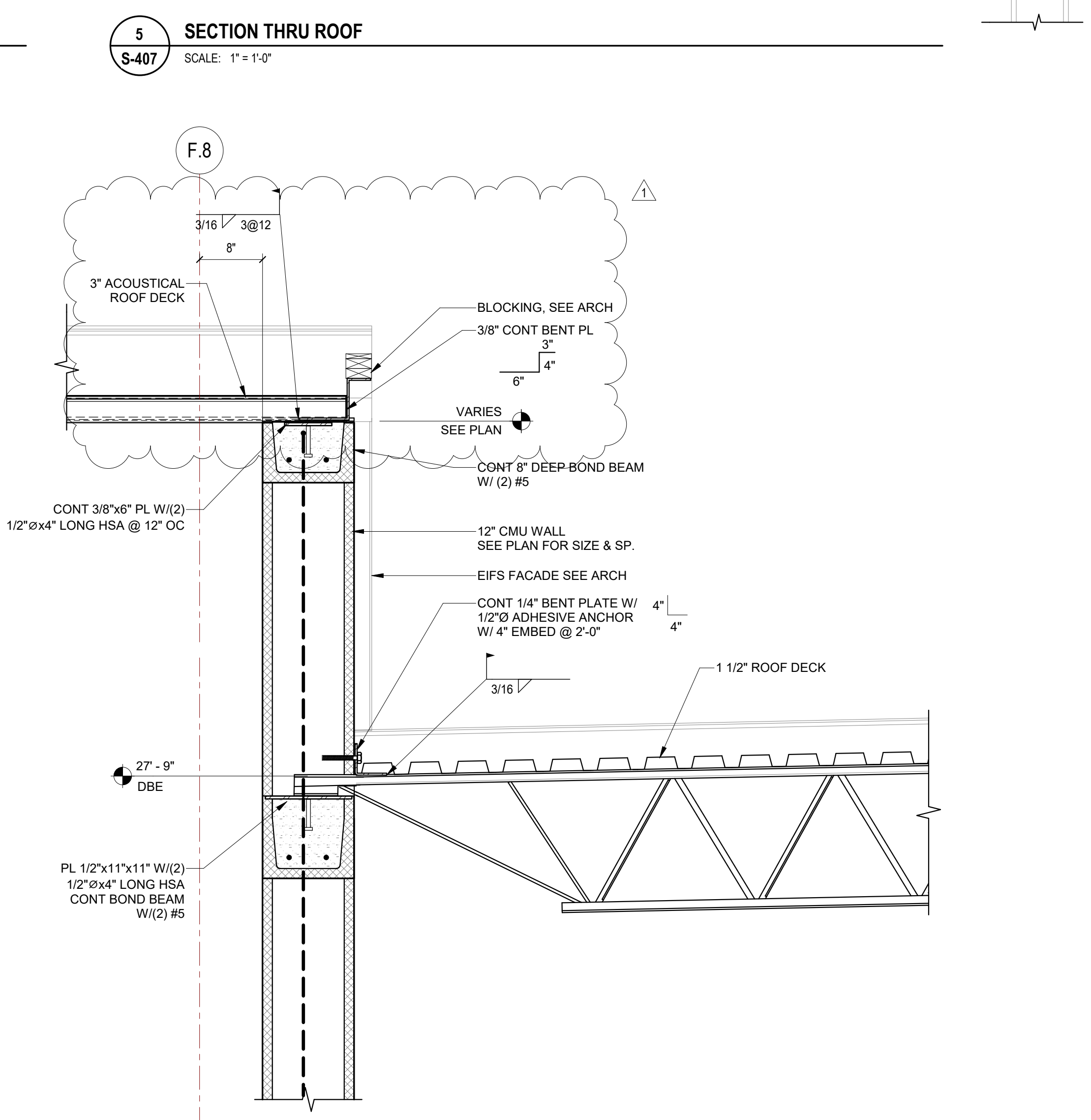


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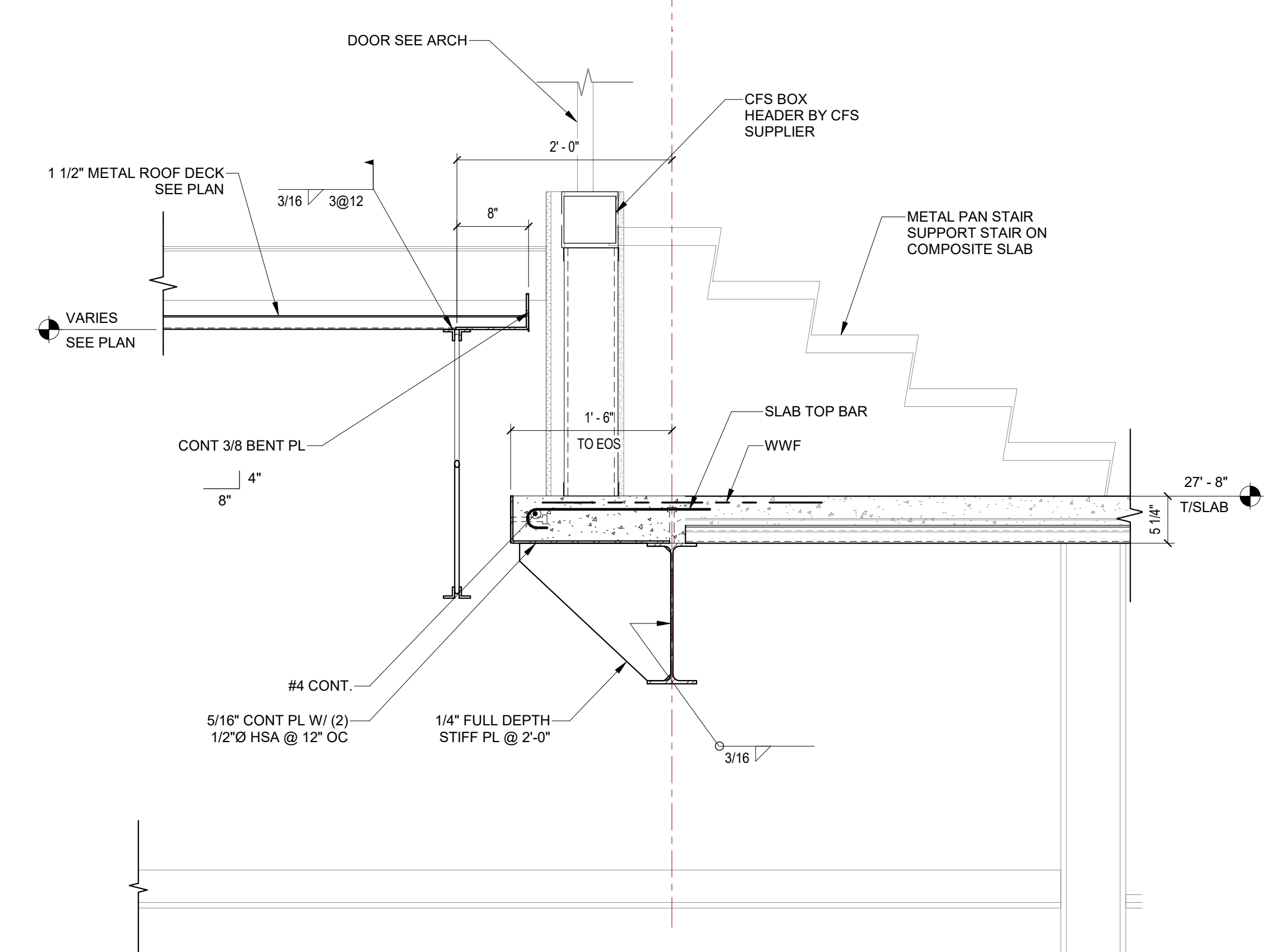
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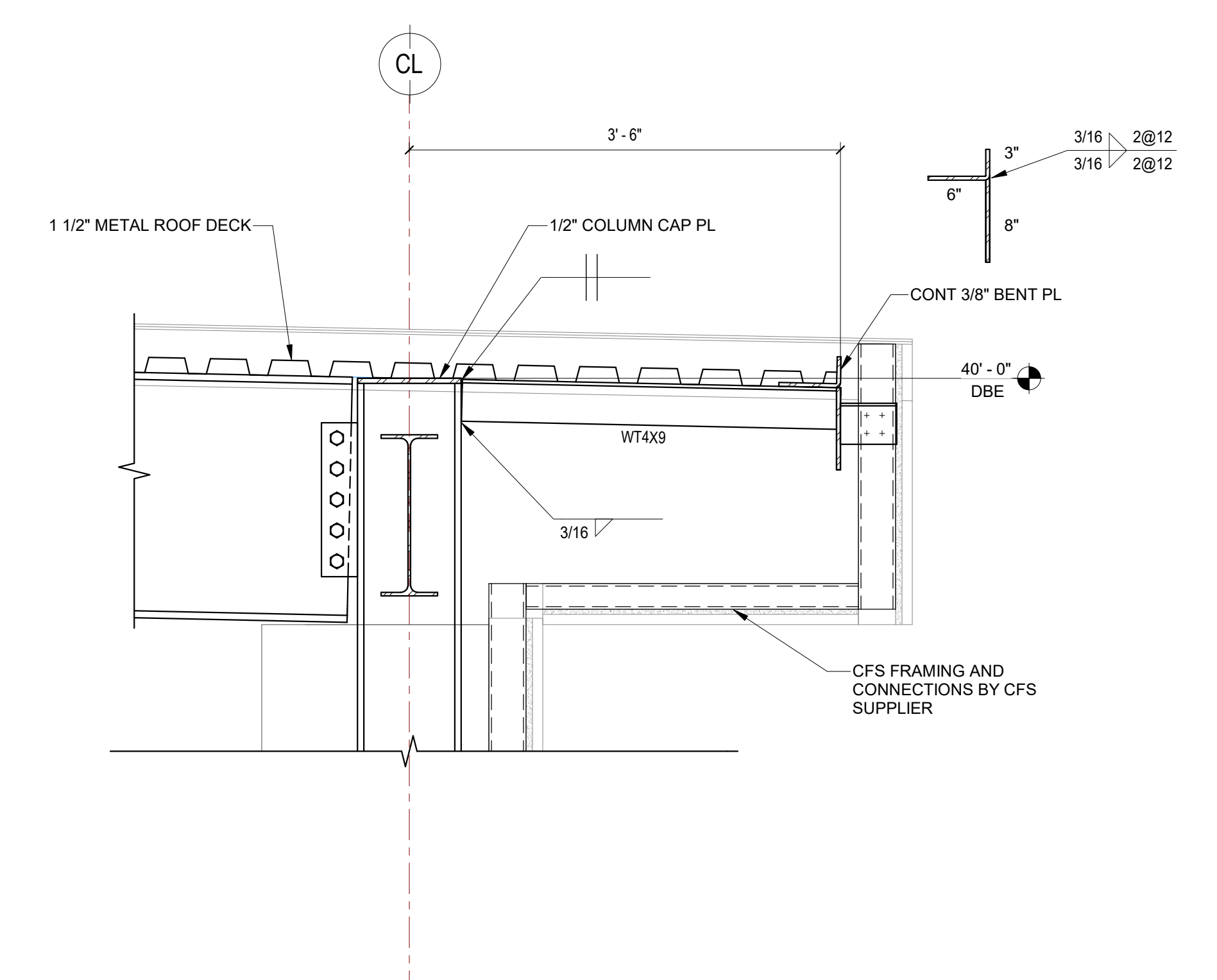
1 SECTION THRU ROOF
SCALE: 1" = 1'-0"



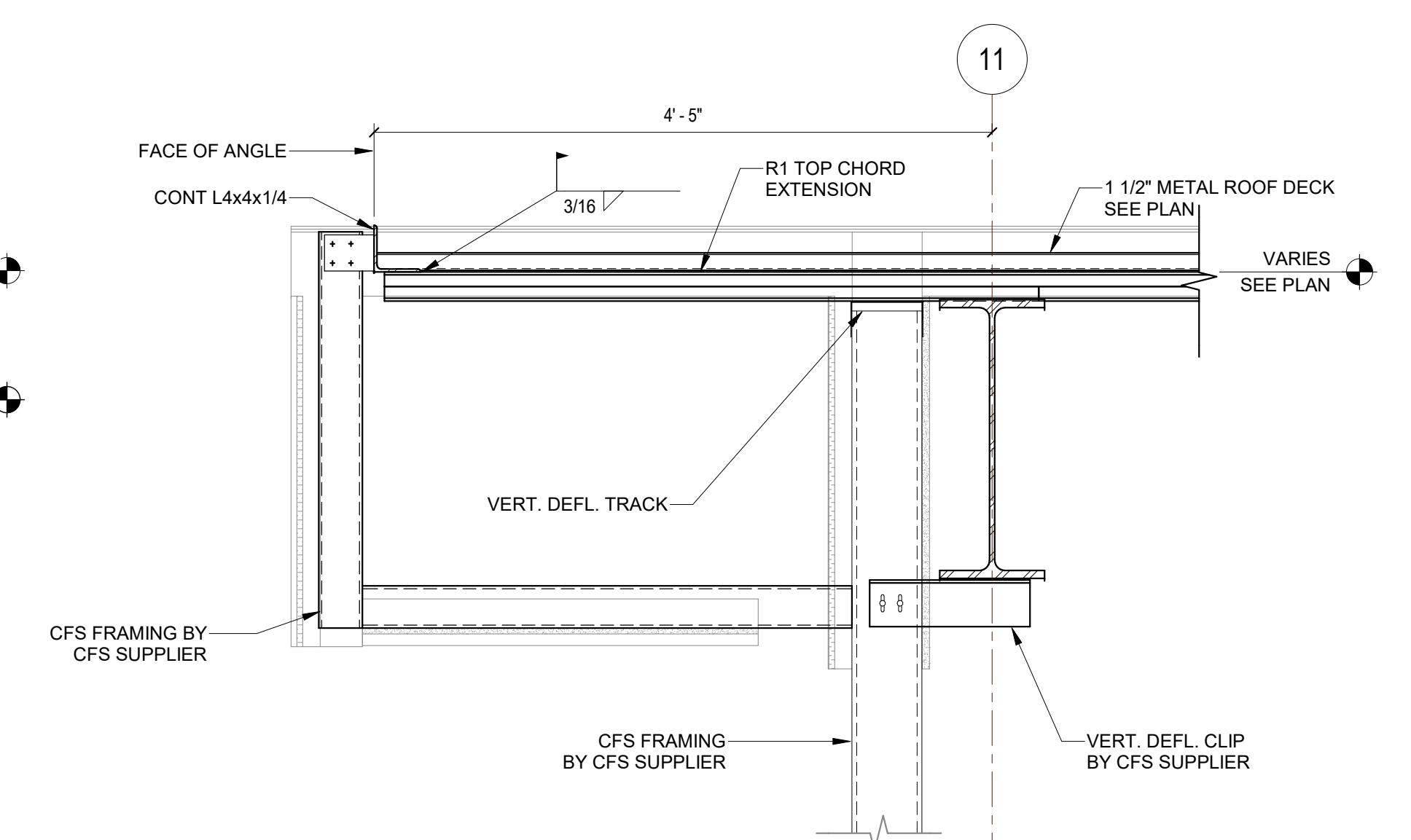
2 SECTION THRU ROOF
SCALE: 1" = 1'-0"



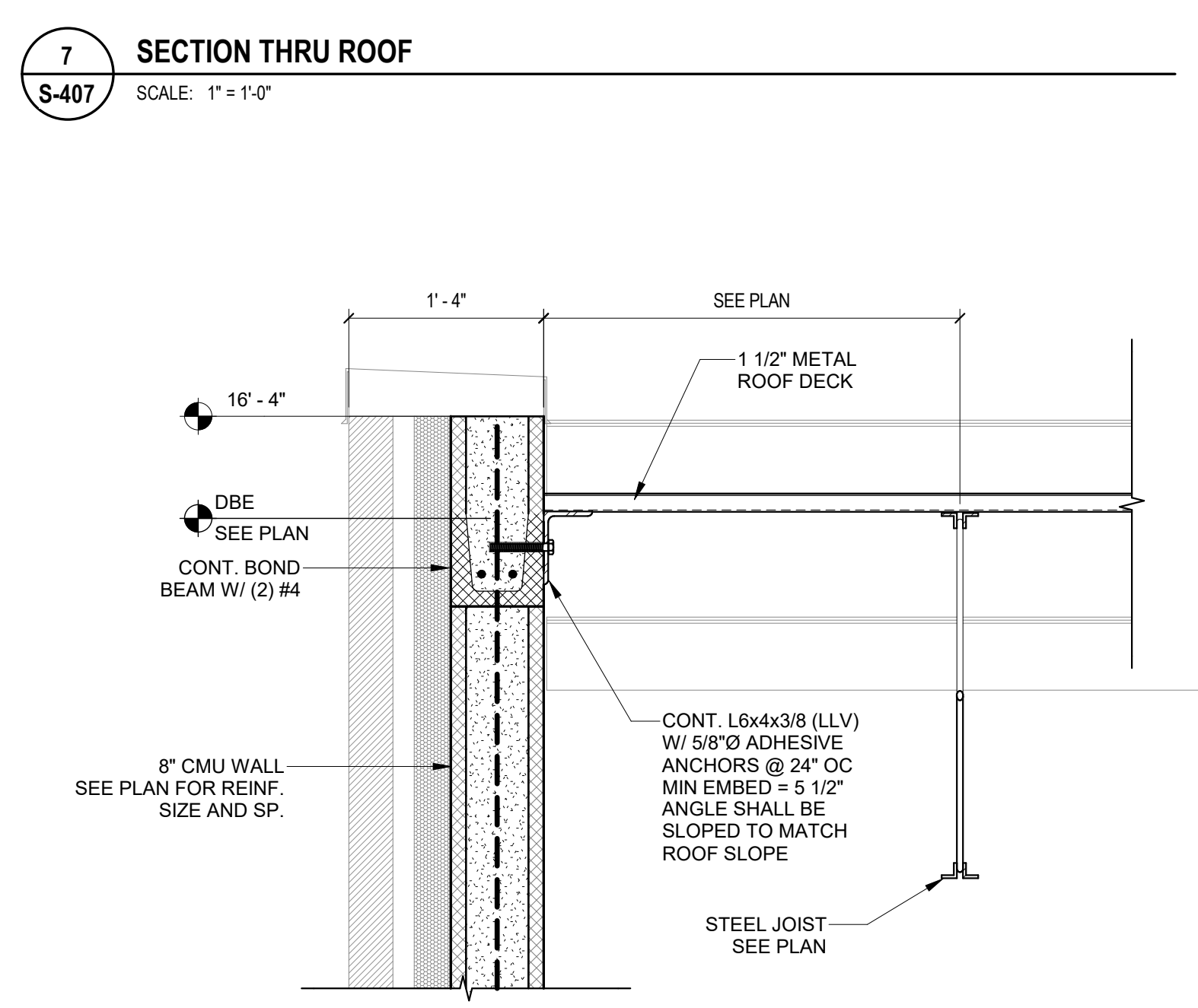
3 SECTION THRU ROOF
SCALE: 1" = 1'-0"



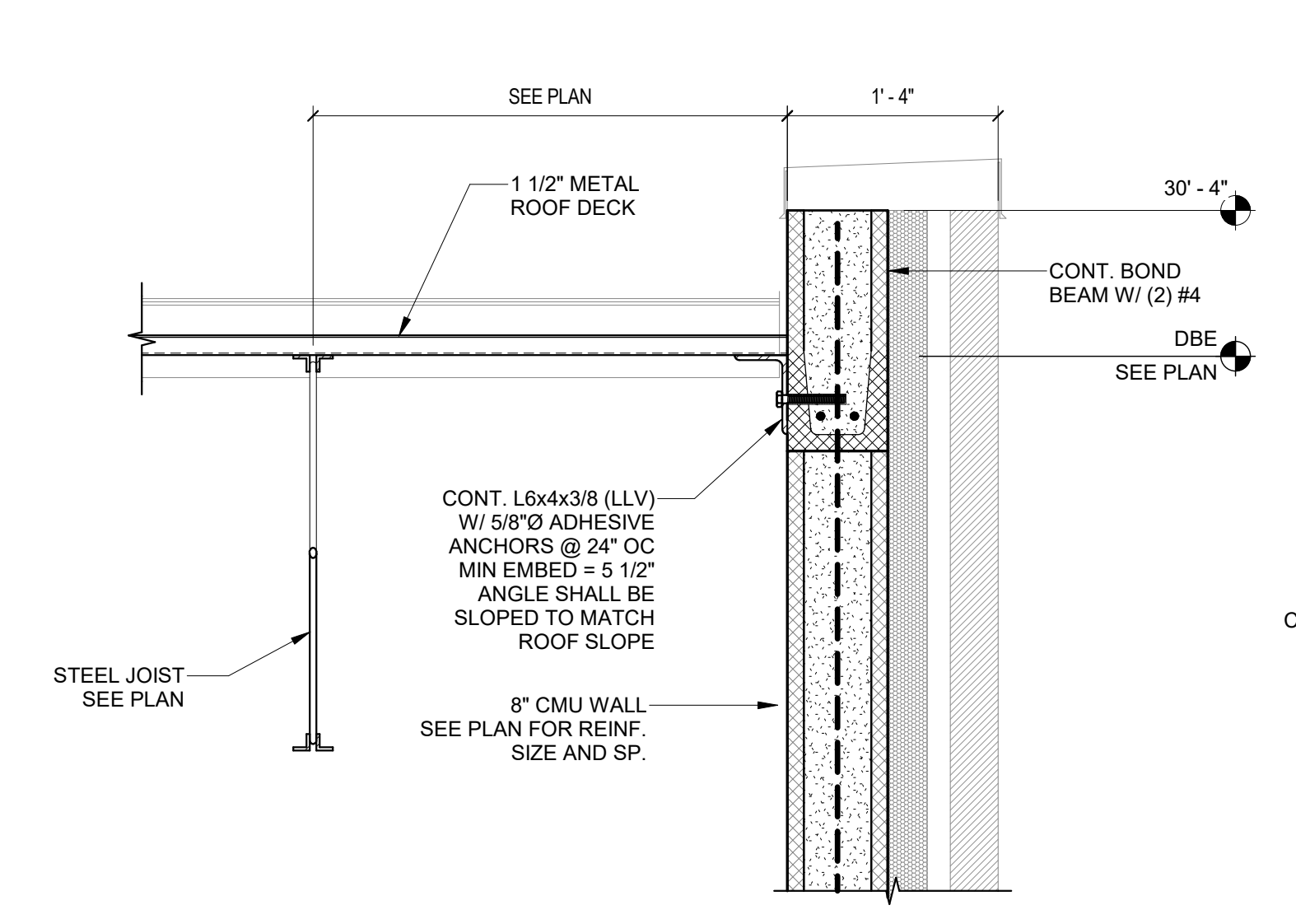
4 SECTION THRU CLERESTORY ROOF
SCALE: 1" = 1'-0"



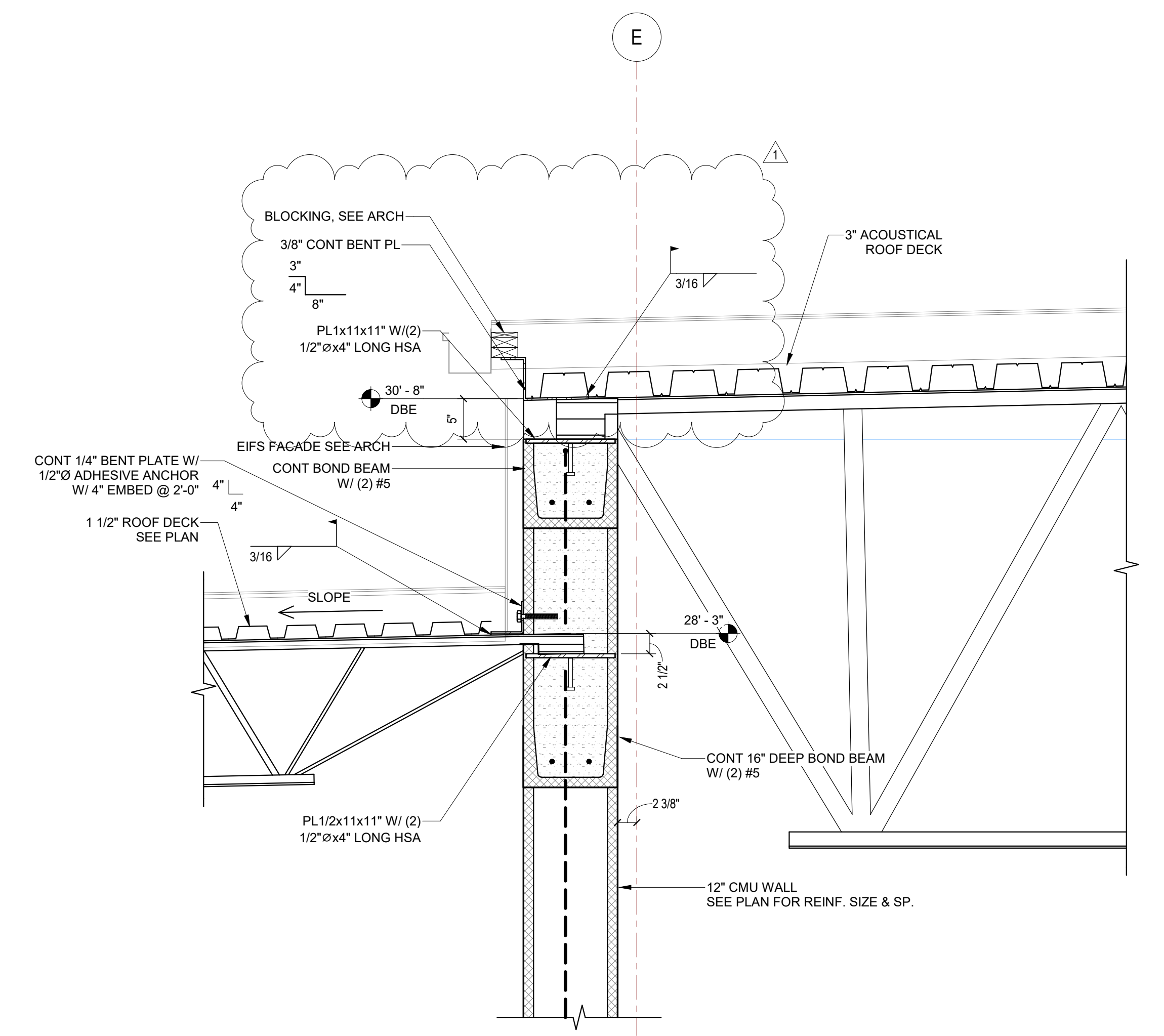
5 SECTION THRU ROOF
SCALE: 1" = 1'-0"



6 SECTION THRU ROOF
SCALE: 1" = 1'-0"



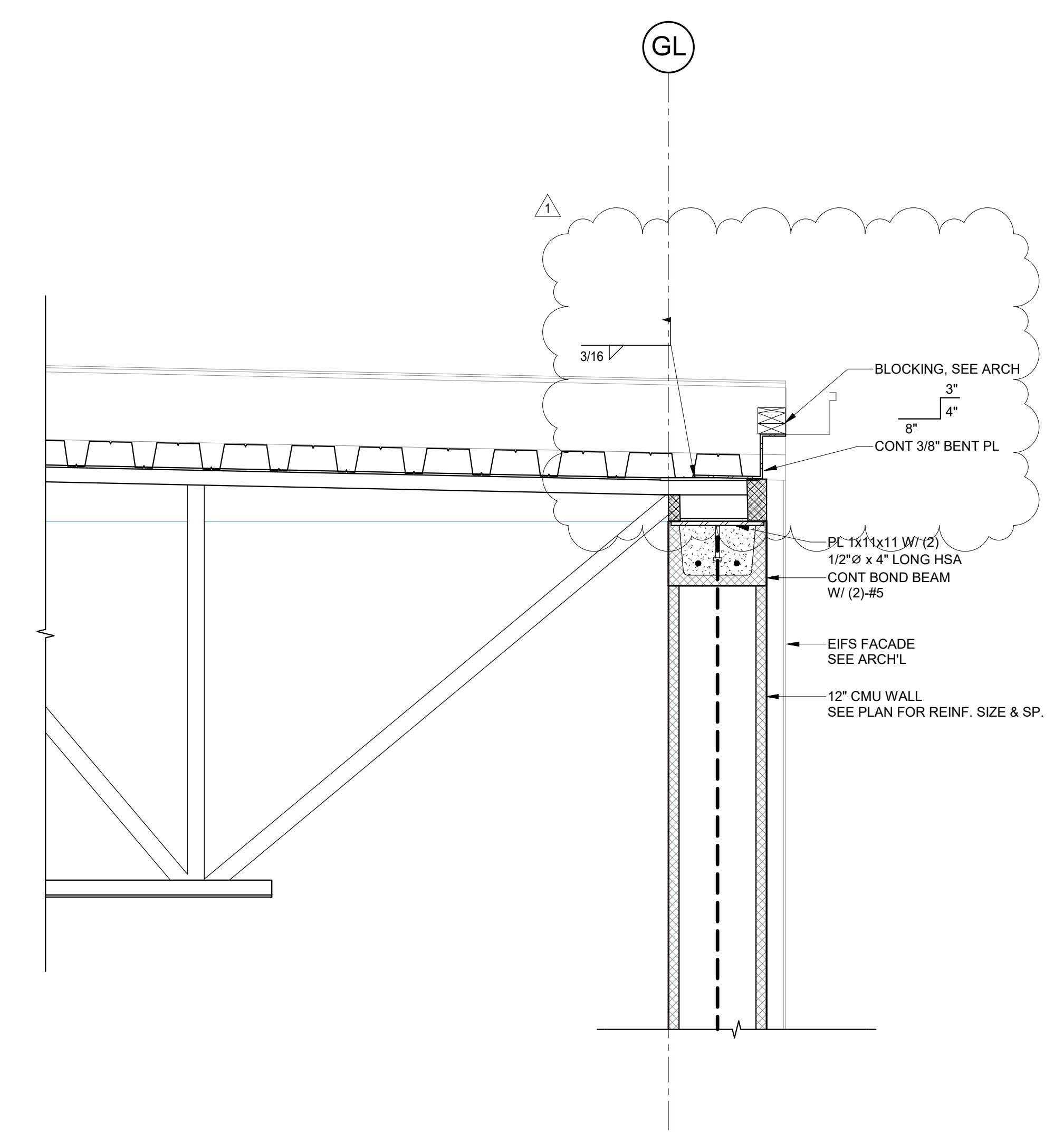
7 SECTION THRU ROOF
SCALE: 1" = 1'-0"



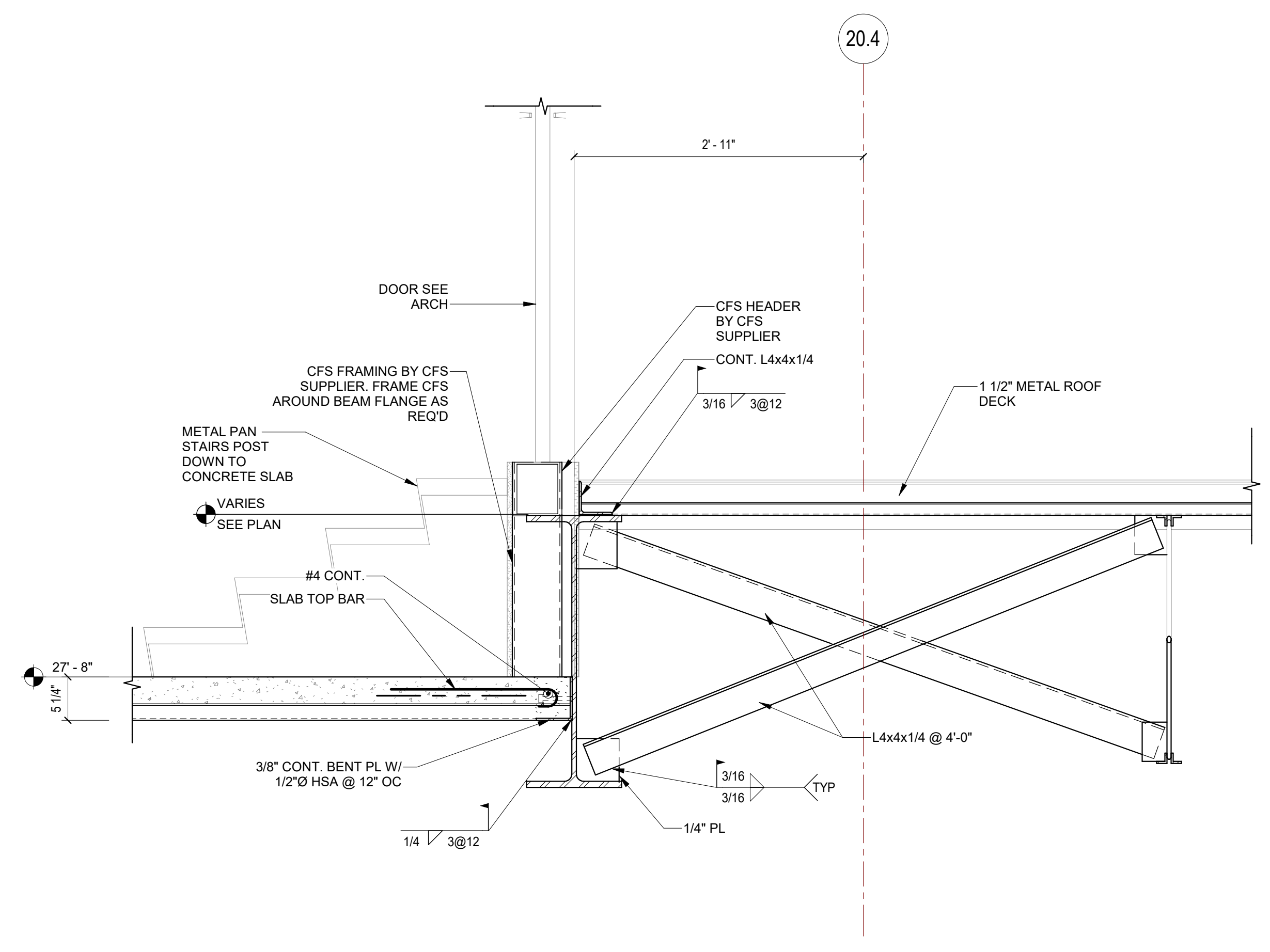
8 SECTION THRU ROOF
SCALE: 1" = 1'-0"

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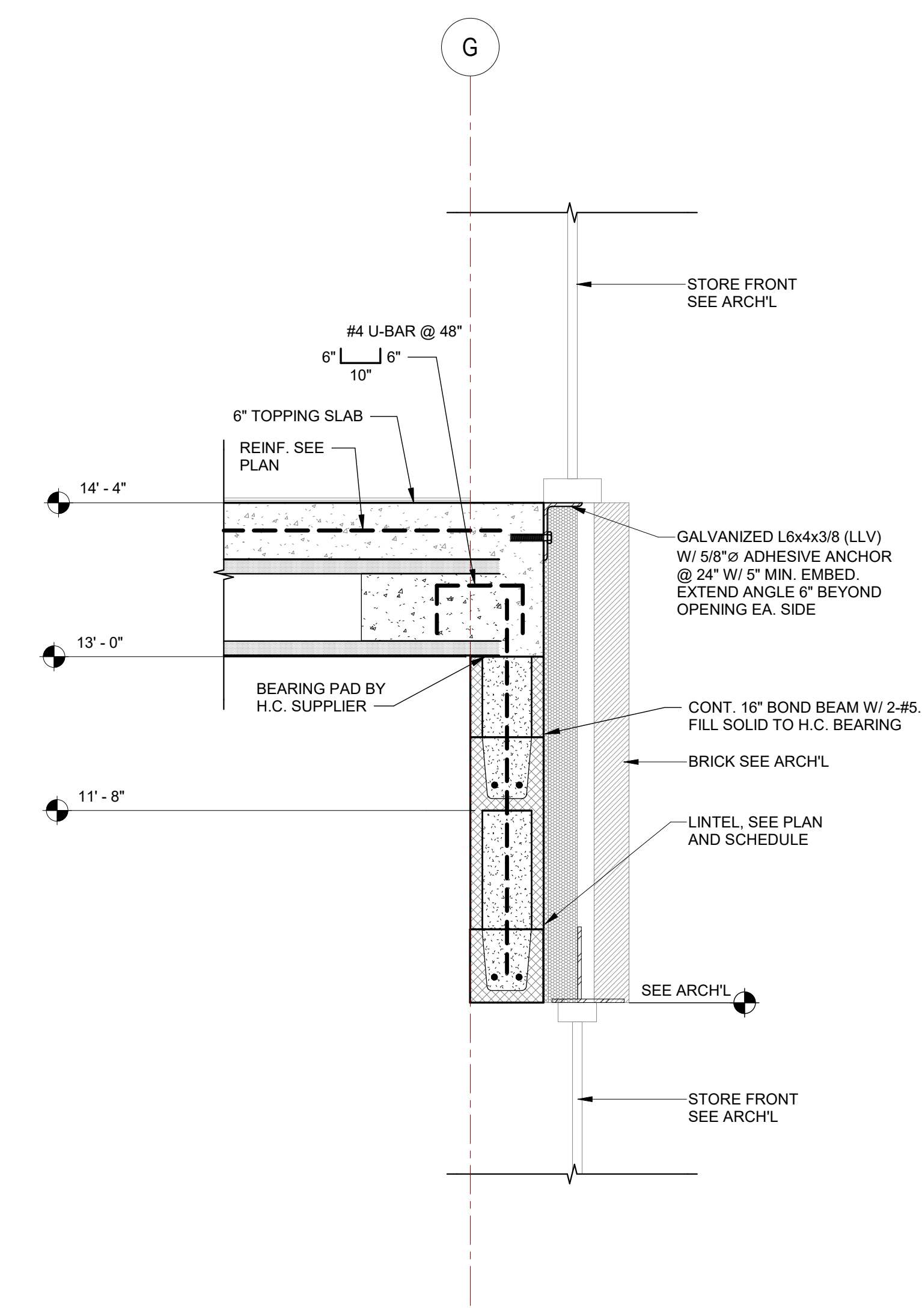
CONSTRUCTION
DOCUMENTS



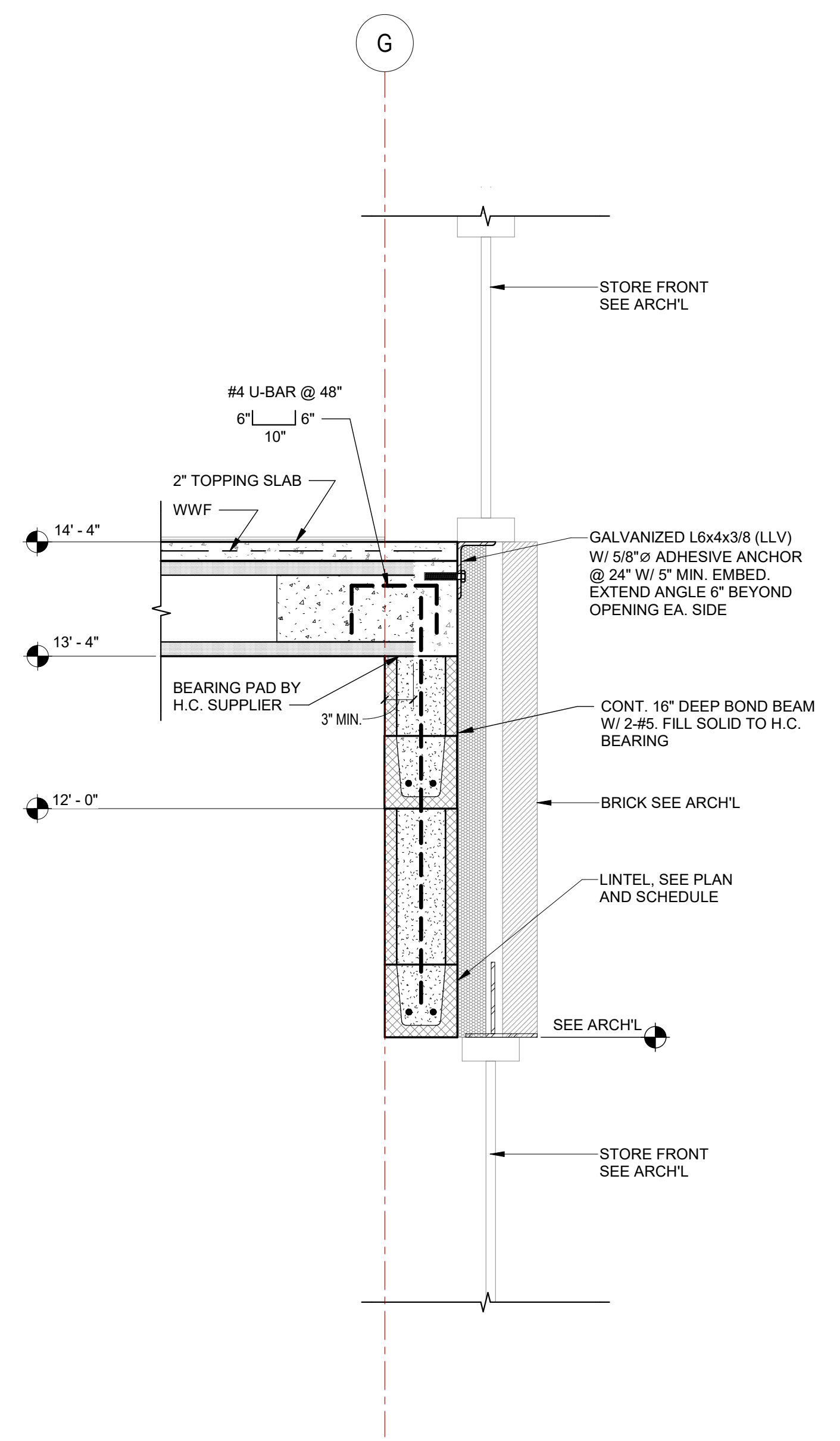
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S-411 FRAMING DETAIL
SCALE: 1" = 1'-0"



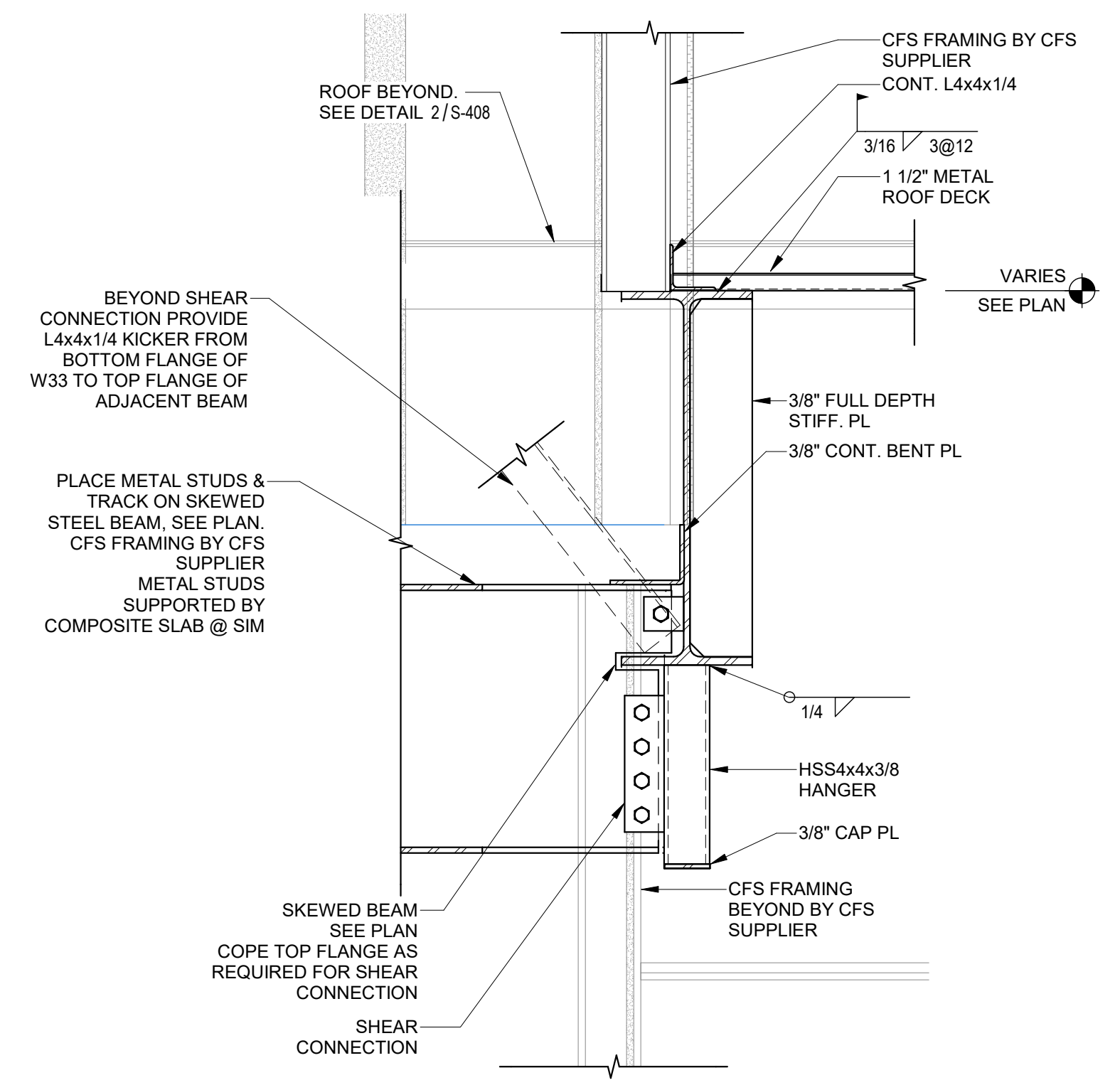
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S-411 FRAMING DETAIL
SCALE: 1" = 1'-0"



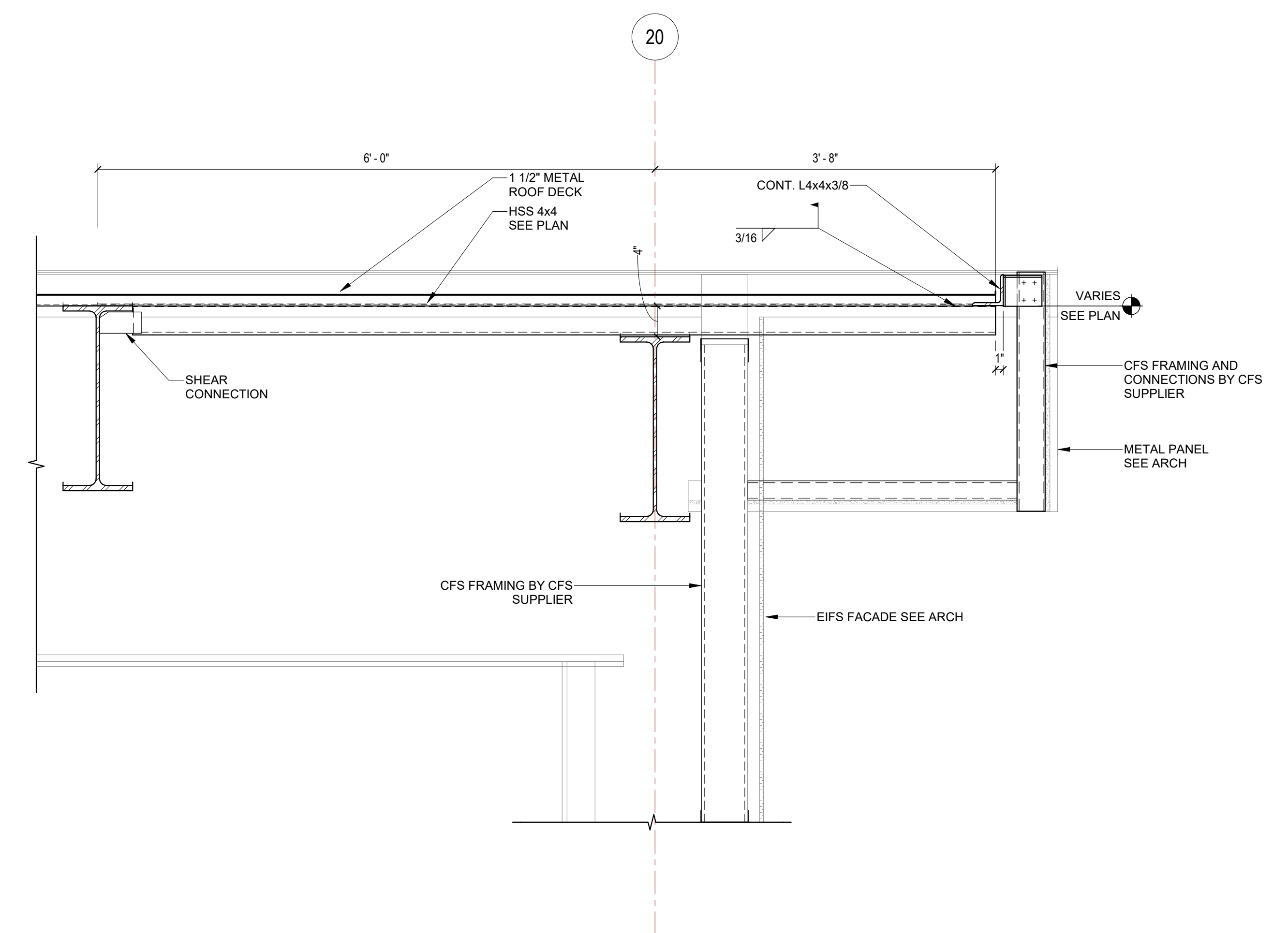
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S-411 SECTION THRU FLOOR
SCALE: 1" = 1'-0"



3
S-411 SECTION THRU FLOOR
SCALE: 1" = 1'-0"



2
S-411 DETAIL
SCALE: 1" = 1'-0"



1
S-411 HIGH ROOF SECTION
SCALE: 1" = 1'-0"

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PAMLICO COUNTY
PAMLICO 6-12 SCHOOL
601 Main Street, Bayboro, NC, 28515



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FRAMING DETAILS

SECTION 09 65 00
RESILIENT FLOORING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Resilient tile flooring.
 - 2. Resilient wall base - non-vented type.
 - 3. Resilient wall base - vented type.
 - 4. Resilient stair covering.
- B. Related Requirements:
 - 1. Section 03 30 00 - Cast-In-Place Concrete: Finishing of floor slab for resilient floor application.
 - 2. Sections indicating Plumbing, Electrical and Mechanical as related to floor installed devices such as drains, utility boxes, devices, and trim.

1.2 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM D2240 - Standard Test Method for Rubber Property-Durometer Hardness; 2015, Reapproval 2021.
 - 2. ASTM D3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader); 2021.
 - 3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023c.
 - 4. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, Editorial Revisions 2020.
 - 5. ASTM E662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials; 2021a, Editorial Revisions.
 - 6. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring; 2006, Reapproval 2018.
 - 7. ASTM F386 - Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces; 2017, Reapproval 2022.
 - 8. ASTM F410 - Standard Test Method for Wear Layer Thickness of Resilient Floor Coverings by Optical Measurement; 2008, Reapproval 2022.
 - 9. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022.
 - 10. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004, Reapproval 2018.
 - 11. ASTM F1344 - Standard Specification for Rubber Floor Tile; 2021a.
 - 12. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile; 2020.
 - 13. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.
 - 14. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2023.
 - 15. ASTM F1913 - Standard Specification for Vinyl Sheet Floor Covering Without Backing; 2019.
 - 16. ASTM F1914 - Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering; 2018.
 - 17. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.

18. ASTM F2195 - Standard Specification for Linoleum Floor Tile; 2018, Reapproval 2023.
 19. ASTM F2421 - Standard Test Method for Measurement of Resilient Floor Plank by Dial Gauge; 2019a.
- B. National Fire Protection Association (NFPA):
1. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

1.3 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data describing physical and performance characteristics; include manufacturer's full range of sizes, patterns, colors, and finishes available; include moldings, transition and edge trim as indicated on Drawings and otherwise recommended by manufacturer of Resilient Floor products; include installation instructions.
- C. Shop Drawings: Submit shop drawings indicating each product, locations, layouts, dimensions, patterns, trim details, and interface with adjacent work by others.
- D. Samples for Initial Selection: Two manufacturer's complete set of color samples illustrating the full range of sizes, patterns, colors, and finishes available; submit for Architect's initial selections.
- E. Samples for Verification: From the Architect's initial selections, prepare and submit two samples for each selection; samples to be same product material type indicated for final Work; each sample 4 x 4 inches. Where finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.

1.4 CLOSEOUT SUBMITTALS

- A. Section 01 78 23 - Operation and Maintenance Data.
- B. Operation and Maintenance Data: Submit maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- B. Installer: Company specializing in performing Work of this section with minimum three years documented experience.

1.6 MOCK-UPS

- A. Section 01 40 00 - Quality Requirements: Mock-up requirements.
- B. At project site, install mock-up using acceptable products and manufacturer approved installation methods, including concrete substrate testing. Obtain Architect's approval of mock-up.
 1. Mock-up Size and Locations: One typical room; location as indicated by Architect.
 2. Mock-up may be incorporated into the final construction upon Architect's approval for mock-up to remain.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.

- B. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.
- C. Store all materials off the floor in an acclimatized, weather-tight space.
- D. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- E. Protect roll materials from damage by storing on end.
- F. Do not double stack pallets.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements: Requirements before, during and after Work.
- B. Store materials for not less than 48 hours prior to installation in area of installation at temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

1.9 WARRANTY

- A. Section 01 77 00 - Closeout Procedures: Product warranties.
- B. Vinyl Composition Tile: Provide five (5) year manufacturer's warranty.
- C. Luxury Vinyl Tile:
 - 1. Flooring Tiles of Class III, Type B - Embossed Surface with minimum of 0.020 inch (20 mil) Wear Layer: Provide fifteen (15) year manufacturer's warranty.

1.10 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Section 01 60 00 - Product Requirements: Extra materials, spare parts, and maintenance products.
 - 1. Resilient Flooring:
 - a. Luxury Vinyl Tile (LVT) Flooring: 100 sq ft of each type and color.
 - b. All Other Resilient Flooring: 50 sq ft of each type and color.
 - 2. Resilient Wall Base: 100 lineal feet of each type and color.
 - 3. Resilient Stair Covering Materials: 5 percent of installed materials of each type and color.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire Performance Characteristics: Unless otherwise indicated, provide resilient flooring products with the following fire performance characteristics in accordance with the standards. Testing to be by a certified testing laboratory or other testing agency acceptable to authorities having jurisdiction:
 - 1. Surface Burning Characteristics: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
 - 2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter (Class 1) in accordance with ASTM E648 or NFPA 253.
 - 3. Smoke Density: 450 or less in accordance with ASTM E662.

2.2 RESILIENT TILE FLOORING

- A. Luxury Vinyl Tile (LVT):
 - 1. LVT-1

- a. Basis of Design: Tarkett – Event Abstract – Peme Melange – 11188 Pietro - 18" x 18" x 2.5mm
 - b. Alternate 1 - Mohawk Group - Living Local Collection – Chromascope C0159 – Alabaster 120 – 12” x 24” x 2.5mm
 - c. Alternate 2 - Interface - Scorpio - Silverlight A01716 - 50cm x 50cm x 4.5 mm
 - d. Alternate 3 – Patcraft – CMYK 1426V – Smoke-V2 00530 – 12” x 24” x 2.5mm
2. LVT-2
- a. Basis of Design: Tarkett – Event Abstract – Peme Melange – 11189 Onyx - 18" x 18" x 2.5mm
 - b. Alternate 1 – Mohawk Group – Living Local Collection – Chromascope C0159 – Dire Wolf 960 – 12” x 24” x 2.5mm
 - c. Alternate 2 - Interface - Scorpio - Pewter A01717 - 50cm x 50cm x 4.5mm
 - d. Alternate 3 – Patcraft – CMYK 1426V – Obsidian-V2 00590 – 12” x 24” x 2.5mm
3. LVT-2A
- a. Basis of Design: Tarkett – Event Abstract – Peme Melange – 11189 Onyx - 18" x 18" x 4.5mm
 - b. Alternate 1 – Mohawk Group – Living Local Collection – Chromascope C0159 – Dire Wolf 960 – 12” x 24” x 4.5mm
 - c. Alternate 2 - Interface - Scorpio - Pewter A01717 - 50cm x 50cm x 4.5mm
 - d. Alternate 3 – Patcraft – CMYK 1426V – Obsidian-V2 00590 – 12” x 24” x 4.5mm
4. LVT-3
- a. Basis of Design: Tarkett – Event Abstract – Peme Melange – 11183 Daisy - 18" x 18" x 2.5mm
 - b. Alternate 1- Mohawk Group – Living Local Collection – Chromascope C0159 – Yellow Bird 360 – 12” x 24” x 2.5mm
 - c. Alternate 2 - Interface - Scorpio - Yellow A01701 - 50cm x 50cm x 4.5mm
 - d. Alternate 3 – Patcraft – CMYK 1426V – Sungold-V2 00230 – 12”x24”x2.5mm
5. LVT-4
- a. Basis of Design: Tarkett - ID Latitude Wood - Laurel Oak PLWD 3523 LW - 6" x 48"x 2.5mm
 - b. Alternate 1 - Mohawk Group – Living Local Collection – Premium Wood C0194 – Almond 330 – 7.72” x 51.97” x 2.5mm
 - c. Alternate 2 - Interface - Level Set Natural Woodgrains - Beech A00204 - 25cm x 1m x 4.5mm
 - d. Alternate 3 – Patcraft – True Species I733V – Light Rustic-V3 00740 – 18cm x 120cm x 2.5mm

2.3 RESILIENT WALL BASE - NON-VENTED TYPE

- A. Manufacturers:
1. Mannington Commercial.
 2. Johnsonite, a Tarkett Company.
 3. Roppe Corporation.
 4. Flexco
 5. Substitutions: Section 01 60 00 - Product Requirements.

- B. Basis of Design:
 - 1. Flexco
- C. Resilient Non-vented Wall Base:
 - 1. Comply with ASTM F1861.
 - a. Type:
 - 1) Type TS - Rubber, vulcanized thermoset.
 - b. Group:
 - 1) Group 1 - Solid.
 - c. Style:
 - 1) Style B - Top set, Cove.
 - 2) Style A - Top set, Straight.
 - 2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter (Class 1), when tested in accordance with ASTM E648 or NFPA 253.
 - 3. Smoke Density: 450 or less in accordance with ASTM E662.
 - 4. Height:
 - a. 4 inches.
 - 5. Thickness: 0.125 inch thick.
 - 6. Finish: Satin.
 - 7. Length: Roll.
 - 8. Accessories: Premolded external corners and end stops.
 - 9. Colors: Solid.
 - a. As indicated on Drawings.

2.4 RESILIENT WALL BASE - VENTED TYPE

- A. Manufacturers:
 - 1. Johnsonite, a Tarkett Company (Basis of Design).
 - 2. Mannington Commercial.
 - 3. Roppe Corp.
 - 4. Substitutions: Section 01 60 00 - Product Requirements.
- B. Basis of Design:
 - 1. Johnsonite, a Tarkett Company.
- C. Resilient Vented Cove Wall Base:
 - 1. Comply with ASTM F1861.
 - a. Type:
 - 1) Type TS - Rubber, vulcanized thermoset.
 - b. Group:
 - 1) Group 1 - Solid.
 - c. Style - Coved with semi-circular vents on back of vertical leg.
 - 2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter (Class 1), when tested in accordance with ASTM E648 or NFPA 253.
 - 3. Smoke Density: 450 or less in accordance with ASTM E662.
 - 4. Height:
 - a. 4 inches.
 - 5. Thickness: 5/16 inch thick coved profile with a 3/8 inch thick toe.
 - 6. Finish: Satin.
 - 7. Length: 8 feet.
 - 8. Accessories: Premolded external corners and end stops.
 - 9. Colors: Solid.
 - a. As indicated on Drawings.

2.5 RESILIENT STAIR COVERING

- A. Manufacturers:
 - 1. Flexco Corporation.
 - 2. Interface, Inc.
 - 3. Johnsonite, a Tarkett Company.
 - 4. Mannington Commercial.
 - 5. Substitutions: Section 01 60 00 - Product Requirements.
- B. Basis of Design:
 - 1. Flexco Corporation.
- C. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter (Class 1) in accordance with ASTM E648 or NFPA 253.
- D. Smoke Density: 450 or less in accordance with ASTM E662.
- E. Material:
 - 1. Rubber.
- F. Covering Style:
 - 1. Nosing/Tread Style: Single piece covering full width and depth of stair nosing and tread; nosing not less than 1-3/4 inches deep.
- G. Nosing:
 - 1. Thickness: Minimum 0.210 inch.
 - 2. Angle and profile to match profile of riser below for full adhesion without gaps that could cause trip hazard.
 - 3. Integral non-slip abrasive nose strip; contrasting color complying with visually impaired requirements.
 - a. Width to be 2 inches.
 - 4. Integral photoluminescent (glow-in-the-dark) nose strip; 2 inches wide (1 inch along nose vertical face and 1 inch along nose top); contrasting color complying with visually impaired requirements.
- H. Tread Design Pattern:
 - 1. Round discs; raised.
- I. Stair Landings Flooring: Same manufacturer, material, color, and pattern as the Stair Covering.
- J. Colors: Integral throughout product.
 - 1. To be selected by Architect from manufacturer's full range.

2.6 ACCESSORIES

- A. Subfloor Filler: Factory mixed latex type recommended by manufacturers of flooring and adhesive materials and compatible with substrate materials and conditions.
- B. Primers and Adhesives: Waterproof type recommended by manufacturer of flooring material and compatible with substrate materials and conditions.
- C. Moldings, Transition and Edge Strips: As indicated on Drawings or as otherwise selected by Architect from Product Data submittals.
- D. Feature Strips: Of same material as tile. Width as indicated on Drawings.
- E. Cleaner, Sealer and Wax/Polish: Provide finishing products, equipment, and application as recommended by flooring material manufacturer.
 - 1. Cleaner: As required for cleaning.

2. Sealer: 2 coats minimum.
3. Wax/Polish: 4 coats minimum.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.
- B. Verify compliance with the requirements in the PART 1, ENVIRONMENTAL REQUIREMENTS article.
- C. Verify that existing conditions are as required before starting work of the Section.
- D. Verify that the assembled and finished floor system of this Section will finish flush with floor boxes, inserts, devices, and adjacent finished floors. This flush transition requirement cannot be over emphasized. The transition joints must be tight and flush to eliminate trip hazards.
- E. Verify that floor boxes, inserts, utilities, and other floor devices are installed in correct locations.
- F. Verify that overhead work trades have finished their work in the flooring areas.
- G. Verify that the building is dry, all openings are closed in, adequate ventilation is provided, and permanent heating and air conditioning is installed operating and providing the required conditioning of the air in the work area.
- H. Verify that surfaces are free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.
- I. Verify that the concrete finish has been steel troweled to a true level and finished smooth and straight to a tolerance of 1/4 inch in a 10 foot radius. High spots are to be ground level and low spots filled in with approved leveling compounds to achieve the required elevation and level flatness.
 1. Sloped Concrete: Levelness is relative to slopes indicated such as slopes to drains.
- J. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive wall base material.
- K. Verify that the concrete substrate is dry in accordance with industry standard testing procedures, free of foreign materials, and broom cleaned.
- L. Cementitious Substrate Surfaces Testing: Verify that substrates are ready for flooring installation by testing for moisture and alkalinity (pH).
 1. Alkalinity (pH) Testing: ASTM F710. Measurement for pH range is to be not less than 7 pH and not more than 9 pH, unless written recommendations of flooring manufacturer or adhesive manufacturer are more stringent.
 2. Internal Relative Humidity Testing: ASTM F2170. Perform test using in situ probes. Humidity level of substrates is to measure no more than 75 percent relative humidity level, unless written recommendations of flooring manufacturer or adhesive manufacturer are more stringent.
 3. Moisture Vapor Emission Testing: ASTM F1869. Perform anhydrous calcium chloride test. Moisture Vapor Emission Rate (MVER) from the slab is to be less than or equal to 3 lbs of water per 1,000 sf in 24 hours, unless written

- recommendations of flooring manufacturer or adhesive manufacturer are more stringent.
4. Conduct tests by an independent testing agency acceptable to Owner.
- M. Do not proceed with installation work until noncompliant conditions have been corrected.

3.2 PREPARATION

- A. Section 01 73 00 - Execution: Prepare field conditions and existing construction for installation of work of this Section.
- B. Prepare materials to be installed and equipment to be used during installation.
- C. Prepare substrates to receive work as recommended by work product manufacturers.
- D. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- E. Prohibit traffic until filler is cured.
- F. Clean substrate.
- G. Apply primer as recommended by resilient flooring product manufacturer and where required to prevent "bleed-through" or interference with adhesion.

3.3 INSTALLATION

- A. Section 01 73 00 - Execution: Related to installation of Work.
- B. General:
1. Starting installation constitutes acceptance of sub-floor conditions.
 2. Install in accordance with manufacturer's written instructions and recommendations to ensure warranty requirements.
 3. Spread only enough adhesive to permit installation of materials before initial set.
 4. Fit joints and butt seams tightly.
 5. Set flooring in place, press with heavy roller to attain full adhesion. Sound top surface of installed flooring material to ensure there are no hollow sounds (hollow sound may indicate flooring that is not fully adhered/bonded to substrate).
 6. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door (door in closed position).
 7. Install edge transition strips at unprotected or exposed edges, where flooring terminates, where flooring transitions to dissimilar flooring finishes and as indicated on Drawings.
 8. Resilient Strips: Attach to substrate using adhesive.
 9. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
 10. Install flooring in recessed floor access covers, maintaining floor pattern.
 11. At movable partitions, install flooring under partitions without interrupting floor pattern.
 12. If feature strips/designs are indicated on Drawings, install feature strips/designs.
 13. Non-Factory Finished Flooring: Provide flooring finishes as indicated and in accordance with flooring manufacturer's recommendations.
- C. Resilient Tile Flooring:
1. Mix tile from containers to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

2. Unless flooring layout design is indicated otherwise on Drawings, lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
 3. Install tile to pattern indicated on Drawings. Allow minimum 1/2 full size tile width at room or area perimeter.
- D. Resilient Wall Base:
1. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
 2. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.
 3. Install wall base on solid backing. Bond tightly to wall and floor surfaces. Bottom edge of wall base should be consistently in contact with finished flooring.
 4. Scribe and fit to door frames and other interruptions.
- E. Resilient Stair Coverings:
1. Install stair coverings in one piece for full width of stairs.
 2. Install stringers configured tightly to stair profile.
 3. Adhere over entire surface. Fit accurately and securely.
 4. Nosing angle and profile is to match the profile of the riser below. Install nosing with full adhesion ensuring that bottom edge of the nosing is without gaps and does not create a protruding tripping hazard.

3.4 CLEANING

- A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures: Related to cleaning.
- B. Remove excess adhesive from installed work and adjacent surfaces without damage to surfaces.
- C. Clean and maintain the work.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 01 73 00 - Execution: Protecting installed construction.
- B. Prohibit traffic on flooring for duration recommended by manufacturer and not less than the following:
 1. Light Foot Traffic: 24 hours after installation.
 2. Rolling Load Traffic: 72 hours after installation.
- C. Protect the work from stains and damage.

END OF SECTION

SECTION 09 84 00
ACOUSTIC ROOM COMPONENTS

PART 1 GENERAL**1.1 SUMMARY**

- A. Section Includes:
 - 1. Wall mounted acoustical panels.
 - 2. Ceiling mounted acoustical panels.
 - 3. Preformed acoustic partition closures and fillers.
- B. Related Requirements:
 - 1. Section 09 51 13 - Acoustical Panel Ceilings: General purpose acoustical ceiling panels and grids serving as supports for ceiling mounted acoustical panels specified in this Section.

1.2 REFERENCES

- A. American Society of Civil Engineers (ASCE):
 - 1. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM International (ASTM):
 - 1. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2023.
 - 2. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.
 - 3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
 - 4. ASTM E795 - Practices for Mounting Test Specimens During Sound Absorption Tests; 2023.
 - 5. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2023.
- C. Underwriters Laboratories, Inc. (UL):
 - 1. UL 723 - UL Standard for Safety Test for Surface Burning Characteristics of Building Materials; 2018, Revisions 2023.

1.3 COORDINATION

- A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.
- B. Coordinate requirements for blocking and support with substrate construction to receive the Work of this Section.
- C. Coordinate requirements for ceiling mounted acoustical panels with substrate and framing members of ceiling type to which acoustical panels are to be installed. Coordinate to ensure proper fit and mounting of panels without gaps or uneven alignment.
- D. Coordinate work with locations of electrical, fire, and safety devices to avoid conflicts.

1.4 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal requirements.
- B. Product Data: Manufacturer's data sheets, installation instructions, and maintenance recommendations for each type of acoustical panel.

1. Include data indicating coefficients of absorption and Sabines per unit for each type of panel used in the analysis and proposed design layout.
- C. Shop Drawings: Prepared by manufacturer. Include elevations showing acoustic room components sizes, arrangements, and details of each condition of installation. Show fabrication and installation details.
- D. Samples – Acoustical Panels:
 1. Samples for Initial Selection: Two manufacturer's complete set of color charts illustrating the full range of finishes and colors available; include 12 x 12 inches typical panel with mounting hardware; submit for Architect's initial selections.
 2. Samples for Verification: From the Architect's initial selections, prepare and submit two samples for each finish and color; each sample to be 12 x12 inches illustrating actual panel construction with mounting hardware. Where finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.
- E. Samples - Preformed Acoustic Partition Closure:
 1. Samples for Initial Selection: Two manufacturer's complete set of color charts illustrating a minimum of 26 colors for the outer coating finish; include 4 x 4 x 2 inches closure product samples with finish coating applied to 3 sides. Submit for Architect's initial selections.
 2. Samples for Verification: From the Architect's initial selections, prepare and submit two samples for each finish and color; each sample to be 4 x 4 inches illustrating actual outer coating material, thickness, color, and finish. Where finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.
- F. Product Test Reports: Indicating compliance of products with requirements, from a qualified independent testing agency.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum five (5) years documented experience.
- B. Installer: Company specializing in performing work of this section with minimum three (3) years documented experience.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.
- B. Comply with recommendations of the manufacturers of the products to be used for the Work of this Section.
- C. Deliver, store, and handle acoustic panels in accordance with product manufacturer's recommendations. Ship to jobsite only after roughing-in, painting work, and other related finish work has been completed, installation areas are ready to accept units, and manufacturers' recommended temperature and humidity levels will be maintained during the remainder of construction.

1.7 WARRANTY

- A. Section 01 77 00 - Closeout Procedures: Product warranties.

- B. Submit Manufacturer's written warranty for repair or replacement of acoustical panels that fail in materials or workmanship within five (5) years from date of Substantial Completion. Failures are defined to include, but are not limited to, the following:
 - 1. Fracturing or breaking of unit components which results from normal wear and tear and normal use other than vandalism.
 - 2. Delamination or other failures of glue bond of components.
 - 3. Warping of components not resulting from leaks, flooding, or other uncontrolled moisture or humidity.
 - 4. Failure of unit to perform acoustically in accordance with manufacturer's published data.
- C. Special Warranty:
 - 1. Cementitious Wood Fiber Panels Warranty: Submit manufacturer executed written warranty agreeing to repair or replace panels that fail within the warranty period.
 - a. Failures include, but are not limited to the following:
 - 1) Defects in materials or factory workmanship.
 - b. Warranty Period: Thirty (30) years from date of substantial completion.
 - c. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.8 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Section 01 60 00 - Product Requirements: Extra materials, spare parts, and maintenance products.
 - 1. Provide quantity of acoustic panels equal to 5 percent of each type, finish, color, and size installed, but not less than one of each.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire Performance Characteristics:
 - 1. Comply with ASTM E84 or UL 723, unless otherwise indicated.
 - a. Flame Spread Index: 25 or less.
 - b. Smoke Developed Index: 450 or less.
 - 2. Identify products with appropriate UL labeling.
- B. Seismic Performance:
 - 1. Comply with ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9, "Earthquake Loads" based upon seismic design criteria indicated.
- C. Provide a system of sound absorbing and sound diffusing panels to reduce excess sound energy levels and improve sound distribution throughout the space:
 - 1. System components, configurations, and locations to be as indicated on Drawings.

2.2 MANUFACTURERS

- A. Manufacturers:
 - 1. Fabric Wrapped Panels
 - a. Carnegie Fabrics, LLC.
 - b. Decoustics.
 - c. Novawall Systems Inc.
 - d. RPG Acoustical Systems.

- e. Sound Seal.
- f. Wenger Corporation.
2. Cementitious Wood Fiber Panels:
 - a. Acoustic Sonic, Inc.
 - b. ASI Architectural.
 - c. Cardinal Acoustics
 - d. Tectum by Armstrong World Industries, Inc.
3. Substitutions: Section 01 60 00 - Product Requirements.

2.3 ACOUSTICAL PANELS

- A. Wall and Ceiling Absorber Panels: (FWP1, FWP2, FWP3) Fabric covering finish laminated to rigid glass-fiber board. Glass-fiber board to have chemically hardened edges.
 1. Basis of Design:
 - a. Per CertainTeed Decoustics
 2. Surface Burn Characteristics: Acoustical assemblies to be designed and tested to provide the following surface burning characteristics in accordance with the following:
 - a. ASTM E84:
 - 1) Type 1A
 - 2) Density 6-7lbs/cu.ft.
 - 3) Flame Spread 25 maximum.
 - 4) Smoke Developed index 450 maximum.
 3. Panel Size:
 - a. Shape, thickness, width, and length indicated on Drawings.
 4. Fabrics and Colors:
 - a. Basis of Design:
 - 1) As indicated on Drawings.
 5. Wall Panel Mounting Method: Metal wall bracket with panel-mounted Z-bracket.
- B. Cementitious Wood Fiber Panels: (AWP1, AWP2, AWP3, AWP4, AWP5) Provide panels fabricated of excelsior wood fibers bonded with water resistant inorganic hydraulic cement.
 1. Basis of Design:
 - a. Cardinal Acoustics:
 - 1) Cardinal - Direct Attach Acoustical Wall
 2. Dimensional Stability/Mold Resistance: No significant mold growth when tested in accordance with ASTM D3273.
 3. Surface Burn Characteristics: Acoustical assemblies to be designed and tested to provide the following surface burning characteristics in accordance with the following:
 - a. ASTM E84:
 - 1) Flame Spread: 0.
 - 2) Smoke Developed: 0.
 - b. Ceiling Panels: UL Classified Flame Spread.
 - 1) ASTM E1264; Class A.
 4. Provide UL labeling indicating panel Surface Burning Characteristics.
 5. Provide UL Classified Acoustical Material labeling indicating panel Noise Reduction Coefficient (NRC).
 6. Panel applications include the following surface types:
 - a. Panels for Wall Surfaces.
 - b. Panels for Ceiling Surfaces.
 7. Panels:
 - a. Panel Thickness:

- 1) As indicated on Drawings.
 - b. Panel Edge Profiles:
 - 1) Beveled.
 - c. Panel Sizes:
 - 1) As indicated on Drawings.
 - d. Paint:
 - 1) Field Applied.
 - a) Paint manufacturer, type, and application method to match that used for factory applied coatings.
 - b) 3 coats to be painted over factory applied coats.
 - c) Color:
 - (1) As indicated on Drawings.
 - e. Surface finished appearance to be uniform from panel to panel.
 - f. Mounting Types:
 - a) Types Include:
 - (1) Mounting type A (Ceiling).
 - (2) Mounting type C40 (Wall).
8. Supports, Fasteners, and Anchors: To be corrosion resistant and as approved by manufacturer.
9. Touch-Up Paint: Paint manufacturer, type, color, application, and appearance to match finish indicated.
- a. Apply to field cut conditions.
 - b. Apply to exposed fasteners. Use paint products compatible with fastener material and finish for adhesion.

2.4 PREFORMED ACOUSTIC PARTITION CLOSURE

- A. Manufacturers:
 - 1. Emseal Joint Systems, LTD.
 - 2. Substitutions: Section 01 60 00 - Product Requirements.
- B. Basis of Design: Emseal - QuietJoint.
- C. Preformed Acoustic Partition Closure: Flexible, rectangular formed for compression fit and seal; non-mechanical and non-invasively anchored; sound attenuating, fire-resistant, and thermally insulating mass-loaded partition closure for sealing voids and gaps in interior constructed work and assemblies.
 - 1. Locations and Configurations:
 - a. Locations and configurations to be as indicated on Drawings.
 - b. Closure/filler nominal thickness (depth) to be as follows unless indicated otherwise on Drawings. Actual size to be slightly larger than the void to be filled as to allow for compression fit, but without warped surface appearance. Actual size to be based on actual field measurements of voids to be filled. Coordinate with manufacturer's recommendations.
 - 1) 2 inches minimum thickness for voids or gaps less than 5 inches wide.
 - 2) 3 inches minimum thickness for voids or gaps 5 to 6 inches wide.
 - 2. Core: Open-cell foam infused with fire resistant acrylic based mass-loading agent.
 - 3. Outer Coating: Factory applied, homogenous and smooth silicone coating with integral color for decorative finish exposed to view.
 - a. 2-Sided Coating: Outer coating to be on the 2 opposing sides of core. Applications include conditions requiring filler/closure where the 2 coated opposing sides are exposed to view or cavity, and the 2 uncoated sides are compressed against opaque material construction.

- b. 3-Sided Coating: Outer coating to be on 3 adjoining sides of core. Applications include conditions requiring filler/closure between a wall end and translucent or transparent glass.
4. Sound Attenuation: Minimum STC 53 rated at 2 inch seal depth in a STC 56 rated wall when tested in accordance with ASTM E90.
5. Fire Resistance: Smoke and flame spread classification of Class A when tested in accordance with ASTM E84.
6. Closure/Filler Joints: Provide product lengths for joint spacing not less than 10 feet. Installed joints are to be hairline tight and with flush finished surface planes.
7. Colors: To be selected by Architect from manufacturer's color samples.

2.5 ACCESSORIES

- A. Provide accessories as required to complete Work in accordance with the Drawings and as recommended by the manufacturer for application conditions.
- B. Mounting Devices and Anchors:
 1. As required to complete Work in accordance with the Drawings and as recommended by manufacturer.
 2. Designed and installed to anchor and withstand loads imposed by installed components.
 3. Wall Brackets: Galvanized steel rail configured to accept grooved epoxy buttons or Z-brackets attached to panel corners on concealed side.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.
- B. Examine acoustical panels installation substrates, supports and surroundings for compliance with requirements for installation securement, tolerances, required overhead clearances, and other existing conditions affecting installation and performance of acoustical panels. Proceed with unit installation upon correction of unsatisfactory conditions.

3.2 PREPARATION

- A. Section 01 73 00 - Execution: Prepare field conditions and existing construction for installation of work of this section.
- B. Prepare materials to be installed and equipment to be used during installation.

3.3 INSTALLATION

- A. Section 01 73 00 - Execution: Related to installation of Work.
- B. Install the Work of this Section in accordance with the Drawings and manufacturer's recommendations.
- C. Install acoustical panels plumb, level, true, and as indicated regarding brackets, supports, anchors, and fasteners.
- D. Install wall-mounted acoustical panels utilizing corner mounting Z-brackets or grooved buttons and concealed wall brackets. Where indicated, secure units to wall with fasteners along top of unit.
- E. Install ceiling-mounted acoustical panels utilizing integral corner mounting brackets and mounting methods applicable to the design requirements.

1. Ceiling Grid Mounted: Mount and fasten panels to grid using grid clips.
 2. Direct Mounted: Attach directly to substrate using back-mounted clip and exposed fastener.
 3. Suspended: Hang panels plumb and free from structural members. Use carrying channels where structural members cannot be used. Use post-installed anchors in concrete slabs.
- F. Install seismic bracing and fastening in accordance with applicable code requirements and as indicated in this Section.

3.4 FIELD QUALITY CONTROL

- A. Section 01 40 00 - Quality Requirements: Monitor quality of installation, inspection, and testing.
- B. Should completed installation fail to meet requirements, Contractor shall make modifications necessary to correct performance and retest room as directed by Architect to indicate compliance, at Contractor's expense.

3.5 CLEANING

- A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures: Related to cleaning.
- B. Repair or replace defective Work in a manner acceptable to Architect.
- C. Clean unit surfaces. Touch up, refinish, or replace damaged components in a manner acceptable to Architect.

END OF SECTION

SECTION 10 14 00**SIGNAGE****PART 1 GENERAL****1.1 SUMMARY**

- A. Section Includes:
 - 1. Room Identification Signs.
 - 2. Applied Vinyl Graphics.
 - 3. Custom Artwork Applied Vinyl Graphics.
 - 4. Dimensional Letter Signs.
 - 5. Notification Signs.
 - 6. Fire Protection Signs.
 - 7. Warning Stencils.
 - 8. Dedication Plaque.
- B. Related Requirements:
 - 1. Section 01 40 00 - Quality Requirements: Mockup requirements indicated in Schedule of Mockups at end of Section 01 40 00.
 - 2. Sections related to identification of Plumbing, HVAC, and Electrical work.
 - 3. Sections related to Civil and Site work.

1.2 REFERENCES

- A. American Iron and Steel Institute (AISI).
- B. American National Standards Institute (ANSI):
 - 1. ANSI Z97.1 - Safety Glazing Materials Used In Buildings - Safety Performance Specifications And Methods Of Test; 2015, Reaffirmed 2020.
- C. Americans with Disabilities Act (ADA):
 - 1. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; Current Edition.
- D. ASTM International (ASTM):
 - 1. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
 - 2. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
 - 3. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2019.
- E. Code of Federal Regulations (CFR):
 - 1. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; Current Edition.
- F. International Code Council (ICC):
 - 1. ICC A117.1 - Accessible and Usable Building and Facilities; 2017.
- G. Ingress Protection Code (IP Code):
 - 1. IP Code - Degree of Protection Provided by Enclosures; ANSI/IEC 60529 2020.
- H. UL Standards (UL):
 - 1. UL 48 - Electric Signs; Edition 15, 2011, Revisions 2022.
 - 2. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.

1.3 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit data describing the material, fabrication standards and characteristics of the sign systems indicated in the Section and other Contract Documents.
- C. Shop Drawings: Indicate sign types, styles, lettering font, copy, graphics, features, foreground and background colors, locations, overall dimensions of each sign and attachment method.
 - 1. Indicate connection locations for signage requiring electrical or communication wiring.
- D. Samples for Initial Selection: Two manufacturer's color charts illustrating the full range of finishes and colors available for each sign type; include color options for backgrounds, graphics, and copy; submit for Architect's initial selections.
- E. Samples for Verification: From the Architect's initial selections, prepare and submit two samples for each selected finish and color; samples on same product material type indicated for final Work; each sample 6 x 8 inches illustrating sign type, sign features, graphics, and method of attachment. Where finishes involve normal color and texture variations, include sample sets showing the full range of variations expected.
- F. Manufacturer's Installation Instructions: Submit installation template and attachment devices.

1.4 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum five (5) years documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.
- B. Package signs, labeled in name groups.
- C. Store adhesive attachment tape at ambient room temperatures.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements: Environmental conditions affecting products on site.
- B. Do not install signs when ambient temperature is lower than recommended by manufacturer.
- C. Maintain this minimum temperature during and after installation of signs.

1.7 WARRANTY

- A. Section 01 77 00 - Closeout Procedures: Product warranties.
- B. LED Marquee Signs: Provide warranties indicated in the description of the LED Marquee Sign in this Section.

PART 2 PRODUCTS

2.1 PERFORMANCE AND DESIGN REQUIREMENTS

- A. Conform to current local and state building codes; ADA Standards; 36 CFR 1191; and ICC A117.1 guidelines for manufacture and installation of interior identification signs.
- B. Conform to current International Fire Code requirements.

2.2 MANUFACTURERS

- A. Manufacturers:
 - 1. Acorn Sign Graphics.
 - 2. APCO Graphics.
 - 3. ASI Sign Systems.
 - 4. Avery Dennison.
 - 5. Bayuk Graphic Systems, Inc.
 - 6. Best Sign Systems.
 - 7. Interface Architectural Signage, Inc.
 - 8. InPro Corporation (Signscape).
 - 9. Mohawk Sign Systems.
 - 10. Rowmark, LLC.
 - 11. Scott Sign Systems, Inc.
 - 12. Signage Industries Corporation.
 - 13. Substitutions: Section 01 60 00 - Product Requirements.

2.3 ROOM IDENTIFICATION SIGNS

- A. Includes signs for rooms and area identification, fire extinguishers and fire extinguisher cabinets, unlighted exit signs, room capacity signs, areas of refuge, and elevators and stairs related signs as indicated on Drawings.
 - 1. Photopolymer face fused to phenolic sheet; 0.145 inch total thickness; matte finish.
 - 2. "Tactile" signage, with copy raised minimum 1/32 inch above sign surface using photopolymer bonded process and with Grade II Braille located below copy.
 - 3. Clear Window Insertion Slots: As indicated on Drawings.
 - 4. Copy and graphics to be uniformly opaque.
 - 5. Copy Font: Helvetica Medium, uppercase.
 - 6. Copy Height: As indicated on Drawings.
 - 7. Braille Height: As indicated on Drawings.
 - 8. Symbol Size: As indicated on Drawings.
 - 9. Total Thickness: As indicated on Drawings, but not less than 0.145 inch.
 - 10. Size and Configuration: As indicated on Drawings.
 - 11. Corners: 1/2 inch radius unless indicated otherwise on Drawings.
 - 12. Edges: Beveled and smooth.
 - 13. Graphic Style: International type.
 - 14. Colors:
 - a. Background: As selected by Architect from submitted samples.
 - b. Copy:
 - 1) As selected by Architect from submitted samples.
 - c. Symbols and Graphics:
 - 1) As selected by Architect from submitted samples.
 - 15. Room Identification Sign Types:

- a. Drawings indicate Sign Type Designations, Size, Copy, Symbols, and Insert Window requirements.
- b. Signs required at all door openings and spaces and as indicated on Drawings.
- c. Refer to Elevations and Details on Drawings.
- d. Include twelve (12) additional identification signs with graphics to be determined during construction. Type to be the type with insert window.
- e. Back Cover Plate: Where sign must be secured to glass, acquire Architect approval prior to fabrication and installation of a Backing Cover (blank solid sign) on the opposite side of the glass. The backing cover material shall match the size, shape, base color, thickness, and finish of the sign. The intent is to hide the unsightly back view of the sign when viewed on the opposite side of the glass. (Back Cover Plate, also referenced in ACCESSORIES, and INSTALLATION articles in this Section.)

2.4 APPLIED VINYL GRAPHICS

- A. Vinyl film, die-cut characters; 2 inches high, 3 mils thick.
 1. Adhesive backing to be pressure-sensitive and exterior application grade type.
- B. Provide door graphics for each of the following:
 1. Copy: **VISITORS REPORT TO MAIN OFFICE** (10 signs required)
 2. Copy: **TOBACCO FREE PROPERTY** (10 signs required)
 3. Copy: **DELIVERIES ONLY** (2 signs required)

2.5 CUSTOM ARTWORK APPLIED VINYL GRAPHICS

- A. Permanent Applied Custom Vinyl Graphics:
 1. Manufacturers:
 - a. Avery Dennison.
 - b. Substitutions: Section 01 60 00 - Product Requirements.
 2. Smooth Substrate Applications: Graphics to be applied to smooth substrates including Level 5 finished and painted gypsum board or plaster.
 - a. Basis of Design: Avery Dennison MPI 1405 with DOL 6460.
 3. Textured Substrate Applications: Graphics to be applied to textured substrates including concrete, brick masonry units, and concrete masonry units.
 - a. Basis of Design: Avery Dennison MPI 1105 with DOL 1300z.
 4. Substrate Finish: Finish and paint requirements are to be completed and fully cured/dry prior to application of graphics.
 - a. Paint cure/dry time for smooth substrates to be not less than five (5) days or as required for full cure.
 5. Graphic Designs: Design is to include custom imagery and colors.
 - a. Designs to be provided by Architect.
 - 1) Each graphics application to be of different and unique design.
 6. Locations: As indicated on Drawings.

2.6 DIMENSIONAL LETTER SIGNS

- A. Exterior Metal Letters: Architectural grade aluminum.
 1. Thickness:
 - a. 1 inch.
 2. Height:
 - a. Refer to Copy and Locations in following paragraphs.
 3. Copy Style: Helvetica Medium, unless indicated otherwise on Drawings.
 4. Finish: Brushed. Unless noted otherwise.
 5. Copy and Locations: Characters to be designated by Architect.

- a. Building Face - Address Identification (as required by building codes):
 - 1) Copy text, height, and location on building exterior to be as required and designated by the local Fire Marshal and IBC 501.2 code.
 - 2) 12 inches high minimum.
 - b. Building Face - Building Name.
 - 1) Mounted on masonry building wall; height and location to be as follows:
 - a) As indicated on Drawings.
 - 2) PAMLICO COUNTY HIGH SCHOOL, 12 inches high.
 - c. Building Face - Building Name.
 - 1) Mounted on metal panel building wall; height and location to be as follows:
 - a) As indicated on Drawings.
 - 2) PAMLICO COUNTY HIGH SCHOOL, 24 inches high.
 - d. Building Face – Emergency Door Numbers
 - a) As indicated by architect.
 - 2) 1,2,3,4,5,6,7, 16 inches high (7 total characters)
 - 3) Finish to be selected from the full range of standard powder coated options. To be high contract characters from building face location.
- B. Interior Metal Letters: Architectural grade aluminum.
- 1. Thickness:
 - a. As indicated on drawings
 - 2. Height:
 - a. As indicated on Drawings.
 - 3. Mounting:
 - a. Stand-offs : 1” Standoffs where indicated, concealed fasteners.
 - b. Surface Mounted: Mount with concealed stud, adhered with construction adhesive.
 - 4. Copy Style: Helvetica Medium, unless indicated otherwise on Drawings.
 - 5. Finish:
 - a. Painted: As indicated on drawings
 - b. Wood: From manufactures full range – As indicated on drawings.
 - 6. Copy:
 - a. Copy: **WRESTLING** (1 signs required)
 - b. Copy: **WEIGHT ROOM** (1 signs required)
 - c. Copy: **PAMLICO COUNTY MIDDLE SCHOOL** (1 signs required)
 - d. Copy: **PAMLICO COUNTY HIGH SCHOOL** (1 signs required)
 - e. Copy: **GIRLS** (5 signs required)
 - f. Copy: **BOYS** (5signs required)
 - g. Copy: **BOY’S LOCKER ROOM** (1 signs required)
 - h. Copy: **GIRL’S LOCKER ROOM** (1 signs required)
- C. Interior Wood Letters: Solid Wood.
- 1. Thickness:
 - a. As indicated on drawings
 - 2. Height:
 - a. As indicated on Drawings.
 - 3. Mounting:
 - a. Stand-offs : 1” Standoffs where indicated, concealed fasteners.

- b. Surface Mounted: Mount with concealed stud, adhered with construction adhesive.
- 4. Copy Style: Helvetica Medium, unless indicated otherwise on Drawings.
- 5. Finish:
 - a. Wood: Red Oak – Seal to match wood doors.
- 6. Copy:
 - a. Copy: **HURRICANE GRILL**(1 signs required)
 - b. Copy: **CONCESSIONS** (1 signs required)
 - c. Copy: **HIGH SCHOOL** (1 signs required)
 - d. Copy: **MIDDLE SCHOOL** (1 signs required)
 - e. Copy: **ADMINISTRATION** (1 signs required)
 - f. Copy: **ATHLETICS** (1 signs required)
 - g. Copy: **GUIDANCE** (1 signs required)
 - h. Copy: **PAMLICO COUNTY HIGH SCHOOL** (1 signs required)

2.7 NOTIFICATION SIGNS

- A. Material: Plastic with radius corners.
 - 1. Size: 1/8 inch thick; H x W to be as required for Copy.
 - 2. Color: White background.
 - 3. Letters: 2 inch high black letters.
 - 4. Copy: **DELIVERIES ONLY** (1 sign required)

2.8 FIRE PROTECTIONS SIGNS

- A. Engineering Grade (Type I) Reflective Aluminum: Red reflective lettering on white background, unless indicated otherwise on Drawings.
- B. Comply with requirements of International Fire Code requirements.
- C. Size: As indicated on Drawings.
- D. Characters: Style and copy as required by NCBC 2018 standards.
- E. Sign Types: Sign and Copy sizes vary; refer to Drawings.
 - 1. Fire Department Connection Sign with directional arrows as required. (2 signs required)
 - a. Copy: **FDC**
 - 2. Fire Sprinkler Riser Room Sign. (2 signs required)
 - a. Copy: **FIRE SPRINKLER RISER ROOM**
 - 3. Fire Alarm Control Panel Sign. (2 signs required).
 - a. Copy: **FACP**
 - 4. Fire Hose Valve Connection Sign. (4 signs required; locations and final copy to be determined).

2.9 Copy: FIRE HOSE VALVE CONNECTION WARNING STENCILS

- A. Reusable stencils for painting warning on both sides of rated walls, above hung ceiling.
 - 1. Copy: **X-HOUR RATED WALL - PROTECT ALL OPENINGS** (X is to be the actual numeral that represents the wall fire rated time designation.
 - 2. Letter Color: Red.
 - 3. Letter Size: 3 inches tall.
 - 4. Spacing: Apply at 15 feet o.c. at all rated walls above ceilings on both sides of walls.
 - 5. Quantity: Since stencils are reusable, quantity is determined by Contractor.

2.10 DEDICATION PLAQUE

- A. Dedication Plaque:
 - 1. Material: Cast bronze.
 - 2. Quantity: One.
 - 3. Size:
 - a. 18 x 24 inches.
 - 4. Border:
 - a. Single line type.
 - 5. Finish: Pebble texture, oxidized finish.
 - 6. Letter Finish: Satin polish.
 - 7. Mounting: Standard concealed mounting to comply with the manufacturer's written instructions for type of wall surface indicated.
 - 8. Characters: Style and copy to be selected by Architect and Owner from manufacturer's full range of options.
 - a. Plaque to include the following information:
 - 1) Project Name. To be determined by Architect and Owner.
 - 2) Date of Construction.
 - 3) School System Information:
 - a) Names and Title of all the Board of Education Members.
 - b) Name and Title of the School System Superintendent.
 - 4) Names and Titles of Persons to be determined by Owner. Allow for twenty (20) names and titles. Person groups may require headings such as board member groups or commission member groups or director member groups.
 - 5) Architect's Name and Location.
 - 6) Construction Manager's Name.
 - 7) General Contractor's Name.

2.11 ACCESSORIES

- A. Concealed Stud: Length based on letter thickness, stud boss and spacer sleeve, ½ inch standoff. Locations as required by manufacture.
- B. Mounting Hardware: Screws; stainless steel; countersunk phillips flat head screws.
- C. Tape Adhesive: Double sided foam tape; permanent adhesive.
- D. Back Cover Plate: Where sign must be secured to glass, acquire Architect approval prior to fabrication and installation of a Backing Cover (blank solid sign) on the opposite side of the glass. The backing cover material shall match the size, shape, base color, thickness, and finish of the sign. The intent is to hide the unsightly back view of the sign when viewed on the opposite side of the glass. (Back Cover Plate, also referenced in ROOM IDENTIFICATION SIGNS and INSTALLATION articles in this Section.)

PART 3 EXECUTION**3.1 EXAMINATION**

- A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.
- B. Verify substrate if finished to include finish coating(s).
- C. Verify adequate blocking and supports to structure are installed and ready to receive work.
- D. Verify that electrical and communications wiring requirements are provided for connectivity.

3.2 PREPARATION

- A. Section 01 73 00 - Execution: Prepare field conditions and existing construction for installation of work of this section.
- B. Prepare materials to be installed and equipment to be used during installation.

3.3 INSTALLATION

- A. Section 01 73 00 - Execution: Related to installation of Work.
- B. Install work at locations indicated on Drawings. Install signs level and plumb unless indicated otherwise.
- C. Room Identification Signs: Mount with double sided foam tape and countersunk phillips flat head screws. Screw head is to finish flush with sign surface. Finish of screw heads is to match the color and finish of the portion of the sign that the screw is seated into.
 - 1. Position of Room Identification Signs:
 - a. Signage mounting heights must conform to ADA accessibility requirements including the height of Braille notations. Mount center of sign 9 inches from strike side of door and top of sign at 60 inches from floor.
 - 2. Where sign must be secured to glass, acquire Architect approval prior to fabrication and installation of a Backing Cover (blank solid sign) on the opposite side of the glass. The backing cover material shall match the size, shape, base color, thickness, and finish of the sign. The intent is to hide the unsightly back view of the sign when viewed on the opposite side of the glass. (Back Cover Plate, also referenced in ROOM IDENTIFICATION SIGNS and ACCESSORIES articles in this Section.)
- D. Applied Vinyl Graphics: Mount on exterior of glass doors.
- E. Custom Artwork Applied Vinyl Graphics: Prepare substrate for vinyl graphics application.
 - 1. Substrate is to be free from all contaminants that interfere with adhesion of preparation coatings and application of vinyl graphics.
 - 2. Substrate surface is to be finished to smoothness and characteristics as recommended by vinyl graphics manufacturer and as follows:
 - a. Gypsum Wallboard: To be finished to Level 5 finish.
 - b. Concrete Masonry Units: As recommended by vinyl graphics manufacturer.
 - 3. Paint Coatings: Surface of application area is to be painted prior to vinyl application.
 - a. Do not use Low VOC type paint.
 - b. Paint topcoat is to have semi-gloss sheen.
 - c. Paint primers and topcoats are to have been applied and cured for the follow duration prior to application of vinyl graphics:
 - 1) Gypsum Wallboard: Five (5) days minimum.
 - 2) Concrete Masonry Units (CMU): Seven (7) days minimum.
- F. Dimensional Letter Signs: Mount with stainless steel threaded rods into expansion shields. All hardware shall be stainless steel.
- G. Mount fire protection system signage in accordance with International Fire Code requirements.
- H. Dedication Plaque: Mount with stainless steel threaded rods into expansion shields.
- I. LED Marquee Sign: Construct and install sign system, including programming software and hardware, in compliance with the engineer's design, manufacturer's recommendations and the Drawings.

3.4 CLEANING

- A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures: Clean installed work and comply with manufacturer's recommendations.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 01 73 00 - Execution: Protecting installed construction.

3.6 DEMONSTRATION AND TRAINING

- A. Section 01 79 00 - Demonstration and Training: Provide demonstration and training to the Owner regarding operation and maintenance of components of the installed Work.

END OF SECTION

SECTION 12 35 53.19
WOOD LABORATORY CASEWORK

PART 1 GENERAL**1.1 SUMMARY**

- A. Section Includes: Manufactured wood laboratory casework and accessories.
- B. Related Sections:
 - 1. Section 09 65 00 - Resilient Flooring: Rubber base.
 - 2. Section 12 32 16 - Manufactured Plastic-Laminate-Clad Casework.
 - 3. Division 22 - Plumbing: Plumbing requirements related to the Work of this Section.
 - 4. Division 26 - Electrical: Electrical requirements related to the Work of this Section.

1.2 DEFINITIONS

- A. Identification of Casework Parts by Surface Visibility:
 - 1. Unit Body Open Interiors: Any storage unit surface without solid door or drawer fronts and units with glass sliding or glass framed doors.
 - 2. Unit Body Closed Interiors: Any storage unit surface behind solid door or drawer fronts.
 - 3. Unit Body Exposed Side: Any storage unit exterior side surface that is visible after installation.
 - 4. Concealed Surfaces: Any surface not normally visible after installation.

1.3 COORDINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Coordinate the Work with required services to casework.

1.4 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.
- B. Product Data: Submit data on casework finishes.
- C. Shop Drawings: Include component dimensions, configurations, elevations, cross-sections, construction details, joint details, service run spaces and location of services. Include layout of units with relation to surrounding walls, doors, windows, and other building components.
- D. Manufacturer's Installation Instructions: Submit special precautions for installation.
- E. Maintenance Data: Submit instructions for cleaning stains from finish of casework and countertops.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in the manufacturing of products specified in this Section with minimum three (3) years documented experience.
- B. Installer: Company specializing in installing the work of this Section with three (3) years documented experience and approved by the Manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.

- B. Store completed casework and countertops in a ventilated space with relative humidity range of 20 to 50 percent.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements: Requirements before, during and after installation of Work.
- B. Do not install casework in unconditioned spaces, or in spaces where relative humidity is not within acceptable limits.

PART 2 PRODUCTS

2.1 WOOD LABORATORY CASEWORK

- A. Manufacturers:
 - 1. ALC - Collegedale.
 - 2. Campbell Rhea.
 - 3. Diversified Woodcrafts, Inc.
 - 4. Kewaunee Scientific Corporation.
 - 5. Sheldon Labs.
 - 6. Substitutions: Section 01 60 00 - Product Requirements.

2.2 COMPONENTS

- A. Hardwood Lumber (Exposed to View): Red oak, NHLA grade FAS or better, free from defects, maximum moisture content of 6 percent.
- B. Hardwood Lumber (Concealed from View): Any species, NHLA grade FAS or better, maximum moisture content of 6 percent.
- C. Hardwood Plywood (Exposed to View): Red oak veneer, plain sliced, slip matched, grade A-2, crossbanded with solid core, minimum number of plies as follows:
 - 1. 3/4 Inch: 7 ply.
- D. Hardwood Plywood (Concealed from View): Any species veneer, sound grade, crossbanded with solid core, minimum number of plies same as Oak plywood.
- E. Hardboard: Tempered, exploded wood fibers compressed with natural resins and other binders, 50 pcf density minimum, 1/4 inch thick.
- F. Particleboard: Industrial grade, 45 pcf density minimum.
- G. Leg Shoes (When shown in Plan): Closed bottom style.
- H. Countertops: Phenolic Resin, non-glare, black finish; minimum 1 inch thick with radiused edges.
- I. Sinks: Drop in molded modified epoxy resin, non-glare black finish.
- J. Cabinet Hardware:
 - 1. Hinges: Heavy duty stainless steel construction exposed 5 knuckle type with hospital tip, fixed pin.
 - 2. Catches: Friction roller type, spring cushioned, polyethylene or nylon roller, metal strike plate.
 - 3. Pulls: Extruded aluminum bar type, satin finish, 4 inch centers.
 - 4. Drawer Slides: Heavy duty epoxy coated steel, ball bearing nylon rollers, automatic positive stop levers, non-tool type drawer removal.
 - a. Use full extension slides at file drawers.

5. Adjustable Shelf Supports: Heavy duty, steel pin with nylon caps or polycarbonate with non-tip safety feature.
6. Door and Drawer Locks: Cam type disk tumbler, brass key and tumbler with zinc alloy cylinder; lock capable of being master keyed.

2.3 FABRICATION

- A. Verify field measurements prior to fabrication.
- B. Fabricate laboratory casework to dimensions, profiles, and details shown.
- C. Cabinet Joinery: Industrial grade hardwood dowels or screws, glued and clamped tight.
- D. Construct cabinet bodies with 1 inch thick solid red oak top rails and 1 inch thick solid red oak intermediate rails. Cabinet sides to be constructed of 3/4 inch hardwood plywood for concealed surfaces and 3/4 inch thick red oak plywood for semi-exposed and exposed surfaces.
- E. Construct cabinet backs with 1/4 inch thick hardboard for concealed surfaces, 1/4 inch thick red oak plywood for semi-exposed surfaces, and 3/4 inch thick red oak plywood for exposed surfaces.
- F. Construct shelving with 3/4 inch thick hardwood plywood with hardwood edging for unexposed surfaces, and with 3/4 inch thick red oak plywood with solid red oak edging for semi-exposed and exposed surfaces.
- G. Construct doors with solid red oak banding, 3/4 inch thick, encasing particleboard core red oak plywood. All edges to be radiused.
 1. Grain for door and drawer fronts to be vertical matched.
- H. Construct drawers with 1/2 inch hardwood lumber for sides and back. Construct drawer bottom with 1/4 inch plywood or hardboard. Construct drawer fronts with minimum 13/16 inch red oak lumber dovetailed into drawer sides. Drawer front edges to be radiused.
- I. Tables (When shown in Plan): Construct tables with 2-1/4 inch square laminated solid red oak legs and minimum 3/4 inch thick solid red oak side and center rails, 4-3/16 inches wide. Exterior rails attached together with corner braces, mortised, and screwed; center rails attached to exterior rails with dowels and glue. Attach legs to table frame with lag or hanger bolts machine driven into legs and attached to corner braces. Provide leg shoes for all legs. Provide solid red oak leg stretchers between all legs.
- J. Sinks to be under-slung type and adhered to bottom of countertop. Provide sink supports on cabinet bodies.
- K. Provide 4 inch high Phenolic resin back splashes on all countertops abutting walls. Provide 4 inch high side splashes on side of countertops abutting walls.

2.4 FINISHES

- A. Exposed to View Surfaces: One coat stain, to match adjacent entry doors; one coat catalyzed sealer; top coat of clear, catalyzed conversion varnish or catalyzed acrylic.
- B. Semi-Exposed Surfaces: Same as exposed to view surfaces.
- C. Concealed Surfaces: Base coat of catalyzed sealer, top coat of clear, catalyzed conversion varnish or catalyzed acrylic.
- D. Finished surfaces to have chemical resistance performance as follows:
 1. Surfaces to exhibit little or no effect to exposure to the following chemicals and solutions:

Acetic Acid - 50%	Acetone
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Ammonium Hydroxide - 28%	Methyl Ethyl Ketone
Benzene	Naphtha
Carbon Tetrachloride	Nitric Acid - 10%
Ethyl Acetate	Phosphoric Acid - 75%
Ethyl Alcohol	Potassium Hydroxide - 50%
Ethyl Ether	Sodium Carbonate
Formaldehyde	Sodium Hydroxide - 40%
Gasoline	Sulfuric Acid
Hydrochloric Acid - 37%	Toulene
Methanol (Methyl Alcohol)	Xylene

2.5 LABORATORY ACCESSORIES

- A. Solvent (Flammable) Storage:
 1. Basis of Design: Campbell Rhea - Model 6778.
 2. Design and construct in accordance with OSHA regulations, FM, UL and NFPA 30, National Fire Protection Association, Flammable and Combustible Liquids Code. Cabinets shall be Factory Mutual (FM) approved and Underwriters (UL) listed with UL/FM approval label affixed to inside of cabinet door.
 3. Ventilation: Two threaded, two inch pipe vent outlets and flame arrestors on the back of the cabinet. Vent to the exterior and as required by local code.
 - a. Coordinate with the Mechanical Work as described in Division 23.
 4. Identification: Two inch high lettering: FLAMMABLE KEEP FIRE AWAY.
 5. Room where solvent storage is located shall have a negative pressure rating.
- B. Wall Mounted Peg Board:
 1. Basis of Design: Campbell Rhea - Model 6664.
 2. Drying rack shall be Factory Mutual (FM) approved and Underwriters (UL) listed with UL/FM approval label affixed to inside of cabinet door.
 3. Provide phenolic resin back with polypropylene pegs.
 4. Provide stainless-steel drip troughs with drain outlet.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01 73 00 - Execution: Verification of existing conditions before starting work.
- B. Verify dimensions, tolerances, and methods of attachment with other Work.
- C. Verify adequacy of backing and support framing.

3.2 PREPARATION

- A. Section 01 73 00 - Execution: Prepare field conditions and existing construction for installation of work of this Section.
- B. Prepare materials to be installed and equipment to be used during installation.

3.3 INSTALLATION

- A. Section 01 73 00 - Execution: Related to installation of Work.
- B. Install casework in accordance with manufacturer's instructions.
- C. Use anchoring devices for materials encountered and usage expected.

- D. Set casework plumb, square, and true, securely anchored to building structure. Shim as required.
- E. Where casework abuts other finished work, scribe and cut to accurate fit.
- F. Sequence installation and erection to ensure mechanical and electrical connections are achieved in an orderly and expeditious manner.

3.4 ADJUSTING

- A. Section 01 73 00 - Execution: Starting, testing, adjusting, and balancing.
- B. Adjust doors, drawers, hardware, fixtures and other moving or operating parts to function smoothly and correctly.
- C. Repair or remove and replace defective Work as directed by Architect.

3.5 CLEANING

- A. Section 01 73 00 - Execution and Section 01 77 00 - Closeout Procedures: Related to cleaning.
- B. Clean casework, counters, shelves, hardware, fittings, and fixtures.

3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Section 01 73 00 - Execution: Protecting installed construction.
- B. Protect casework from damage until final acceptance.

END OF SECTION

SECTION 27 15 13
COMMUNICATIONS COPPER HORIZONTAL CABLING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Category 6A twisted pair cable
2. Twisted pair cable hardware, including plugs and jacks.
3. Cable management system.
4. Grounding provisions for twisted pair cable.

1.2 COPPER HORIZONTAL CABLING DESCRIPTION

- A. Cabling system consists of horizontal cables, intermediate and main cross-connects, mechanical terminations, and patch cords or jumpers used for horizontal-to-horizontal cross-connection.
1. TIA-568-C.1 requires that a minimum of two equipment outlets be installed for each work area.
 2. Horizontal cabling shall contain no more than one transition point or consolidation point between the horizontal cross-connect and the telecommunications equipment outlet.
 3. Bridged taps and splices shall not be installed in the horizontal cabling.
- B. A work area is approximately 100 sq. ft and includes the components that extend from the equipment outlets to the station equipment.
- C. The maximum allowable horizontal cable length is 295 feet. This maximum allowable length does not include an allowance for the length of 16 feet to the workstation equipment or in the horizontal cross-connect.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Reviewed and stamped by RCDD.
1. System Labeling Schedules: Electronic copy of labeling schedules, in software and format selected by Owner.
 2. System Labeling Schedules: Electronic copy of labeling schedules that are part of the cabling and asset identification system of the software.
 3. Cabling administration Drawings and printouts.
 4. Wiring diagrams and installation details of telecommunications equipment, to show location and layout of telecommunications equipment.

- C. Twisted pair cable testing plan.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For RCDD, installation supervisor, and field inspector.
- B. Product Certificates: For each type of product.
- C. Source quality-control reports.
- D. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.
 - 1. Layout Responsibility: Preparation of Shop Drawings by an RCDD.
 - 2. Installation Supervision: Installation shall be under the direct supervision of Level 2 Installer, who shall be present at all times when Work of this Section is performed at Project site.
 - 3. Testing Supervisor: Currently certified by BICSI as an RCDD to supervise on-site testing.
- B. Testing Agency Qualifications: Testing agency must have personnel certified by BICSI on staff.
 - 1. Testing Agency's Field Supervisor: Currently certified by BICSI as an RCDD.

1.7 COORDINATION

- A. Coordinate layout and installation of telecommunications pathways and cabling with Owner's telecommunications and LAN equipment and service suppliers.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Horizontal cabling system shall comply with transmission standards in TIA-568-C.1, when tested according to test procedures of this standard.
- B. Telecommunications Pathways and Spaces: Comply with TIA-569-D.
- C. Grounding: Comply with TIA-607-C-1.

2.2 GENERAL CABLE CHARACTERISTICS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with the applicable standard and NFPA 70 for the following types:
 - 1. Communications, Plenum Rated: Type CMP complying with UL 1685 or Type CMP in listed plenum communications raceway or Type CMP in listed cable routing assembly.
 - 2. Communications, Plenum Rated: Type CM, Type CMG, Type CMP, Type CMR, or Type CMX in metallic conduit installed according to NFPA 70, Article 300.22, "Wiring in Ducts, Plenums, and Other Air-Handling Spaces."
- B. RoHS compliant.

2.3 CATEGORY 6A TWISTED PAIR CABLE

- A. Description: Four-pair, balanced-twisted pair cable, certified to meet transmission characteristics of Category 6 cable at frequencies up to 500MHz.
- B. Manufacturers:
 - 1. Commscope – Basis of Design
 - 2. General Cable: Genspeed 6
 - 3. Panduit
 - 4. Siemon
 - 5. Berk-Tek
- C. Standard: Comply with TIA-568-C.2 for Category 6A cables.
- D. Conductors: 100-ohm, 23 AWG solid copper.
- E. Shielding/Screening: Unshielded twisted pairs (UTP)
- F. Cable Rating: Plenum.
- G. Jacket: Refer to drawings for system specific color coding.

2.4 TWISTED PAIR CABLE HARDWARE

- A. Description: Hardware designed to connect, splice, and terminate twisted pair copper communications cable.
- B. Manufacturers:
 - 1. Commscope
 - 2. Siemon
 - 3. Panduit
 - 4. Hubbell

- C. General Requirements for Twisted Pair Cable Hardware:
 - 1. Comply with the performance requirements of Category 6a.
 - 2. Comply with TIA-568-C.2, IDC type, with modules designed for punch-down caps or tools.
 - 3. Cables shall be terminated with connecting hardware of same category or higher.
- D. Source Limitations: Obtain twisted pair cable hardware from single source from single manufacturer.
- E. Connecting Blocks:
 - 1. 110-style IDC for Category 6a.
 - 2. Provide blocks for the number of cables terminated on the block, plus 25 percent spare, integral with connector bodies, including plugs and jacks where indicated.
- F. Cross-Connect: Modular array of connecting blocks arranged to terminate building cables and permit interconnection between cables.
 - 1. Number of Terminals per Field: One for each conductor in assigned cables.
- G. Patch Panel: Modular panels housing numbered jack units with IDC-type connectors at each jack location for permanent termination of pair groups of installed cables.
 - 1. Features:
 - a. Universal T568A and T568B wiring labels.
 - b. Labeling areas adjacent to conductors.
 - c. Replaceable connectors.
 - d. 24 or 48 ports.
 - 2. Construction: 16-gauge steel and mountable on 19-inch equipment racks.
 - 3. Number of Jacks per Field: One for each four-pair cable indicated
- H. Patch Cords: Factory-made, four-pair cables; terminated with an eight-position modular plug at each end.
 - 1. Patch cords shall have bend-relief-compliant boots and color-coded icons to ensure performance. Patch cords shall have latch guards to protect against snagging.
 - 2. Patch cords shall have color-coded boots for circuit identification.
 - 3. Contractor shall provide Category 6A patch and equipment cords. *10' Length at Station Ends, 12" Length at MDF and IDF Rack Ends.* Coordinate lengths with owner.
 - 4. Contractor shall provide 10% space patch and equipment cords.
- I. Plugs and Plug Assemblies:
 - 1. Male; eight position; color-coded modular telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
 - 2. Standard: Comply with TIA-568-C.2.
 - 3. Marked to indicate transmission performance.

- J. Jacks and Jack Assemblies:
 - 1. Female; eight position; modular; fixed telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
 - 2. Designed to snap-in to a patch panel or faceplate.
 - 3. Standard: Comply with TIA-568-C.2.
 - 4. Marked to indicate transmission performance.

- K. Faceplate:
 - 1. Metal Faceplate: Stainless steel complying with requirements in Section 262726 "Wiring Devices."
 - 2. For use with snap-in jacks accommodating any combination of twisted pair, optical fiber, and coaxial work area cords.

- L. Legend:
 - 1. Snap-in, clear-label covers and machine-printed paper inserts.

2.5 GROUNDING

- A. Comply with requirements in Section 270526 "Grounding and Bonding for Communications Systems" for grounding conductors and connectors.

PART 3 - EXECUTION

3.1 INSTALLATION OF TWISTED-PAIR HORIZONTAL CABLES

- A. Comply with NECA 1 and NECA/BICSI 568.

- B. Wiring Method: Install cables in raceways and cable trays, except within consoles, cabinets, desks, and counters. Conceal raceway and cables, except in unfinished spaces.
 - 1. Install plenum cable in environmental air spaces, including plenum ceilings.
 - 2. Comply with requirements for raceways and boxes specified in Section 270528 "Pathways for Communications Systems."

- C. Wiring within Enclosures: Bundle, lace, and train cables within enclosures. Connect to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools. Install conductors parallel with or at right angles to sides and back of enclosure.

- D. General Requirements for Cabling:
 - 1. Comply with TIA-568-C.1.
 - 2. Comply with BICSI's Information Transport Systems Installation Methods Manual, Ch. 5, "Copper Structured Cabling Systems," "Cable Termination Practices" Section.
 - 3. Install 110-style IDC termination hardware unless otherwise indicated.
 - 4. Do not untwist twisted pair cables more than 1/2 inch from the point of termination to maintain cable geometry.

5. Terminate all conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels.
 6. Cables may not be spliced. Secure and support cables at intervals not exceeding 30 inches and not more than 6 inches from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
 7. Install lacing bars to restrain cables, prevent straining connections, and prevent bending cables to smaller radii than minimums recommended by manufacturer.
 8. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI Information Transport Systems Installation Methods Manual, Ch. 5, "Copper Structured Cabling Systems," "Cable Termination Practices" Section. Use lacing bars and distribution spools.
 9. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation, and replace it with new cable.
 10. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used for heating.
 11. In the communications equipment room, install a 10-foot- long service loop on each end of cable.
 12. Pulling Cable: Comply with BICSI Information Transport Systems Installation Methods Manual, Ch. 5, "Copper Structured Cabling Systems," "Pulling and Installing Cable" Section. Monitor cable pull tensions.
- E. Group connecting hardware for cables into separate logical fields.
- F. Separation from EMI Sources:
1. Comply with recommendations from BICSI's "Telecommunications Distribution Methods Manual" and TIA-569-D for separating unshielded copper communication cable from potential EMI sources, including electrical power lines and equipment.

3.2 FIRESTOPPING

- A. Comply with requirements in Section 078413 "Penetration Firestopping."
- B. Comply with TIA-569-D, Annex A, "Firestopping."
- C. Comply with "Firestopping Systems" Article in BICSI's "Telecommunications Distribution Methods Manual."

3.3 GROUNDING

- A. Install grounding according to the "Grounding, Bonding, and Electrical Protection" chapter in BICSI's "Telecommunications Distribution Methods Manual."
- B. Comply with TIA-607-B and NECA/BICSI-607.
- C. Locate grounding bus bar to minimize the length of bonding conductors. Fasten to wall, allowing at least a 2-inch clearance behind the grounding bus bar. Connect grounding bus bar to

suitable electrical building ground, using a minimum No. 4 AWG grounding electrode conductor.

- D. Bond metallic equipment to the grounding bus bar, using not smaller than a No. 6 AWG equipment grounding conductor.

3.4 IDENTIFICATION

- A. Identify system components, wiring, and cabling complying with TIA-606-B. Comply with requirements for identification specified in Section 270553 "Identification for Communications Systems."
- B. Paint and label colors for equipment identification shall comply with TIA-606-B for Class 4 level of administration, including optional identification requirements of this standard.
- C. Equipment grounding conductors.
- D. Cable and Wire Identification:
 - 1. Label each cable within 4 inches of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.
 - 2. Each wire connected to building-mounted devices is not required to be numbered at the device if wire color is consistent with associated wire connected and numbered within panel or cabinet.
 - 3. Exposed Cables and Cables in Cable Trays and Wire Troughs: Label each cable at intervals not exceeding 15 feet.
 - 4. Label each terminal strip, and screw terminal in each cabinet, rack, or panel.
 - a. Individually number wiring conductors connected to terminal strips, and identify each cable or wiring group, extended from a panel or cabinet to a building-mounted device, with the name and number of a particular device.
 - b. Label each unit and field within distribution racks and frames.
 - 5. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Label each connector and each discrete unit of cable-terminating and -connecting hardware. Where similar jacks and plugs are used for both voice and data communication cabling, use a different color for jacks and plugs of each service.
- E. Labels shall be preprinted or computer-printed type, with a printing area and font color that contrast with cable jacket color but still comply with TIA-606-B requirements for the following:
 - 1. Cables use flexible vinyl or polyester that flexes as cables are bent.

3.5 FIELD QUALITY CONTROL

- A. Perform tests and inspections
- B. Tests and Inspections:

1. Visually inspect jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA-568-C.1.
 2. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
 3. Test twisted pair cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection.
- C. Data for each measurement shall be documented. Data for submittals shall be printed in a summary report that is formatted similarly to Table 10.1 in BICSI's "Telecommunications Distribution Methods Manual," or shall be transferred from the instrument to the computer, saved as text files, printed, and submitted.
- D. Remove and replace cabling where test results indicate that they do not comply with specified requirements.
- E. End-to-end cabling will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

END OF SECTION

Pamlico County School 6-12



ITEM #	REQUEST DATE	REQUEST LOCATION Plans/Spec/Bid Manual	QUESTION	RESPONSE	RESPONDER	ANSWER DATE	TRADE/SCOPE	REQUEST BY
1	6/25/2024	Plans	Scope of work states to include Commercial Laundry Equipment and Residential Equipment. Is there drawings and equipment schedules with indicating these items and the quantities?	There will be no schedule provided. See Spec Section 11 21 73.10 for Commercial Laundry Equipment. BOD is provided.	SFLA	7/2/2024	BP1140	Singer Equipment
2	6/26/2024	Scope	Reviewing the scope of work for BP1140, I see it calls for this bid package to be responsible for the 11 27 73.10 Commercial laundry spec section, and the 11 30 13 residential spec section. We are not a laundry or a residential equipment dealer, and both fall outside of our wheelhouse of work. Can these spec sections be moved to the BP0150 general trades scope?	No, the 11 27 73 (Commercial laundry spec section) and the 11 30 13 (residential equipment) will not be moved to BP0150 General Trades Scope.	Metcon	7/12/2024	BP1140	11400 - Food Service
3	6/26/2024	Scope	Line 32 in the BP1140 scope of work states that this scope of work is responsible for final connections. Final connections are clearly indicated by MEP trades in the other scopes of work and on E-501, P-408, and FS Drawings. Please confirm final connections are by others.	Electrical contractor will bring power to the location of the appliance, each subcontractor is responsible for making their final electrical connection at the appliance.	Metcon	7/12/2024	BP1140	11400 - Food Service
4	6/26/2024	Scope	Line 33 in the BP1140 scope of work states that this scope of work is responsible for kitchen exhaust fans, and make-up air units. These are indicated in the 11 40 00 specs as by mechanical (page 1) and listed on M-003 as by the MC. M-003 also indicates that the MC is responsible for the hood, fire suppression system, and fans. Please confirm that the MC is responsible for the exhaust and make-up air units for the kitchen. Also please verify who is responsible for providing and installing the hood and fire suppression system.	MC is responsible for the hood, exhaust and make-up air units for the kitchen. Fire Suppression Contractor will be responsible for the hood fire suppression system. (line 33 on the Food service equipment Scope will be deleted and added to the Mechanical Scope)	Metcon	7/12/2024	BP1140	11400 - Food Service
5	6/26/2024	Specifications	Spec 123553.19 calls for white oak and red oak in the spec. Which veneer is desired? Red oak is a standard veneer while white oak will be much more costly.	Red Oak. Specification to be revised.	SFLA	6/27/2024	BP1230	Nycom
6	6/26/2024	Specifications	Spec 123553.19 calls for the back of doors and interiors of the cabinets to be stained. Please confirm this is required and the added cost should be included.	This is required.	SFLA	6/28/2024	BP1230	Nycom
7	6/26/2024	Drawings	Section 101400 Signage - 2.3 Room Identification Signs 15. C. "Refer to Signage Schedule". Please provide a "Signage Schedule" correlating with the signage elevations detailed on 1/A-520.	Specifications will be revised. Sign Schedule is not provided. Refer to drawings for all sign locations. We will issues revision to the documents to include additional general notes for signage. Note will include but not be limited to " Provide Signage at all interior door locations. Rooms with more than one access point shall require signage at each location."	SFLA	7/2/2024	BP1014	AOA Signs
8	6/26/2024	Drawings	Section 101400 Signage - 2.6 Dimensional Letter Signs C. 6. Copy List does NOT include Copy: "Pamlico County Middle School" (5/A-423) Please confirm the copy "Pamlico County Middle School" detailed on drawing A-423 is required.	This is required. Specifications to be revised.	SFLA	7/2/2024	BP1014	AOA Signs
9	6/26/2024	Scope	Line 11 of the carpet/resilient scope BP0960 under trade specific section notes that resilient athletic flooring to be provided by this contractor. The Athletic flooring scope sheet BP0964, however, lists the resilient athletic flooring spec section as being included in this package with the wood athletic flooring. Does the resilient athletic flooring belong in the carpet/resilient scope, or with the wood athletic flooring scope?	Resilient athletic flooring belongs in the wood athletic flooring scope. (Remove line 11 of BP0960)	Metcon	7/12/2024	BP0960	Bonitz
10	6/27/2024	Logistics	Will there be any additional layout areas available for Conex's/ storage? Describe logistics for employee parking?	There will be 2 employee parking areas that will have extra conex laydown area. In addition to that there will be more storage and lay down area by the job site trailer and towards the back of the new building. Please refer to the logistics plan.	Metcon	6/27/2024	BP0150	Pre-Bid
11	6/27/2024	Drawings/Scope	Regarding the canopy foundations , Will you need this supported by the ground improvement (aggregate pier scope)?	No, ground improvement will only be used around the foundations of the building.	Metcon	6/27/2024	BP1073/3160	Pre-Bid
12	6/27/2024	Bid Manual	What is the process for becoming a pre-qualified tier 1 subcontractor for this project?	Subcontractor will have to fill out prequalification forms A and B, and go through the review process. Please call Ms. Tina for more information.	Metcon	6/27/2024		Pre-Bid
13	6/27/2024	Specifications	Will duct cleaning be required per spec or only if it fails cleanliness test?	Duct cleaning will be required per the spec.	Metcon	6/27/2024	BP2300	Pre-Bid
14	6/27/2024		Who will be setting Trimble points, will they be in each room as needed?	Tremble points will not be set in each room. Control points at strategic points around the building will be set by Construction Manager to be used by subcontractors for doing their own layout.	Metcon	6/27/2024		Pre-Bid
15	6/27/2024	Bid Manual	Is there a preliminary phased construction schedule at this time?	Not at this time, a preliminary schedule will be provided in an upcoming addendum.	Metcon	6/27/2024		Pre-Bid

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ITEM #	REQUEST DATE	REQUEST LOCATION Plans/Spec/Bid Manual	QUESTION	RESPONSE	RESPONDER	ANSWER DATE	TRADE/SCOPE	REQUEST BY
16	6/27/2024	BIM	Have you made a decision regarding BIM? Will sprinkler and cable tray be involved?	The sprinkler subcontractor will provide their own design and 3D drawings done with Auto desk, Revit or Navisworks. The completed sprinkler design will be used for coordination by the BIM Manager. Please refer to Bid package #2100 for fees associated with BIM coordination. Note, the BIM coordination allowance is not to be used against the subcontractor's time to build their 3D model. The BIM allowance is set to pay for the coordination done by the BIM Manager.	Metcon	6/27/2024		Pre-Bid
17	6/27/2024	Drawings	Regarding the structural details, most connections show flag bars, can alternate details be provided to lower the cost for welding?	Architect states this could be possible. Question to be sent as an RFI for further discussion with the Structural Engineer. A substitution request form will need to be submitted.	Metcon	6/27/2024		Pre-Bid
18	6/27/2024	Logistics	Please provide an equipment and crane access plan around the footprint of the new school, will there be access between the existing school and the new construction?	There will be crane and equipment access all around the building with the exception of a small area in the north-east, were the old building and the new building are closer together. Subcontractor will have to plan accordingly to complete their scope of work. Geotech reports will be made available for subcontractors to use while doing the crane pad and lift plan.	Metcon	6/27/2024		Pre-Bid
19	6/27/2024	BIM	If Metcon does the BIM, does the \$35,000 allowance need to be included in the cost?	Pre-coordination has been done, but full coordination will occur when all shop drawings are incorporated into the BIM model. If your scope of work calls for a BIM allowance, then it needs to be included in the bid.	Metcon	6/27/2024		Pre-Bid
20	6/27/2024	Scope	Is there any additional information that can be provided for the photovoltaic alternate scope of work will be included in the build? Client interest?	As any alternate, after all the bids come in, the owner reserves the right to choose alternates at their discretion.	Metcon	6/27/2024		Pre-Bid
21	6/27/2024	Scope	Are the current bid packages amendable? There are items within Div. 10 package that traditionally fall under other scopes i.e.. lab equipment and ark kilns. Typically, we see visual displays and metal storage solutions within the specialties however they are separate on this project.	The scopes of work can be amendable depending on the situation and subcontractor feedback. There are no visual displays in this project and the kilns are owner provided.	Metcon	6/27/2024	BP1020	Pre-Bid
22	6/27/2024		Would proven clearance for entire crews to be able to work on military installations (DBIDS badges) meet your security requirements? If not, would background check costs be passed to the subcontractors?	This project will not accept any workers listed in the State Sex Offender and Public Protection Registration Program. For more information please see section D (Standard scope inclusions), item 18 of the scopes of work. Any expense should be included in your bid number, if any.	Metcon	6/27/2024		Pre-Bid
23	6/27/2024	BIM	Do the submittal drawings have to be in BIM?	Submittal drawings can be in 2D.	Metcon	6/27/2024		Pre-Bid
24	6/27/2024	Scope	Will there be an audio-visual package for this project?	No, there will not be an audio-visual package for this project.	Metcon	6/27/2024	BP1152	Pre-Bid
25	6/27/2024	Bid Manual	When will we receive bid documents?	Bid documents have been released to all certified, pre-qualified subcontractors thus far. If you have not received the documents please contact Andrea Avery.	Metcon	6/27/2024		Pre-Bid
26	6/27/2024	Bid Manual	Do the minority business listed in Affidavit A have to be HUB certified?	Yes, they must be pre-certified.	Metcon	6/27/2024		Pre-Bid
27	6/27/2024		The bid bond on the bid manual shows 10%. Can you confirm that this is correct and it's not 5%?	The bid bond for this project is 10%.	Metcon	6/27/2024		Pre-Bid
28	6/27/2024	Logistics	Crane access, will there be only one side access? Looking at the layout, crane access will be tight, and a bigger crane will be needed due to the reach.	There will be multiple access points for cranes to come in, please see the logistics plan and plan accordingly.	Metcon	6/27/2024		Pre-Bid
29	6/27/2024	Scope	Can you state the requirement for ground improvement regarding fire suppression tank?	In preparation for the installation of the fire suppression Tank, deep stone column foundations will need to be installed before concrete foundations can be poured.	Metcon	6/27/2024	BP3161/0780	
30	6/28/2024	Plans	General Note #2 on the Enlarged Plans and Elevations pages A-408 through A-413 states that only rooms "Chemistry 1718, Prep 1708B, Prep 2230B, and MS Science 2230" receive wood lab casework, however the elevations are showing wood lab casework in additional rooms not called out on this list. Also, room #1718 is actually shown as a Biology Lab and not Chemistry. There are also multiple other Lab rooms that receive lab equipment (drying racks, safety stations, goggle cabinets, etc.) that aren't on this list of rooms that receive lab casework. Can you please clarify which rooms are to receive wood lab casework?	General Note Should Read: "Chemistry 1710, Prep 1708B, Prep 2232B, and MS Science 2230" receive wood lab casework. Wood casework is indicated correctly on elevations. There is an error on sheet A-413. The sheet is referencing incorrect room numbers in the view titles. (MS Science 2225 to be MS Science 2230; PREP 2225B to be PRE 2232B) There are only 2 classrooms and 2 prep rooms with wood lab casework and phenolic counter tops.	SFL+a	7/2/2024	BP1230	NYCOM

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ITEM #	REQUEST DATE	REQUEST LOCATION Plans/Spec/Bid Manual	QUESTION	RESPONSE	RESPONDER	ANSWER DATE	TRADE/SCOPE	REQUEST BY
31	6/28/2024	Scope	BP1020 Specialties mentions Bike Racks and Fire Extinguisher cabinets but does not include those specifications. Are these included in this bid package?	For Fire Extinguisher cabinets specifications please look at Spec Section 10-44-00. Bike racks are not included in this project.	SFL+a	7/2/2024	BP1230	NYCOM
32	6/28/2024	Plans	Finish Plan A711A doesn't note shades at 1111 (ext. window) nor at 1102 (ext. /int windows). Do these areas receive shades? Please confirm.	Provide Window shade in at Ext. Window 1111 only.	SFL+a	7/2/2024	BP1220	CWT
33	6/28/2024	Plans	Finish Plan A715E is noting WT1 shades at doors @ rooms 1502, 1504, 1506. Are shades required at doors?	No, they are not.	SFL+a	7/2/2024	BP1220	CWT
34	6/28/2024	Bid Manual	Do all bid packages require bid bond?	No, Bid Bonds are only required for packages \$100,000.00 or grater. Bid manual has been updated.	Metcon	7/12/2024	BP1220	CWT
35	7/1/2024	Plans	Specifications give an allowance for brick, but the elevations call out a basis-of-design manufacturer and color. Should we just use the allowances as stated?	Use allowance to provide brick that matches the basis of design. Substitute requests will be reviewed to match Basis of Design.	SFL+a	7/2/2024	BP0400	Southeastern Contracting
36	7/1/2024	Plans	A010 wall type 6B1S is hatched like CMU but this is definitely metal stud, correct?	Yes! That is a graphic error. This will be corrected in an addendum.	SFL+a	7/2/2024	BP0400	Southeastern Contracting
37	7/1/2024	Plans	Will the brick allowance cover the special shapes such as shown in 9/A511?	No. Bid as drawn.	SFL+a	7/2/2024	BP0400	Southeastern Contracting
38	7/1/2024	Scope	Masonry scope item 41d refers to surface mounted expansion joint covers, but this is also scoped in BP0710 item 11d. Please confirm that this work will be provided by BP0710.	Surface mounted expansion joint covers and gasket will be removed form BP0710 (item 11d).	Metcon		BP0400	Southeastern Contracting
39	7/1/2024	Plans	Detail 2/A503 shows foam insulation below finished floor. If we can install an equivalent thickness of rigid foam board at this location, we can install the outer and inner masonry wythes at the same time, thus eliminating any chance of debris or mud getting on the foundation. Please advise if this is acceptable.	No. Bid as drawn.	SFL+a	7/2/2024	BP0400	Southeastern Contracting
40	7/1/2024	Scope	Will a mockup be required on this project? If so, can we get details?	Yes.	SFL+a	7/2/2024	BP0400	Southeastern Contracting
41	7/1/2024	Specifications	Lockers MFG substitution request.	Not Complete - Provide Request per Specs.	SFL+a	7/1/2024	BP1050	Elite Storage Products
42	7/2/2024	Specifications	The Div. 9 Specifications call out "Pre-molded" outside rubber corner bases. Basis of design is Flexco and they do not make a pre-molded corner base. There is nothing in the scopes stating that the pre-molded is required. Can you please confirm if pre-molded can be excluded (otherwise, Flexco cannot be the basis of Design)?	Flexco will not be the BOD for the Vented Wall Base. Johnsonite will be the BOD for the Vented Wall Base. Flexco will remain the BOD for Non Vented Wall Base. - Specs and Drawings will be updated.	SFL+a	7/12/2024	BP0960	Bonitz
43	7/8/2024	Scope	Please clarify line item from tile scope of work: 38. The subcontractor is required to utilize a robotic total station (similar to that offered by Hilti, Trimble, or Leica) for layout, backchecking, verification before installation, and documenting as-built conditions.	Item 38 on the Tile Scope of Work refers to the use of a robotic total station which measures both, vertical and horizontal angles and slopes. This will ensure accuracy of the final installed product.	Metcon	7/12/2024	BP0930	Concordia
44	7/8/2024	Scope	I am wanting to know if we can do a switch from Sheet Applied Air Barrier to Fluid Applied Air Barrier for Spec 072700. Looking at using Henry Airbloc 17MR. I can submit a technical data sheet if needed	We would like to be approved as an equal for the products in spec section 09840+C52:J580 Acoustic Room Components for Pamlico County School	SFL+a	7/12/2024	BP0750	Eskola
45	7/8/2024	Plans	Architectural details do not show any fireproofing surrounding structural steel framing, however, on G-005, UL Design No. D925 shows fireproofing field applied to steel beams. Please clarify on plans, section's and details in the building framing of the need for this fireproofing.	Note on G-002 Building Code Summary in the Fire Protection Requirements Table states that: ! NOTE: FLOOR ASSEMBLY - D925 1/G-005 IS FOR RATED ALCOVE LIDS ONLY. This UL detail is for the solid concrete lid only. No steel structure is rated in any	SFL+a	7/12/2024	BP0510	CM Steel
46	7/8/2024	Plans	The Aluminum Roof Ladders shown on 2/A-445 are not listed in the BP0510 Scope. What package do they belong to? Or, Are they marked incorrectly, and should be prime painted steel ladder?	They are in the wrong scope section Metcon to correct.	Metcon	7/12/2024	BP0510	CM Steel
47	7/8/2024	Plans	Please clarify the conflicting Rail Metal Types as shown for Stair #7. Sheet A-443 Details 9 and 2.	Revisions will be made. Stair 1, 2, 7 and 8 in mechanical and fire stair areas should have painted steel handrails and guardrails.	SFL+a	7/12/2024	BP0510	CM Steel
48	7/9/2024	Specifications	I am going through the specs on this project and have found a discrepancy in section 27.00.00. The first sentence in the summary states to use "category 6A" and the rest of the specifications / drawings refer to category 6. What direction would you like me to take?	CAT 6A shall be used as indicated on T-001 . The corrected spec shall be distributed in the bid addendum.	SFL+a	7/12/2024	BP2600	NC Sound of Goldsboro
49	7/10/2024	Specifications	Confirm which are lab fridges (by spec 115300) and which are residential fridges (by spec 113013) as the plans do not distinguish between the two.	Lab fridges are located in science prep rooms only.	SFL+a	7/12/2024	BP1230	Nycom
50	7/10/2024	Plans	Ref to 1/A-111F.1. The structural plan 1/S-101F does not match. Structural plan is missing the Curtain Wall Openings as shown on the Arch. Floor Plan along grid G.	Along CL- G there are no Curtain Walls on Level 1. All glazing on L1 on CL-G are SF. Curtain Walls type 7 and 8 are shown on A-112F.1. They are shown only on Level 2.	SFL+a	7/12/2024	BP0510	CM Steel

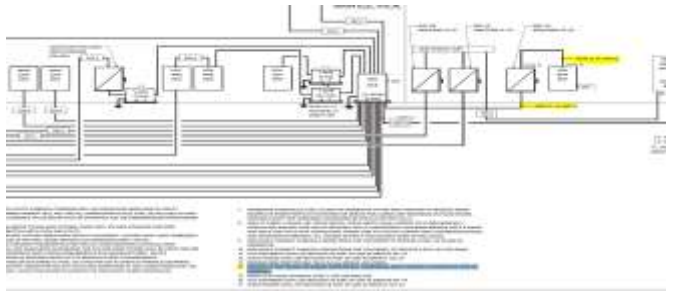
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51	7/10/2024	Plans	The only reference to concrete equipment pads that I see is in the Mechanical General Notes on sheet M-001 and it only states the requirement to confirm pad sizes, and locations in relation to floor drains. Typically, the mechanical contractor will coordinate pad locations to be installed by the concrete contractor. Is that the direction we are going on this project?	Yes, coordination with mechanical contractor will be needed for installation of concrete equipment pads.	Metcon	7/12/2024	BP2300	TA Woods
52	7/10/2024	Schedule	Due to the tight 45 day schedule on the demo/abatement can the abatement be completed over holidays and breaks during the school year?	Yes, abatement can be completed over summer breaks and holidays. Please refer to schedule for more details.	Metcon	7/12/2024	BP0240	DH Griffin
53	7/10/2024	Plans	Will SFLA and the Engineer of Record provide a Structural Shear Wall plan, Elevations, Wall Sections and Details for this project.	We will provide plan views denoting shear wall locations and corresponding sections/details. Wall elevations will not be provided. This will be incorporated in a future Addendum.	Bennett & Pless	7/12/2024	BP0510	CM Steel
54	7/10/2024	Specifications	Substitution Request for Wall Panels	Submitted for review - pending approval	SFL+a	7/12/2024	BP0950	Acousti
55	7/10/2024	Specifications	Spec section 098400 2.3 B 7 d 1) states Factory applied paint. Just below it for 2) states Field Applied. Are the Cementitious panels to be factory or field painted?	Field Painted. Specification will be updated to reflect.	SFL+a	7/12/2024	BP0950	Acousti
56	7/11/2024	Specifications	Please advise on missing specification 2.7 COMMUNICATIONS COPPER HORIZONTAL CABLING A. Comply with requirements for identification products in Section 271518 "Communications Copper Horizontal Cabling."	Specification to be provided.	SFL+a	7/12/2024	BP2700	Strategic Connections
57	7/11/2024	Specifications	We would like to be approved as an equal for the products in spec section 098400 Acoustic Room Components for Pamlico County School	Not Complete - Provide Request per Specs.	SFL+a	7/12/2024	BP0950	AVL
STOP OF ADDENDUM 1								
58	7/11/2024	Plans	ADA Ambulatory stalls require (2) 42" Grab bars and (2) 18" Grab Bars to meet the guidelines however the plans only show (2) 42" Grab Bars, are those stalls intended to meet the ADA Ambulatory stall requirements?	Yes.	SFL+a	7/12/2024	BP1020	Precision Walls
59	7/11/2024	Plans	The Athletic lockers are specified to be 12x15x72" however the finish legend states the measurements to be 15x15x72" and the page showing the lockers A-415 states 12x36" dimensions. What is the correct sizing intended to the athletic style lockers.	12x36 is the correct size. This will be corrected.	SFL+a	7/12/2024	BP1050	Precision Walls
60	7/11/2024	Plans	Metal Storage Shelving is shown however is not listed as a scope of work within BP1050 Storage Specialty, please confirm which owns this scope of work.	Yes. It is in the scope of work.	SFL+a	7/12/2024	BP1050	Precision Walls
61	7/11/2024	Plans	The mirrors shown in the Weight Room on page A-415 are marked as MIR2, please confirm these are intended to be stainless framed, tempered glass mirrors such as in the bathrooms.	No. We will revise the mirror and issues an update in the Addendum.	SFL+a	7/12/2024	BP1020	Precision Walls
62	7/11/2024	Specification	Based on the location and design criteria, this project appears to be in and require glass and glazing systems that are rated for hurricane impact resistance to wind borne debris. However the specified Exterior Storefront Framing in spec. sec. (084113), Curtain Wall Framing in (084413) basis of design(s), and the insulated glass make ups listed in spec. section 088000 are not rated for hurricane impact resistance. Can we get confirmation that hurricane impact resistant to wind borne debris is or is not required for this project? If it is required we will need insulated glass makeups Basis of designs specified that meet this impact requirement.	Based on the building location and Risk Category, we are not in a wind-borne debris region.	SFL+a	7/12/2024	BP0840	Clayton Commercial
63	7/11/2024	Scope	The Enlarged Science Lab Plans & Elevations Schedule on sheets A-408 through A-413 indicates Goggle Cabinet, Drying Rack, and Teacher's Display are OFOI items. Please confirm	This is to be Contractor Provided Contractor Installed.	SFL+a	7/17/2024	BP0840	Clayton Commercial

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64	7/11/2024	Plans	A-111E.1 there appears to be 4 locations where interior walls abut into storefront framing (SF29). Will a wall end cap be required at these locations? If so will it be brake metal or a special assembly such as a mullion mate? (if an assembly we will need a spec. & basis of design for this product) Who will be responsible for furnishing and installing these wall end caps?	See detail 7/A-512 for gyp wall cap information. Note Acoustic partitions closers are included in detail. Fire rated wall endcaps shall be furnished by BP0920.	SFL+a/Metcon	7/17/2024	BP0840	Clayton Commercial
65	7/11/2024	Scope	Who will be responsible for installing the auto swing door operators at aluminum door locations?	Material to be supplied by doors and hardware and installed Electrician.	Metcon	7/17/2024	BP0840	Clayton Commercial
66	7/11/2024	Scope	Curtain Wall Elevations CW04, CW06 and CW08 have louvers installed in them, please confirm that these louvers will be furnished by BP2300 and that BP0840 will install them into the curtain wall framing. All other louvers on the project are furnished and installed by BP2300.	Louvers are to be furnished by BP2300 (HVAC) and to be installed by BP0840 (Glass and Glazing) when they are on a curtain wall framing. Coordination is required.	Metcon	7/17/2024	BP0840	Clayton Commercial
67	7/11/2024	Plans	Door #s: S-S1-B, 2-S4-B, 2-S5-B, C1800, & E1301-B Call for fire rated aluminum frames. Please provide a spec. and basis of design for the aluminum fire rated frames.	rated doors are to have Hollow Metal Frames. Schedule to be update	SFL+a	7/17/2024	BP0840	Clayton Commercial
68	7/11/2024	Plans	Door #s: C1500C, C1600, C1600A, and C1800 calls for fire rated doors lites, please provide a spec. and basis of design for the fire rated glass.	Spec will be provided in a forthcoming addendum.	SFL+a	7/17/2024	BP0840	Clayton Commercial
69	7/11/2024	Scope	Item 9: "Protecting work until Owner accepts", to what extent (how much of each frame) will the glass and glazing need to be protected, and what will be the acceptable means for this protection?	Sometimes during the installation or adjacent glazing the frames or the already installed get dented or scratched. What we are looking for is for protection against scratches and dents on the frames. Please use anymeans to ensure a dent and scratch free final product to the owner.	Metcon	7/17/2024	BP0840	Clayton Commercial
70	7/11/2024	Scope	Item 14: "provide & Maintain temp. wd. or mtl. framed plastic covering infills at all door window openings", With the amount and qty. of openings on this project it would be very expensive to build and maintain framed temp. infills for every opening, at some locations due to the size of the openings it wouldn't be practical either. Please clarify the true amount of openings that BP0840 will need to provide temp. infills for. (will the openings be released in phases so temp. infills can be reused in other areas as windows are installed and other rough openings are built?	Temporary infills will need to be place in an as needed basis during the dry-in portion of construction. Rotation of material is acceptable.	Metcon	7/17/2024	BP0840	Clayton Commercial
71	7/11/2024	Scope	Item 26: "provide temp. lockable doors at all aluminum door openings for construction use", however in BP0810 item #4d & 5, Calls for Temp doors at "ALL exterior doors of the building" and that BP0810 will coordinate with Storefront Subcontractor to ensure the temp. doors and hinges will not damage aluminum frames, so it seems that BP0810 will be responsible for all temp. doors on the project and that Item #26 in BP0840 can be deleted from that Scope of Work, is that correct?	Each subcontractor will be responsible for their own temporary doors. BP0840 will be responsible for temporary doors in aluminum frames and BP0810 will be responsible for all other doors.	Metcon	7/17/2024	BP0840	Clayton Commercial
72	7/11/2024	Scope	Item 29: If Applicable, Include polycarbonate panels in gym windows, do not see any reference to polycarbonate glazing in the 088000 specs. or in the glazing schedules on A-602,A-621 or A-622, so it seems that this is not a requirement for this project. Please confirm that this is the case and remove this line item from BP0840 SoW to avoid confusion.	The statement "If applicable" answers this question. There are no polycarbonate panels in this project. If polycarbonate panels are added in the future, BP0840 is responsible for the change order.	Metcon	7/17/2024	BP0840	Clayton Commercial
73	7/11/2024	Plans C76:C84	Note 14 on the feeders from Panel PVM to PV Disconnect and PV Disconnect to MSB call for CTs. What is the purpose of these CTs? E701 	Energy monitoring through the BAS system	SFL+a	7/17/2024	BP4814	8MSolar
74	7/11/2024	Bid Manual	Since solar is part of Alternate 03, please confirm if bidders are required to provide a bid bond and the payment and performance bond.	Yes, if you lpace a bid for Alternate 3 (solar) and the amount is over \$100,000 you will need to provide a bid bond payment.	Metcon	7/17/2024	BP4814	8MSolar

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75	7/11/2024	Specifications	Substitution Requests:1 - Modules: Basis of design: Q Cell 480 W Proposed Substitution: Longi 540 W (datasheet attached) 2 - Inverters: Basis of design: SolarEdge 120KW Inverters Proposed Substitution: SMA 62.5 kW Inverters (datasheet attached) 3 - Rapid Shutdown Devices: Basis of design: SolarEdge Optimizers Proposed Substitution: RSD-D20s for SMA Inverters (datasheet attached)	Submitted for review - pending approval	SFL+a	7/12/2024	BP4814	8MSolar
76	7/12/2024	Plans	Sheet A-601: Doors 1502A-1504A-1506A-1510A-1512A-1514A-1516A-1602B are all indicated as door material "GLASS" but door type is indicated as "FG-Full Glass". Also, hardware types for these doors would indicate a Stile and Rail door is to be used. Please review and clarify the correct Door Material & Door Type for these (8) entrances.	Door Material will be updated to ALUM (Aluminum), Refer to Door Legend for Associated Door Type. FG is shown correctly with stiles and rails as shown. Please note glass type for interior vs. exterior locations. We will provide additional notes for clarification on the drawings in Addendum 3	SFL+a	7/17/2024	BP0840	Glass Tech Commercial
77	7/12/2024	Plans	Sheet A-601: Virtually all interior door frames (F1-F2-F3) are indicated to be material type "ALUM" with "Wood" doors. However, the door schedule does not delineate which of the interior aluminum framing systems (Trifab 450 - 2" x 4-1/2" - Surface Mount or In Frame - 2" x 6" - Wrapped) is to be used for each door frame opening. -Please provide desired framing sizes, Head/Jamb/Sill details, and wall thickness for each (F1-F2-F3) interior aluminum entrance?	<i>A full review will be completed. Our intention for the In Frame system (IF) vs. Trifab system (TF) is indicated in the notes of the glazing schedule and in the storefront specifications. Masonry walls are to have TF system and Gypsum walls are to have IF systems unless noted otherwise. In a forthcoming addendum we will provide a column in the</i>	SFL+a	7/17/2024	BP0840	Glass Tech Commercial
78	7/12/2024	Plans	Sheet A-601: Door 1718A is listed as material type "H.M." door in an "ALUM" frame. Please review and clarify if this is correct.	HM door in a HM Frame is correct. We will correct in the drawings in a forthcoming addendum.	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
79	7/12/2024	Plans	Sheet A-601: Doors 2-S1-B / 2-S4-B / 2-S5-B / C1800 / E1301-B are all indicated to be fire-rated entrances with wood doors but the framing material is indicated as "ALUM". No aluminum manufacturer produces a fire-rated framing system, all systems are Hollow Metal, Steel, or a Steel-clad system. -Please review and advise on fire-rated entrance makeups and if necessary, provide a fire-rated entrance specification and basis of design? -Please clarify what scope of work is to provide Fire-Rated entrance framing?	See Item 67.	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
80	7/12/2024	Specifications	Specification 084113-084413 – Part 2.6 – Section A. – Finishes: indicates a Color Anodized Finish "As selected by the Architect from the manufacturer full range of options." -Please provide the desired Anodized Finish Color for the aluminum storefront and curtainwall as these options all vary significantly in Cost and Material Availability.	ication Will be updated to select: Clear Anodized in forthcoming Adde	SFL+a	7/12/24.	BP0840	Glass Tech Commercial
81	7/12/2024	Plans	Sheet A-621: Please confirm that the "SF" framing on this sheet is to be interior aluminum storefront type: In Frame -2" x 6" – Wrapped?	Per frame legend on A-621. SF - 6" Nominal Aluminum Interior Frame System is intended to be our BOD: In Frame Wrapped System.	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
82	7/12/2024	Plans	Sheet A-621: Please confirm that the "SF ₁ " type interior aluminum storefront is to be: Trifab 450 - 2" x 4-1/2" Front- Set – Surface Mount?	Per frame legend on A-621. SF - 4 1/2" storefront non - thermally broken (Indicated with "x.1" indicator) are intended to be our BOD Trifab 450 2" x 4 1/2" front set system. Note that all 4 1/2" systems are noted on sheet A-621 with notes below for additional information in Addendum 3.	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
83	7/12/2024	Specifications	Given the projects physical location, Kawneer (Basis of Design: Aluminum manufacturer) has requested written clarification and confirmation on whether or not the architect has determined if NCBC / IBC requires that this projects exterior aluminum curtainwall, storefront, and entrances be WIND-BORNE DEBRIS (Large & Small missile) Hurricane-Impact Resistant compliant for exterior framing and glazing.	he building location and Risk Category, we are not in a wind-borne de	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
84	7/12/2024	Plans	Glazing type "ILG" does not appear to be tagged anywhere on the framing elevations. Please confirm its usage?	This glazing type has been removed from the project. Unused symbol removed in Addendum 3.	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
85	7/12/2024	Plans	Sheet A-621: "SF11 & SF19.1" indicate a door type with a Cross Rail which is not found on the door schedule.	is is a graphic error. This will be corrected in a forthcoming Addendum	SFL+a	7/12/2024	BP0840	Glass Tech Commercial
86	7/12/2024	Plans	Sheet A-601: Multiple SF/CW tags do not align with the correct frame to door location. (Ex. 1100-E indicates "SF06" / C1800A indicates "SF13" / Doors 1401 indicates "CW07" which are all windows without entrances.)	A full review of the SF and CW locations will be reviewed and revised in a forthcoming Addendum.	SFL+a	7/17/2024	BP0840	Glass Tech Commercial

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87	7/12/2024	Scope	Could I get clarification between package 0510 and 0550? I assume 0550 will provide the Stainless Steel Ornamental Rail system shown on sheet A-441 and the railings in detail 9/A442, and 0510 will provide the stairs and the standard Steel Railings?	That is correct. BP0550 (Ornamental Metals) will provide the stainless steel ornamental railing system and BP0510 (Structural Steel) will provide the stairs and steel railing.	Metcon	7/17/2024	BP0550	Steel and Pipe
88	7/12/2024	Plans	Some rooms show name tag with different hatches, for e.g.: Room No's 1106,1111 etc....show tag for LVT-2 and shows Hatch as LVT-1, room No's like 1114,1108 etc.... show tag as CPT-2 and hatch as CPT-1. Please clarify, what shall Superseed, Finish plan tag or Finish hatches.	s is a graphical error. This will be corrected in a forthcoming addendum.	SFL+a	7/17/2024	BP0960	John Systems
89	7/12/2024	Schedule	Demolition schedule states we have 3 weeks to complete demolition 6/15/2026 – 7/5/2026. During the site visit yesterday we were told that we only have 2 weeks to complete the demolition. Can we please clarify the schedule?	A schedule will be provided to identify dates and durations.	Metcon	7/17/2024	BP0240	DH Griffin
90	7/12/2024	Schedule	Are the bulbs/ballast removal included in the 7 day lite interior demolition occurring 3/30/2026-4/5/2026?	No, bulbs and ballast are not included on the soft demolition. Soft demolition will be for items that can be demolished/removed and keep the school operational until final demolition.	Metcon	7/17/2024	BP0240	DH Griffin
91	7/12/2024	Scope	Are we allowed to leave the VCT tile on the slab during demolition? The VCT can be crushed with the slab. Or will the VCT need to be removed from slab?	Vinyl Composit Tiles will need to be removed. During summer school breaks, soft demo such as VCT removal will be allowed to expedite demolition and abatement.	Metcon	7/17/2024	BP0240	DH Griffin
92	7/12/2024	Scope	Are there any restrictions on what hours/days we can work?	There are no restrictions on hours of operations.	Metcon	7/17/2024	BP0240	DH Griffin
93	7/12/2024	Scope	Are there any restrictions on the number of loads per day we can bring to Corey Harrison's dump? Can he keep up with the large number of loads he will be receiving per day	No, there are no restrictions on the number of loads per day that can be delivered to Corey's Dump Site.	Metcon	7/17/2024	BP0240	DH Griffin
94	7/12/2024	Scope	Are there any restrictions on truck sizes at Corey Harrison's dump?	There are no restrictions on truck sizes at Corey's Dump Site.	Metcon	7/17/2024	BP0240	DH Griffin
95	7/12/2024	Scope	Are we allowed to start demo on the out buildings and ball fields prior to the demo start date?	be schedule right after NTP (at the beginning of the project). The rest	Metcon	7/17/2024	BP0240	DH Griffin
96	7/12/2024	Scope	Can we keep the scrap metal or does it have to go to Corey Harrison's dump?	Yes you can keep the scrap metal, but stockpiling should not interfere with the schedule.	Metcon	7/17/2024	BP0240	DH Griffin
97	7/12/2024	Scope	Will liquidated damages remain \$1000 per day?	Liquidated damages will remain \$1,000 per day for all scopes with the exception of Demo and Site. For Demo and Site actual damages will be assessed in lue of liquidated damages.	Metcon	7/17/2024	BP0240	DH Griffin
98	7/12/2024	Scope	Can below grade foundations remain since this is being put back as parking/green space?	Below grade foundations will be demo'ed and haul away.	Metcon	7/17/2024	BP0240	DH Griffin
99	7/12/2024	Plans	Are there as-builts of the existing school? Specifically underground foundations?	<i>A floor plan will be released that indicates roof construction and wall construction diagrams. We have no drawing for underground foundations.</i>	SFL+a	7/17/2024	BP0240	DH Griffin
100	7/12/2024	Specification	Please confirm that aluminum 5" x 5" pocket boxes with closure plates are required in lieu of a standard front snap-on fascia.	<i>Please provide product data on related content for clarification on the qu</i>	SFL+a	7/17/2024	BP1220	Precision Walls
101	7/12/2024	Specification	The basis of design on the finish legend is Mermet. Mermet is a fabric company not a roller shade manufacturer. Please confirm that Mermet is the only fabric that can be utilized. If other shade fabrics can be utilized please indicate what fabrics are acceptable.	Any approved per-specs roller shade manufacturer with their fabric can be used.	SFL+a	7/16/2024	BP1220	Precision Walls
102	7/12/2024	Plans	Finish legend/specs do not indicate what openness % factor or Mermet fabric product line to utilize for WT-1 and WT2. Please advise.	Architect to select from full line during submittals.	SFL+a	7/12/2024	BP1220	Precision Walls
103	7/12/2024	Specification	Please confirm that this project does not have motorized window treatments, manual only.	There are no motorized window treatments. Only Manual.	SFL+a	7/12/2024	BP1220	Precision Walls

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104	7/12/2024	Scope	Item 25. Please confirm that everyone on the job is to work M-F 7am to 5:30. Typical 40-hour week M-F 7am to 3:30 is not acceptable?	Yes, evryone on the job is to work 7:00am - 5:30 pm M-F.	Metcon	7/17/2024	BP1220	Precision Walls
105	7/12/2024	Scope	BP1166 & BP1266, (Paragraph 38) it is required to utilize a robotic total station for layout, backchecking, verification before installation, and documenting as-built conditions. We are questioning why is this needed for the athletic equipment being the BB Goals are suspended in the air, and if I not mistaken a robotic total station is used for surveying on the ground. Could you clarify that we need to include the robotic total station within the Bid Packages?	Item 38 on the Tile Scope of Work refers to the use of a robotic total station which measures both, vertical and horizontal angles and slopes. This will ensure accuracy of the final installed product. It might not apply to all items within the scope.	Metcon	7/17/2024	BP1166	Learning Environments
106	7/12/2024	Scope	Bid Package BP1230-Casework, Section D, item #38 calls for subcontractor to utilize a robotic total station for surveying. Please confirm this requirement for the casework.	Item 38 on the Tile Scope of Work refers to the use of a robotic total station which measures both, vertical and horizontal angles and slopes. This will ensure accuracy of the final installed product. It might not apply to all items within the scope.	Metcon	7/17/2024	BP1230	Nycom
107	7/12/2024	Scope	Flammables storage cabinets are specified under both spec sections 11 53 00- Laboratory Equipment and 12 35 53.19- Wood Laboratory Casework. Please clarify which bid package these fall under, BP1020 or BP1230	All Flammable Storage cabinets will fall under BP1020. (Statement added to both scopes of work.)	Metcon	7/17/2024	BP1230	Nycom
108	7/12/2024	Scope	Bid Package BP1230, Section F, item #27 states "All sinks and faucets located within the casework are to be provided by this subcontractor." However, the plumbing fixture schedule on P-002 indicates that only the L1 & L2 fixtures are to be supplied by the Lab Casework Supplier. Please indicate if the P5A and P5B sinks and faucets within the PLAM casework are to be included in the BP1230 bid package or if they will be supplied by the plumbing subcontractor.	If the sinks and faucets are located within casework, they will be by BP1230 (Manufactured Casework).	Metcon	7/17/2024	BP1230	Nycom
109	7/12/2024	Scope	The Food Service Equipment Schedule on FS-002 lists items 41 and 58 to be custom millwork items. Please confirm that these are to be included in BP1230 and if so, please provide details for item #58-Concession Counter (finish selection, detail, and elevation needed).	Item 41. Will be custom fabricated stainless steel. Refer to drawings. For #58 this will be a custom fabricated stainless steel. Revision to be issued in a forthcoming Addendum.	SFL+a	7/17/2024	BP1230	Nycom
110	7/12/2024	Scope	Bid package BP1230, section F, item 28 states "This subcontractor shall be responsible for providing and installing all solid surface windowsills as indicated on the contract documents," However, there are no SSM sills found on the drawings. Please indicate if SSM sills are required.	There are no solid surface windowsills in this project.	Metcon	7/17/2024	BP1230	Nycom
111	7/12/2024	Plans	The Enlarged Science Lab Plans & Elevations Schedule on sheets A-408 through A-413 indicates Goggle Cabinet, Drying Rack, and Teacher's Display are OFOI items. Please confirm	To be Contractor Provided and Contractor Installed.	SFL+a	7/17/2024	BP1230	Nycom
112	7/12/2024	Plans	A601 - Door Legend calls out glazing type "IG2C" for all exterior doors, however, IG2C is not listed on the glazing schedule. Is this intended to be glazing type "IG2"?	IG2C for Exterior Doors with Glazing should read IG1/IG2. Contractor to reference associated glazing unit as indicated on A-602 and A-622 . Glazing tint should match adjacent glazing in unit.	SFL+a	7/17/2024	BP0840	Craven Glass Company
113	7/12/2024	Plans	A601 - Door Schedule lists doors 1100E through 1100I as frame type SF06. Page A111A.1 states that these doors are CW10.	This is correct. Doors 1100E through 1100I are CW10. Revision to be issues in forthcoming Addendum.	SFL+a	7/17/2024	BP0840	Craven Glass Company
114	7/12/2024	Plans	A601 - There are (7) doors listed on the door schedule that have a frame type of "SF", missing the identifying SF number. Doors 1102A, 1102B, 1103, 1200A, 1200B, 1808A, and C2100.	This will be corrected in a subsequent Addendum. The following doors have the following associated SF/Frame types. Door 1102A (SF05), 1102B (SF07) 1103(SF26), 1200A(SF08), 1808A (SF29) and C2100(2).	SFL+a	7/17/2024	BP0840	Craven Glass Company
115	7/12/2024	Plans	A621 - Both SF11 and SF19.1 Elevations depict full glass doors with midrails, however, that is not a door type option within the door legend.	This error was corrected in Addendum 02.	SFL+a	7/17/2024	BP0840	Craven Glass Company
116	7/12/2024	Plans	A111A.1 - Door 1103's SF is not labelled or listed on the Door Schedule	SF for Door 1103 is SF26. This will be revised and issued in a forthcoming addendum.	SFL+a	7/17/2024	BP0840	Craven Glass Company
117	7/12/2024	Plans	A111A.1 - Door 1102A is labelled as SF02. SF02 depicts a 4'-0" wide opening whereas Door 1102A is located within a 24'-0" opening.	Door 1102A should be type SF05. This will be revised and issued in a forthcoming addendum.	SFL+a	7/17/2024	BP0840	Craven Glass Company
118	7/12/2024	Plans	A111A.1 - Same as above, the glazing located within Conference Room 1104 also cannot be SF02. This opening is 6'-0" wide.	Door 1103 is a single door seperated by arox. 2' of wall. SF03 is a 6' unit and is shown correctly on A11A.1.	SFL+a	7/17/2024	BP0840	Craven Glass Company

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119	7/12/2024	Plans	A111E.1 - Door 1619 labelled "SF19.1" includes a transom. The corresponding elevation matches, however, transom framing is not listed on page A601 under frame types. The same is true for SF12. Singular transom and sidelite framing are typically called out separately within the framing types because they require a different manufacturing process.	Door 1618 should be a SF19.1. This will be revised and issued in a forthcoming addendum.	SFL+a	7/17/2024	BP0840	Craven Glass Company
120	7/12/2024	Plans	A111F.1 - The glazing located on the exterior wall of Classroom 1706 is not labelled, is this intended to be CW05?	<i>This is correct. It should be labeled CW05. This will be revised in a forthcoming Addendum.</i>	SFL+a	7/17/2024	BP0840	Craven Glass Company
121	7/12/2024	Plans	A420 - Door 1618 is shown within the elevation as having a transom. This SF is not labelled on the floor plans or elevations.	This is an error. There should be no transom. This will be revised in a forthcoming Addendum.	SFL+a	7/17/2024	BP0840	Craven Glass Company
122	7/12/2024	Plans	A442 - Detail 6 and 9 both call out "Tempered Glass Infill Panels" however there is no further information on these infill panels within the plans or the specs. There is corresponding information for cable wire infill and decorative metal railing on these staircases. Are these glass infill areas intended to be within the glazing scope and if so, can you provide any additional information?	Details 6 and 9 are incorrect. There are no glazing panels on the stairs. Decorative metal railings are currently specified. This will be revised in a forthcoming addendum.	SFL+a	7/17/2024	BP0840	Craven Glass Company
123	7/12/2024	Plans	A-112F.1 - Door C2100 is listed on the door schedule as frame type "SF" but is not labelled on the floor plan with an identifying tag, nor does it have any corresponding elevations that I have found.	<i>The frame should be Type 2. Aluminum Frame. This will be revised in a forthcoming addendum.</i>	SFL+a	7/17/2024	BP0840	Craven Glass Company
124	7/12/2024	Plans	Sheet A-601: There are a substantial amount of entrances indicated to be "ALUM" door frames without any delineation as to what the (F1-F2-F3) framing system, profile and throat size are to be. One of the basis of design Interior Aluminum framing systems used throughout the project is (Inframe - 2" x 6" - Interior wall-wrap framing system), however this system has a minimum wall throat capture size of 4-7/8" thick and a maximum of 5-1/16" thick. There are many door #s that appear to be drawn within wall types that are too thick to accept the assumed interior framing system. (Example: Doors 1200C/1207/1208B are both in wall type "8MNS" which has a 7-5/8" thickness, which the In Frame system cannot accommodate.) -Please review (F1-F2-F3), (SFx), (SFx.1) entrances and advise on what framing systems are to be utilized at each wall type thickness, whether "In Frame wall-wrap" or "Trifab 450 surface mount type".	<i>A full review will be completed. Our intention for the In Frame system (IF) vs. Trifab system (TF) is indicated in the notes of the glazing schedule and in the storefront specifications. Masonry walls are to have TF system and Gypsum walls are to have IF systems unless noted otherwise. In a forthcoming addendum, we will provide a column in the door schedule that will indicate if an SF door is an In Frame system (IF) or a Trifab system (TF).</i>	SFL+a	7/17/2024	BP0840	Craven Glass Company
125	7/12/2024	Scope	Resilient athletic flooring is shown in bid package #0964, but bid package #0960 says that "This subcontract includes all resilient athletic flooring and accessories." Please verify that bid package #0960 (Resilient Flooring & Carpet) is responsible for installing resilient athletic flooring and accessories.	Resilient athletic flooring belongs in the Athletic Flooring scope (BP0962).	Metcon	7/17/2024	BP0960	John Systems
126	7/12/2024	Plans	In Schedule Room No. 1512 (classroom), LVT-1 and TL-1 are given, but hatches are not given in this room, so we can't identify the location of LVT-1 and TL-1. Please Clarify.	Room 1512 to be LVT -1- will be updated in forthcoming Addendum.	SFL+a	7/17/2024	BP0960	John Systems
RFI DEADLINE / STOP								